

**Project plan**

**Trainer management system**

**BATCH 2 – GROUP 7**

**Project plan**



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# Overview

## Purpose

The purpose of this document is to define:

* The test scope, focus areas and objectives
* The test responsibilities
* The test schedule and major milestones
* The test deliverables

## Test Scenarios

The testing that will be performed by our team for the “**Trainer Management System**” project.

* + 1. **AUTOMATION TESTING PART**

|  |  |  |  |
| --- | --- | --- | --- |
| **Responsible person** | **Module** | **Testing Scenarios** | **Testing** |
| **Neethu** | **Trainer**  **Admin** | * **Home Page Links** * **Social Media Links in the Footer** * **Admin Logout** * **Trainer Login** | **Automation** |
| **Shyma** | **Trainer** | * **Look and Feel of Home Page** * **Sign up** * Name * Email * Phone * Address * Highest Qualification * Skill Set * Current Company Name * Current Designation * ICTAK Courses Handling (Dropdown) * Photo * ID (auto) * Send an Email notification to trainers with ID & Type of Employment | **Automation** |
| **Betsy** | **Admin** | * **Admin Login** * **Admin Approval / Reject**   Type of Employment- Internal, Empanelled, Industry Expert.   * **Allocate**   Search criteria   1. Name 2. Skill Set 3. Type of Trainer 4. ICTAK Courses | **Automation** |
| **Anu** | **Admin** | * **Allocate Trainer**   Allocate details   1. Start Date 2. End Date 3. Time 4. Course Name 5. Course ID - DSA, FSD, RPA 6. Batch ID - DSA001, DSA002 7. Meeting Link/Venue 8. Schedule - File Upload \* 9. Send an Email notification to Trainer  * **View Allocation** | **Automation** |
| **Megha** | **Trainer** | * **Trainer Information Window** * **Edit Trainer Profile** * **Trainer Logout** | **Automation** |

**1.2.2. MANUAL TESTING PART**

Some Test cases of few scenarios will be executed as Manual Testing.

|  |  |  |  |
| --- | --- | --- | --- |
| **Responsible Person** | **Module** | **Testing Scenarios** | **Testing** |
| **Neethu** | **Trainer**  **Admin** | * **Home Page Links – 2 cases** * **Admin Logout – 1 case** * **Trainer Login – 2 cases** | **Manual Only** |
| **Shyma** | **Trainer** | * **Look and Feel of Home Page – 4 cases** * **Sign up – 3 Cases** | **Manual Only** |
| **Betsy** | **Admin** | * **Admin Login – 2 cases** * **Admin Approval / Reject – 2 cases** * **Allocate – 1 case** | **Manual Only** |
| **Anu** | **Admin** | * **Allocate Trainer – 3 cases** | **Manual Only** |
| **Megha** | **Trainer** | * **Edit Trainer Profile – 5 cases** * **Trainer Logout – 2 cases** | **Manual Only** |

# Testing Summary

## Scope of Testing

### In scope

ICTAK Trainer Management System should enable the trainers to enroll in ICTAK Portal and thereby automatically generate the trainer profile. The Admin should be allowed to allocate the trainer to different courses and thereby block their calendars. The scope of the project includes testing the following features of ‘’ <https://trainermanagement.herokuapp.com/>” Web Application. There are two modules – Trainer Module and Admin Module.

**Trainer:**

* + - Home
    - Sign Up. - Enrolment of new Trainer
    - Login – Trainer login after Admin Approval
    - Trainer Profile – Can see and edit Trainer Profile
    - Trainer Allocation details – Can view Trainer Allocation which are allocated by Admin.
    - Log Out

**Admin:**

* + - Trainer Approval – Admin can approve and Reject a Trainer.
    - Search and Allocate – Search with different criterias and Allocate a Trainer.
    - Trainer Allocate Form – Admin has to fill the allocation details like Date, Training time etc.
    - View Allocate - Admin can view the current allocation of all Trainers.
    - Log Out

### Out of scope

* Email verification

# Test Strategy

*As per the Requirements specified in SRS Document, we understood that we need to perform “****Functional Testing****” of all the functionalities mentioned in the above Scope section. As part of Functional Testing, we will follow the below steps:*

1. **Understanding The Requirements:**

Requirement specification as per the SRS document given by ICTAK

Understanding of requirements will be done by each team member.

1. **Creation of Test Scenarios and Test Cases for the different features:**

We will apply several Test Designing techniques while creating Test Cases

o Equivalence Class Partition

o Boundary Value Analysis

We also use our expertise in creating Test Cases by applying the below:

o Error Guessing

o Exploratory Testing

We prioritise the Test Cases

1. **Creating Test Data:**

Test data will be created by team members based on the Trainer management System test site based on scenarios and Test cases.

1. **Executing Test Cases:**

• Test cases will be executed by each team member based on designed scenarios, test cases and Test data.

