



E-Health Service Acceptance Test Plan

Version 1.0

E-Health Service	Version: 1.0
Acceptance Test Plan	Date: 2012-12-30

Revision History

Date	Version	Description	Author
2012-12-26	0.1	Initial Draft: wrote all parts of the document except for Test Cases.	Gregorio Perego
2012-12-30	1.0	Added Android, WP and Web App Test Cases and revised the whole document.	Gregorio Perego Stefania Pezzetti Bojan Kosanović Petar Kekez Vedran Šikić

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1. Introduction

1.1 Purpose of this document

The purpose of this document is to determine the quality of the application, to verify the expected results from the project and to validate the implemented functions. Developed according to the requirements specifications, it's used to confirm that the developed application meets its requirements and to ensure that the system works correctly and is usable. For these reasons the document should be written when requirements are practically definitive and implementation phase is close to the end.

1.2 Intended Audience

This document is intended for:

- Project team members: to have an overview of what will be tested of the developed product.
- Project Supervisor: responsible for monitoring the status of the project, its direction and outcomes.
- Project Customer: to have comprehensive report of the system quality.

1.3 Scope

The document explains the generic system testing and in particular implemented test cases. It does not include results of test cases which are given in following Test Report document.

1.4 References

Main references to this project can be found on the DSD course official webpage:

http://www.fer.unizg.hr/rasip/dsd/projects/e-health_service

Previous documentation:

- Project Plan:
http://www.fer.unizg.hr/download/repository/Project_Plan%5B5%5D.pdf
- Requirements Document:
http://www.fer.unizg.hr/download/repository/Requirements_Definition%5B6%5D.pdf
- Design Document:
http://www.fer.unizg.hr/download/repository/Design_Description%5B1%5D.pdf

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2. Test-plan introduction

The key objective of this part is to verify all the functions implemented in the whole project and the individual parts of the system as well. This phase will cover different types of testing (manual, integrated etc.) and use techniques like positive, negative etc. Regression testing will be performed if any new method or class is added. Keeping in mind the user's interaction with the E-Health Service, the whole system is tested from different users' points of view to validate all the features and functionalities:

- Outside User
- Administrator
- First Aid
- Patient
- Doctor

3. Test items

We will test View and Controller manually and Model using unit tests.

4. Features to be tested

All the implemented features described in Requirement Definition document will be tested to make sure that they fulfill the customer's requirements. List of features to be tested is given below:

1. Web Application
2. Android Application
3. Windows Phone Application

Within them all features of the final product will be tested: the user acceptance testing phase will not test the service directly, because it will be tested indirectly, as a result of users' interaction with the mobile and web application. In this manner we can test the entire user interface (proper layout, no spelling mistakes, proper HTML controls response and front end filters for user entry), the logic (all of the implemented functionalities are working properly) and the back end (all of the data types are correctly created to handle the data so that no anomalies occur while communicating with the database).

5. Features not to be tested

Performance, load, network delays and security tests will not be performed.

6. Approach

The application is tested after each iteration (on the basis of the RUP methodology). For the alpha prototype and the beta prototype we used automated unit tests for ensuring that our model works and tested the other parts manually. For the final release we repeated the same procedure, but also wrote definitive test cases to make the approach more formal.

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7. Item pass/fail criteria

In the test report document test cases will be marked with “passed” if they show the expected results and “failed” if they do not.

7.1 Installation and Configuration

The developed web application does not depend a lot on installation and configuration on the client side. The most important thing is the browser used for testing. The web application works on Google Chrome and Mozilla Firefox, but does not work on Internet Explorer 9. The server side of the application must be installed and configured according to the installation manual (to be provided later).

7.2 Documentation problems

This document is based on mainly Requirement description and Design description documents which are basically definitive.

8. Suspension criteria and resumption requirements

The MVC structure is implemented where model, service and view are independent parts of the system, but strongly coupled with each other. If any small error occurs, the application will not crash, but a big error which crashes the whole system must be fixed immediately.

9. Environmental needs

9.1 Hardware

- A computer (Desktop, Laptop) with an Internet connection

9.2 Software

- Operating system: Windows XP, Vista, 7, 8
- Web browser: Google Chrome or Mozilla Firefox
- Visual Studio 2012 with Windows Phone SDK plugin
- Eclipse with Android plugin
- MVC4 Framework

10. Test procedure

A simple template is being used for writing test cases. Name (used as ID in the Test Report document), Description, Participating actors and Precondition are self-explanatory. Test Type means whether the test should pass or fail: positive means the test should pass, whereas negative means the test should fail. Input Definition contains the steps that will eventually produce the desired results. Output Definition explains the results we are expecting after following the steps defined in input definition and Remarks are additional comments or small tests we should consider while testing.

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10.1 Test cases specifications

10.1.1 Test Cases for Web Application

10.1.1.1 Outside User

10.1.1.1.1 Our Doctors

<i>Name</i>	Web App: Outside User – Our Doctors P1
<i>Description</i>	A user attempts to see all doctors who use E-Health Service
<i>Test Type</i>	Positive
<i>Participating actors</i>	Unregistered User
<i>Preconditions</i>	The user is connected to E-Health Service site
<i>Input Definition</i>	The user is in the homepage: 1. User clicks on the link “Our Doctors” in the topbar
<i>Output Definition</i>	The system displays a list with all doctors’ name, surname, email
<i>Remarks</i>	

<i>Name</i>	Web App: Outside User – Our Doctors P2
<i>Description</i>	A user attempts to see detailed information about a certain doctor.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Unregistered User
<i>Preconditions</i>	The user is connected to E-Health Service site
<i>Input Definition</i>	The user is in the homepage: 1. User clicks on the link “Our Doctors” in the topbar 2. System displays doctors list 3. User chooses the doctor and clicks on “View Public Information”
<i>Output Definition</i>	The system displays doctor’s name, surname, email, public information.
<i>Remarks</i>	

<i>Name</i>	Web App: Outside User – Our Doctors P3
<i>Description</i>	A user attempts to download detailed information about a certain doctor as PDF document.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Unregistered User
<i>Preconditions</i>	The user is connected to E-Health Service site
<i>Input Definition</i>	The user is in the homepage: 1. User clicks on the link “Our Doctors” in the topbar 2. System displays doctors list 3. User chooses the doctor and clicks on “View Public Information” 4. User sees doctor’s information and clicks the “Download PDF” button.
<i>Output Definition</i>	The system downloads a PDF file with doctor’s name, surname email and public information, on user computer.
<i>Remarks</i>	If public information text is short there are problems in pdf generation!

10.1.1.1.2 About

<i>Name</i>	Web App: Outside User – About P1
<i>Description</i>	A user attempts to see the about page.
<i>Test Type</i>	Positive

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<i>Participating actors</i>	Unregistered User
<i>Preconditions</i>	The user is connected to E-Health Service site
<i>Input Definition</i>	The user is in the homepage: 1. User clicks on the link "About" in the topbar
<i>Output Definition</i>	The system displays the about page with a short description about what E-Health Service is and a video about E-Health in general.
<i>Remarks</i>	

<i>Name</i>	Web App: Outside User – About P2
<i>Description</i>	A user attempts to see the video on about page.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Unregistered User
<i>Preconditions</i>	The user is connected to E-Health Service site
<i>Input Definition</i>	The user is in the homepage: 1. User clicks on the link "About" in the topbar 2. System displays a description and a video player 3. User clicks on play button on video player
<i>Output Definition</i>	The video is displayed.
<i>Remarks</i>	

10.1.1.1.3 Contacts

<i>Name</i>	Web App: Outside User – Contacts P1
<i>Description</i>	A user attempts to see contacts page.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Unregistered User
<i>Preconditions</i>	The user is connected to E-Health Service site
<i>Input Definition</i>	The user is in the homepage: 1. User clicks on the link "Contacts" in the topbar
<i>Output Definition</i>	The system displays a page with E-Health team members' email.
<i>Remarks</i>	

