

**Your Project Title**

**Team Members:**

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Julia Gonzalez, TAMK, Student number, Responsible teachers

Seyedsina Miri, University, Student number, Responsible teachers

Emmi Mäenpää, University, Student number, Responsible teachers

Mengyang Chen ,University, Student number, Sari Peltonen

Riina Meriläinen, University, Student number, Responsible teachers

**Project Partner:** Markku Johansson, Automaatio-Center, LVS-kulutusseurantq

**Facilitator:** Ville Korpiluoto

// NOTE: please remove the picture below and red tool tip lines after reading! Replace the red text in your text with font style: normal //



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## 2.1 PROJECT’S BACKGROUND AND NEED

// What is the problem behind the project set by the project partner? //

At the moment the problem is that a lot of information of energy usage is collected but it’s in so complicated form that the janitors can’t understand it. To make the rapport easier to understand our project partner has been writing comments on the rapports but it causes a lot of work.

Janitors are also very busy so they don’t even look at the rapports because it takes a long time to understand it. Thus the project partner’s effort is wasted and the janitors don’t know what is going on in the buildings they are in charge of.

The project partner has also had difficulties in keeping the customers. That’s why our solution should clearly show to the customer what benefits it has and get customers more engaged in the company.

Also collecting the energy usage data has been problematic. The maintenance that collects the numbers sometimes makes typing mistakes which causes extra work for the project partner.

// What is the need behind the project set by the project partner? //

The project partner needs a simpler way to do the energy usage rapports, get customers more engaged and also make customers interested in energy usage. They want a new system for collecting and reporting the energy usage.

// Describe briefly the purpose and background of the project (e.g. solution used currently). //

At the moment the project partner manually submits the energy usage numbers in an Excel based program and writes Word documents that explain the meaning of the graphics that Excel produces.

// Who is the target user for your product/service? //

We have four target groups. Janitors who take care of the buildings are the first group. The second is maintenance who collects the energy usage numbers. The third user is our project partner and the fourth is the people who live in the buildings. We intend to make all of these people’s lives easier and help them to save money.

// What makes this project interesting and significant? //

This project is significant because we are creating something new that helps people to save money and the environment. It also increases the efficiency of janitors’, the project partner’s and maintenance company’s work.

## 2.2 INITIAL VALUE PROPOSITION (Sina)

// How will the value be demonstrated? What is an intended outcome of the project (prototype, demo, video, tangible product, drawing etc.)? //

* Application
* Website

// What is the value for the end user? //

* Understanding of the number of the janitor
* Less work and les time for the janitor
* No papers
* More information people who live there

// What is the value for the project partner? //

* Life gets easier for them => no reports anymore
* Reduce their price
* Expend their customers range

## 2.3 DEFINITIONS, ACRONYMS AND ABBREVIATIONS

// List and explain briefly all definitions, acronyms and abbreviations used in this document. This chapter is only necessary if some unknown or important terms have been used. //



## 3.1 PROJECT TEAM

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Email** | **Phone number** | **Photo** |
| Daniyal Marghoob | [daniyal.marghoob@student.tut.fi](mailto:daniyal.marghoob@student.tut.fi) | +92 334 9944538 |  |
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// Each person individually writes a short paragraph including answers to following questions: (1) The name, (2) What is your role in the project, (3) What are your personal goals, expectations and motivations? //

**Daniyal Marghoob:**

**Fabian Jordan:** My name is Fabian Jordan and I’m trying to help at the programing front and in the design part. I’m also responsible for the blog of our team. My motivation is to produce something, which is so simple and clever as a can opener. Something that will be as usual as cooking in the microwave. The product should be something which is so essential to our way of life like a smartphone. The use of this new product should be interesting and give the users a maximum of enjoyment.

**Julia Gonzalez:**

**Seyedsina Miri:**

**Emmi Mäenpää:** In the project I will develop the business concept and marketing side. I am also responsible for the design. I want to create a good product that solves our partner’s problem. The product should be very easy to use and eliminate writing the rapports which cause a lot of work to the project partner. I am interested in developing business concepts so I am very excited and want to learn more of it during this project.

**Mengyang Chen:** Iam responsible for the development of the project, including software design

and coding. I want to create a really useful product for customers and at the same time to improve

my skills and abilities of doing such project, my goal is to make and useful and cool thing which

has good user experience.

