

Software Engineering Semester 3

Test plan

Online Yearbook

June 2021

Spartex

Date:16/04/2021
Version:1.0
State: Complete
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Version history

Version	Date	Author(s)	Changes	State
1.0	15/04/2021	Osuntuyi Michael	Document was made	Complete

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Introduction

This document formally describes the test plan for all functionality currently implemented for my online yearbook project Sioux. This is a systematic approach to testing the system. The plan typically contains a detailed understanding of what the eventual workflow will be and contains detailed testing information regarding the testing phase and test strategies.

End to End Test

This testing is done with the help of a third-party library namely cypress. End to end testing has enabled me to mimic an external/end user experience. For this test to be done all application resources are needed to be ran.

Backend Test

This test is done to ensure all functions/methods of a class work as intended, this has enabled me spot bugs quicker. The back-end tests include testing the service classes, model classes, Data access layer classes (with stub) and tests using Mockito.

Integration Test

This test is done/achieved by the connection of multiple parts in my application, this test will be mainly found in test regarding the service classes

Test Cases

The test cases will give an example/procedure of how the Online yearbook will be tested using the test data. More test cases will be shown during the final demo.

Abbreviations

- TC: Test case

ID	Name	Pre-condition	Test data	Expected result
TC-01	Logging into the website with proper credential and without single sign on	<p>The user does not already have a session</p> <p>The user has the provided database initializer file uploaded to their desired database host (e.g localhost phpmyadmin)</p> <p>Database name: onlineyearbookdb</p>	<p>Email: mikeltuyi@gmail.com</p> <p>Password: Mikoko@02</p>	The user is logged into the website and can now see navbar which leads to other pages in the web application hat he/she has access to

ID	Name	Pre-condition	Test data	Expected result
TC-02	Logging into the website with wrong credential and without single sign on	<p>The user does not already have a session</p> <p>The user has the provided database initializer file uploaded to their desired database host (e.g localhost phpmyadmin)</p> <p>Database name: onlineyearbookdb</p>	<p>Email: John123@gmail.com</p> <p>Password: test</p>	The user will be given an error message telling the user "Wrong credentials have been inputted" and the user will remain in the log in page

ID	Name	Pre-condition	Test data	Expected result
TC-03	Logging into the website as a guest	<p>The user does not already have a session</p> <p>The user has clicked on the viewer login button</p> <p>The user is a guest.</p>	None	The user will be redirected to the webapplication and can now see the navbar leading to other pages

TC-04	Adding a new graduating year	The user is logged in and has navigated to the Graduating year management page and the user has filled in all fields	Graduatingyear:2021	The graduating year has been added
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ID	Name	Pre-condition	Test data	Expected result
TC-05	Adding a graduating year that already exists	The user is logged in and has navigated to the Graduating year management page, the user previously added graduating year 2021 and the user has filled in all fields	Graduatingyear:2021	An error message comes up telling the admin this user already exists
TC-06	Viewing all signed up user info	The admin is logged in and has navigated to the viewing all user's page	None	The system should show a quick loading text to signify the data is being retrieved when the data is retrieved all signed up users, info are displayed in a table