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# Visual Portfolio Analysis tool for Kommuninvest Summary Week Report

2017-12-03

Version 1.0

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## Revision History

Date	Version	Description	Author
2017-12-03	1.0	Summary Week Report	Valentina Menabue

### 1. Introduction

#### 1.1 Purpose of this document

The purpose of this document is to report the activities that happened within the past week, with the intent of understanding project progress.

#### 1.2 Document organization

The document is organized as follows:

- Section 2 – Total Team Effort – Work Hours, Activities and tasks done by the team members.
- Section 3 – Aggregated Team Data – Sum of all the Work Hours, Activities and Tasks performed by the team members
- Section 4 – Main team accomplishments and challenges they faced during the week.

#### 1.3 Intended Audience

The Intended Audience for this report are the supervisors of the course and the project team. If necessary it can also be shared with the customer.

#### 1.4 Scope

This document addresses working hours and efforts spent by the team members during this week, (2017-11-28 to 2017-12-05 included)

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## 2. Total Team Effort

Team Members	Work Hours	Activities / Tasks done
Valentina Menabue	12	<ul style="list-style-type: none"> <li>- Fix some problems on local environment</li> <li>- Prepared slides for presentation</li> <li>- Skype meeting to check the presentation and refine the last details</li> <li>- Creation of Minutes of Meetings document</li> <li>- Creation of Summery Week Report</li> </ul>
Stefano Cilloni	12	<ul style="list-style-type: none"> <li>- Organizations migration script working.</li> <li>- Created relation between User and Organization entities.</li> <li>- Extended xlsx-data-ingestor module that handle the customer xlsx file's data import.</li> <li>- Managed import from customer's Excel file of MunicipalityTypes and Organizations.</li> <li>- Restructured Organization management: now split into two separated entities (Company and Municipality)</li> <li>- Enforced referential integrity constraints between database entities: Organization, Company, Municipality, CompanyType, MunicipalityType.</li> <li>- Improved companies import: now with CompanyType and Organization relationships.</li> <li>- Helped a team member to fix Docker local environment</li> </ul>
Luca Franceschetti	10	<ul style="list-style-type: none"> <li>- Prepared the slide for the presentation</li> <li>- Prepared the presentation speech</li> <li>- Skype meeting in order to check the presentation and refine the last details</li> <li>- Presentation of alpha prototype on dsd class</li> <li>- Sprint backlog spreadsheet for beta sprint</li> <li>- Trello management</li> </ul>
Eldar Alasgarov	15	<ul style="list-style-type: none"> <li>- Prepared demo for the presentation</li> <li>- Finished the login / logout changes</li> <li>- Brought data from the backend to display graphs</li> <li>- Brought data from the backend to display municipalities</li> <li>- Dependent multiselect dropdowns</li> </ul>
Rodrigo Coelho	18	<ul style="list-style-type: none"> <li>- Finished installing and debugging docker issues.</li> <li>- Development of the User Acceptance Test Document</li> <li>- First system tests</li> </ul>
Hamza Sabljakovic	14	<ul style="list-style-type: none"> <li>- Definition and implementation of API endpoints needed for Alpha prototype such as organisation and querying. For now data provided by APIs is fake and will be replaced with the actual data once database is ready.</li> </ul>

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		<ul style="list-style-type: none"> <li>- JWT middleware integration with db to check if user is still active and what role he/she has.</li> </ul>
Aliya Hussain	11	<ul style="list-style-type: none"> <li>- Download chart data in xlsx file format</li> <li>- Worked on Companies UI</li> <li>- Fixed User Management UI</li> </ul>
Tim Liberg	10	<ul style="list-style-type: none"> <li>- Connected user management API to database</li> <li>- Helped Stefano translate data from Swedish and decide the schema for the organization database table</li> <li>- Updated swagger definitions to reflect current API functionality</li> </ul>

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### 3. Aggregated Data

Team Members	Work Hours	Activities / Tasks done
Valentina Menabue	97	<ol style="list-style-type: none"> <li>1. Prepare a section of the presentation</li> <li>2. Discussed about architecture and technology to be used</li> <li>3. Requirements &amp; Design presentation Conceived and designed Use Case Diagram Conceived and designed Activity diagrams of 4 requirements Requirements document deliverable First initial version of Design document deliverable</li> <li>4. Revision of Project Plan Document Complete Requirement Document Initial draft of Status Report presentation Revision of Design Document Prepare presentation (with Eldar, Hamza and Luca) Set up local docker environment</li> <li>5. Requirements document Design document Status report presentation</li> <li>6. Preparation of Status Report presentation Creation of Minutes of Meetings document Creation of Summary Week Report document Download docker and all the technologies in order to be ready in case Frontend need helps</li> <li>7. Preparation Alpha Prototype presentation Creation of Minutes of Meetings document Creation of Summary Week Report document</li> <li>8. Fix some problems on local environment Prepared slides for presentation Skype meeting to check the presentation Creation of Minutes of Meetings document Creation of Summery Week Report</li> </ol>
Stefano Cilloni	115	<ol style="list-style-type: none"> <li>1. Prepare a section of the presentation, prepare to present the slide</li> <li>2. Discussed about architecture and technology to be used. Minutes of Meeting and Summary Weekly Report. Reorganised Google Drive folder. Created GitHub repository. Created template for technologies proposal. Created 3 different Skype groups for supervisors, customer and the team.</li> <li>3. Set up GitHub repository organization</li> </ol>