• Test result (Actual Result, Pass/Fail) will updated in test case document Defect

1. **Logging and Reporting:**

QA will be logging the defect/bugs in Excel documents, found during execution of test cases. After this, QA will inform the respective developer about the defect/bugs.

1. **Delivery and Deployment**

Once all bugs/defects reported after complete testing is fixed and no other bugs are found, a report will be deployed.

# Test Environments, Requirements & Tools

### 4.1. Test environment

Main Support level (browsers):

* Windows : Chrome, Firefox, Edge
* Mac OS X: Chrome, Firefox

### 4.2. Testing Requirements

Each person involved in testing will need the following access:

* A Web Browser with access to the internet
* Access to Microsoft Excel to raise defects.
* Access to testing tools like Selenium, Maven, TestNG, Jmeter etc.

## 4.3.Testing Tools

The following tools will be used for testing

|  |  |
| --- | --- |
| **Process** | **Tool** |
| Test Plan creation | Microsoft Word |
| Test Case creation | Microsoft Excel |
| Test case execution | Manual and Automation  (Jmeter, Selenium, Maven, TestNG) |
| Project Management | Jira and GitHub |
| Test case management | Microsoft Excel |
| Defect management | Microsoft Excel |
| Test reporting | PDF |
| Check list creating | Microsoft Excel |

# Test Environment Plan

## Test Environment Details

### Testers

* No: of Testers involved: 5
* Name:
  + Betsy Sebastian – POC
  + Shyma C V
  + Neethu P V
  + Megha R Nath
  + Anu V Nair

### Hardware and Firmware

* *Windows OS*
* *Mac OS*
* *Laptop or Desktop with minimum 4GB RAM*

### Software

* *Java JDK 16 (Java Development Kit)*
* *Eclipse/Any Java program development IDE*
* *Eclipse for Java Developers*
* *Selenium Server Standalone Jar File*
* *JMeter*
* *Drivers*
  + *Chrome Driver*
  + *Mozilla -GeckoDriver*
* *Web Browsers*
  + *Chrome*
  + *Firefox*

## Environment Roles and Responsibilities

*Define the roles and responsibilities of persons who will be responsible for, or interface with the environment*

|  |  |  |
| --- | --- | --- |
| Role | Staff Member | Responsibilities |
| Tester &  POC | Betsy Sebastian | * Understand requirements * Creating Test Plan * Writing and executing Test cases * Defect reporting * Preparation of Test Data |
| Tester | Shyma C V | * Understand requirements * Creating Test Plan * Writing and executing Test cases * Defect reporting * Preparation of Test Data |
| Tester | Neethu P V | * Understand requirements * Creating Test Plan * Writing and executing Test cases * Defect reporting * Preparation of Test Data |
| Tester | Megha R Nath | * Understand requirements * Creating Test Plan * Writing and executing Test cases * Defect reporting * Preparation of Test Data |
| Tester | Anu V Nair | * Understand requirements * Creating Test Plan * Writing and executing Test cases * Defect reporting * Preparation of Test Data |

# Entry & Exit Criteria

## Entry Criteria

1. All test hardware platforms must have been successfully installed, configured, and functioning properly.
2. All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system and judge the correct behaviour.
3. All the standard software tools including the testing tools must have been successfully installed and functioning properly.
4. Proper test data is available.
5. QA resources have completely understood the requirements.
6. QA resources have sound knowledge of functionality.
7. Reviewed test scenarios, test cases and RTM.

## Exit Criteria

1. A certain level of requirements coverage has been achieved.
2. No high priority or severe bugs are left outstanding.
3. All high-risk areas have been fully tested, with only minor residual risks left outstanding.
4. The schedule has been achieved.

# Administrative Plan

## Test Milestones and Schedule

| Milestone | Time Duration |
| --- | --- |
| Creating Test Plan | 20-02-2022 to 26-02-2022 |
| Test Case Creation | 20-02-2022 to 26-02-2022 |
| Test Case Execution -Functional Testing | 27-02-2022 to 05-03-2022 |
| Non- Functional Testing - Performance Testing | 06-03-2022 to 12-03-2022 |
| Project & Report Submission | 20-03-2022 |

## Test Deliverables

|  |  |  |
| --- | --- | --- |
| Deliverables | Descriptions | Completion Date |
| Test Plan | * Scope of the project * Test Strategy * Test Schedule * H/w & S/w Requirements * Deliverables | 27-02-2022 |
| Test Cases | * Multiple Test Cases for Test Scenarios defined under the Scope | 27-02-2022 |
| Defect Report | * Detailed description of the defects identified during Test Execution. | 12-03-2022 |
| Final Reports | * Summary Report | 19-03-2022 |

## Defect Management

*Defect management -* ***JIRA***

# Points of Contact

The following people can be contacted in reference to this document

|  |  |
| --- | --- |
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