



Visual Portfolio Analysis tool for Kommuninvest Summary Week Report

2018-01-08

Version 1.0

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Revision History

Date	Version	Description	Author
2018-01-08	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 these week, (2017-12-12 to 2018-01-08 included)

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2. Total Team Effort

Team Members	Work Hours	Activities / Tasks done
Valentina Menabue	20	<ul style="list-style-type: none"> - Prepared slides for presentation - Skype meeting to check the presentation and refine the last details - Creation of Minutes of Meetings document - Creation of Summery Week Report - Extension and improvement of ER schema diagram to make it coherent with the actual DB structure - Check Final Project report
Stefano Cilloni	30	<ul style="list-style-type: none"> - Finalized data import process of Economic Key figures for lacking fields still not imported - Investigated and got confidence with docker containers management and deployment on Heroku platform - Developed docker production images of backend and frontend - Realized seed script to initialize the production database - Implemented the "truncate" script to clean data that come from previous importation of the Excel file. (Basically a db reset of data, triggered on each new file upload) - Security of users' password saving enhanced: password saved through hash enriched with salt. - Reorganized backend and frontend configurations to fit production environment needs - Created a custom tailored workaround for frontend config in order to overcome a template error causing problems with production environment - Deploy on Heroku platform of the software. Project reachable at https://dsd-visual-portfolio.herokuapp.com - Help with slides preparation for presentation
Luca Franceschetti	30	<ul style="list-style-type: none"> - Prepared slides for Final Presentation - Prepared the presentation speech - Skype meeting to check the presentation and refine the last details - Final Project report document - Completion and revision of all the previous document after supervisors check - Sprint 6 backlog spreadsheet for Final sprint - Trello management
Eldar Alasgarov	40	<ul style="list-style-type: none"> - Update the scatter plots - Develop the Histograms

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		<ul style="list-style-type: none"> - Accommodate addition of the Muni type of the client, and all subsequent changes - Finalise the UI overall
Rodrigo Coelho	22	<ul style="list-style-type: none"> - Finalize system tests - User Acceptance test document review and final changes - Presentation rehearsal
Hamza Sabljakovic	25	<ul style="list-style-type: none"> - Integrating upload functionality with procedure to delete the current database records and input new values - Peer average comparison for companies
Aliya Hussain	20	<ul style="list-style-type: none"> - Fixed the search , pagination and sorting of columns of tables - Worked on UI
Tim Liberg	39	<ul style="list-style-type: none"> - Scatter-plot - Distribution graphs

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3. Aggregated Data

Team Members	Work Hours	Activities / Tasks done
Valentina Menabue	128	<ol style="list-style-type: none"> 1. Prepare a section of the presentation 2. Discussed about architecture and technology to be used 3. Requirements & 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 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 5. Requirements document Design document Status report presentation 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 7. Preparation Alpha Prototype presentation Creation of Minutes of Meetings document Creation of Summary Week Report document 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 9. Modified acceptance test document Prepared slides for presentation Skype meeting to check the presentation Creation of Minutes of Meetings document Creation of Summery Week Report Start modification of ER schema for DB 10. Prepared slides for presentation Skype meeting to check the presentation and refine the last details Creation of Minutes of Meetings document Creation of Summery Week Report

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		<p>Extension and improvement of ER schema diagram to make it coherent with the actual DB structure</p> <p>Check Final Project report</p>
Stefano Cilloni	145	<ol style="list-style-type: none"> 1. Prepare a section of the presentation, prepare to present the slide 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. 3. Set up GitHub repository organization Wrote GitHub coordination documents to better exploit GitHub rich functionalities of fair team cooperation Set up dockerized version of development environment (dev. env.) Documented docker environment behaviour Added database container to the dev. env. Helped to rewrite non-functional requirements Revised Minutes of Meeting (x2) and Summary Weekly Report. Reviewed sprint 0 GitHub PR code reviews 4. Create initial base DB schema template from which to start from, as by agreement Project plan revision Sprint 2 contribution Helped Eldar to set up local docker environment Helped Tim to set up local docker environment Fix some issues with frontend template Repository documentation refactoring Docker documentation improved Added docker container for graphical administration of database (dev env) Fix other issues on frontend 5. Contributed with tasks for Sprint 3 backlog Requirements document review Design document review Set up the DB connection with sequelize Docker minor issues fixes Database automatic creation script setup api-doc Swagger endpoint issue with Docker fixed Restructured backend endpoints mounting 6. Migrations of the database working Automatically triggered each time dev env is executed