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		<p>Wrote GitHub coordination documents to better exploit GitHub rich functionalities of fair team cooperation</p> <p>Set up dockerized version of development environment (dev. env.)</p> <p>Documented docker environment behaviour</p> <p>Added database container to the dev. env.</p> <p>Helped to rewrite non-functional requirements</p> <p>Revised Minutes of Meeting (x2) and Summary Weekly Report.</p> <p>Reviewed sprint 0</p> <p>GitHub PR code reviews</p> <p>4. Create initial base DB schema template from which to start from, as by agreement</p> <p>Project plan revision</p> <p>Sprint 2 contribution</p> <p>Helped Eldar to set up local docker environment</p> <p>Helped Tim to set up local docker environment</p> <p>Fix some issues with frontend template</p> <p>Repository documentation refactoring</p> <p>Docker documentation improved</p> <p>Added docker container for graphical administration of database (dev env)</p> <p>Fix other issues on frontend</p> <p>5. Contributed with tasks for Sprint 3 backlog</p> <p>Requirements document review</p> <p>Design document review</p> <p>Set up the DB connection with sequelize</p> <p>Docker minor issues fixes</p> <p>Database automatic creation script setup</p> <p>api-doc Swagger endpoint issue with Docker fixed</p> <p>Restructured backend endpoints mounting</p> <p>6. Migrations of the database working Automatically triggered each time dev env is executed</p> <p>Created Telegram channels to discuss by topic (Frontend, Backend, Database, etc..)</p> <p>Frontend docker image fix</p> <p>Docker image building procedure moved to docker hub</p> <p>Minor fixes about docker integration problems</p> <p>7. Migrations of the database working. Automatically triggered each time dev env is executed</p> <p>Created Telegram channels to discuss by topic (Frontend, Backend, Database, etc..) Frontend docker image fix</p> <p>Docker image building procedure moved to docker hub</p> <p>Minor fixes about docker integration problems</p> <p>8. Thanks to customer Skype call and team members help, refined database schema Worked with Tim to solve a swagger.io issue that was Docker related</p>
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		<p>Defined User and Role entities with CF approach in Sequelize Schema migrations with Sequelize working Facing too many problems due to Sequelize incompatibilities with new version of Postgres. By this, done researches and evaluated Knex and Bookshelf as alternative ORM Pgadmin Docker image changed to simplify its usage Database ORM switch: from Sequelize to Knex and Bookshelf Database creation script handled with Knex (each time the env is executed as it was before with Sequelize) Database schema migrations handled with Knex-migrate module. Still, as before with Sequelize, they're automatically triggered each time dev env is executed. Docker issues experienced by some team members solved Converted User and Role entities to Bookshelf syntax. CompanyType and MunicipalityType entities plus relative migrations created and working Setup database seed script to generate predefined users Initialized a "data ingestor" module to process the customer excel file. Ingestion of CompanyType entities working.</p> <p>9. Organizations migration script working. Created relation between User and Organization entities. Extended xlsx-data-ingestor module that handle the customer xlsx file's data import. Managed import from customer's Excel file of MunicipalityTypes and Organizations. Restructured Organization management: now split into two separated entities (Company and Municipality) Enforced referential integrity constraints between database entities: Organization, Company, Municipality, CompanyType, MunicipalityType. Improved companies import: now with CompanyType and Organization relationships. Helped a team member to fix Docker local environment.</p>
Luca Franceschetti	108	<ol style="list-style-type: none"> <li>1. Prepare a section of the presentation, and communicate with supervisors</li> <li>2. Discussed about architecture and technology to be used and communicate with the customer. Reorganised Google Drive folder. Make primary version of Requirements &amp; Design presentation, and share it on Google Drive. Update Project Vision presentation, correcting some errors pointed out by supervisors. Backlogged sprint 0</li> <li>3. Completed sprint 0 table and manage Trello board dividing completed and uncompleted task (for future</li> </ol>

