

CEN 4010 Principles of Software Engineering

Fall 2021

Milestone 4: Beta Launch and Reviews

Vertical Software Prototype

Team G6 - Socialbuzz

Team Number: 6

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History Table:

09/25/2021	Initial Proposal
10/25/2021	Milestone 3 update
11/15/2021	Milestone 4 beta launch

Project Summary:

1) Name of Product: Socialbuzz

2) Major Committed Functions:

- Our website has a login and sign-up system in order to enter the site.
- Users are able to add profile photos, change their nickname, and add a short biography about themselves. (Implemented in beta)
- The ability to follow and unfollow other users. (Implemented in beta)
- The ability to upvote posts that you like. (In progress)
- The users you follow will have their posts prioritized in the Social tab. (In progress)
- Buzz tab featuring news and updates about Covid and social activities and events. (In progress)
- Search feature where you can look up users as well as key word posts. (In progress, only user search implemented in beta)

3) Unique Features: Socialbuzz provides a quick and easy way to keep up with friends and news through it's Social and Buzz tabs in a simple streamlined way that avoids clutter.

4) URL to website: <https://cen4010fa21g6.000webhostapp.com/index.php>

YouTube demo: https://youtu.be/7J_X25-r7oI

Usability Test Plan:

- ### 1) Test Objectives:
- Ease of use is one of our key commitments with this project. The objective of this usability test plan is to check the usability of the Socialbuzz website “post” function which allows users to post messages on the website. We want to look into if users are able to complete the task intuitively and smoothly without any assistance or prior knowledge of the website. We want to look into how users feel about the amount of time it takes for the task to be completed, as well as the level of user satisfaction upon completing the task. This will give us a good idea on if there is any room for improvement.

2) Test Plan:

- **System Setup:** The Socialbuzz website is set up on the FAU lamp server and can be accessed through the URL linked below. The usability test is done remotely, and an observer is not required.
- **Starting Point:** The test begins as soon as the user enters the website URL. Users will be greeted by a login/sign up page where they can begin the test. This test assumes the player has never entered the website before.
- **Tasks to be Accomplished:** The users completing the test must sign up a new account on the website. Upon logging in, the users are tasked with navigating to their profile page and then to post a message there.
- **Intended User:** This test is technically limited to classmates and instructors. However, they are welcome to approach friends with it if they chose to.
- **Completion Criteria:** The test is considered complete when the user successfully posts a message on their profile page and completes the questionnaire below.
- **URL:** <https://cen4010fa21g6.000webhostapp.com/index.php>

3) Questionnaire Form:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
The test was completely easily and felt intuitive.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Completing the test did not take too much time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall, posting a message on Socialbuzz felt satisfying.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Addition Comments					

QA Test Plan:

- 1) **Test Objectives:** It is very important to us that our software works as intended and is delivered to a high bar of quality standard. The objective of this QA test plan is to check the functionality of the Socialbuzz website “post” function which allows users to post messages on the website. Users are requested to exhaustively test this functionality for defects or unexpected results that may occur and attempt to realize the source of these unexpected results and why they are happening. We are looking to test the “post” function for defects and consistency on several web browsers, as well as on both PC setups and on smartphones. This will allow us to further satisfy our non-functional requirement to have the website working properly on different browsers.
- 2) **Hardware and Software Setup:** As stated above, The QA test is planned to be conducted on both larger PC setups and on smartphones in order to accommodate that our software works on widely varying screen sizes. We will use a 15-inch screen Laptop for the former, and a OnePlus7 smartphone with an Android operating system for the latter. Additionally, we will also be testing on two different web browsers in order to further check for consistency. The two browsers will be Google Chrome and Mozilla Firefox, as well as the mobile application of Google Chrome.
- 3) **Feature to be Tested:** As with our usability test, we will also be focusing on the “post” feature for this QA test. Unlike the usability test however, the feature is to be tested extensively for any sort of bugs or inconsistencies across the hardware and software listed above. The goal is to be able to post messages and have them properly show up on the users profile page and on the Social page of the user and others who follow them without any errors occurring.

