

# **CEN: 4010 Principles of Software Engineering**

**Summer Term, 2020**

## **Milestone 4 Beta Launch and Reviews**

**Team: Anime Lover's**

**Project Name: The Covid Cove**

**Team 14**

**Members :**

**Ricardo Morales (Scrum Master) -**

**rmoralessolo2016@fau.edu**

**Samantha Medina(Product Owner) -**

**smedina2017@fau.edu**

**Zain Cruz (Develop Team) - zcruz2018@fau.edu**

**Adam Fox (Develop Team) - [foxa2017@fau.edu](mailto:foxa2017@fau.edu)**

**July 27, 2020**

Group Peer Evaluation (Total:10 pts):

Zain Cruz: 25%

Samantha Medina: 25%

Ricardo Morales: 25%

Adam Fox: 25%

## **2.2 Product summary:**

Our product known as “The Covid Cove,” features various functions that we believe will be of great service to you, our consumer base. The tools included here are for absolutely anyone, if you are in need of the latest, up to date news going on with the COVID-19 virus, then there is no need to look further than here. If you’re on the go, a constantly moving business professional, someone with little time to flick on the news, we have it all here in one convenient location for you. What makes us unique from other sources are our list of functions listed below:

- Encrypted Login and Registration: In order to access some of the features on our site you will need to login and/or register. We take pride in our system as your information is stored in a secure database to which no one outside of product developers. You can be sure that your information is safe while you get up to date on COVID-19.
- Article Updating List/ Easy User Interface: The home page of our website includes a user friendly table that effectively shows the important things such as the headline, date, and most recent comments. With this kind of layout you will be able to easily identify the

articles and news that have direct interest to you, without unnecessary website clutter in the way.

- Live Comment/ Chat room: This is what really sets us apart from other news sources. On our website you have the ability to comment what you feel on any article that you read from our site, allowing for quick communication or discovery of like minded-individuals with your same questions and concerns. This is what gives us, and you (the consumer) a community feel to connect to.

The Product Home URL: [https://lamp.cse.fau.edu/~cen4010s2020\\_g14/index.html](https://lamp.cse.fau.edu/~cen4010s2020_g14/index.html)

## **2.3 Usability Test Plan:**

### **A) Test Objectives:**

- Scope: The scope, or what we will be using for testing, is the function that makes our product a community, the chat room. This function serves as our main attraction, as it separates us from other news archives.
- Purpose: The chat room function being fully operational is critical to building our community and having a product that will make consumers feel enlightened. We want to make sure that consumers can see their comment in real time, allowing them to effectively communicate amongst each other. We also want to ensure that there are no bugs or issues that occur during the process of uploading a comment.

### **B) Test Plan:**

- System Setup: The system for the test will be set up in a way that our testers will not have to login to use our function. This is contrary to the final product in which

some features will not be accessible without a login, but in order to streamline testing and allow easier access, we have it set for no login requirement for right now.

- Starting Point: The starting URL for the test will take you directly to the screen that a normal user would see if they had clicked on an article to comment on and were already logged in. This ensures that you will be starting directly at what needs to be tested.
- Task to be Accomplished: As the user is looking at their “Starting point” screen which serves as the normal chat room screen, you should click on the “Go To Website” button at the top. This will redirect you to the article website and allow you to quickly skim or read the chosen article (approx. 2-5 mins). Afterwards you should click on the “Back button” to come back to our site, then you should click on the comment box shown and type anything that you wish to comment. Once the comment has been written, you should click “Comment”, and see that your comment pops up on the screen in real time, next to your temporary user name. (Temporary user name given as no login is required for this test.)
- Intended user: This site will be tested by everyone on the development team as well as the professor or TA. This will amount to about 4-6 total tests of this function.
- Completion Criteria: We are looking for three things. The first is that the user will be redirected to the article site when they click “Go to Website.” Next is that the user is able to type into the comment box and submit that comment by clicking

“Comment.” Finally we are seeking to ensure that users' comments pop up in real time and are displayed alongside their username.

