

Automated Course Scheduling System

Planning: Master Test Plan

Test Scope

This test plan will test all the requirements for Automated Course Scheduling System release 1.0. This Master Plan covers unit, integration, and regression testing all performed by the software engineering team.

The current version of Master Plan will not include user acceptance and user certification testing which will be tested later after the system will be moved to production.

Test Features

<u>BR #</u>	<u>Feature</u>	<u>Responsible party or groups</u>
1	Import Course Information	Akhat Suleimenov, Dariga Shokayeva
2	Authorize Users	Madina Yeleukina, Dariga Shokayeva
3	Add Classes to Basket	Shyngys Karishev, Dariga Shokayeva
4	Remove Classes from Basket	Shyngys Karishev, Dariga Shokayeva
5	Search for Classes	Shyngys Karishev, Dariga Shokayeva
6	Create Schedules	Akhat Suleimenov, Shyngys Karishev
7	Display Schedules	Madina Yeleukina, Dariga Shokayeva

Test Inputs/Outputs

<u>Inputs</u>	<u>Outputs</u>
<i>System Requirement Specifications</i>	<i>Test Results</i>

Test Strategy

This is a description of the recommended testing approach for this project. This describes “how” the test items and features will be tested.

<u>Test Type</u>	<u>Description</u>	<u>Comment</u>
Unit Test	<i>This type tests all functionality of the features separately, without yet integrating them to one system.</i>	<i>This will be performed to test key features like Import Course Information, User Authorization, Search/Add Classes, Create Schedule.</i>
Integration Test	<i>This type tests all changed functionality end to end.</i>	<i>This will be performed after the completion of the Unit Test.</i>
User Acceptance Test	<i>Typically performed by Business User, this tests all changed functionality of a system from the end-user perspective.</i>	<i>This will be performed later.</i>
Regression Test	<i>This tests the entire system to ensure that any untouched functionality did not get adversely impacted by the project-related work.</i>	<i>This will be performed at the end.</i>
User Certification Test	<i>This test is performed after the solution has been moved to production to insure it has been moved successfully.</i>	<i>This will be performed later.</i>

Test Environment (tools, system, databases)

<u>Tools</u>	<u>Description</u>	<u>Version</u>
Microsoft Word	Word-processor software	16.46
Sublime Text	Text editor for code	3.2.2
Manual input	Manual entry of data onto screen or GUI	n/a
Google Chrome	Web browser	95.0.4638.54
Safari	Web browser	13.1.3
Github Pages	Site hosting service	3.9.0
<u>System</u>		
Local testing server	Testing system	In house

Test Roles and Responsibilities

This is a list of the testing roles and responsibilities.

<u>Resource</u>	<u>Role</u>	<u>Responsibility</u>
<i>Dariga Shokayeva</i>	<i>Test Manager</i>	<ul style="list-style-type: none">○ Provides technical direction.○ Acquires testing resources.○ Assigns tasks to testing resource○ Documents test plan○ Designs and executes test cases
<i>Akhat Suleimenov</i>	<i>Lead Tester and Test Designer</i>	<ul style="list-style-type: none">○ Documents test plan.○ Assigns tasks to testing resource○ Identifies, documents and prioritizes test cases.○ Evaluates effectiveness of test effort.
<i>Shyngys Karishev</i>	<i>Tester/ Test Designer</i>	<ul style="list-style-type: none">○ Designs, executes test cases, and documents test results.
<i>Madina Yeleukina</i>	<i>Tester/ Test Designer</i>	<ul style="list-style-type: none">○ Designs, executes test cases, and documents test results.

Test Milestones

This is a list of the critical test milestone dates. Be sure to include these dates in the overall project plan.

<u>Task</u>	<u>Milestone Date</u>
Setup Test Environment	25.11.2021
Complete Unit Testing	02.12.2021
Complete Integration Testing	04.12.2021
Complete Regression Testing	08.12.2021
Complete User Acceptance Testing	20.12.2021
Complete User Certification Testing	07.01.2022

Document Approval

The signatures below acknowledge that the test plan outlined above is complete and accurate. Upon receiving written approval, the project team will proceed to the next step of the project.

If anything changes during the execution of the project, the test plan will be updated and re-approved accordingly.

Approved by: Printed name	Approved by: Title	Approved By: Signature/Date
	Business Representative	
	IT Representative	

Document Tracking

Date	Action Taken	By Whom
24.11.2021	First version of the Master Plan is created	Dariga Shokayeva
06.12.2021	User Acceptance Testing is postponed	Dariga Shokayeva
07.12.2021	Reviewed and updated Master Plan	Madina Yeleukina
08.12.2021	Finalized the Master Plan	Akhat Suleimenov