**Riina Meriläinen:**

## 3.2 PROJECT PARTNER (Julia)

// Project partner’s contact details. Describe the ways in which your team is communicating with the project partner (e.g. weekly meetings, brainstorming workshops, emails, Dropbox, etc.) //

LVS-KULUTUSSEURANTA OY

Marco Johansson

Sammonkatu 8-10

33540 Tampere

040 124 0251

// Describe briefly the project partner’s goal level and expectations. Explain what the partner is looking for: one single refined idea, long list of unrefined ideas, how far should you go, how do you present your results, what is the demo etc.? //

* Better solution for his product
* Better way to collect and report of the data

## 3.3 OTHER STAKEHOLDERS AND COLLABORATION

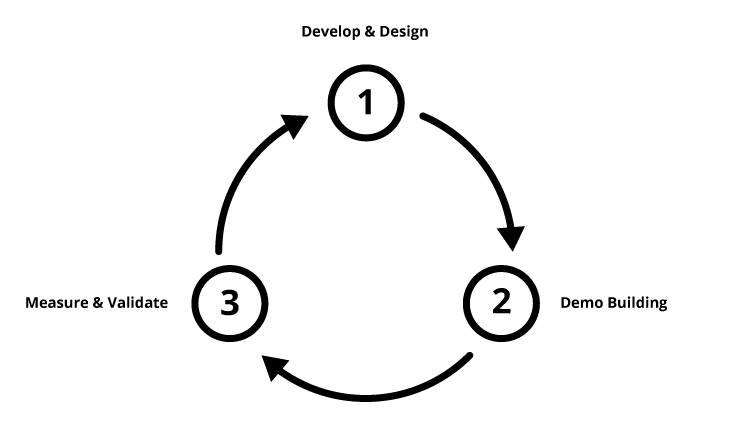
// University contacts’ contact details. Describe briefly ways of collaboration with the university (e.g. meetings with teachers, possible research collaboration). //

// Demola facilitator’s contact details & additional relevant info //

// Any other stakeholders? //



## 4.1 PROJECT CHECKPOINTS (fabian)



// We believe that the most value is created when the time through the process loop is minimized and in as many iterations as possible. Write down your concrete process loop elements. Set concrete goals (=checkpoints) before each cycle and update the results afterwards in the table. You can also mention notable turning points such as gaining critical information, getting some tools or making big decisions. //

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Checkpoint** | **Start date** | **Estimated completion date** | **Outcome** | **Status** |
| Project partner testing of first prototype | 06.10.16 | 06.10.16 | - | Not completed |
| Project partner/user testing of second prototype | 20.10.16 | 23.10.16 | - | Not completed |
| Project partner/ user testing of third prototype | 03.11.16 | 06.11.16 | - | Not completed |
| Project partner/ user testing of second prototype | 06.2.16 | 06.2.16 | - | Not completed |

## 4.2 AVAILABLE RESOURCES

// Estimate how many hours each team member has for this project (h/week and h/project), and what is the overall work resources available (h/project). //

Our estimation of the weekly work ours for each person is about 6 hours. The whole project goes about 12 weeks which means 72 hours of work per person.

In total makes this numbers 864 hours of work altogether.

// Describe things affecting your timetable (e.g. vacations, holidays, work, trainings, exam weeks etc.) //

There can be many things, which potentially affecting our timetable. Because we are a team of seven members of 3 different universities, the group organization is complicated.

In addition, there can be different events such as exam weeks, lectures, holidays which are affecting the time additionally.

There are three members of the team, who has to leave before the final pitch.

// Describe briefly background material provided by the project partner and tools (e.g. GPS receiver, iPad, Domain specific tools etc.) //

In the first meeting with project partner we got a short insight in our main task during this project. The project partner supported us with a sample report. In the future he will deliver us with more accurate information and data.

