CEN 4010 Principles of Software Engineering, Fall 2021

Covid Connections

*By Team Onux*

Project Team 8

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Milestone 4 Beta Launch & Reviews

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# Product Summary

# Usability Test Plan

# QA Test Plan

# Code Review

# Best Practices for Security

# Non-Functional Requirements

**Compatibility Requirements:**

1. *Browsers:* The site will be created using bootstrap to ease compatibility between desktop and mobile based browsers. The initial scope of the site covers compatibility with Chrome and Firefox, which should also provide compatibility with other major browsers. No alternative site functionality will be considered if the browser does not have JavaScript installed.
2. *Computer and OS:* The site is being built with no particular operating system in mind. If the OS can run any popular browser, it will run the site.

**Expected Load:**

1. As the site should not be receiving large use traffic simultaneously, we will make all possible accommodations to tolerate multiple users at once. Scripts will be executed to simulate multiple simultaneous users/requests to the server.

**Storage Requirements:**

1. System will be stored on LAMP server. Backup options are not yet determined but may include cloud storage for image and database files.

**Availability Requirements:**

1. System will be stored on LAMP server. As such, it is subject only to LAMP server maintenance constraints.
2. In the event of LAMP downtime, website will be inaccessible.

**Performance Requirements:**

1. *Responsiveness:* The system will be coded using bootstrap which should help accommodate any screen size.
2. *Test Requirements:*  Testing will include all functional requirements as well as simulated multiuser load and response time.
3. *Reliability:* The system should be operational 100% of the time if LAMP is up and running. Failures should be addressed prior to deployment.
4. *Bug Count:* No more than 10 bugs during development at any time. No more than 5 bugs when system is deployed.

**Security Requirements:**

1. *Login/Password:* Users will be required to authenticate via username and password. Passwords will be salted and hashed on the database layer to protect user privacy and security as much as possible.
2. *Test Requirements:*  Testing will include all functional requirements as well as simulated multiuser load and response time.
3. *Reliability:* The system should be operational 100% of the time if LAMP is up and running. Failures should be addressed prior to deployment.
4. *Bug Count:* No more than 10 bugs during development at any time. No more than 5 bugs when system is deployed.