10.1.1.2 Authentication

10.1.1.2.1 Login

<i>Name</i>	Web App: Login P1
<i>Description</i>	A user attempts to login to the system
<i>Test Type</i>	Positive
<i>Participating actors</i>	Registered User
<i>Preconditions</i>	The user has to be already registered in the system; he has received a confirmation email.
<i>Input Definition</i>	The user is in the home, contacts, our doctors or about page and fills the login form: 2. User inserts his correct username 3. User inserts his correct password 4. User clicks the login button
<i>Output Definition</i>	The user is logged in the system and he is correctly recognized as doctor, patient, first aid or administrator.
<i>Remarks</i>	

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Name	Web App: Login N1
Description	A user attempts to login to the system
Test Type	Negative
Participating actors	Unregistered User
Preconditions	The user is not registered and he is visiting E-health site.
Input Definition	The user is in the home, contacts, our doctors or about page and fills the login form: <ol style="list-style-type: none"> 1. User inserts a username 2. User inserts a password 3. User clicks the login button
Output Definition	The user is not logged in the system and an error message is displayed.
Remarks	

Name	Web App: Login N2
Description	A user attempts to login to the system
Test Type	Negative
Participating actors	Registered User
Preconditions	The user has to be already registered in the system; he has received a confirmation email.
Input Definition	The user is in the home, contacts, our doctors or about page and fills the login form: <ol style="list-style-type: none"> 1. User inserts a correct username 2. User inserts an incorrect password 3. User clicks the login button
Output Definition	The user is not logged in the system and an error message is displayed.
Remarks	

Name	Web App: Login N3
Description	A user attempts to login to the system
Test Type	Negative
Participating actors	Registered User
Preconditions	The user has to be already registered in the system; he has received a confirmation email.
Input Definition	The user is in the home, contacts, our doctors or about page and fills the login form: <ol style="list-style-type: none"> 1. User inserts an incorrect username 2. User inserts a correct password 3. User click the login button
Output Definition	The user is not logged in the system and an error message is displayed.
Remarks	

10.1.1.2.2 Logout

Name	Web App: Logout P1
Description	A user attempts to logout from the system
Test Type	Positive
Participating actors	Administrator
Preconditions	The user has to be logged into the system.
Input Definition	The administrator is in his personal area:

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	1. Administrator clicks the logout button in the top bar.
<i>Output Definition</i>	The user is logged out from the system.
<i>Remarks</i>	

<i>Name</i>	Web App: Logout P2
<i>Description</i>	A user attempts to logout from the system
<i>Test Type</i>	Positive
<i>Participating actors</i>	Patient
<i>Preconditions</i>	The user has to be login to the system.
<i>Input Definition</i>	The patient is in his personal area: 1. Patient clicks the logout button in the top bar.
<i>Output Definition</i>	The user is logged out from the system.
<i>Remarks</i>	

<i>Name</i>	Web App: Logout P3
<i>Description</i>	A user attempts to logout from the system
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user has to be logged into the system.
<i>Input Definition</i>	The doctor is in his personal area: 1. Doctor clicks the logout button in the top bar.
<i>Output Definition</i>	The user is logged out from the system.
<i>Remarks</i>	

<i>Name</i>	Web App: Logout P4
<i>Description</i>	A user attempts to logout from the system
<i>Test Type</i>	Positive
<i>Participating actors</i>	First Aid
<i>Preconditions</i>	The user has to be logged into the system.
<i>Input Definition</i>	The first aid is in his personal area: 1. First Aid clicks the logout button in the top bar.
<i>Output Definition</i>	The user is logged out from the system.
<i>Remarks</i>	

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10.1.1.3 Administrator

10.1.1.3.1 Add doctor

Name	Web App: Administrator – Add Doctor P1
Description	The administrator adds a new doctor to the system
Test Type	Positive
Participating actors	Administrator
Preconditions	The administrator has to be logged on to the system and positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click the add button 2. Enter the following fields: <ul style="list-style-type: none"> •Name •Surname •E-mail •Password •Confirm password •Phone number •Public information 3. Click Confirm 4. The administrator is redirected to the list of registered doctors.
Output Definition	The doctor gets added to the registered doctors list
Remarks	

Name	Web App: Administrator – Add Doctor N1
Description	The administrator tries to add a new doctor to the system, but forgets to fill all of the mandatory fields.
Test Type	Negative
Participating actors	Administrator
Preconditions	The administrator has to be logged on to the system and positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click the add button 2. Do not enter all of the following fields (leave at least one out): <ul style="list-style-type: none"> •Name •Surname •E-mail •Password •Confirm password •Phone number •Public information 3. Click Confirm
Output Definition	The system displays an error message
Remarks	

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10.1.1.3.2 Delete Doctor

Name	Web App: Administrator – Delete Doctor P1
Description	The administrator adds a new doctor to the system
Test Type	Positive
Participating actors	Administrator
Preconditions	The administrator has to be logged on to the system and positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click the Delete button near the desired doctor. 2. Click Confirm.
Output Definition	The doctor gets removed from the list. All of his patients also get removed.
Remarks	

10.1.1.3.3 Change First Aid Password

Name	Web App: Administrator – Change First Aid Password P1
Description	The administrator changes the login password for the first aid user.
Test Type	Positive
Participating actors	Administrator
Preconditions	The administrator has to be logged on to the system and positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click on Change First Aid Password. 2. Input the new password at “New Password”. 3. Repeat new password entry at “Confirm New Password”. 4. Click “Save Changes”.
Output Definition	
Remarks	

Name	Web App: Administrator – Change First Aid Password N1
Description	The administrator wants to change the login password for the first aid user, but the new password and the confirmation are different.
Test Type	Negative
Participating actors	Administrator
Preconditions	The administrator has to be logged on to the system and positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click on Change First Aid Password. 2. Input the new password at “New Password”. 3. Input something at “Confirm New Password” which does not equal what was written at “New Password”. 4. Click “Save Changes”.
Output Definition	The system outputs an error message.
Remarks	

10.1.1.3.4 Change Password

Name	Web App: Administrator – Change Password P1
Description	The administrator wants to change his login password.
Test Type	Positive

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Participating actors	Administrator
Preconditions	The administrator has to be logged on to the system and positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click on Change Password. 2. Input the old password at "Current Password". 3. Input the new password at "New Password". 4. Repeat new password entry at "Confirm New Password". 5. Click "Save Changes".
Output Definition	
Remarks	

Name	Web App: Administrator – Change Password N1
Description	The administrator wants to change his login password, but enters the old password wrong.
Test Type	Negative
Participating actors	Administrator
Preconditions	The administrator has to be logged on to the system and positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click on Change Password. 2. Input something at "Current Password" which does not equal the current password. 3. Input the new password at "New Password". 4. Repeat new password entry at "Confirm New Password". 5. Click "Save Changes".
Output Definition	The system outputs an error message.
Remarks	

Name	Web App: Administrator – Change Password N2
Description	The administrator wants to change his login password, but the new password and the confirmation are different.
Test Type	Negative
Participating actors	Administrator
Preconditions	The administrator has to be logged on to the system and positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click on Change First Aid Password. 2. Input the old password at "Current Password". 3. Input the new password at "New Password". 4. Input something at "Confirm New Password" which does not equal what was written at "New Password". 5. Click "Save Changes".
Output Definition	The system outputs an error message.
Remarks	

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10.1.1.4 First Aid

10.1.1.4.1 Delete Received Alarm

Name	Web App: First Aid – Delete Received Alarm P1
Description	The first aid deletes a received alarm.
Test Type	Positive
Participating actors	First aid
Preconditions	The first aid user is logged on to the system and is positioned at his main screen.
Input Definition	1. Click “Delete” near the desired alarm to delete.
Output Definition	
Remarks	