- URL of system to be tested:

[https://lamp.cse.fau.edu/~cen4010s2020\\_g14/articles.php](https://lamp.cse.fau.edu/~cen4010s2020_g14/articles.php)

### **C) Likert-Scale Questionnaire:**

1. Strongly Disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly Agree

- You were able to have easy access back and forth between the article website and The Covid Cove website.
- You were able to insert text into the chat box with no input delay or other issues that hindered your text.
- You were able to successfully see your uploaded comment and name alongside it, in real time.

## **2.4 QA Test Plan**

### **1) Test Objectives**

- a) The user will be able to post a comment to the comment feed under the article to express their opinion on the article. The comment will display permanently on the feed for all other users visiting that page to see what the thoughts on said article was. This interaction will create a community within the Covid Cove.

### **2) Hardware and Software set up**

- a) We created the comment feature we'll be testing using PHP and connected it to our SQL database to keep track of the comments and the users leaving them (testers will be anonymous users for testing purposes).

### 3) Feature to be tested

- a) We will be testing the comments box feature. The user will select the article to leave a comment on. The comment will be typed in the comment box and automatically posted up to the comment feed once the user hits the "Comment" button. The comment will now appear under the article with the user's chosen user name displayed next to the comment, along with other comments left under the article by other users.

Test #	Title	Description	Input	Expected Correct Output	Test Results
1	Chrome	When a comment was submitted to feed, the comment was displayed onto the feed but was missing a randomly generated username alongside the comment.	"Wow 16.4 million is a lot!"	"Wow 16.4 million is a lot!" - user922	FAIL

2	Chrome	When a comment was submitted to feed, the comment was displayed onto the feed with a randomly generated username underneath the comment	“I wish everyone would wear a mask!”	“I wish everyone would wear a mask!” - user985  In the same row as the user name and under user922 comment	FAIL
3	Chrome	When a comment was submitted to feed, the comment was displayed onto the feed with a randomly generated username alongside the comment instead of underneath. And underneath the previous comment. A visually pleasing comments section	“I can’t wait for this to be over.”	“I can’t wait for this to be over.” - user452  In the same row as the user name and under user985 comment	PASS

4	Safari	When a comment was submitted to feed, the comment was displayed onto the feed with a randomly generated username alongside the comment instead of underneath. And underneath the previous comment. A visually pleasing comments section	“I wonder when this vaccine will become available.”	“I wonder when this vaccine will become available.” - user563  In the same row as the user name and under user452 comment.	PASS
5	Internet Explorer	When a comment was submitted to feed, the comment was displayed onto the feed with a randomly generated username alongside the comment instead of underneath. And underneath the previous comment. A visually pleasing comments section	“This is some thorough information!”	“This is some thorough information!” - user644  In the same row as the user name and under user563 comment.	PASS

Test comments have been removed for consumer purposes.

## 2.5 Code review



Our coding style is all based on simplicity. We try to start with each function in its base form, then slowly build off of those and excessively test as we go and after each little change. This way by not making anyone one function so much more complicated shown below is our code for the chat room function.

```
<?php
```

```
date_default_timezone_set('America/New_York');
```

```
include 'conn.php';
```

```
include 'Messages.php';
```

```
?>
```

```
<?php
```

```
// Zain- This looks great! But don't forget to make sure that these will show in real time for  
testing
```

```
function setComments($conn) {
```

```
    if(isset($_POST['commentSubmit']))
```

```
    {
```

```
        $date = $_POST['date'];
```

```
        $message = $_POST['message'];
```

```
        $sql = "INSERT INTO comments (date, message) VALUES ('$date', '$message')";
```

```
        $result = $conn->query($sql);
```

```
    }
```

```
}
```

//Sam- I checked this out and it prints out all comments, there is also nothing causing it to appear off center anymore.

```
function getComments($conn) {  
    $sql = "SELECT * FROM comments";  
    $result = $conn->query($sql);  
    while ($row = $result->fetch_assoc()){  
        echo $row['message']."<br><br>";  
    }  
}
```