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		<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> <p>Defined User and Role entities with CF approach in Sequelize Schema migrations with Sequelize working</p> <p>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</p> <p>Converted User and Role entities to Bookshelf syntax.</p> <p>CompanyType and MunicipalityType entities plus relative migrations created and working Setup database seed script to generate predefined users</p> <p>Initialized a "data ingestor" module to process the customer excel file. Ingestion of CompanyType entities working.</p> <p>9. Organizations migration script working.</p> <p>Created relation between User and Organization entities.</p> <p>Extended xlsx-data-ingestor module that handle the customer xlsx file's data import.</p> <p>Managed import from customer's Excel file of MunicipalityTypes and Organizations.</p> <p>Restructured Organization management: now split into two separated entities (Company and Municipality)</p> <p>Enforced referential integrity constraints between database entities: Organization, Company, Municipality, CompanyType, MunicipalityType.</p> <p>Improved companies import: now with CompanyType</p>
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		<p>and Organization relationships. Helped a team member to fix Docker local environment.</p> <p>10. Fix User-Organization (N:1) relationship issue. All DB models' code refactoring due to a cyclic import problem. Write documentation to let team members manage database, handle database schema reset and trigger manually the automated data import process. Change Company-Municipality relationship from N:N to N:1 respectively. Correct the Municipality import process. EconomicKey and FinancialKey entities initialization data_playground.js test file creation with sample queries to show how to execute query exploiting Bookshelfjs features. Improve the repository's main README file with PRs history link. Creation of GitHub labels to mark PRs in order classify them. Labels are a mechanism to warn team members about necessary actions to be done after the PR merge (e.g. database schema reset). Import functions for economic key figures and financial key figures. Improvements to database schema reset procedure. Creation of data-normalizer.js module to clean and normalize data before import. Attended Skype call of the acceptance test. Enhanced error handling procedures of data import process. Created all the financial key figures import process. Reinforced economic import process. (Summary) Enforce and improve data cleaning and normalization in general. (Summary) Refinement and expansion of database schema by better understanding relations and data organization. (Summary) Import process expansion though the complete data import of all: companies, municipalities types, municipalities, organizations, financial key figures. And also the partial import of: economic key figures. (Summary) Improve and widen the data import process by making it: modular, flexible, tolerant to missing data or data errors, strict on data cleaning. Code review on a GitHub PR about querying the database exploiting Bookshelfjs functionalities instead of raw SQL queries.</p>
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		<p>Start investigation for Docker images for production and production environment to run docker containers. Beta prototype presentation revision. Finalized data import process of Economic Key figures for lacking fields still not imported Investigated and got confidence with docker containers management and deployment on Heroku platform Developed docker production images of backend and frontend Realized seed script to initialize the production database Implemented the "truncate" script to clean data that come from previous importation of the Excel file. (Basically a db reset of data, triggered on each new file upload) Security of users' password saving enhanced: password saved through hash enriched with salt. Reorganized backend and frontend configurations to fit production environment needs Created a custom tailored workaround for frontend config in order to overcome a template error causing problems with production environment Deploy on Heroku platform of the software. Project reachable at https://dsd-visual-portfolio.herokuapp.com Help with slides preparation for presentation</p>
Luca Franceschetti	163	<ol style="list-style-type: none"> 1. Prepare a section of the presentation, and communicate with supervisors 2. Discussed about architecture and technology to be used and communicate with the customer. Reorganised Google Drive folder. Make primary version of Requirements & Design presentation, and share it on Google Drive. Update Project Vision presentation, correcting some errors pointed out by supervisors. Backlogged sprint 0 3. Completed sprint 0 table and manage Trello board dividing completed and uncompleted task (for future sprints) Completed sprint 1 table and manage Trello board dividing completed and uncompleted task (for future sprints) Created initial version of Product Backlog Defined initial requirements (with doc.) Completed Project Plan document Conceived and designed high level architecture of the system Conceived and designed initial mockup of graphical user interface