## 4.3 KEY FOCUS AREAS OF THE PROJECT

// Describe briefly what focus areas does the project have (on general level) needed to fulfill the project’s goals (e.g. technology development, design, business modelling etc.). The focus areas should reflect team members’ personal skills & interests. Mention also how much time each member has for each focus area and other resources needed for each area. Try to predict what focus areas you’re going to need but review these often and update. Leave space for pivoting. Feel free to add more Focus areas depending on the project. //

**Focus area 1. Design**

Focus area lead: Emmi Mäenpää

Resources needed: Data Customer

**Focus area 2. Programming**

Focus area lead: Mengyang Chen

Resources needed: Computers, Coder, Time

**Focus area 3. Marketing**

Focus area lead: Julia Gonzalez

Resources needed: Data Customer, Distribution Channel

## 4.4 DEVELOPMENT METHODS & TOOLS (Chen)

We are going to develop the product in a agile way, in total there are three developers, and the rest

of the team members can do software testing and make feedbacks, so the coder is going to fix the

bug according to the feedback.

For this product, we are going use MEAN (Mongodb+Express+Angular2+Node) stack to building the

server and the web front-end, because there are relatively easy for development so we can focus

more on accomplishing the business functions, and all of the coders in our team had some

experiences on Node before. Besides, mobile solution is also considered into the plan, so we are

going to develop an app based on Android.

The development tools we are going to use are Android Studio for mobile development, and Visual

Studio Code for Server and Web development, for version control, Github is our choice.

## 4.5 ELEMENTS OF THE DEMO

// Your demo isn’t just software or written documents. List all documents and presentations produced during the project that helps the validation of your results. Think about documents, plans, interview memos, source code, mock-ups, videos, etc. Update this part regularly. //



**Riina**

// Describe metrics to be used to evaluate the value and success of the project. How will you attempt to ensure the value delivered? //

* Testing afternoon





**Riina**

// Describe briefly the reasons that might jeopardise your success related to the project and team’s work (e.g. team member quits the project). Also think about the possible solutions/preventions of the problem (e.g. bad communication: this can be avoided by having meetings every week and by keeping in touch via Facebook / Email / Skype). //

* Lack of time
* Lack of motivation



// Update your individual working hours on a weekly basis. //

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Weeks** | Daniyal | Fabian | Julia | Seyedsina | Emmi | Mengyang | Riina |
| Week 38 | 4h | 4h | 4h | 4h | 4h | 4h | 4h |
| Week 39 | 4h | 4h | 4h | 4h | 4h | 12h | 4h |
| Week 40 | 0h | 7h | 7h | 4h | 7h | 7h | 7h |
| Week 41 |  |  |  |  |  |  |  |
| Week 42 |  |  |  |  |  |  |  |
| Week 43 |  |  |  |  |  |  |  |
| Week 44 |  |  |  |  |  |  |  |
| Week 45 |  |  |  |  |  |  |  |
| Week 46 |  |  |  |  |  |  |  |
| Week 47 |  |  |  |  |  |  |  |
| Week 48 |  |  |  |  |  |  |  |
| Week 49 |  |  |  |  |  |  |  |
| Week 50 |  |  |  |  |  |  |  |
| Week 51 |  |  |  |  |  |  |  |
| Week 52 |  |  |  |  |  |  |  |
| Week 01 |  |  |  |  |  |  |  |
| Week 02 |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |



// What was your solution? How did you solve the problem? //

// List things that the solution consists of or that describe it.

// What material did you create in the project that delivers value to the partner and helped you in the process? For example: Demo, Technical/design documents, Usability/Evaluation reports, relevant links to any other info etc. //

## 8.1 USEFULNESS OF THE SOLUTION, EFFICIENCY AND USABILITY

// Analyze your solution. Have you reached your goals defined in the problem section or have they changed? //

// What is the bigger picture? What parts can you utilize from the solution later on? //

## 8.2 IMPROVEMENTS AND SUGGESTIONS

// What kind of follow-up would the team propose? What paths of further development can be seen? What kind of improvements could be done to the solution with more time and resources? //



// How was the communication between the project members, project partner, teachers and Demola? How would you develop your communication with stakeholders? //

// What working methods have you used? NABC, pitch, lean startup, benchmarking. //

// How would you improve your methods in a future project, and what have you found valuable? (e.g. NABC, pitching, Demola events, team meetings, brainstorming, benchmarking etc ). What would you do differently? //

// Risk management: did you have problems/issues during your work and how did you overcome them? //

// Each team member shall write a short learning diary about following topics: Personal experiences, acquired skills, working as a team, etc. Answer also which Demola events/activities were useful for both personal growth and project progress? //



// List here all open issues to be discussed and resolved during your project. This sections needs to be updated often! For example, if you have a detailed time schedule for your project, list of ideas, background information etc. can be attached. //