Course CDT401, Component Technologies

Group no. 1
Date 27/09/2018
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Project Description

Project **Online Component Repository**

DISTRIBUTION

Steering group:

Frank Lüders

Project group:

Vladimir Djukanovic

Cristian Capozucco

Oskar Palmgren

Aleksandar Matovic

Bastien Delbouys

Mohamed Abdi

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1. Background and Objectives

This project of repository software system which project team will create as different software components that includes user browser component, admin component and main database which will have several components which finally reflect feedback of the user.

The project is a part of component technology course fulfillment in master program of 2018/2019.

It will present the group members as development team. An initial backlog containing the basic functionality of the software product as required by the client will also be presented.

The project is a case study of an online software component repository. There are two types of users in this system:

1. Normal users
2. Admins

The formers can perform operations like:

1. Browse components
2. Look for a component
3. Download components

On the other hand, the latter can:

1. Add components to the repository
2. Remove components from the repository
3. Edit component information

This system must be designed with a component-based style.

2. Organization

2.1 Project Manager

Vladimir Djukanovic

2.2 Project Group

Name	**Period**	**Availability**
Vladimir Djukanovic	2018-09-20—2018-11-11	50%
Cristian Capozucco	2018-09-20—2018-11-11	50%
Oskar Palmgren	2018-09-20—2018-11-11	50%
Aleksandar Matovic	2018-09-20—2018-11-11	50%
Bastien Delbouys	2018-09-20—2018-11-11	50%
Mohamed Abdi	2018-09-20—2018-11-11	50%

2.3 Steering Group

Frank Lüders

3. Assumptions and Constraints and Risks

There is some risk that can affect the quality of the project.

One of the biggest risks, to the end product, can be bad requirements engineering. This could affect the whole project as bad requirements affect the following software engineering phases:

- Design
- Implementation
- Testing

Bad requirements include unclear phrasing of requirements, ambiguous requirements and missing requirements. To minimize this problem a lot of precaution has to be taken during the initial requirements engineering to get accurately all the requirements from the start. It is also important to revise the requirements during the project if were any unclear questions on what a specific requirement is or if extra requirements need to be added.

Another risk is that the project group have never worked together before. This is a hard risk to handle so the best way is to try to have a clear communication in the group and address the problems if they appear.

The skillsets of the individual group members could also be a problem. Each member has different experiences in programming both in how good each member is in programming and which programming languages they are knowledgeable in. In order to minimize this risk, it is important to be straightforward with what skills each member has, to get the best-suited person on each task.

4. Deliverables

To	Output	Deadline	Rem
Steering Group	Project Plan	2018-09-27	
Steering Group	Design document	2018-10-18	
Steering Group	Prototype implementation	2018-10-29	
Steering Group	Project Analysis	2018-11-08	
Steering Group	Peer and Self-Assessment	2018-11-11	

5. Communication

The group will meet at least once a week and discuss the work that is already done and the plan for the following period, by utilizing principles of an agile alike development approach.

Microsoft teams is used for general communication during the week and as an easy way to document all interactions and share files and links.

Trello will be used to coordinate work activities and manage individual effort which will come to focus after designing the system and starting with implementation.

A GitHub repository will be used for hosting the project and reporting results to the steering group.

6. Worked Hours

Each project member shall report worked hours.

The allocated hours per person, taking holidays etc. into account, are:

Member/Week	W38	W39	W40	W41	W42	W43	W44	Total
Vladimir Djukanovic	4	12	12	10	18	15	9	**80**

Cristian Capozucco	4	12	12	10	18	15	9	**80**
Oskar Palmgren	4	12	12	10	18	15	9	**80**
Aleksandar Matovic	4	12	12	10	18	15	9	**80**
Bastien Delbouys	4	12	12	10	18	15	9	**80**
Mohamed Abdi	4	12	12	10	18	15	9	**80**

7. Project Plan

Id	**Milestone Description**	**Responsible**	**Effort (person hours)**	**Rem**
1	Project plan agreement		3	
2	Write project plan		14	
3	Project plan presentation		5	
4	UML diagram design		9	
5	UI agreement		5	
6	Sketch UI		15	
7	Write design document (first version)		24	
8	Initial implementation of C# application		90	
9	Testing		40	
10	Write design document (final version)		78	
11	Further implementation of C# application		71	
12	Testing		60	
13	Write final report		56	