CEN 4010 Principles of Software Engineering

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Milestone 4 Beta Launch and Reviews

LikU:

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# **Product Summary**

# **Usability Test Plan**

# **QA Test Plan**

## **Test Objectives**

The objectives of this QA Test Plan is to ensure that all functionality meets the necessary requirements and to reveal any potential defects or issues with any feature. The QA Test also wants to ensure that using the application features will not cause any negative impact upon user usability. While user usability remains a focus, this test specifically tests if application use somehow affects or changes user usability not the overall usability level of the application. In order to achieve these objectives, the test will do the following:

* Using various types of input to catch potential defects
* Stress testing functionality by send multiple requests
* Repeating the same input and functionality to test functionality integrity

## **Hardware Setup**

The only hardware requirements needed to test the LikU system is any device that can access both Google Chrome and Mozilla Firefox and maintain a stable internet connection. This device can range from a desktop computer to a laptop to a hand held device like a smart phone or tablet.

## **Software Setup**

The only software setup required is to download Google Chrome and Mozilla Firefox if your testing device does not already have them. If your device does not have these two browsers installed, use any browser on your device to download and install them. From here, the software is testable through the group 7 LAMP server - <https://lamp.cse.fau.edu/~cen4010_fa21_g07/> . If for whatever reason this link is no longer working or if testing broke the application this link can be used as an emergency backup - <https://lamp.cse.fau.edu/~lschuknecht2016/>.

## **Features to Test**

This QA Test Plan tests four main features:

* Login/Register
* Posting
* 3 Like System
* Profile editing

In order to test Login and Register, multiple accounts will be created using various inputs for username, password, first name, last name. Using these newly created accounts, the tester will attempt to login. If this fails the tester can login using these credentials to test other features:

Username – TestUser

Password – Test1234

Posting involves selecting an image to upload then adding a caption to this image. The 3 like system has 3 components, 1st Like, 2nd Like, and 3rd Like. 1st liking a post gives it higher priority among posts posted within 24 hours. Meaning a higher liked post will appear first. It is important to note that currently there is no cap to how many times a single person can 1st Like any given image. A 2nd Like means that you wish to further prioritize a specific user’s posts. 2nd Liking an image means you will see that users posts before non 2nd Liked users’ posts. 2nd Liking an already liked user will un-2nd Like that user. 3rd Liking an image means you wish to repost that user’s image and caption. It is important to note that refreshing the main hub will cause your latest like to resend so instead of refreshing just reenter the current url or travel to a different page and travel back. Profile editing involves going to your profile and changing your related account information.

## **Test Cases**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test # | Test Title | Test Description | Test Input | Expected Output | Test Results  (Chrome) | Test Results  (Firefox) |
| 1 | Account Creation | Register a new account using traditional account detail | First – Not Luke  Last – Schuknecht  Username – TestUser  Password – Test1234 | Account will be create with no issue. | Passed | Passed |
| 2 | Account Creation | Register a new account using number and special character | First – 1234]  Last - =-086  Username - /.\][‘1  Password – zasd23432 | Account will be create with no issue. | Passed | Passed |
| 3 | Posting a png | Post an .png | Image – png  Caption – PNG Test | Post will be added to feed | Passed | Passed |
| 4 | Posting a jpg | Post a .jpg | Image – jpg  Caption – JPG Test | Post will be added to feed | Passed | Passed |
| 5 | Repeating 1st Like | Continue to press the 1st like button on any image uploaded in the past 24 hours | User input | Post will be pushed to the top of the feed | Passed | Passed |
| 6 | 2nd Liking a User | Press the 2nd like button on any post | User input | User’s posts will appear above any non 2nd Liked user | Passed | Passed |
| 7 | 3rd Like a Post | Press the 3rd like button on any post | User input | The currently logged in user will post the same image and caption as the liked post | Passed | Passed |

**Code Review**

# **Self-Check on Best Practices for Security**

# **Self-Check: Adherence to Original Non-Functional Specs**