Name	Web App: First Aid – Delete Received Alarm P2
Description	The first aid deletes a received alarm after viewing the alarm’s details.
Test Type	Positive
Participating actors	First aid
Preconditions	The first aid user is logged on to the system and is positioned at his main screen.
Input Definition	1. Click “View Details” near the desired alarm. 2. Click “Delete”.
Output Definition	
Remarks	

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10.1.1.5 Patient

10.1.1.5.1 Update Current Location

Name	Web App: Patient – Update Current Location P1
Description	The user wants to update his current location.
Test Type	Positive
Participating actors	Patient
Preconditions	The patient is logged on to the system and is positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Input a new location under “Current Location Update”. 2. Click Save.
Output Definition	The current location gets updated
Remarks	

Name	Web App: Patient – Update Current Location N1
Description	The user accidentally requests location update, but has forgotten to input his address.
Test Type	Negative
Participating actors	Patient
Preconditions	The patient is logged on to the system and is positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click Save under “Current Location Update”.
Output Definition	The system outputs an error message.
Remarks	

10.1.1.5.2 Input Vital Parameter Measurement

Name	Web App: Patient – Input Vital Parameter Measurement P1
Description	The patient updates his vital parameters.
Test Type	Positive
Participating actors	Patient
Preconditions	The patient is logged on to the system and is positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Input the desired vital parameters’ values. 2. Click Confirm.
Output Definition	
Remarks	

Name	Web App: Patient – Input Vital Parameter Measurement N1
Description	The patient wants to update his vital parameters, but forgets to input mandatory parameters’ values.
Test Type	Negative
Participating actors	Patient
Preconditions	The user is logged on to the system and is positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Input the desired vital parameters’ values, but do not input a mandatory vital parameter (marked with “*”). 2. Click Confirm.
Output Definition	The system outputs an error message.
Remarks	

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10.1.1.5.3 Change Password

Name	Web App: Patient – Change Password P1
Description	The patient changes his login password.
Test Type	Positive
Participating actors	Patient
Preconditions	The patient is logged on to the system and is positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click “Change Password”. 2. Input the current password at “Current Password”. 3. Input the desired new password at “New password”. 4. Repeat the desired new password at “Confirm New Password”. 5. Click “Save Changes”.
Output Definition	The patient gets returned to the main screen.
Remarks	

Name	Web App: Patient – Change Password N1
Description	The patient changes his login password, but enters the old password wrong.
Test Type	Negative
Participating actors	Patient
Preconditions	The patient is logged on to the system and is positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click “Change Password”. 2. Input something at “Current Password” which does not equal the current password. 3. Input the new password at “New Password”. 4. Repeat new password entry at “Confirm New Password”. 5. Click “Save Changes”.
Output Definition	The system displays an error message.
Remarks	

Name	Web App: Patient – Change Password N2
Description	The patient changes his login password, but the new password and password confirmation are not equal.
Test Type	Negative
Participating actors	Patient
Preconditions	The patient is logged on to the system and is positioned at his main screen.
Input Definition	<ol style="list-style-type: none"> 1. Click “Change Password”. 2. Input the current password at “Current Password”. 3. Input the desired new password at “New password”. 4. Input something at “Confirm New Password” which does not equal “New password”. 5. Click “Save Changes”.
Output Definition	The system displays an error message.
Remarks	

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10.1.1.6 Doctor

10.1.1.6.1 Add Medical Note

Name	Web App: Doctor – Add Medical Note P1
<i>Description</i>	A user attempts to insert a new medical note.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	The doctor in his personal homepage sees all his patients. <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link “View Details” 3. The doctor sees all details related with that patient. 4. The doctor clicks the button “Add”, near the title MEDICAL NOTES. 5. The doctor inserts a text as Medical Note description. 6. The doctor selects a file to upload as Medical Note attachment. 7. The doctor clicks the confirm button.
<i>Output Definition</i>	The new medical note is added and the details page of patient is displayed. In the same page is displayed also the new medical note.
<i>Remarks</i>	

Name	Web App: Doctor – Add Medical Note P2
<i>Description</i>	A user attempts to insert a new medical note.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	The doctor in his personal homepage sees all his patients. <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link “View Details” 3. The doctor sees all details related with that patient. 4. The doctor clicks the button “Add”, near the title MEDICAL NOTES. 5. The doctor inserts a text as Medical Note description. 6. The doctor doesn’t select a file to upload as Medical Note attachment. 7. The doctor clicks the confirm button.
<i>Output Definition</i>	The new medical note is added and the details page of patient is displayed. In the same page is displayed also the new medical note.
<i>Remarks</i>	

Name	Web App: Doctor – Add Medical Note P3
<i>Description</i>	A user attempts to insert a new medical note, then he decides to leave the add note page.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	The doctor in his personal homepage sees all his patients. <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link “View Details” 3. The doctor sees all details related with that patient. 4. The doctor clicks the button “Add”, near the title MEDICAL NOTES.

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	<ol style="list-style-type: none"> 5. The doctor inserts a text as Medical Note description. 6. The doctor doesn't select a file to upload as Medical Note attachment. 7. The doctor clicks the cancel button.
<i>Output Definition</i>	The medical note is not added. The patient's details page is displayed.
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Add Medical Note N1
<i>Description</i>	A user attempts to insert a new medical note.
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	<p>The doctor in his personal homepage sees all his patients.</p> <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link "View Details" 3. The doctor sees all details related with that patient. 4. The doctor clicks the button "Add", near the title MEDICAL NOTES. 5. The doctor doesn't insert a text as Medical Note description. 6. The doctor doesn't select a file to upload as Medical Note attachment. 7. The doctor clicks the confirm button.
<i>Output Definition</i>	The new medical note is not added and an error message is displayed.
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Add Medical Note N2
<i>Description</i>	A user attempts to insert a new medical note.
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	<p>The doctor in his personal homepage sees all his patients.</p> <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link "View Details" 3. The doctor sees all details related with that patient. 4. The doctor clicks the button "Add", near the title MEDICAL NOTES. 5. The doctor doesn't insert a text as Medical Note description. 6. The doctor selects a file to upload as Medical Note attachment. 7. The doctor clicks the confirm button.
<i>Output Definition</i>	The new medical note is not added and an error message is displayed.
<i>Remarks</i>	

10.1.1.6.2 Delete Medical Note

<i>Name</i>	Web App: Doctor – Delete Medical Note P1
<i>Description</i>	A user attempts to delete an existing medical note.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	<p>The doctor in his personal homepage sees all his patients.</p> <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link "View Details"

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	<ol style="list-style-type: none"> 3. The doctor sees all details related with that patient. 4. The doctor clicks the button “Delete”, near the medical note that he wants delete (this medical note has only text).
<i>Output Definition</i>	The medical note is deleted and the patient’s details page is displayed without the medical note deleted.
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Delete Medical Note P2
<i>Description</i>	A user attempts to delete an existing medical note.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	<p>The doctor in his personal homepage sees all his patients.</p> <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link “View Details” 3. The doctor sees all details related with that patient. 4. The doctor clicks the button “Delete”, near the medical note that he wants delete (this medical note has both text and attachment file).
<i>Output Definition</i>	The medical note is deleted and the patient’s details page is displayed without the medical note deleted.
<i>Remarks</i>	

10.1.1.6.3 Edit Medical Note

<i>Name</i>	Web App: Doctor – Edit Medical Note P1
<i>Description</i>	A user attempts to edit an existing medical note.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	<p>The doctor in his personal homepage sees all his patients.</p> <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link “View Details” 3. The doctor sees all details related with that patient. 4. The doctor clicks the button “Edit”, near the medical note that he wants edit (this medical note has only text). 5. The doctor changes medical note text. 6. The doctor clicks confirm button.
<i>Output Definition</i>	The medical note is edited and the patient’s details page is displayed with the medical note edited.
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Edit Medical Note P2
<i>Description</i>	A user attempts to edit an existing medical note.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	<p>The doctor in his personal homepage sees all his patients.</p> <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link “View Details”

