CEN 4010 Principles of Software Engineering Spring 2021

Milestone 1: Team Project Proposal and Description

Group 11: COVID-19 Forum

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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

Data Dictionary

|  |  |  |  |
| --- | --- | --- | --- |
| **User Account** | | | |
| **Attribute** | **Use** | **Description** | **Type** |
| username | Username input field for login | A user’s display name on the website | Text |
| password | Password input field for login | A user's hashed password to log in to the website | Text |
| first\_name | Display the first name for user when viewing a user’s account | A user's first name that is displayed when visitors view account details of a member | Text |
| last\_name | Display the last name for user when viewing a user’s account | A user's last name that is displayed when visitors view account details of a member | Text |
| email | Alternate username input for login/method of contact | A user's email that can be used for contacting user or for logging in | Text |
| picture | Display the picture of user when viewing a user’s account | Account’s profile picture | Image |
| total\_post | Display the total number of posts a user has | Number of posts created by a user | Integer |
| thread\_count | Display the total number of threads a user is following | Number of threads a user is following | Integer |
| threads | Display a list of all the threads that a user is following | Shows users the threads that another user is following | Text |
| is\_admin | Allow access to remove threads and ban accounts if a user is an administrator | Shows if a user has the status of an administrator or not | Boolean |
| **Threads** | | | |
| recently\_updated | Display the date for most recent post | The date for the most recent post made on a thread | Timestamp |
| subject | Search threads by subject on search engine | The subject (title) of a thread | Text |
| followers | Display the total number of followers that a thread has | The total number of accounts that follow a thread | Integer |
| **Posts** | | | |
| created | Display the date for when a post was first created | The date for when post was first created | Timestamp |
| content | Display the content of a post within a thread | An area for a user to type what they want to post for a thread | Text |
| likes | Display number of likes on a post and sort to have most popular post at the top of a thread | The number of likes on a post | Integer |
| dislikes | Display number of dislikes on a post | The number of dislikes on a post | Integer |

# 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

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.

# 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