CEN4010 Principles of Software Engineering, Spring 2021

Dr. Shihong Huang

Group 1 - Team 0xCOFFEE

Due date: February 16, 2021

COURSE PROJECT MILESTONE 1

Team Project Proposal and High-Level Description

**Executive Summary**

**Competitive Analysis**



**Data Definition**



**High-Level Functional Requirements**



**Non-Functional Requirements**

* System MUST be usable in modern web browsers.
* System MUST be intuitive.
* System MUST be responsive on all platforms, including mobile devices.
* Unauthenticated users MUST NOT have full access to the system.
* System MUST securely store user credentials. If the system is compromised, credentials must be very inconvenient to reveal.

**High-Level System Architecture**

* CentOS 6.9 Linux host operating system
* Apache Web Server version 2.2.15
* MySQL database version 14.14
* PHP server-side scripting language version 7.0.25
* JavaScript client-side scripting language
* Slim PHP framework version 4 for creating a RESTful server-side API.
* React JavaScript library for creating a client-side single page application.
* Reactive Extensions for JavaScript (RxJS) version 6 for handling asynchronous events.
* Bootstrap CSS framework version 4 for look-and-feel and application responsiveness.
* React Bootstrap library version 1.4 for seamless Bootstrap integration with React application.
* Supported browsers:
  + Highest priority: Chromium, Google Chrome\* (PC and mobile), Firefox (PC and mobile)
  + Lowest priority: Microsoft Edge\*, Safari (PC and mobile), Opera (PC and mobile)

\*Google Chrome and Microsoft Edge are based on Chromium.

**Team**

**Milestone 1 Checklist**

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| --- | --- | --- |
| **Checklist Items** | **Done** | **On Track** |
| Team decided on basic means of communications | X | X |
| Team found a time slot to meet outside of the class | X | X |
| Front and back end team leads chosen | X | X |
| Github master chosen | X | X |
| Team ready and able to use the chosen back and front-end frameworks | X | X |
| Skills of each team member defined and known to all | X | X |
| Team lead ensured that all team members read the final M1 and agree/understand it before submission | X | X |