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	<ol style="list-style-type: none"> 3. The doctor sees all details related with that patient. 4. The doctor clicks the button “Edit”, near the medical note that he wants edit (this medical note has both text and attachment file). 5. The doctor changes medical note text. 6. The doctor clicks confirm button.
<i>Output Definition</i>	The medical note is edited and the patient’s details page is displayed with the medical note edited.
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Edit Medical Note P3
<i>Description</i>	A user attempts to edit an existing medical note.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	<p>The doctor in his personal homepage sees all his patients.</p> <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link “View Details” 3. The doctor sees all details related with that patient. 4. The doctor clicks the button “Edit”, near the medical note that he wants edit (this medical note has both text and attachment file). 5. The doctor changes medical note text. 6. The doctor chooses another file as attachment. 7. The doctor clicks confirm button.
<i>Output Definition</i>	The medical note is edited and the patient’s details page is displayed with the medical note edited.
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Edit Medical Note P4
<i>Description</i>	A user attempts to edit an existing medical note.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	<p>The doctor in his personal homepage sees all his patients.</p> <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link “View Details” 3. The doctor sees all details related with that patient. 4. The doctor clicks the button “Edit”, near the medical note that he wants edit (this medical note has only text). 5. The doctor changes medical note text. 6. The doctor chooses a file as attachment. 7. The doctor clicks confirm button.
<i>Output Definition</i>	The medical note is edited and the patient’s details page is displayed with the medical note edited.
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Edit Medical Note N1
<i>Description</i>	A user attempts to edit an existing medical note.
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor

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<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	The doctor in his personal homepage sees all his patients. <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link "View Details" 3. The doctor sees all details related with that patient. 4. The doctor clicks the button "Edit", near the medical note that he wants edit (this medical note has only text). 5. The doctor deletes medical note text. 6. The doctor chooses or not a file as attachment. 7. The doctor clicks confirm button.
<i>Output Definition</i>	An error message is displayed because medical note text is mandatory.
<i>Remarks</i>	

10.1.1.6.4 View Medical Note

<i>Name</i>	Web App: Doctor – View Medical Note P1
<i>Description</i>	A user attempts to view an existing medical note.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	The doctor in his personal homepage sees all his patients. <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link "View Details" 3. The doctor sees all details related with that patient.
<i>Output Definition</i>	The doctor can see all medical notes under the title MEDICAL NOTES
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – View Medical Note P2
<i>Description</i>	A user attempts to view an existing medical note attachment.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	The doctor in his personal homepage sees all his patients. <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link "View Details" 3. The doctor sees all details related with that patient. 4. The doctor chooses the attachment that he wants see. 5. The doctor clicks the link "View" under the column "Files"
<i>Output Definition</i>	The file is downloaded on doctor computer.
<i>Remarks</i>	

10.1.1.6.5 Send Alarm

<i>Name</i>	Web App: Doctor – Send Alarm P1
<i>Description</i>	A user attempts to send an alarm to first aid.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	The doctor in his personal homepage sees all his patients. <ol style="list-style-type: none"> 5. The doctor selects a patient 6. The doctor clicks the link "View Details"

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	<ol style="list-style-type: none"> 7. The doctor sees all details related with that patient. 8. The doctor clicks the button "Vital Parameters". 9. The doctor sees all vital parameters measurements and vital parameters ranges. 10. The doctor clicks the button "Send Alarm" 11. The doctor inserts a diagnosis. 12. The doctor chooses an alarm level. 13. The doctor clicks the confirm button.
<i>Output Definition</i>	The alarm is sent to first aid and the details page of patient is displayed.
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Send Alarm P2
<i>Description</i>	A user attempts to send an alarm to first aid, then he decides to leave the alarm page.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	<p>The doctor in his personal homepage sees all his patients.</p> <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link "View Details" 3. The doctor sees all details related with that patient. 4. The doctor clicks the button "Vital Parameters". 5. The doctor sees all vital parameters measurements and vital parameters ranges. 6. The doctor clicks the button "Send Alarm" 7. The doctor inserts a diagnosis. 8. The doctor chooses an alarm level. 9. The doctor clicks the cancel button.
<i>Output Definition</i>	The alarm is not sent to first aid and the page with all patient's vital parameters measurement is displayed.
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Send Alarm P3
<i>Description</i>	A user attempts to send an alarm to first aid.
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The user is logged in the system.
<i>Input Definition</i>	<p>The doctor in his personal homepage sees all his patients.</p> <ol style="list-style-type: none"> 1. The doctor selects a patient 2. The doctor clicks the link "View Details" 3. The doctor sees all details related with that patient. 4. The doctor clicks the button "Vital Parameters". 5. The doctor sees all vital parameters measurements and vital parameters ranges. 6. The doctor clicks the button "Send Alarm" 7. The doctor doesn't insert a diagnosis. 8. The doctor chooses an alarm level or he doesn't select anything (ALL level is selected by default). 9. The doctor clicks the confirm button.
<i>Output Definition</i>	The alarm is sent to first aid and the details page of patient is displayed.

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Remarks	
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10.1.1.6.6 Add Patient

Name	Web App: Doctor – Add Patient P1
Description	A doctor attempts to register a new patient to the system
Test Type	Positive
Participating actors	Doctor
Preconditions	The doctor has to be already logged in to the system
Input Definition	The doctor is in his index page: 14. Doctor clicks on the register/add button. 15. A Registration page with the required fields is displayed. 16. <i>Doctor fills every field in the form properly.</i> 17. Doctor clicks on the confirm button. 18. Doctor is redirected to the index page.
Output Definition	The patient record is properly inserted into the database and an email is sent to the patient
Remarks	

Name	Web App: Doctor – Add Patient N1
Description	A doctor attempts to register a new patient to the system
Test Type	Negative
Participating actors	Doctor
Preconditions	The doctor has to be already logged in to the system
Input Definition	The doctor is in his index page: 1. Doctor clicks on the register/add button. 2. A Registration page with the required fields is displayed. 3. <i>Doctor leaves empty some field in the form.</i> 4. Doctor clicks on the confirm button.
Output Definition	The patient record is not inserted into the database and an error message is displayed
Remarks	

Name	Web App: Doctor – Add Patient N2
Description	A doctor attempts to register a new patient to the system
Test Type	Negative
Participating actors	Doctor
Preconditions	The doctor has to be already logged in to the system
Input Definition	The doctor is in his index page: 1. Doctor clicks on the register/add button. 2. A Registration page with the required fields is displayed. 3. <i>Doctor fills every field in the form, but digits a non-existent email (and never registered before). (e.g. address@gmai.lcom).</i> 4. Doctor clicks on the confirm button.
Output Definition	The patient record is inserted into the database and an error message is displayed
Remarks	

Name	Web App: Doctor – Add Patient N3
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<i>Description</i>	A doctor attempts to register a new patient to the system
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The doctor has to be already logged in to the system
<i>Input Definition</i>	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor clicks on the register/add button. 2. A Registration page with the required fields is displayed. 3. <i>Doctor fills every field in the form, but digits an email already registered into the database.</i> 4. Doctor clicks on the confirm button.
<i>Output Definition</i>	The patient record is not inserted into the database and an error message is displayed
<i>Remarks</i>	

