

CEN 5035 Software Engineering

Project 2: Team Project Proposal and Description

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Due: Monday October 24, 2016 at 11:59pm via Blackboard. Each team submits one copy

This document is the first step in your term long project. Your team decides on the specific theme and features of your project based on what I have proposed for you.

Your term project proposal and description should include at least the following sections, based on which you can add more sections when you see fit.

1 Executive Summary

A short description of the final project and its key advantages, novelty, and values, up to 1 page. Make it an executive summary—think of answering the question of why you develop this project and target at what market sectors. Assign a product name to your project. This executive summary should be readable to a general audience who is not a computer science specialist. The executive summary is also used to advertise and promote your project.

2 Competitive analysis

Analyzing competitive products available today. Present competitors' features vs. your planned ones. First, create a table with key features of competitors vs. yours. Only at very high level, 5-6 entries max. After the table, you must summarize what are the planned advantages or competitive relationship to what is already available.

3 Overview and scenarios

This section describes the project overview (in much more details) and likelihood usage scenarios of your product from end users' perspectives. Focus only on main use cases. Simple text format is OK and preferable – tell us a story about who and how is the application used. Focus on WHAT users do, their skill level, not on HOW the system is implemented.

4 Initial list of high-level functional requirements

This refers to the high level functionality that you plan to develop to the best of your knowledge at this point. Focus on WHAT and not HOW. Keep the users in mind. Develop these functions to be consistent with use cases and requirements above.

Number each requirement and use these numbers consistently from now on. For each functionality use 1-5 line description.

5 List of non-functional requirements

For example, performance, usability, accessibility, expected load, security requirements, storage, availability. Number each. When possible, try to quantify these quality attributes.

6 System development infrastructure

Lists of main software products, tools, languages and systems to be used, list of core APIs available at this point, supported browsers etc.

You also have to decide on which frameworks you will use if any. These provide both user interface, as well as cross-platform and cross browser layout/css. All external code you plan to use must be listed along with their license.

7 Team

List student group names, name of Scrum master, product owner and initial roles for each member

8 Deliverables

Planned incrementally delivery schedule of the project (Scrum-based). Reflect your backlog items in your Trello/Jira Project space.