On the next page will show results of actual QA test cases we have conducted.

Actual Test Cases:

Test #	Test Title	Test Description	Test Input	Expected Correct Output	Test Results
1	Firefox PC test	Conducted on laptop using Firefox. Test that posts show up Social page.	Click profile tab, Type message, click post, click Social tab.	Posts show up on user's Social page and other users that follow them	PASS
2	Chrome PC test	Conducted on laptop using Chrome. Test that posts show up on user's profile page.	Click profile tab, Type message, click post.	Posts show up on the user's profile page and not on other user's profiles.	PASS
3	Chrome Mobile test	Conducted on mobile using Chrome app. Test that posts show up on user's profile page.	Click profile tab, Type message, click post.	Posts show up on the user's profile page and not on other user's profiles.	PASS

Code Review:

We are using a layered objected oriented php coding style

Peer Review:

“Overall this approach is good, with a few adjustments. There are a few more functions we will need. We can take a similar approach for other classes like ‘Follow’.

```
class Post extends User {
    protected $pdo;
    public function postsuser($user_id) {
        $stmt = $this->connect()->prepare("SELECT * from `postdata`
        WHERE user_id = :user_id
        ORDER BY post_on DESC");
        $stmt->bindParam(":user_id", $user_id, PDO::PARAM_STR);
        $stmt->execute();
        return $stmt->fetchAll(PDO::FETCH_OBJ);
    }
    // For the Social page, we will need a function that takes posts from users
    you have followed using the follow database
    // Also for the Buzz page, we will need a function that takes posts from the
    Admin only

    public function mediaposts($user_id) {
        $stmt = $this->connect()->prepare("SELECT * from `postdata`
        WHERE id IN (SELECT post_id from `posts` WHERE user_id = :user_id AND img
is not null)
        ORDER BY post_on DESC");
        $stmt->bindParam(":user_id", $user_id, PDO::PARAM_STR);
        $stmt->execute();
        return $stmt->fetchAll(PDO::FETCH_OBJ);
    }

    public function ispost($post_id){
        $stmt = $this->connect()->prepare("SELECT * FROM `posts`
        WHERE `post_id` = :post_id");
        $stmt->bindParam(":post_id", $post_id, PDO::PARAM_INT);
        $stmt->execute();
        if ($stmt->rowCount() > 0)
            return true; // add an "else return false" here
        }
    //It makes more sense to have these be static functions and using self::
    instead of $this->
```

```
//Add function to get timestamps for posts (how long ago they were posted)
using strtotime() function
//Don't put exact numbers, but instead assign variables and return "1 minute
ago" or "1 week ago".
}
```

Self-check on best practices for security:

- 1) Protecting users' passwords through encryption and keeping their email private not visible to others on the website. Images are locally on our group's FAU lamp server and not on the Database. No private information is required to sign up to the website.
- 2) Passwords are securely encrypted in the Database.
- 3) Search bar input is being validated through the 'type' attribute field set to text, as well as using an Ajax live search lookup functionality.

Self-check: Adherence to original Non-functional specs:

- 1) The application should run on two latest versions of all major web browsers:
Mozilla, Safari, Chrome, IE, Firefox etc. (On Track)
- 2) Data shall be stored in the database on the server. (Done)
- 3) Privacy of users shall be protected, and all privacy policies will be appropriately communicated to the users. (On Track)
- 4) The language used shall be English. (Done)
- 5) Site shall be very easy to use, intuitive (e.g. no prior training required) (Done)
- 6) Site shall be attractive and media rich in appearance. (On Track)
- 7) Security of the site shall require users to register and login (students to decide what functions require registration and login) (Done)
- 8) Effort shall be made to make the site easily searchable by major search engines. (On Track)