10.1.1.6.7 Edit Patient Personal Information

<i>Name</i>	Web App: Doctor – Edit Patient Personal Information P1
<i>Description</i>	A doctor attempts to edit personal information of one of his patients
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The doctor has to be already logged in to the system
<i>Input Definition</i>	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor chooses the patient from the table. 2. A page with patient details is displayed. 3. Doctor clicks on the edit button in patient personal information table. 4. An editing page with the required fields is displayed. 5. <i>Doctor fills every field in the form properly.</i> 6. Doctor clicks on the save changes button. 7. Doctor is redirected to the patient details page.
<i>Output Definition</i>	The patient record is properly updated into the database
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Edit Patient Personal Information N1
<i>Description</i>	A doctor attempts to edit personal information of one of his patients
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The doctor has to be already logged in to the system
<i>Input Definition</i>	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor chooses the patient from the table. 2. A page with patient details is displayed. 3. Doctor clicks on the edit button in patient personal information table. 4. An editing page with the required fields is displayed. 5. <i>Doctor leaves empty some field in the form.</i> 6. Doctor clicks on the save changes button.
<i>Output Definition</i>	The patient record is not updated into the database and an error message is displayed
<i>Remarks</i>	

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Name	Web App: Doctor – Edit Patient Personal Information N2
Description	A doctor attempts to edit personal information of one of his patients
Test Type	Negative
Participating actors	Doctor
Preconditions	The doctor has to be already logged in to the system
Input Definition	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor chooses the patient from the table. 2. A page with patient details is displayed. 3. Doctor clicks on the edit button in patient personal information table. 4. An editing page with the required fields is displayed. 5. <i>Doctor fills every field in the form, but digits an email different from the current one and already registered into the database.</i> 6. Doctor clicks on the save changes button.
Output Definition	The patient record is not updated into the database and an error message is displayed
Remarks	

10.1.1.6.8 Delete Patient

Name	Web App: Doctor – Delete Patient P1
Description	A doctor attempts to edit personal information of one of his patients
Test Type	Positive
Participating actors	Doctor
Preconditions	The doctor has to be already logged in to the system
Input Definition	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor chooses the patient from the table. 2. A page with patient details is displayed. 3. Doctor clicks on the delete patient button. 4. An alert box requires confirmation 5. Doctor clicks on the confirm button 6. Doctor is redirected to his index page.
Output Definition	The patient record is properly removed from the database
Remarks	

10.1.1.6.9 Edit Personal Information

Name	Web App: Doctor – Edit Personal Information P1
Description	A doctor attempts to edit his personal information
Test Type	Positive
Participating actors	Doctor
Preconditions	The doctor has to be already logged in to the system
Input Definition	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor clicks on the edit profile button on the sidebar. 2. An editing page with the required fields is displayed. 3. <i>Doctor fills every field in the form properly.</i> 4. Doctor clicks on the save changes button. 5. Doctor is redirected to his index page.
Output Definition	The doctor record is properly updated into the database
Remarks	

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Name	Web App: Doctor – Edit Personal Information N1
Description	A doctor attempts to edit his personal information
Test Type	Negative
Participating actors	Doctor
Preconditions	The doctor has to be already logged in to the system
Input Definition	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor clicks on the edit profile button on the sidebar. 2. An editing page with the required fields is displayed. 3. <i>Doctor leaves empty some field in the form.</i> 4. Doctor clicks on the save changes button.
Output Definition	The doctor record is not updated into the database and an error message is displayed
Remarks	

Name	Web App: Doctor – Edit Personal Information N2
Description	A doctor attempts to edit his personal information
Test Type	Negative
Participating actors	Doctor
Preconditions	The doctor has to be already logged in to the system
Input Definition	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor clicks on the edit profile button on the sidebar. 2. An editing page with the required fields is displayed. 3. <i>Doctor fills every field in the form, but digits an email different from the current one and already registered into the database.</i> 4. Doctor clicks on the save changes button.
Output Definition	The doctor record is not updated into the database and an error message is displayed

10.1.1.6.10 Change Password

Name	Web App: Doctor – Change Password P1
Description	A doctor attempts to change his login password
Test Type	Positive
Participating actors	Doctor
Preconditions	The doctor has to be already logged in to the system
Input Definition	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor clicks on the edit profile button on the sidebar. 2. An editing page with the required fields is displayed. 3. Doctor clicks on the change password button 4. A new page with the required fields is displayed. 5. <i>Doctor digits current password, new password and confirm new password properly.</i> 6. Doctor clicks on the save changes button. 7. Doctor is redirected to his index page.
Output Definition	The doctor record is properly updated into the database
Remarks	

Name	Web App: Doctor – Change Password N1
Description	A doctor attempts to change his login password
Test Type	Positive

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<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The doctor has to be already logged in to the system
<i>Input Definition</i>	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor clicks on the edit profile button on the sidebar. 2. An editing page with the required fields is displayed. 3. Doctor clicks on the change password button 4. A new page with the required fields is displayed. 5. <i>Doctor leaves empty some field in the form.</i> 6. Doctor clicks on the save changes button.
<i>Output Definition</i>	The doctor record is not updated into the database and an error message is displayed
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Change Password N2
<i>Description</i>	A doctor attempts to change his login password
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The doctor has to be already logged in to the system
<i>Input Definition</i>	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor clicks on the edit profile button on the sidebar. 2. An editing page with the required fields is displayed. 3. Doctor clicks on the change password button 4. A new page with the required fields is displayed. 5. <i>Doctor digits different words for new password and confirm new password.</i> 6. Doctor clicks on the save changes button.
<i>Output Definition</i>	The doctor record is not updated into the database and an error message is displayed
<i>Remarks</i>	

<i>Name</i>	Web App: Doctor – Change Password N3
<i>Description</i>	A doctor attempts to change his login password
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	The doctor has to be already logged in to the system
<i>Input Definition</i>	The doctor is in his index page: <ol style="list-style-type: none"> 1. Doctor clicks on the edit profile button on the sidebar. 2. An editing page with the required fields is displayed. 3. Doctor clicks on the change password button 4. A new page with the required fields is displayed. 5. <i>Doctor wrongs to digit his current password.</i> 6. Doctor clicks on the save changes button.
<i>Output Definition</i>	The doctor record is not updated into the database and an error message is displayed
<i>Remarks</i>	

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10.1.2 Test Cases for Android Application

10.1.2.1 Outside User

Name	Android App: Outside User – Our doctors P1
Description	Outside user checks our doctor public information
Test Type	Positive
Participating actors	Outside user
Preconditions	Doctor exists in the system.
Input Definition	1. User starts the application and lands on login screen 2. User clicks on doctors button 3. User clicks on specific doctor
Output Definition	Doctor information is shown.
Remarks	

Name	Android App: Outside User – Our doctors P2
Description	Outside user downloads doctor public information
Test Type	Positive
Participating actors	Outside user
Preconditions	Doctor exists in the system.
Input Definition	1. User starts the application and lands on login screen 2. User clicks on doctors button 3. User clicks on specific doctor 4. User clicks on download button
Output Definition	Doctor information is downloaded.
Remarks	

10.1.2.2 Authentication

Name	Android App: Login P1
Description	User logs in
Test Type	Positive
Participating actors	Doctor or patient
Preconditions	User must already be registered in the system.
Input Definition	1. User starts the application and lands on login screen 2. User inputs username and password 3. User clicks login button
Output Definition	User has successfully logged in the system.
Remarks	

Name	Android App: Login N1
Description	User tries to login with unregistered username and password
Test Type	Negative
Participating actors	User
Preconditions	
Input Definition	1. User starts the application and lands on login screen 2. User inputs username and password 3. User clicks login button
Output Definition	Error message is shown to user with info that user does not exist
Remarks	

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<i>Name</i>	Android App: Login N2
<i>Description</i>	Unauthorized user (admin or fist aid) tries logging in the system from mobile application.
<i>Test Type</i>	Negative
<i>Participating actors</i>	First aid or administrator
<i>Preconditions</i>	
<i>Input Definition</i>	1. User starts the application and lands on login screen 2. User inputs username and password 3. User clicks login button
<i>Output Definition</i>	Error message is shown to the user with info that user cannot use the mobile application.
<i>Remarks</i>	

10.1.2.3 Patient

10.1.2.3.1 Change Password

<i>Name</i>	Android App: Patient - Change Password P1
<i>Description</i>	Patient changes his password
<i>Test Type</i>	Positive
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses change password button 2. Patient inputs new password 3. Patient confirms new password
<i>Output Definition</i>	Patient password is changed
<i>Remarks</i>	

<i>Name</i>	Android App: Patient – Change Password N1
<i>Description</i>	Patient tries changing his password with invalid empty value
<i>Test Type</i>	Negative
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses change password button 2. Patient leaves new password empty 3. Patient confirms new password
<i>Output Definition</i>	Patient is notified of empty field
<i>Remarks</i>	

10.1.2.3.2 Update Current Location

<i>Name</i>	Android App: Patient – Update Current Location P1
<i>Description</i>	Patient changes his current address
<i>Test Type</i>	Positive
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses change location button 2. Patient enters his new address 3. Patient confirms new address
<i>Output Definition</i>	Patient address is changed.