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		<p>sprints)</p> <p>Completed sprint 1 table and manage Trello board dividing completed and uncompleted task (for future sprints)</p> <p>Created initial version of Product Backlog</p> <p>Defined initial requirements (with doc.)</p> <p>Completed Project Plan document</p> <p>Conceived and designed high level architecture of the system</p> <p>Conceived and designed initial mockup of graphical user interface</p> <p>Talk and write email with customer</p> <p>Update Trello board</p> <p>Requirements &amp; Design presentation</p> <p>Requirements document deliverable</p> <p>Revised Minutes of Meeting (x2) and Summary Weekly Report.</p> <p>4. Sprint 1 retrospective</p> <p>Sprint 2 revision</p> <p>Project plan revision</p> <p>Requirement document</p> <p>Design document</p> <p>Trello management (with Hamza)</p> <p>Gantt chart (plus revision it, adding details)</p> <p>Prepare presentation (with Eldar, Hamza and Luca)</p> <p>Revision of MoM (2017-11-04) and SWR (2017-11-07)</p> <p>5. Sprint 2 retrospective</p> <p>Sprint 3 revision</p> <p>Updated Gantt chart with highly detailed sprints</p> <p>Requirements document</p> <p>Design document</p> <p>Trello management</p> <p>Gantt chart sprint 3</p> <p>Status report presentation</p> <p>6. Sprint 3 retrospective</p> <p>Sprint 4 creation and revision</p> <p>Preparation of Status Report presentation with other team members</p> <p>Updated Project Plan document and uploaded version 1.1</p> <p>Created Gantt of Sprint 4</p> <p>Download docker and all the technologies in order to be ready in case Frontend needs help</p> <p>Trello management</p> <p>7. Sprint 3 retrospective</p> <p>Sprint 4 creation and revision</p>
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		<p>Preparation of Status Report presentation with other team members</p> <p>Updated Project Plan document and uploaded version 1.1</p> <p>Created Gantt of Sprint 4</p> <p>Download docker and all the technologies in order to be ready in case Frontend needs help</p> <p>Trello management</p> <p>8. Update product backlog with new stories, in order to be coherent with requirements document</p> <p>Divide all the stories in alpha and beta as suggested by Omar during previous call.</p> <p>Revised all the structure of the product backlog adding some conditional formatting</p> <p>Presentation of alpha prototype</p> <p>Trello management</p> <p>Sprint burndown chart</p> <p>Test if the docker containers are working</p> <p>Sprint 4 reviews</p> <p>Exchange some emails with the customer about docker, acceptance test plan, structure of the database and meeting.</p> <p>9. Prepared the slide for the presentation</p> <p>Prepared the presentation speech</p> <p>Skype meeting in order to check the presentation and refine the last details</p> <p>Presentation of alpha prototype on dsd class</p> <p>Sprint backlog spreadsheet for beta sprint</p> <p>Trello management</p>
Eldar Alasgarov	85	<ol style="list-style-type: none"> <li>Minutes of Meeting and Summary Weekly Report</li> <li>Discussed about architecture and technology to be used</li> <li>Discussion and choice on the template for Front-end. Finding and Installing premade Template for Front-end with integrated Vue.js modules. Adding Highcharts on top of it as well Prepare to present the slide Revised Use Case diagram</li> <li>Upload of the first web app template on github (with Aliya) Prepare for presentation (with Hamza, Valentina and Luca) Revision of MoM, SWR and Project Plan Documents</li> <li>Requirements and design documents review Set up the initial template, Prepare initial design examples</li> <li>Login / Logout works, all pages require Authentication</li> </ol>

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		<p>now</p> <ul style="list-style-type: none"> <li>Role-based separation of the visible parts of the website</li> <li>CSS Styling separation for all the pages</li> <li>Key Performance Indicators brought from the Back-end</li> </ul> <p>7. Fill In Municipalities list from API call  Fill in Graphs with data from API call  Add several customizations to the view like  'Vue-multiselect' dropdowns  Adjust User Login, now that it communicates with DB data</p> <ul style="list-style-type: none"> <li>Review Documentation</li> </ul> <p>8. Prepared demo for the presentation  Finished the login / logout changes  Brought data from the backend to display graphs  Brought data from the backend to display municipalities  Dependent multiselect dropdowns</p>
Rodrigo Coelho	111	<ol style="list-style-type: none"> <li>1. Prepare a section of the presentation. Discussed about architecture and technology to be used and communicate with the customer. Created Github repository. Use case slides for the presentation.</li> <li>2. Created basic concept graphical version of the application for client. Development of the prototype using Rstudio based on the Shiny platform to represent the capabilities of the system in regards to the project.</li> <li>3. Revision of the Documentation. Contribution to the Requirements Document. Development of the database schema and documentation.</li> <li>4. Project Plan Revision. DB prototype in MS Access. Test queries. MoM documentation. SWR documentation.</li> <li>5. Database schema development  Normalization analysis  Imported data into MS Access for prototyping  Initial query tests  Contribution to functional requirements  Project plan revision</li> <li>6. Working on exporting data from the prototype database in Access to Postgres.  First need to install Postgres Docker container and then study how the JSON import works.  Having some problems with docker installation, but working on it with the team. Installation hanging at the back-end docker container  SWR and MOM revision  Project Plan Revision  Trello updates for the DB team</li> <li>7. Docker installation and issue resolution for database</li> </ol>

