Lab 3 - Prototype Test Plan

Team Copper

CS411W - Professional Workforce Development II

Old Dominion University

Professor T. Kennedy

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Version 1
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1. Objectives

This test plan will be used to develop testing for University Friend Finder prototype. The test procedures are used to verify University Friend Finder tests and will demonstrate the prototype.

2. References

Team Copper. (2020, February 21). Lab 1-University Friend Finder Description
Retrieved February 21, 2020 from https://www.cs.odu.edu/~411copper/

Team Copper. (2020, February 21). Lab 2-University Friend Finder Specification
Retrieved February 21, 2020 from https://www.cs.odu.edu/~411copper/

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4. Test Procedures

Section four of this document will describe the test cases that will be used for the University Friend Finder prototype. Each test case will be from the SRS requirements. The result of each test will be listed in the traceability matrix in section five.

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Test Category: Unit Test

Test Case: 4.1.1

Case Name: Account Creation

Description: Verify account creation capabilities for potential users on account creation page.

Purpose: To enable users to have the ability to create an account for use with University Friend Finder.

Written by: Caden Conner

Version: 1.1

Contributing Authors:

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<th>✔ Matthew Fulford</th>
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Requirement Fulfilled: 3.1.1.3.1 - 3.1.1.3.5

Setup Conditions:

- Obtain requirements document.
- Open a web browser.
- Navigate to the application landing page.

Test Case Activity:

Test Case 1: On the application landing page, click the ‘Sign Up’ text at the top of the web page.

Expected Result: The user is taken to the account creation page.

Test Case 2: Enter a non-edu email into the email address field and fill out the rest of fields to satisfy requirements.
**Expected Result:** User is redirected back to Sign Up page and displayed error that email must be edu.

**Test Case 3:** Enter an incorrect password for requirement 3.1.1.4 and fill out the rest of fields to satisfy requirements.

**Expected Result:** User is redirected back to the Sign Up page and displayed error that password does not fit criteria and what those criteria are.

**Test Case 4:** Enter an edu email address, information to satisfy requirement 3.1.1.2 and a password to satisfy requirement 3.1.1.4.

**Expected Result:** User is directed to login page and displayed message verification has been sent to edu email address.

**Test Case 5:** User navigates to edu email address used and clicks verification method used in application email.

**Expected Result:** User is directed to login page and displayed message that account was successfully created.

**Test Case 6:** Repeat test case 4 with same information.

**Expected Result:** User is redirected to Sign Up page and displayed error that an account with that information already exists.

[This space intentionally left blank]
Test Category: Unit Test

Test Case: 4.1.2

Case Name: Matching

Description: Verify University Friend Finder capabilities on matching page.

Purpose: To verify University Friend Finder users can view potential matches and either accept or deny those matches.

Written by: Kira DeGraw

Version: 1.1

Contributing Authors:

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Requirement Fulfilled: 3.1.2.3.1 - 3.1.2.3.4

Setup Conditions:

- Obtain requirements document.
- Open web browser.
- Navigate to application landing page
- Login using a valid email address and password.

Test Case Activity:

Test Case 1: Navigate to UFF 'Matches' page.

Expected result: UFF's matches page appears with potential matches shown.

Test Case 2: Click on current match shown.
**Expected result:** User will be shown more information about the potential match including short biography, major, and classes if listed.

**Test Case 3:** Swipe left on the current match shown.

**Expected result:** The previous match will 'swipe' off the screen and the next potential match will appear.

**Test Case 4:** Swipe right on the current match shown.

**Expected result:** The previous match will 'swipe' off the screen and the next potential match will appear. If the previous potential match also matched with the user, then the user will see a message box saying that the users have matched.

**Test Case 5:** Swipe right on the current match shown.

**Expected result:** The list will refresh until there are no more potential matches and the user will see a message to check back soon for more potential matches.
Test Category: Unit Test

Test Case: 4.1.3

Case Name: Messaging

Description: To make sure students will be able to send messages for communication.

Purpose: To make sure students will be able to use messaging in application

Written by: Duy Khang Nguyen

Version: 1.1

Contributing Authors:

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Requirement Fulfilled: 3.1.3.3.1 - 3.1.3.3.4

Setup Conditions:

- Able to messaging within the application
- Able to select users to send messages
- Able to send and receive messages
- Able to delete and report messages
- Able to view message history

Test Case Activity:

Test Case 1: Choose and use the messaging tool

Expected Result: Users must be able to tap on the message icon and the messaging tool should appear.
Test Case 2: Exit the messaging tool

Expected Result: The messaging tools should quit and bring the user back to main Menu after hitting close(X) button

Test Case 3: Choose a user to start messaging

Expected Result: User can tap on another user to start messaging. A new screen should pop up to start a conversation.