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Name	Android App: Patient – Update Current Location N1
<i>Description</i>	Patient tries to change his address to empty value
<i>Test Type</i>	Negative
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses change location button 2. Patient leaves his new address empty 3. Patient confirms new address
<i>Output Definition</i>	Patient is notified of empty field.
<i>Remarks</i>	

10.1.2.3.3 Send Alarm

Name	Android App: Patient – Send Alarm P1
<i>Description</i>	Patient sends alarm
<i>Test Type</i>	Positive
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses send alarm button. 2. Patient confirms sending alarm.
<i>Output Definition</i>	Patient alarm is sent. Alarm validation can be done by either checking alarms in the database or in web application.
<i>Remarks</i>	

Name	Android App: Patient – Send Alarm N1
<i>Description</i>	Patient tries to send alarm but GPS is not turned on.
<i>Test Type</i>	Negative
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses send alarm button. 2. Patient confirms sending alarm.
<i>Output Definition</i>	Patient is notified GPS is not activated.
<i>Remarks</i>	

Name	Android App: Patient – Send Alarm N2
<i>Description</i>	Patients tries to send alarm but GPS can't find location in 2 minutes
<i>Test Type</i>	Negative
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses send alarm button. 2. Patient confirms sending alarm.
<i>Output Definition</i>	Alarm is not sent in 2 minutes. Patient is notified GPS couldn't find location.
<i>Remarks</i>	

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10.1.2.3.4 Add Vital Parameters Measurement

<i>Name</i>	Android App: Patient – Add Vital Parameters Measurement P1
<i>Description</i>	Patients sends new measurement
<i>Test Type</i>	Positive
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses send measurement button. 2. Patient inputs all mandatory parameters. 3. Patients presses send button
<i>Output Definition</i>	Patient measurements are sent. Measurements validation can be done be either checking alarms in the database or in web application.
<i>Remarks</i>	

<i>Name</i>	Android App: Patient – Add Vital Parameters Measurement N1
<i>Description</i>	Patient tries sending new measurement without inputting all the mandatory values.
<i>Test Type</i>	Negative
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses send measurement button. 2. Patient inputs all mandatory parameters. 3. Patients presses send button
<i>Output Definition</i>	Patient is notified some mandatory fields are missing
<i>Remarks</i>	

10.1.2.4 Doctor

10.1.2.4.1 Change Password

<i>Name</i>	Android App: Doctor - Change Password P1
<i>Description</i>	Doctor changes his password
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Doctor presses change password button 2. Doctor inputs new password 3. Doctor confirms new password
<i>Output Definition</i>	Doctors password is changed
<i>Remarks</i>	

<i>Name</i>	Android App: Doctor - Change Password N1
<i>Description</i>	Doctor tries changing his password with invalid empty value
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Doctor presses change password button 2. Doctor leaves new password empty

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	3. Doctor confirms new password
<i>Output Definition</i>	Doctor is notified of empty field
<i>Remarks</i>	

10.1.2.4.2 Edit Personal Information

<i>Name</i>	Android App: Doctor – Edit Personal Information P1
<i>Description</i>	Doctor edits his information
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Doctor presses edit information button. 2. Doctor inputs all mandatory info. 3. Doctor presses send button
<i>Output Definition</i>	Doctor info is changed.
<i>Remarks</i>	

<i>Name</i>	Android App: Doctor – Edit Personal Information N1
<i>Description</i>	Doctor edits his information
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Doctor presses edit information button. 2. Doctor doesn't input all mandatory info. 3. Doctor presses send button
<i>Output Definition</i>	Doctor is notified what fields are mandatory.
<i>Remarks</i>	

10.1.2.4.3 Add Patient

<i>Name</i>	Android App: Doctor – Add Patient P1
<i>Description</i>	Doctor creates a patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor presses add patient button 3. Doctor inputs all mandatory data 4. Doctor confirms his input
<i>Output Definition</i>	Patient is added.
<i>Remarks</i>	

<i>Name</i>	Android App: Doctor – Add Patient N1
<i>Description</i>	Doctor creates a patient with already existing parameters
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor presses add patient button

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	3. Doctor inputs data with already existing email 4. Doctor confirms his input
<i>Output Definition</i>	Doctor is notified email already exists
<i>Remarks</i>	

10.1.2.4.4 View Patient Details

<i>Name</i>	Android App: Doctor - View Patient Details P1
<i>Description</i>	Doctor looks at patient details
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to see
<i>Output Definition</i>	Patient info is shown
<i>Remarks</i>	

10.1.2.4.5 Edit Patient Personal Information

<i>Name</i>	Android App: Doctor – Edit Patient Personal Information P1
<i>Description</i>	Doctor edits patient info
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor click on edit button 4. Doctor inputs all the data 5. Doctor confirms his input
<i>Output Definition</i>	Patient is edited.
<i>Remarks</i>	

<i>Name</i>	Android App: Doctor – Edit Patient Personal Information N1
<i>Description</i>	Doctor edits patient info with someone else's email address
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor click on edit button 4. Doctor inputs all the data with wrong email 5. Doctor confirms his input
<i>Output Definition</i>	Doctor is notified email is already being used.
<i>Remarks</i>	

10.1.2.4.6 View Medical Record

<i>Name</i>	Android App: Doctor – View Medical Record P1
<i>Description</i>	Doctor looks at patient's medical record

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<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to see 3. Doctor presses menu button to see medical record
<i>Output Definition</i>	Patient 's medical record is listed
<i>Remarks</i>	

10.1.2.4.7 Send Alarm

<i>Name</i>	Android App: Doctor – Send Alarm P1
<i>Description</i>	Doctor sends alarm for the patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor presses menu button to see medical record 4. Doctor presses menu button to send an alarm 5. Doctor inputs needed data
<i>Output Definition</i>	Alarm for the patient is sent.
<i>Remarks</i>	

<i>Name</i>	Android App: Doctor – Send Alarm N1
<i>Description</i>	Doctor tries sending alarm for the patient without inputting all the data
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor presses menu button to see medical record 4. Doctor presses menu button to send an alarm 5. Doctor inputs only some data.
<i>Output Definition</i>	Doctor is notified data is missing
<i>Remarks</i>	

10.1.2.4.8 Add Medical Note

<i>Name</i>	Android App: Doctor – Add Medical Note P1
<i>Description</i>	Doctor adds a note about a patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor presses menu button to see medical record

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	4. Doctor presses menu button to add a note 5. Doctor inputs needed data
<i>Output Definition</i>	Note about a patient is added
<i>Remarks</i>	

<i>Name</i>	Android App: Doctor – Add Medical Note N1
<i>Description</i>	Doctor adds a note about a patient without note text
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor presses menu button to see medical record 4. Doctor presses menu button to add a note 5. Doctor leaves empty note text
<i>Output Definition</i>	Doctor is notified about missing fields
<i>Remarks</i>	

