TEST PLAN FOR

GROUP 8 - TWITTER

ChangeLog

Version	Change Date	By	Description
version number	Date of Change	Name of person who made changes	Description of the changes made
1.0	3/10/21	Lucian Murdock	Initial document edits
1.1	3/11/21	Brandon Ball	Testing sections
1.2	3/12/21	Kyle Dobbs	Review entire document
1.3	3/12/21	Natalie Albritton	Added bugs

1 Introduction

For this project we are using an autonomous build and release continuous integration service called Travis CI. During each feature added we first develop the requirements and acceptance criteria, that we can turn into automated testing requirements. We keep a bug log and prioritise fixing each bug depending on the state of the given sprint. Each feature is required to have clear documentation of what is needed to make testing as seemless as possible.

1.1 Scope

1.1.1 In-Scope

Feature	Description
Add Like	As a User I should be able to like another user's tweet.
Remove Like	As a user I should be able to remove a like from a tweet I previously liked
Create Tweet	As a user I want to be able to create a tweet and send it out across the network.
Register	As a user I would like to be able to fill out the registration form and create a new account on Twitter
Login	As a user I would like to input my login information and get signed into that account
Logout	As a user I would like to be signed out of my current session on the website.
Edit Account	As a user I would like to be able to click the "Settings" tab on my profile and edit any of my account settings
Add Follow	As a user I would like to be able to follow another user on the network
Remove Follow	As a user I would like to be able to unfollow another user on the network.
View Profile	As a user I would like to be able to view any given user's profile page and see all their tweets and history

1.1.2 Out-of-Scope

The additional features for our project that are assigned in sprint 4.

1.2 Quality Objective

We plan to ensure that our Twitter website remains functional and can handle all user interation tha that might be preformed on our website. We want to test to ensure that all functional and non functional requirements are met for our three core features, and other site enhancements. Testing will help to catch any bugs throughout our implementation, and ensure our website remains error free. We will use this test plan to implement our core Travis CI test cases, to identify and fix bugs before they go live at the end of the sprint.

1.3 Roles and Responsibilities

Name	Net ID	GitHub username	Role
Lucian Murdock	Lcm388	Lmurdock12	Leader, Developer, Tester
Brandon Ball	Bb2375	Bhball22	Developer, Tester
Natalie Albritton	Na602	Natalie2by4	Developer, Tester
Kyle Dobbs	Kd766	Kd766	Developer, Tester

2 Test Methodology

2.1 Overview

We are following the Agile methodology for our project.

2.2 Test Levels

With our Twitter application we have two main types of testing that needs to be executed:
- **Unit Testing:** Testing each individual component and feature as we commit through our automated testing on TravisCI
- **Integration Testing:** Testing multiple different features together. This includes things like testing both Tweets and Likes at the same time.

- **System Testing:** Testing the entire system as a whole with all of the integrated features. This means having users interact with the site and seeing what issues arise and what bugs can be found once all of the features are combined together.

2.3 Bug Triage

1. The like/unlike button gets moved to the incorrect position under certain tweets after clicking the like/unlike button. It needs to stay on the left hand side of a tweet no matter what.
2. Like button on profile page: When you click the like button on a tweet within a user's profile it should not redirect you to the homepage. Instead it should leave you on the same page.
3. When a none authenticated user clicks on any of the buttons they should be redirected to the login page.

2.4 Suspension Criteria and Resumption Requirements

If we find that 30% or core of our test cases failed on a given commit, then testing will be suspending until our development team can fix all the failed test cases. Once the cases our fixed our team can resume improving and adding new functionality to the Twitter website.

2.5 Test Completeness

Testing will be complete once the following is obtained:
- 100% test coverage across all features needing to be tested
- All test cases pass for our final build using Travis CI
- All obscure bugs have been documented and a timeline has been set for fixing these bugs
- No critical bugs are stopping the website from functioning

3 Test Deliverables

Here are the test deliverales that are required from us during this project:

- Test planing document (due Sprint 3)
- Continuous integration with test cases for all features (due Sprint 4)
- Acceptance Testing for every User Story (due Sprint 3&4)

4 Resource & Environment Needs

4.1 Testing Tools

- GitHub issues to track all bugs and feature progressions
- Travis CI service to run our build and unit testing after each commit
- GitHub to store our test scripts built in python

4.2 Test Environment

It mentions the minimum **hardware** requirements that will be used to test the Application.

Following **software's** are required in addition to client-specific software.

- Windows 10 or Linux
- Python 3.6 or above
- Django 3.1 or above

5 Terms/Acronyms

No special terms or acronyms were used in this test document.