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

|  |  |  |
| --- | --- | --- |
| ***BR #*** | ***Feature*** | ***Responsible party or groups*** |
| *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

|  |  |
| --- | --- |
| ***Inputs*** | ***Outputs*** |
| *System Requirement Specifications* | *Test Results* |

# 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.

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

# Test Environment (tools, system, databases)

|  |  |  |
| --- | --- | --- |
| ***Tools*** | ***Description*** | ***Version*** |
| 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 |
|  |  |  |
| ***System*** |  |  |
| Local testing server | Testing system | In house |
|  |  |  |

# Test Roles and Responsibilities

This is a list of the testing roles and responsibilities.

|  |  |  |  |
| --- | --- | --- | --- |
| ***Resource*** | ***Role*** | ***Responsibility*** | |
| *Dariga Shokayeva* | *Test Manager* |  | * *Provides technical direction.* * *Acquires testing resources.* * *Assigns tasks to testing resource* * *Documents test plan* * *Designs and executes test cases* |
| *Akhat Suleimenov* | *Lead Tester and Test Designer* | **  **  ** | * *Documents test plan.* * *Assigns tasks to testing resource* * *Identifies, documents and prioritizes test cases.* * *Evaluates effectiveness of test effort.* |
| *Shyngys Karishev* | *Tester/ Test Designer* |  | * *Designs, executes test cases, and documents test results.* |
| *Madina Yeleukina* | *Tester/ Test Designer* | **  ** | * *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.

|  |  |
| --- | --- |
| **Task** | **Milestone Date** |
| 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 |
|  |  |  |