10.1.2.4.9 Edit Medical Note

<i>Name</i>	Android App: Doctor – Edit Medical Note P1
<i>Description</i>	Doctor edits a note about a patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor presses menu button to see medical record 4. Doctor clicks on a note he wants to edit 5. Doctor enters new note text
<i>Output Definition</i>	Note about a patient is edited
<i>Remarks</i>	

10.1.2.4.10 Delete Medical Note

<i>Name</i>	Android App: Doctor – Delete Medical Note P1
<i>Description</i>	Doctor deletes a note about a patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor presses menu button to see medical record 4. Doctor selects a note he wants to delete 5. Doctor presses delete button
<i>Output Definition</i>	Note about a patient is deleted
<i>Remarks</i>	

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10.1.2.4.11 Add Vital Parameters Measurement

<i>Name</i>	Android App: Doctor – Add Vital Parameters Measurement P1
<i>Description</i>	Doctor adds a measurement for the patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor presses menu button to see medical record 4. Doctor presses menu button to add a measurement 5. Doctor inputs needed data
<i>Output Definition</i>	Measurement is added
<i>Remarks</i>	

<i>Name</i>	Android App: Doctor – Add Vital Parameters Measurement N1
<i>Description</i>	Doctor adds a measurement for the patient without all mandatory fields
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor presses menu button to see medical record 4. Doctor presses menu button to add a measurement 5. Doctor inputs only some of the needed data
<i>Output Definition</i>	Doctor is notified some data is missing
<i>Remarks</i>	

10.1.2.4.12 Delete Vital Parameters Measurement

<i>Name</i>	Android App: Doctor – Delete Vital Parameters Measurement P1
<i>Description</i>	Doctor deletes a measurement for the patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor presses menu button to see medical record 4. Doctor long presses the measurement he wants to delete 5. Doctor confirms deletion
<i>Output Definition</i>	Measurement is deleted.
<i>Remarks</i>	

10.1.2.4.13 Set Intervals

<i>Name</i>	Android App: Doctor - Set Intervals P1
<i>Description</i>	Doctor sets mandatory parameter intervals for the patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor

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<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor presses patient list button 2. Doctor clicks on a patient he wants to edit 3. Doctor presses menu button to see medical record 4. Doctor presses menu button to set intervals 5. Doctor inputs needed data
<i>Output Definition</i>	Patient intervals are changed
<i>Remarks</i>	

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10.1.3 Test Cases for Windows Phone Application

10.1.3.1 Authentication

Name	WP App: Login P1
Description	User logs in the application
Test Type	Positive
Participating actors	Doctor or patient
Preconditions	User must already be registered in the system.
Input Definition	<ol style="list-style-type: none"> 1. User starts the application and lands on main screen 2. User clicks on login button 3. User inputs username and password 4. User clicks login button
Output Definition	User has successfully logged in the system.
Remarks	

Name	WP App: Login N1
Description	User tries to login with unregistered username and password
Test Type	Negative
Participating actors	User
Preconditions	Username and password combination does not exist in the system.
Input Definition	<ol style="list-style-type: none"> 1. User starts the application and lands on main screen 2. User clicks on login button 3. User inputs username and password 4. User clicks login button
Output Definition	Error message is shown to user with info that user does not exist
Remarks	

Name	WP App: Login N2
Description	Unauthorized user (admin or fist aid) tries logging in the system from mobile application.
Test Type	Negative
Participating actors	First aid or administrator user
Preconditions	<ol style="list-style-type: none"> 1. User starts the application and lands on main screen 2. User clicks the login button 3. User inputs username and password 4. User clicks login button
Input Definition	Error message is shown to the user with info that user cannot use the mobile application.
Output Definition	
Remarks	

10.1.3.2 Outside user

Name	WP App: Outside – Our Doctors P1
Description	Outside user checks our doctor public information
Test Type	Positive
Participating actors	Outside user
Preconditions	Doctor exists in the system.
Input Definition	1. User starts the application and lands on main screen

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	2. User clicks on Our doctors button 3. User clicks on specific doctor
<i>Output Definition</i>	Doctor information is shown.
<i>Remarks</i>	

10.1.3.3 Patient

10.1.3.3.1 Change password

<i>Name</i>	WP App: Patient – Change Password P1
<i>Description</i>	Patient changes his password
<i>Test Type</i>	Positive
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses change password button 2. Patient inputs new password 3. Patient confirms new password
<i>Output Definition</i>	Patient password is changed
<i>Remarks</i>	

<i>Name</i>	WP App: Patient – Change Password N1
<i>Description</i>	Patient tries changing his password with invalid empty value
<i>Test Type</i>	Negative
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses change password button 2. Patient leaves new password empty 3. Patient confirms new password
<i>Output Definition</i>	Patient is notified of empty field
<i>Remarks</i>	

10.1.3.3.2 Send alarm

<i>Name</i>	WP App: Patient – Send Alarm P1
<i>Description</i>	Patients sends alarm
<i>Test Type</i>	Positive
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses send alarm button. 2. Message that the alarm is sent is shown
<i>Output Definition</i>	Patient alarm is sent. Alarm validation can be done be either checking alarms in the database or in web application.
<i>Remarks</i>	

<i>Name</i>	WP App: Patient – Send Alarm N1
<i>Description</i>	Patient try to send alarm but GPS is not turned on.
<i>Test Type</i>	Negative
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page

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<i>Input Definition</i>	1. Patient presses send alarm button. 2. Message that the alarm is sent is shown
<i>Output Definition</i>	Patient is notified GPS is not activated.
<i>Remarks</i>	

<i>Name</i>	WP App: Patient – Send Alarm N2
<i>Description</i>	Patient tries to send alarm but GPS can't find location in 2 minutes
<i>Test Type</i>	Negative
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses send alarm button. 2. Message that the alarm is sent is shown
<i>Output Definition</i>	Alarm is not sent in 2 minutes. Patient is notified GPS couldn't find location.
<i>Remarks</i>	

10.1.3.3.3 Add Vital Parameters Measurement

<i>Name</i>	WP App: Patient – Add Vital Parameters Measurement P1
<i>Description</i>	Patient sends new measurement
<i>Test Type</i>	Positive
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses send measurement button. 2. Patient inputs all mandatory parameters. 3. Patients presses send button
<i>Output Definition</i>	Patient measurements are sent. Measurements validation can be done be either checking alarms in the database or in web application.
<i>Remarks</i>	

<i>Name</i>	WP App: Patient – Add Vital Parameters Measurement N1
<i>Description</i>	Patient tries sending new measurement without inputting all the mandatory values.
<i>Test Type</i>	Negative
<i>Participating actors</i>	Patient
<i>Preconditions</i>	Patient successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Patient presses send measurement button. 2. Patient inputs all mandatory parameters. 3. Patients presses send button
<i>Output Definition</i>	Patient is notified some mandatory fields are missing
<i>Remarks</i>	

10.1.3.4 Doctor

10.1.3.4.1 Change password

<i>Name</i>	WP App: Doctor – Change Password P1
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<i>Description</i>	Doctor changes his password
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page
<i>Input Definition</i>	1. Doctor presses change password button 2. Doctor inputs new password 3. Doctor confirms new password
<i>Output Definition</i>	Doctors password is changed
<i>Remarks</i>	

<i>Name</i>	WP App: Doctor – Change Password N1
<i>Description</i>	Doctor tries changing his password with invalid empty value
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page
<i>Input Definition</i>	1. Doctor presses change password button 2. Doctor leaves new password empty 3. Doctor confirms new password
<i>Output Definition</i>	Doctor is notified of empty field
<i>Remarks</i>	

10.1.3.4.2 Edit Public Information

<i>Name</i>	WP App: Doctor – Edit Public Information P1
<i>Description</i>	Doctor edits his information
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page
<i>Input Definition</i>	1. Doctor presses edit information button. 2. Doctor inputs all mandatory info. 3. Doctor presses send button
<i>Output Definition</i>	Doctor info is changed.
<i>Remarks</i>	

