Project Plan for Bicycle Garage Pro (Group 33, 2015)

Current version: 0.9.2

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Contents

1 References

- *Examples and Exercises in the Software Engineering Process*. ETSA01 VT 2015. Deparment of Computer Science, Lund University. March 10, 2015.
- *Software Requirements Specification for Bicycle Garage Pro*. ETSA01, Group 33, 2015.

2 Introduction

2.1 Project model

2.2 Purpose

The projects aim is to develop software for a bicycle garage, which handles storage of bicycles. Software will be developed for hardware already specified.

2.3 Goals

2.3.1 Product goals

The software shall have low deficiency and should handle a high number of users with good, and optimized, performance. The product will take care of users passing through the entrance with their bicycle - the user will enter a pincode and scan a barcode for their bicycle to store it. The user can then exit the garage, and to exit with a bicycle the same procedure will be done as the one to store it.

2.3.2 Business goals

A business wants to offer cheap and reliable bicycle storage to their customers, whom may want to protect their bicycle against misfortune.

2.4 Limitations

The project uses specific hardware, which will limit be the limit for security and performance if the software is properly optimized and functioning.The date for delivery is already specified and thus tests with good coverage needs to be implemented. The project has no funding, therefor the manpower available is what the project is limited by.

3 Project Organization

3.1 Development organization

TODO: *This division of tasks was made afterward... Should we still keep it?*

Responsible for for this project are:

Alexander Skafte:

- Requirements specification
- Test plan
- Design document
- Project plan
- Various reviews
- Software development

Dennis Jin:

- Requirements specification
- Test plan
- Design document
- Various reviews

Petter Berntsson:

- Project plan

Emelie Löthman:

- ...

Adam Mrozek:

- ...

3.2 Stakeholders

- The municipality
- ACME

4 Hardware and software resources

LaTeX: Typesetting software; used to typeset all documents related to the development of *Bicycle Garage Pro*.

Eclipse: Integrated desktop environment for software development.

The Java Programming Language: The programming language used to create the software.

Google Drive: Cloud storage reachable for all members to edit

Git & GitHub: For sharing code and LaTeX source text

5 Division of labor

TODO: *Same as "Development organization"?*

5.1 Activities

Project plan
The planning of the project, also this rapport.

Requirements specifications
The requirements for the project are identified and defined. This results in a requirements specification.

Test plan
The planning of all tests that will be performed. This results in a test plan.

Design
A general description of the systems structure. This results in a design document. Different people are responsible for different parts of the code.

Implementation and unit testing
Implementation and testing of all parts of the system. This is performed according to the design.

Integration
This part is the finishing part of the program, which leads to a fully functioning program.

System test
The system is tested in its entirety. This takes part in a testing environment which mimics the environment that the program will be used in.

5.2 Deliverables

Project plan

Requirements specification

Design document

Test plan

Source code

5.3 Landmarks

???

5.4 Schedule and estimated work

6 Report, follow-up and quality assurance

7 Risk analysis

TODO: *Add more risk cases.*

Hardware noncompliance Risk; Low Effect; Devastating How do we fix it? Contact the hardware developers and ask for new hardware specifications Riskindicators; The appliance does not work properly, even if the virtual testing passed.

A TODO: Any appendices?