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

Key features

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Our Covid Forum | Reddit | Twitter | Facebook | Tumblr | Instagram |
| Reactions on posts |  | X | X |  | X | X |
| Direct messaging |  |  |  |  |  |  |
| Photo sharing |  |  |  |  |  |  |
| Live stream capabilities |  |  |  |  | X |  |
| Specialized search engine |  |  |  |  |  |  |
| Communities |  |  |  |  |  | X |
| Customizable Notifications |  |  |  |  |  |  |

Our Covid Forum will have a search engine that easily filters through, users, post titles, keywords, topics, tags, including our trending posts on our site. From there we will have options to keep up to date with the topics that you desire to, and we even have an option to hide certain topics as well, so they do not show up on your newsfeed. Our other functions include being able to filter out profanity, and follow users you wish to see, unlike twitter where everything a user you follow likes shows up on your newsfeed, our site will allow you to choose who’s content you wish to see. Along with posting to our site to express yourself you can include pictures, videos, gifs, music, other links, as well as tagging your post to easily be found by other users that are interested in what you are posting. Before posting one can also choose who sees their post, whether it is posted publicly (default) or you can post specifically to communities you are in or to a select few people. From here you can comment on other posts including your own, or simply give a reaction, similar to a thumbs up, which Facebook has implemented, but ours will include, a like, dislike, heart, laughing, angry, crying, shocked, and confused emote. Much like some of the competitive blogs like Twitter, Facebook, and Tumblr, we will also have a share feature to keep the post on your page. One can also make their own group to share specific content to as well. Our site will include a private messaging platform to interact with others in a more one-on-one session. We will include a video chat within groups as well as within private messaging. If a user wants to broadcast live to our platform, we allow that as well. There will also be a way to customize notifications for our site, so you only get notified on the important things. Lastly, we will have a user agreement so none of our users offend others and we can keep our community safe.

# 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

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