Night's Watch

Software Design

CSCI-P465/565 (Software Engineering I)

Project Team

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1. Overview

This section provides an overview of the testing approach used to verify the software product.

1.1 Test Objectives

Testing approach used in testing the system should check for security vulnerabilities in the system, which might be improper technique to encrypt password, or incorrect transfer of data. Testing should identify the correctness of the overall output of the system, along with the restrictions on the system.

In Night's watch, testing approaches should point out the flaws in authentication, retrieval or posting of data, real time rendering mechanism, if there exists any.

1.2 Test Environment

The environment we explored and discussed for testing in Django was Unit test module built in to the python standard library. However, as the sprint-1 was limited, we did more of manual oriented testing.

Operating systems – Mac OS X, Windows 10 were used while testing.

Hosting options- We plan to host on IU Servers (SILO).

1.3 Test Personnel

Rahul Velayutham and Varun Machingal have been involved in the manual testing in this sprint.

1.4 Acceptance Criteria

Acceptance Criteria is to pass all the test cases mentioned in section 2.

2. Test Cases

The test cases are the partitioning of the verification of the software into manageable sections. Often these sections correspond to the set of active use case scenarios, but can be organized as the test developer sees fit. Test cases should be in place to cover all of the software verification methods. Even non-execution based testing methods (i.e., inspection/analysis) may be detailed here. The intent is for the test case procedures to provide a repeatable verification of the software specification.

For each test case describe the following:

- 1. Username registration:
 - a. Description:
 - In this test case, the test must be carried out to check for an already existing user. This is important to store data distinctively for distinct user.
 - b. Initial Condition:
 - The user should enter the data required in registering the user.
 - c. Input data to be tested: Username.
 - d. Procedure:
 - The SQL table is expected to give an error as a duplicate record is being added. Username should be a Unique key in SQL Database.

2. Password registration:

- a. Description:
 - In this test case, the password that is being registered must might certain criteria's. They are:
 - o Password cannot include username
 - o Password must be at least 8 characters long
 - o Password must include alphabets.

- 3. Username check at login:
 - a. Description:
 - In this test case, the test must be carried out to check the validity of the user.
 - b. Acceptance criteria:
 - The username should match a username present in the database thus indicating validity of user.
- 4. Password check at login:
 - a. Description:
 - In this test case, the password is to be checked. The password should match the password associated with the username in the database.
 - b. Acceptance criteria:
 - The password should be encrypted and decrypted to check for correct password, if the password doesn't exactly match, it should throw an incorrect password/username error.

Revision History

Revision	Date	Change Description
Test Cases for Authentication	10/01/2017	Manual Testing was done for
		sprint 1.

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