CEN 4010 Principles of Software Engineering Spring 2021

Milestone 1: Team Project Proposal and Description

Group 11: COVID-19 Forum

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Version History:

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# 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.

# 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.

# Data definition

This section serves as the “dictionary” of your document. It defines main terms, data structures and “items” or “*entities*” *at high or logical (not implementation) level* (e.g. name, meaning, usage, and NOT how the data is stored in memory) so it is easier to refer to them in the document. Focus on key terms (main data elements, actors, types of users etc.) specific for your application and not on general well know terms. These terms and their names *must be used consistently* from then on in all documents, user interface, in naming software components and database elements etc. In later milestones, you will add more implementation details for each item. You will later expand this section with more details.

# Overview, scenarios and use cases

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. You can expand use cases provided in high level document in future milestones.

# 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.

# List of non-functional requirements

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

# High-level system architecture

Software/Tools:

* phpMyAdmin (MySQL) - administration tool for MySQL
* npm - package management system
* Brackets - Code editor

Languages:

* PHP
* SQL
* HTML
* CSS
* Javascript

Frameworks:

* Chart.js - dynamically create charts within JavaScript
* Bootstrap - responsive CSS framework

APIs:

* COVID-19 Data API (<https://covidtracking.com/data/api>)

# Team

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

# Checklist

For each item below you must answer with only one of the following: DONE, ON TRACK (meaning it will be done on time, and no issues perceived) or ISSUE (you have some problems, and then define what is the problem with 1-3 lines). Reflect these items in your Jira project space:

1. Team decided on basic means of communications
2. Team found a time slot to meet outside of the class
3. Front and back end team leads chosen
4. GitHub master chosen
5. Team ready and able to use the chosen back and front-end frameworks
6. Skills of each team member defined and known to all
7. Team lead ensured that all team members read the final M1 and agree/understand it before submission