- 1) For the code shown above, a member of the developer team “Adam,” sent another member of the developer team “Zain,” this over email.
- 2) Zain performed the developer review in which the issues with incorrect spacing and usernames not showing up were corrected.
- 3) Sam and Zain both added comments into the updated code after corrections were confirmed, confirming there were no errors and no other changes that needed to be made.
- 4) The comments that were included after the changes are shown in the code above, and are listed as so:
  - // Zain- This looks great! But don't forget to make sure that these will show in real time for
  - //Sam- I checked this out and it prints out all comments, there is also nothing causing it to appear off center anymore.

The email that Zain sent to adam is shown here:

Hey Adam,

This looks great! When I did recode and testing though I found that the user names don't pop up, let's work together to fix that if you want to call me, because that will be super important to build up our community! Outside of that it looks like everything we need is there.

- Zain, the most anime lovein of them all

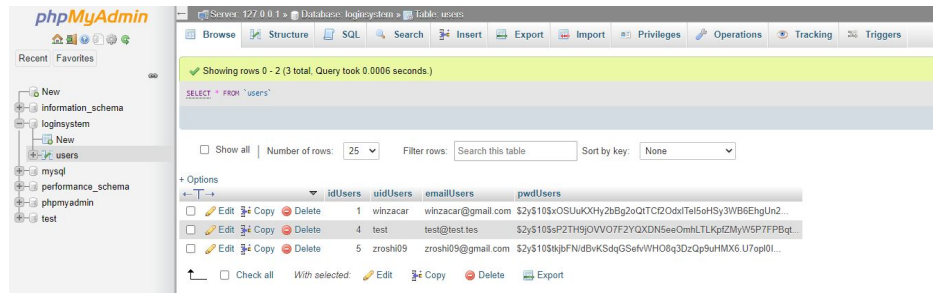
## **2.6 Self-Check on best practices for security**

### **1) List major assets you are protecting**

- a) We strive to protect the confidentiality of the Covid Cove users. This includes securely keeping their email and encrypted password saved within our system. Our site avoids vulnerability by requiring the user's password to be a minimum of 8 characters long and must contain one capital letter, special character, and number. The integrity of our site is also important to protect. All articles posted on the Covid Cove have been fact checked for reliability prior to posting.

### **2) Confirm that you encrypt the password in the DB**

- a) Here you can see passwords created by users have been hashed. You can see the email, but the password has been encrypted.



### 3) Confirm Input data validation

- a) When users of our site, the Covid Cove, register for accounts, the password they choose and enter in our registration form is validated.

```

else{
    $hashPassword = password_hash($password, PASSWORD_DEFAULT);
    mysqli_stmt_bind_param($stmt, "sss", $username, $email, $hashPassword);
    mysqli_stmt_execute($stmt);
    header("Location: ../log.php?signup=success");
    exit();
}

```

#### 2.7. List of non-functional requirements:

- **DONE Performance:** Seamlessly, The Covid Cove is available 24 hours 7 days a week, where the landing/home page can support 3,000 users per hour with no more than a downtime of 5 seconds, including the rendering of text and article image previews.
- **DONE Usability:** Site will be user friendly with clear, straightforward navigation for anyone to access and use The Covid Cove with minimal user errors. Main user error would be entering the wrong login information. No training required to use.
- **DONE Accessibility:** Articles will be accessible to those on The Covid Cove, comment/chat feature only accessible when signed into a user account.

- **DONE Expected load:** Minimal, users mostly accessing The Covid Cove to read articles and some users leaving comments and up/downvoting articles.
- **DONE Security Requirements:** Users can login to their account with a username and a password of minimum 8 characters long and must contain one capital letter, special character, and number. Option to create an account with username, password as previously stated, and valid email address.
- **DONE Storage ability:** Average website has about 150MB of storage so we are going for the same.

Video Demo Of Main Function: <https://www.youtube.com/watch?v=M7GC51eP7I8>