**TEST PLAN**

Project Name: Scholar Management System

Test Engineer: Akhil

Date:05/12/22

Prepared by: Akhil

**1)Test Objective or Aim**

Theobjective of the test is to verify the functionalities of **”Add scholar, Show all Scholar, Get specific Scholar, Delete scholar, Update scholar, Exit works according to the specification.”**

**2) Scope of testing**  
   a) Within the scope features to be tested

|  |  |  |
| --- | --- | --- |
| Module | Application Roles | Description |
| Add Scholar | Manager | * Manager should able to Add Scholar. |
| Show all Scholar | Manager  Trainer | * Manager should able to View All Scholar. * Even the Trainer can view the Scholar. |
| Get specific Scholar | Manager  Trainer | * Manager should be able Details of specific Scholar. * Even the Trainer can able to get details of specific scholar. |
| Delete Scholar | Manager | * Manager can able to delete Scholar. |
| Update Scholar | Manager | * Manager can able to update the Scholar details. |

   b) Out of scope: These features are not be tested because they are not included in the software requirement specs

* Automation Testing
* Stress Testing
* Performance Testing

**3) Test Strategy  
  a*) Levels of testing***

* System Testing: Testing the system as a whole, including the front-end and back-end functionality.

1. **Types of testing**

* Functional Testing: Testing the functional requirements and features of the system.

*d) Configuration Management tool*

* GIT-Code Configuration Management

*e) Terminology*

* Test plan
* Test Scenarios
* Test Cases
* Defect Log
* RTM

**4) Exit and Entry criteria**

* Entry Criteria –
  + - * Test environment ready.
      * Build available for testing.
      * Test data ready to test execution.
      * Test scenarios and test cases are created.
* Exit Criteria –
* All the test cases are executed.
* Defect not are of low severity.
* Schedule didn’t get extended.

**5) Test deliverables**

|  |  |  |
| --- | --- | --- |
| **Before testing** | **During testing** | **After testing** |
| Test plan document | Test tool | Test results |
| Requirements document | Test data | Defect reports |
|  | RTM |  |

**6)Roles and Responsibility**

|  |  |  |
| --- | --- | --- |
| ROLES | Names | RESPONSIBILITIES |
| Test Engineer | Surya | Developed java code. |
| Preparing of Test Scenario, cases, defect log, RTM | Aishwarya, Vaishnavi | Writing and executing the test cases & report the defects also identify the test design techniques. |
| Prepare Test plan | Akhil | Preparing test plan. |

**7) Risks and mitigation**

* Meet outstanding prerequisites
* Redefine test data
* Review test plan and modify components (that is, scripts)
* Restore data and restart

**8)Schedule**

|  |  |  |
| --- | --- | --- |
| Task | Members | Estimate effort |
| Writing java code, database connection and database creation. | Surya, Akhil | 15 man-hours |
| Test plan | Akhil, Vaishnavi | 2 man-hour |
| Test scenario, test cases, defect log and RTM. | Aishwarya | 9 man-hour |
| Total |  | 26 man-hour |

**9) Test Environment**

* Database Server (MySQL Workbench) 8gb ram, 150gb hard disk, 3.2ghz.
* Java version “1.8.0\_341”.
* Eclipse IDE.

**10) Assumptions:** Exploratory Testing would be carried out once the build is ready for testing

* Performance testing is not considered for this estimation.
* Test case design activities will be performed by QA Group
* Test environment and preparation activities will be owned by Akhil Team
* Akhil team will provide Defect fix plans based on the Defect meetings during each cycle to plan.

**12) Approval Information**

**Project Manager**: reviews the content of the Test Plan, Test Strategy and Test Estimates signs off on it.

**Test Manager**: Reviews the test cases, test Conditions and Test data, test report.

The Names and Titles of all persons who must approve this plan.

**Signature**:

Name:

Role:

Date:  **13)Test Metrics**

* Passed test Cases Percentage: (no. of passed test cases/no. of test cases executed) \*100
* Failed test cases percentage: (no. of failed test cases/no. of test cases executed) \*100
* Fixed defect percentage: (defects fixed / defects reported) \*100
* Accepted defect percentage: no. of accepted defects/no. of defected reported) \*100
* Defects deferred percentage: (defects deferred/defects reported) \*100
* Critical Defects Percentage: (critical defects/total defects reported) \*100