<i>Name</i>	WP App: Doctor – Edit Public Information N1
<i>Description</i>	Doctor edits his information
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Doctor presses edit information button. 2. Doctor doesn't input all mandatory info. 3. Doctor presses send button
<i>Output Definition</i>	Doctor is notified what fields are mandatory.
<i>Remarks</i>	

10.1.3.4.3 Add Patient

<i>Name</i>	WP App: Doctor – Add Patient P1
<i>Description</i>	Doctor creates a patient

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<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Doctor presses add patient button 2. Doctor inputs all mandatory data
<i>Output Definition</i>	Patient is added.
<i>Remarks</i>	

<i>Name</i>	WP App: Doctor – Add Patient N1
<i>Description</i>	Doctor creates a patient with already existing parameters
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on patient start page
<i>Input Definition</i>	1. Doctor presses add patient button 2. Doctor inputs data with already existing email 3. Doctor confirms his input
<i>Output Definition</i>	Doctor is notified email already exists
<i>Remarks</i>	

10.1.3.4.4 View Patient Details

<i>Name</i>	WP App: Doctor – View Patient Details P1
<i>Description</i>	Doctor looks at patient details
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor clicks on a patient he wants to see
<i>Output Definition</i>	Patient info is shown
<i>Remarks</i>	

10.1.3.4.5 Edit Patient Personal Information

<i>Name</i>	WP App: Doctor – Edit Patient Personal Information P1
<i>Description</i>	Doctor edits patient info
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor clicks on a patient he wants to edit 2. Doctor click on edit button 3. Doctor inputs all the data 4. Doctor confirms his input
<i>Output Definition</i>	Patient is edited.
<i>Remarks</i>	

<i>Name</i>	WP App: Doctor – Edit Patient Personal Information N1
<i>Description</i>	Doctor edits patient info with someone else's email address
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page,

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	patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor clicks on a patient he wants to edit 2. Doctor click on edit button 3. Doctor inputs all the data 4. Doctor confirms his input
<i>Output Definition</i>	Doctor is notified email is already being used.
<i>Remarks</i>	

10.1.3.4.6 View Medical Record

<i>Name</i>	WP App: Doctor – View Medical Record P1
<i>Description</i>	Doctor looks at patient's medical record
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor clicks on a patient he wants to see 2. Doctor presses menu button to see medical record
<i>Output Definition</i>	Patient 's medical record is listed
<i>Remarks</i>	

10.1.3.4.7 Send Alarm

<i>Name</i>	WP App: Doctor – Send Alarm P1
<i>Description</i>	Doctor sends alarm for the patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor clicks on a patient he wants to edit 2. Doctor presses menu button to see medical record 3. Doctor presses menu button to send an alarm 4. Doctor inputs needed data
<i>Output Definition</i>	Alarm for the patient is sent.
<i>Remarks</i>	

<i>Name</i>	WP App: Doctor – Send Alarm N1
<i>Description</i>	Doctor tries sending alarm for the patient without inputting all the data
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor clicks on a patient he wants to edit 2. Doctor presses menu button to see medical record 3. Doctor presses menu button to send an alarm 4. Doctor inputs needed data
<i>Output Definition</i>	Doctor is notified data is missing
<i>Remarks</i>	

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10.1.3.4.8 Add Medical Note

<i>Name</i>	WP App: Doctor - Add Medical Note P1
<i>Description</i>	Doctor adds a note about a patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor clicks on a patient he wants to edit 2. Doctor presses menu button to see medical record 3. Doctor presses menu button to add a note 4. Doctor inputs needed data
<i>Output Definition</i>	Note about a patient is added
<i>Remarks</i>	

<i>Name</i>	WP App: Doctor - Add Medical Note N1
<i>Description</i>	Doctor adds a note about a patient without note text
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor clicks on a patient he wants to edit 2. Doctor presses menu button to see medical record 3. Doctor presses menu button to add a note 4. Doctor leaves empty note text
<i>Output Definition</i>	Doctor is notified about missing fields
<i>Remarks</i>	

10.1.3.4.9 Edit Medical Note

<i>Name</i>	WP App: Doctor - Edit Medical Note P1
<i>Description</i>	Doctor edits a note about a patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor clicks on a patient he wants to edit 2. Doctor presses menu button to see medical record 3. Doctor clicks on a note he wants to edit 4. Doctor enters new note text
<i>Output Definition</i>	Note about a patient is edited
<i>Remarks</i>	

10.1.3.4.10 Add Vital Parameters Measurement

<i>Name</i>	WP App: Doctor – Add Vital Parameters Measurement P1
<i>Description</i>	Doctor adds a measurement for the patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	1. Doctor clicks on a patient he wants to edit

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	<ol style="list-style-type: none"> 2. Doctor presses menu button to see medical record 3. Doctor presses menu button to add a measurement 4. Doctor inputs needed data
<i>Output Definition</i>	Measurement is added
<i>Remarks</i>	

<i>Name</i>	WP App: Doctor add measurement N1
<i>Description</i>	Doctor adds a measurement for the patient without all mandatory fields
<i>Test Type</i>	Negative
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor clicks on a patient he wants to edit 2. Doctor presses menu button to see medical record 3. Doctor presses menu button to add a measurement 4. Doctor inputs only some of the needed data
<i>Output Definition</i>	Doctor is notified some data is missing
<i>Remarks</i>	

10.1.3.4.11 Delete Vital Parameters Measurement

<i>Name</i>	WP App: Doctor – Delete Vital Parameters Measurement P1
<i>Description</i>	Doctor deletes a measurement for the patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor clicks on a patient he wants to edit 2. Doctor presses menu button to see medical record 3. Doctor long presses the measurement he wants to delete 4. Doctor confirms deletion
<i>Output Definition</i>	Measurement is deleted.
<i>Remarks</i>	

10.1.3.4.12 Set Intervals

<i>Name</i>	WP App: Doctor - Set Intervals P1
<i>Description</i>	Doctor sets mandatory parameter intervals for the patient
<i>Test Type</i>	Positive
<i>Participating actors</i>	Doctor
<i>Preconditions</i>	Doctor successfully logged in the system and landed on doctor start page, patient already exists in the system.
<i>Input Definition</i>	<ol style="list-style-type: none"> 1. Doctor clicks on a patient he wants to edit 2. Doctor presses menu button to see medical record 3. Doctor presses menu button to set intervals 4. Doctor inputs needed data
<i>Output Definition</i>	Patient intervals are changed
<i>Remarks</i>	

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10.2 Test plan

Running the test cases has been split among the testing team. After running the tests, a report will be generated and found bugs will be solved by the team members responsible for creating that part of the system. The goal for running the tests is to deliver a fully functional product, which fulfills all of the customer's requirements.

10.2.1 Unit Testing

Unit tests are written to assure the working of the data/ model layer. The unit tests are located in the following projects: *UnitTests* and *DatabaseRepositoriesTests*.

10.2.2 Manual Testing

Test cases that were not implemented through the automated framework are tested manually (see the above test cases).

11. Responsibilities

11.1 Developers

The entire team is expected to fix all of the discovered bugs during testing and development phases of the project. The project manager can decide to skip bug fixing if it is interfering with the project planning.

11.2 Customer/Supervisor

The team is constantly in contact with its supervisor, Raffaella Mirandola, from whom it receives feedback and makes required changes. Since the beta version has been submitted, the supervisor can test the application and report bugs to the project team.

12. Risks and contingencies

The major risk is to test all of the implemented functionalities at a good time margin, so that the developers have enough time to fix the bugs and errors on time. In our the whole team is continuously testing and updating new implemented requirements. In case of any bug or error, it is reported directly to the member which is responsible for that part of the system to fix it immediately: this is a continuous process which takes place during the development.

13. Approvals

Name	Title	Date yyyy-mm-dd	Signature