CEN 4010 Principles of Software Engineering, Fall 2021

Covid Connections

*By Team Onux*

Project Team 8

**Team**

Van Campbell – Scrum Master, Technical Writer - vcampbell2019@fau.edu

Samuel Adkins – Product Owner, Front-end Lead - [adkinss2020@fau.edu](mailto:adkinss2020@fau.edu)

Achelin Felix - Front-end Developer - [felixa2017@fau.edu](mailto:felixa2017@fau.edu)

Gustavo Rodriguez – Back-end Lead - [Grodriguez2017@fau.edu](mailto:Grodriguez2017@fau.edu)

Samuel Yambo -Front/Back-end Developer- [syambo2020@fau.edu](mailto:syambo2020@fau.edu)

Frecks Bertrand II – Front-end Developer - [fbertrandii2017@fau.edu](mailto:fbertrandii2017@fau.edu)

Michael Merlo -Technical Writer- [mmerlo2015@fau.edu](mailto:mmerlo2015@fau.edu)

Milestone 4 Beta Launch & Reviews

11/03/21

Revision History

#1 – 9/28/21

#2 – 10/11/21

#3 - 11/03/21

#4 - 11/12/21

Table of Contents

[Product Summary 2](#_Toc87722927)

[1) Name of Product 2](#_Toc87722928)

[2) List of Committed Functions 2](#_Toc87722929)

[3) Unique Features 3](#_Toc87722930)

[4) URL 3](#_Toc87722931)

[Usability Test Plan 3](#_Toc87722932)

[QA Test Plan 3](#_Toc87722933)

[Code Review 3](#_Toc87722934)

[Best Practices for Security 3](#_Toc87722935)

[Non-Functional Requirements 4](#_Toc87722936)

# Product Summary

#### Name of Product

Covid Connections

#### List of Committed Functions

1. Creating, posting, and replying on **Forums**
2. **Secure Account Creation** and **Sign In/Login**
3. **Covid Resources**
4. **Game**s
5. Posting and sharing of **Images** (may delete)
6. **Homepage** displaying the weather in your area, directory to all other functions, and personal account page (may delete)

#### Unique Features

Covid Connections is a new and exciting social media platform that allows residents of Florida to connect throughout the Covid-19 pandemic. The site features forums, games, and resources about Covid-19. Covid Connections also is the first of its kind to completely respect the member’s privacy, and not sell any data to third parties.

#### 

#### URL

https://lamp.cse.fau.edu/~cen4010\_fa21\_g08/home/index.php

# Usability Test Plan

# QA Test Plan

# Code Review

# Best Practices for Security

The list of assets that will be protected by the system are the user password and the database layers.

The user password will be encrypted using RIPEMD hashing. RIPEMD hashing is a hash function that convert normal data to irregular values which will allow the password to be secured and encrypted. Before encrypting the password there will be a two salt phrases to further protect the password.

The database layer is also encrypted. The strings inputs will be sanitized in queries which will prevent SQL injection attacks. For input validation, the user password and the username will be checked against the database to see if it’s input correctly. Also, before any post or images are modified, the system will verify that the original user is still logged in. The search inputs will be sanitized through queries to see if the inputs were true.

# Non-Functional Requirements

### Compatibility Requirements: (Done)

The website is compatible with all browsers.

* Browser (Done):
  + The website is compatible with Chrome, Safari, and Firefox. All the requirements are met
* Computer and OS (Done):
  + There are no particular OS that being used.

### Expected Load: (Done)

The website will be run through the lamp server. There is no plan to add anything that would overload our current system.

### Storage Requirements: (Done)

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: (Done)

The website is currently being run on the lamp server if the lamp server is not available. The site will be unresponsive.

### Performance Requirements: (On Track)

* Responsiveness (Done):
  + The website is implemented using bootstrap. The overall theme is a combination of a variety of different styles, all centered around connection.
* Test Requirement (On track):
  + The test requirement is being implemented currently. As a team, we will be testing how the search correspond to certain inputs.
* Reliability (Done):
  + The website is currently being run on the lamp server, If the lamp server is not available, the site will be unresponsive.
* Bug Count (On track):
  + So far there has not been any bugs reported. We run daily updates to make sure that there are no bugs being implemented in the code, as well as peer reviews.

### Security Requirements: (On Track)

* Login/Password (Done):
  + The login was recently implemented. It is run through the database. The password is being encrypted on our database.
* Test Requirement (On track):
  + The test requirement is being implemented currently. As a team, we will be testing how the security correspond to certain inputs. It is being tested on to see how it would operate with a user that visit the website.
* Reliability (Done):
  + The website is currently being run on the lamp server, If the lamp server is not available, the site will be unresponsive.
* Bug Count (On track):
  + So far there has not been any bugs reported. We run daily updates to make sure that there’s no bugs being implemented in the code, as well as peer reviews.