

Research Mate

Software Test Plan

CSCI-P465/565 (Software Engineering I)

Project Team

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1. Overview

1.1 Test Objectives

In sprint one, we develop login module of ResearchMate, and we host it on silo.soic.indiana.edu. This test is to test the functionality of the login module, to check it's working or not.

Unit Test of ResearchMate:

1. Create an account;
2. Verify the email address;
3. Login the account;
4. Log off from the account.

1.2 Test Environment

We are using 3 operating systems to do the testing which are as following:

1. Windows 10 64bit;
2. Ubuntu 64bit;

3. OS-X 64bit;

All use Chrome browser to connect to the web application we have developed. Furthermore, as a requirement this project must be hosted on silo server provided by SICE, hence it is hosted from the account of Jayendra Khandare.

1.3 Test Personnel

1. Gulshan Madhwani using Windows 10 64bit with Chrome;
2. Jayendra Khandare using Ubuntu 64bit with Chrome;
3. Shubham Basu using Windows 10 64bit with Chrome;
4. Xinquan Wu using OS-X 64bit with Chrome.

At this moment, we have finished with connectivity issues which we had when sending a mail through Gmail. For that, we created an account in gmail with se.researchmate as username.

1.4 Acceptance Criteria

Successfully creating an account, receiving an email to verify the email address, and logging in with the account. Only getting through all these steps that will be consider acceptable. All group members carry out the tests separately.

A complete module of the project will be satisfying if the data provided by the user is accepted and stored at in MongoDB database hosted at the server(silo.soic.indiana.edu).

1.5 Noted Omissions

Changing user profile will not be tested now. In this sprint, we have only developed 'register' and 'login' module.

2. Test Cases

Number: 001

Name: Checking support provided by silo server

Description: This test includes checking whether silo server system supports the tools required for MEAN stack development.

Initial Conditions: No prior test case is needed for this test.

Input Data: Student username and passphrase for accessing any system of IU.

Specifications:

1. **Get access to a silo account.**
2. **Check whether it has MongoDB support.**
3. **Check whether it has Node.js support.**
4. **Check whether it has NPM package manager support.**

Procedure: We used Jayendra Khandare's account to access silo/burrow and do the necessary testing. The testing includes running some basic bash commands like

- **mongod --version**
- **npm --version**
- **node --version**

Number: 002

Name: Hosting the server code on silo

Description: For this test, we had to develop some basic server code using node and run on silo. After that, we had to manage some connectivity issues since 'mongod', which is server for mongodb doesn't give enough rights to students.

Initial Conditions: The access to silo is required for this test. The access is given by default to all students of SICE.

Input Data: server application to be hosted on silo

Specifications:

1. **Start an instance of mongod through student account.**
2. **Run the server code developed by the team.**

Procedure: Whenever you run a server on silo, you must reserve a port for your website. This procedure is done through the server code. For this project, we chose 23456 as the port. Hence, the address becomes <http://silo.soic.indiana.edu:23456>. As the server code is not running all the time, the availability of this address is ambiguous.

Number: 003

Name: Register & Login test

Description: Create an account, receive an email to verify the email address and account, login with the account created, log out with the account.

Initial Conditions: Satisfying test number 002.

Input Data: First name, Last name, User name, Email address.

Specifications:

1. Create an account;
2. Receive an email from se.researchmate@gmail.com with a link to verify the email address;
3. Login with the account;
4. Log out with the account.

Procedure: The link cannot be provided as we are hosting the project at silo server and don't have any idea how to perform the tests on this environment. We have contacted IU knowledge base regarding this. They will provide us with a definite answer in the next week.

Revision History

Revision	Date	Change Description
Sprint 1	10/01/2017	Test plan for sprint 1: login and sign up module