Test Case 4: Able to receive and send messages

Expected Result: The two users who are messaging each other should see sent and received messages from each other.

Test Case 5: Tap their fingers on a message to report

Expected Result: When a user taps on a message within the conversation, a small option should pop up for reporting.
Test Category: Unit Test

Test Case: 4.1.4

Case Name: Student Profile

Description: This test will verify that students are able to create their profile pages.

Purpose: Creating and updating a profile.

Written by: Mimi Ho

Version: 1.1

Contributing Authors:

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Requirement Fulfilled: 3.1.4.3.1 - 3.1.4.3.5

Setup Conditions:

1. Be able to list their hobbies, classes, majors, and minors.
2. Be able to edit their profile photos.
3. Be able to list their name, university and age located in their profiles.
4. Be able to post their profile photos.

Test Case Activity:

Test case 1: Navigate to application, then log into their accounts.

Expected result: UFF’s login page appears.

Test case 2: Click “About” on a new account.
**Expected result:** The page will be asking for students’ information such as hobbies, classes, majors and minors.

**Test case 3:** Click “Edit profile” under the “About” section.

**Expected result:** Students will be able to edit their information.

**Test case 4:** Click “Your name” in the top left and hover over on your profile picture then click “Update”.

**Expected result:** Students will be able to upload a photo from their computers.
Test Category: Unit Test

Test Case: 4.1.5

Case Name: Content Reporting

Description: This test will verify that users are able to report other users for inappropriate content.

Purpose: Users who were reported will be notified by email of their inappropriate actions and their corresponding consequences.

Written by: Matthew Fulford

Version: 1.1

Contributing Authors:

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Requirement Fulfilled: 3.1.5.3.1 - 3.1.5.3.4

Setup Conditions:

1. Obtain documents requirement
2. Open web browser
3. Login to University Friend Finder
4. View other student’s profiles.

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Test Case Activity:

Test Case 1: Determine if user1 has found anything inappropriate on user2 profile.

Expected Result: If user1 finds anything inappropriate on user2 profile. They must enter information about user2 that they would consider to be inappropriate.

Test Case 2: Upon entering information about user2 profile. User1 will be able to submit the information and be notified that the report is submitted.

Expected Result: User1 must be able to submit any information they report to be inappropriate. Once user1 has submitted the information they must be notified that their report has been made.

Test Case 3: User1 can report multiple profiles for inappropriate behavior.

Expected Result: User1 must report any profiles for inappropriate behavior they find on University Friend Finder. User1 can go through task 1 and 2 to report any profile that is inappropriate.
Test Category: Unit Test

Test Case: 4.1.6

Case Name: Student Organizations Recommendations Simulation

Description: This test will verify that it will show recommendations of students organizations which will be a simulation.

Purpose: The student organizations recommendations will be a simulation and will give students a list of student organizations recommendations they can view or join.

Written by: Matthew Fulford

Version: 1.1

Contributing Authors:

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Requirement Fulfilled: 3.1.6.3.1-3.1.6.3.3

Setup Conditions:

1. Obtain documents required.
2. Open web browser.
3. Login to University Friend Finder.
4. Navigate to Student Organizations.

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Test Case Activity:

Test Case 1: The users look at a list of student organization profile recommendations.

Expected Results: The users must be able to view a list of student organization profile recommendations in University Friend Finder.

Test Case 2: The users can refresh a list of recommended student organization profiles.

Expected Results: The users must be able to refresh a new list of recommended student organizations profiles in University Friend Finder.

Test Case 3: The users can view a student organization’s profile.

Expected Results: The users must be able to view an individual profile from the list of recommended student organizations profiles in University Friend Finder.
Test Category: Performance

Test Case: 4.2

Case Name: Load Testing

Description: User performance mocking

Purpose: Verify application performance with target number of users and identify outlier page responses for optimization.

Written by: Michael Wade

Version: 1.1

Contributing Authors:

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Requirement Fulfilled: 3.2

Setup Conditions: Installation of the django-silk, djangohttpbench, and faker packages.

Test Case Activity: Faker models will be made for the user class, then 10,000 will be generated to fulfil requirement 3.2.3. Djangohttpbench will be used to generate load testing, (requirements 3.2.2.1 and 3.2.2.2). Silk’s inspection and profiling tools will be used to identify any requests that are outside of the 4 second response time, (requirement 3.2.1.2) which shall then be targeted for optimization.
5. Traceability to Requirement

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