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		<p>and front-end.          Researched how to export data from Access into JSON.          Executed the database export.</p> <p>8. Completed Docker Debugging          Development of User Acceptance tests and documentation.</p>
Hamza Sabljakovic	88	<p>1. Prepare a section of the presentation          2. Discussed about architecture and technology to be used          3. Conceived and designed high level architecture of the system          Setting up the initial version of project          Implementing basic authentication          GitHub PR code reviews          Writing the code documentation          Prepare to present the slides</p> <p>4. Researching for the evn variables          Sequelize integration with development and production database          JWT middleware          Backend app organisation          Code refactoring          Prepare for the presentation</p> <p>5. Contribution to the requirements document          CORS issues solved</p> <p>6. Creating the initial dashboard backend service          Implementation of the temporary users          Trying to understand the domain model</p> <p>7. API endpoint for municipalities          API endpoint for graphs          API endpoint for processing excel file and converting it into JSON          Connecting login controller with the db data source          Bug fixes (file upload, ip/localhost)</p> <p>8. Definition and implementation of API endpoints needed for Alpha prototype such as organisation and querying. For now data provided by APIs is fake and will be replaced with the actual data once database is ready.          JWT middleware integration with db to check if user is still active and what role he/she has.</p>
Aliya Hussain	77	<p>1. Prepare a section of the presentation          2. Discussed about architecture and technology to be used          3. Minutes of Meeting (x2) and Summary Weekly Report.          Discussion and choice on the template for Front-end.          Created initial template for the website structure</p> <p>4. Helped Eldar with setting up web template</p>

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		<p>Draw initial website wireframes for the presentation Revised the presentation with Luca, Eldar, Hamza and Valentina</p> <ol style="list-style-type: none"> <li>5. Setup initial template Prepare initial design</li> <li>6. Setup local docker environment Worked on UI of user profile</li> <li>7. API endpoint for municipalities API endpoint for graphs API endpoint for processing excel file and it into JSON Connecting login controller with the db data source Bug fixes (file upload, ip/localhost)</li> <li>8. Implemented downloading of chart as image and pdf Completed User management UI</li> <li>9. Download chart data in xlsx file format Worked on Companies UI Fixed User Management UI</li> </ol>
Tim Liberg	72	<ol style="list-style-type: none"> <li>1. Prepare a section of the presentation, prepare to present the slide</li> <li>2. Discussed about architecture and technology to be used. Created primary version of Project Vision deliverable.</li> <li>3. Requirements definition</li> <li>4. Setup local docker environment Swagger.io integration for API</li> <li>5. Minutes of meeting Requirements document review Sprint backlog Trello management User management API Watched Sequelize tutorials Data upload API Summary week report</li> <li>6. Setup local docker environment Sprint backlog Trello management</li> <li>7. Fixed a bug where swagger could not be run with docker Updated swagger definition for login API endpoint Setup local database with docker and seed scripts Started adding database connection to user management API Added backend tasks to the sprint backlog and trello</li> <li>8. Connected user management API to database Helped Stefano translate data from Swedish and decide the schema for the organization database table Updated swagger definitions to reflect current API</li> </ol>

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	functionality
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#### 4. Major Team Accomplishments and Obstacles

- For the **Documentation**, we are defining our test phase, doing a draft of Acceptance test plan that will be also used during the meeting with the customer, in which we will have our real first acceptance test. We start to prepare slides for beta prototype, defining the schedule as well.
- For the **Front-end**, data for graphs, dropdowns and municipalities is coming from the backend. However still not from database. Login logout system is also finished and connected to the users table. User page is also done.
- For the **Back-end**, API endpoints for user management have been added. Create connection between user management API and Database.
- For the **Database**, migrations now create *organizations*, *companies* and *municipalities* tables. Referential integrity constraints have been enforced to ensure the imported data consistency. The script to import customer's data has been extended thus now it imports the entity Company with associated the relative CompanyType entity.