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

The COVID-19 Forum is a software project in development by CEN4010 Group 11.

The goal of the COVID-19 Forum is to connect users through shared experiences and feelings that have been caused by the Corona virus pandemic. This global catastrophe has drastically changed the lives of everyone. Group 11 hopes that the COVID-19 Forum will allow for people to connect and share information about the ongoing epidemic; whether it be scientific data or emotional support resources, the forum will be a place to bring a sense of normalcy upon us all during such an abnormal time.

The COVID-19 Forum will be accessible via web browser and will allow users to view posts created by others. Users can create accounts to engage with the forum. Features such as creating, liking, and commenting on will be made available to enable engagement amongst the visitors. The forum will be organized by topics such as “news” and “emotional support”. Those with an account can choose to “follow” topics of their choice in order to tailor their feed to their liking. Additionally, the COVID-19 Forum will be optimized for viewing on mobile devices, ensuring that anyone can access the information with ease no matter where they are.

Those who choose to not create an account will still be able to utilize the site, with some limitations on the features they can interact with. Things like creating, commenting on, or liking posts will only be available to those with an account; as well as the ability to follow topics. To experience everything that the COVID-19 Forum has to offer, Group 11 recommends creating a login. However, posts can still be viewed by those just visiting; we believe such valuable information should be available to everyone.

To create a profile, users will input information such as their name, email address, and password. Group 11 is dedicated to protecting the information of all users and will put in place security measures to ensure that data is encrypted and secure.

Group 11 understands that connecting during these times of social distancing can feel impossible. We hope that the COVID-19 forum will bring people together by offering a supportive community that encourages educational and positive discussion regarding an objectively negative situation.

# 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

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