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		<p>Talk and write email with customer Update Trello board Requirements & Design presentation Requirements document deliverable Revised Minutes of Meeting (x2) and Summary Weekly Report.</p> <p>4. Sprint 1 retrospective Sprint 2 revision Project plan revision Requirement document Design document Trello management (with Hamza) Gantt chart (plus revision it, adding details) Prepare presentation (with Eldar, Hamza and Luca) Revision of MoM (2017-11-04) and SWR (2017-11-07)</p> <p>5. Sprint 2 retrospective Sprint 3 revision Updated Gantt chart with highly detailed sprints Requirements document Design document Trello management Gantt chart sprint 3 Status report presentation</p> <p>6. Sprint 3 retrospective Sprint 4 creation and revision Preparation of Status Report presentation with other team members Updated Project Plan document and uploaded version 1.1 Created Gantt of Sprint 4 Download docker and all the technologies in order to be ready in case Frontend needs help Trello management</p> <p>7. Sprint 3 retrospective Sprint 4 creation and revision Preparation of Status Report presentation with other team members Updated Project Plan document and uploaded version 1.1 Created Gantt of Sprint 4 Download docker and all the technologies in order to be ready in case Frontend needs help Trello management</p> <p>8. Update product backlog with new stories, in order to be coherent with requirements document Divide all the stories in alpha and beta as suggested by Omar during previous call.</p>
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		<p>Revised all the structure of the product backlog adding some conditional formatting Presentation of alpha prototype Trello management Sprint burndown chart Test if the docker containers are working Sprint 4 reviews 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 Prepared the presentation speech Skype meeting in order to check the presentation and refine the last details Presentation of alpha prototype on dsd class Sprint backlog spreadsheet for beta sprint Trello management</p> <p>10. Prepared the slide for the presentation Prepared the presentation speech Skype meeting in order to check the presentation and refine the last details Presentation of alpha prototype on dsd class Sprint backlog spreadsheet for beta sprint Trello management Acceptance test plan document refinement before real acceptance test at Kommuninvest</p> <p>11. Prepared slides for Final Presentation Prepared the presentation speech Skype meeting to check the presentation and refine the last details Final Project report document Completion and revision of all the previous document after supervisors check Sprint 6 backlog spreadsheet for Final sprint Trello management</p>
Eldar Alasgarov	155	<p>1. Minutes of Meeting and Summary Weekly Report 2. Discussed about architecture and technology to be used 3. 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 4. Upload of the first web app template on github (with Aliya) Prepare for presentation (with Hamza, Valentina and</p>

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		<p>Luca)</p> <p>Revision of MoM, SWR and Project Plan Documents</p> <p>5. Requirements and design documents review Set up the initial template, Prepare initial design examples</p> <p>6. Login / Logout works, all pages require Authentication now Role-based separation of the visible parts of the website CSS Styling separation for all the pages Key Performance Indicators brought from the Back-end</p> <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 Review Documentation</p> <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> <p>9. Replacing fake data in the front-end Cleaning the Template Adding filters and choices for graph generation User Role management for different interfaces</p> <p>10. Update the scatter plots Develop the Histograms Accommodate addition of the Muni type of the client, and all subsequent changes Finalise the UI overall</p>
Rodrigo Coelho	141	<p>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.</p> <p>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.</p> <p>3. Revision of the Documentation. Contribution to the Requirements Document. Development of the database schema and documentation.</p> <p>4. Project Plan Revision. DB prototype in MS Access. Test queries. MoM documentation. SWR documentation.</p> <p>5. Database schema development Normalization analysis</p>

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		<p>Imported data into MS Access for prototyping Initial query tests Contribution to functional requirements Project plan revision</p> <p>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</p> <p>7. Docker installation and issue resolution for database and front-end. Researched how to export data from Access into JSON. Executed the database export.</p> <p>8. Completed Docker Debugging</p> <p>9. Development of User Acceptance tests and documentation. Ran test on logon screens</p> <p>10. Finalize system tests User Acceptance test document review Presentation rehearsal</p>
Hamza Sabljakovic	143	<p>1. Prepare a section of the presentation</p> <p>2. Discussed about architecture and technology to be used</p> <p>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 env 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>

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		<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> <p>9. Replacing fake endpoints with the database data (data for graphs and dropdown lists) Testing the implemented solution Testing the application with the client (Orebro, Sweden)</p> <p>10. Integrating upload functionality with procedure to delete the current database records and input new values Peer average comparison for companies</p>
Aliya Hussain	119	<p>1. Prepare a section of the presentation</p> <p>2. Discussed about architecture and technology to be used</p> <p>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 Draw initial website wireframes for the presentation Revised the presentation with Luca, Eldar, Hamza and Valentina</p> <p>5. Setup initial template Prepare initial design</p> <p>6. Setup local docker environment Worked on UI of user profile</p> <p>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)</p> <p>8. Implemented downloading of chart as image and pdf Completed User management UI</p> <p>9. Download chart data in xlsx file format Worked on Companies UI Fixed User Management UI</p> <p>10. Fixed the search , pagination and sorting of columns of tables Worked on UI</p>

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Tim Liberg	120	<ol style="list-style-type: none"> 1. Prepare a section of the presentation, prepare to present the slide 2. Discussed about architecture and technology to be used. Created primary version of Project Vision deliverable. 3. Requirements definition 4. Setup local docker environment Swagger.io integration for API 5. Minutes of meeting Requirements document review Sprint backlog Trello management User management API Watched Sequelize tutorials Data upload API Summary week report 6. Setup local docker environment Sprint backlog Trello management 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 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 functionality 9. Updated API documentation (swagger) Customer meeting in Örebro 10. Scatter-plot Distribution graphs
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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 also finish 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. All organisations are in the Municipalities page, structured in Accordion manner.

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- 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.