**<Customer Name>**

**<Training Management System>**

**Test Plan**

**<Version No.1.1>**

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| --- | --- | --- | --- |
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# Overview

## Purpose

The purpose of this document is to outline the test strategy and overall test approach for the **Training Management** project. The Test Planning document is used to define types of testing, levels of testing. It also includes test methodologies, traceability, and resources required, and estimated schedule.

It serves as a communication vehicle to identify any testing issues as early as possible in the project lifecycle.

## System Description

This product is developed for managing the trainee details about the course undertaken by them under the guidance of a trainer for the 3 months including the current month.

Test Requirements

### Testing Requirements

Customer Requirements

### Types of Testing

* System Testing
* Unit Testing
* System Integration Testing
* User Acceptance Testing

### Testing Tools

* Selenium

### Test Duration

* 5 Days

## Testing scope

### In-Scope

**Functional Requirements:**

Login Module:

* Functional Requirements:

When the user enters URL “<http://ctsc00849530701:9000/Training/>” application display the login page with the Input fields for User ID and Password, link. The input fields for User Name and Password are Text fields. The User Name must be a registered Associate ID only. The entered characters in the Password field must be masked with an ‘.’ symbol. There should be a Login command Button. User Id and password are mandatory.

* User Interface Requirements:

1. The User Name and Password fields should be the text boxes.
2. The entered characters in the Password field must be masked with ‘.’ symbol.
3. There should be login button.
4. The page header should be “Welcome”.

Authentication:

* Functional Requirements:

Welcome page appears with User Name, Password fields, login. On clicking the login button, check for the mandatory fields. If any one of the fields are missing, alert an error message “Please enter << >>” When the user enters User Name and password, system should validate whether User Name and Password exists or not. If the User Name and password are not valid, system displays an error message “Please Enter Valid Credentials”.

* User Interface Requirements:

1. While entering the User Name and password, please check the Case
2. The page header should be “Welcome”
3. User Id field should accept only registered user id.

User Module:

* Functional Requirements:

1. When the user clicks on Dash Board on the home page. The user needs to click the selected month
2. Application should display the trainee details for the select month.
3. When the user click the Registration. The application should display the registration page. The User enters
   * + - 1. "Associate ID"
         2. "Password"
         3. "First Name"
         4. "Last Name"
         5. "Hire Date"
         6. "Designation"
         7. "Vertical"
         8. "Location"
         9. "Phone"
         10. "Role” and Click register to store the details of the user.
4. When user click the report, user can get the trainee details, completion report and phase completion report in the pdf format.
5. When the user is a trainee he can evaluate the trainee by selecting from the month.

**Nonfunctional Requirements**

* UI Requirements:
  + - * 1. The front end should be user-friendly and pleasant
        2. Any error message or exception displayed to the user should be user-readable
        3. All entered values should be validated
        4. The UI screens are designed with a green theme color along with the logo of the company.
* Performance Requirements:

1. All front-end pages and reports should be served up in less than 5 seconds post click when up to 1000 users are on the application concurrently
2. Should be able to support 5000 simultaneous users with response time not degrading to below 10 seconds post click

* Installation, Deployment & Operational Requirements:

1. Application needs IBM Web sphere/ JBoss / Weblogic server for deployment with oracle 10i database for persistence
2. This system must be up 23X7

* Reliability

1. It should permit 1 hour per day for maintenance and backup activities with no access for users during this time – suitable message asking users to log back on later should be presented
2. Any server failure should cause no more than 10-minute downtime, with the average downtime not exceeding 2 minutes

* Maintainability & Portability Requirements:

1. If the allocated memory space for the existing website needs to be increased then it should be possible without any impact to performance

* Security Requirements:

1. Security should be through a security table with encrypted passwords
2. All transactions (updating data or otherwise) in the application should be audit logged for future reference
3. No unauthorized users should be able to log on to the system
4. None of the pages are reachable without a log on id having been entered and authenticated
5. Passwords must be at least 8 characters and have a combination of letters, numbers and special characters (#,@,$,%,&)
6. 3 incorrect password entries must de-activate the user
7. There should be a forgotten password option which would allow the password to be sent to their registered email id based upon then user id and the date of birth

* Online User Documentation and Help System Requirements

1. Online help engine accessible from every screen
2. Help provided on each screen of the application

* Training Requirements

1. Training for intended users on the operation of the new software is not within scope

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# 2.0 Test Planning

**2.1 Test Environment / Tools Used**

The details of Test environment are as follows:

Configuration:

Operating System – Windows & Enterprise

Processor – Intel Core Duo @ 2.93 GHz

RAM – 4GB

Test tools:

Selenium

SDEv9\_Express\_win32\_x86

**2.2 Test Data**

**URL**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **URL** | | | <http://ctsc00849530701:9000/Training/> | | | | | |
| **Test Data for Login Page** | | | | |  | |
|  | |  | | |  | |
| **TESTCASE\_ID** | | **User Name** | | | **Password** | |
| TC\_01 | | 1000 | | | admin | |
| TC\_03 | | 605610 | | | pass@123 | |
| TC\_05 | | 622126 | | | pass@123 | |
|  | | |  | |  | |  | |
|  | | |  | |  | |  | |

## 2.3 Test Planning

|  |  |
| --- | --- |
| Day 1 | Artifacts Preparation  Module 1:  Login  Module 2:  Authentication |
| Day 2 | Artifacts Preparation  Module 3:  User Module |
| Day 3 | Scripting |
| Day 4 | Test Execution |
| Day 5 | Test summary Report |

# 3.0 Resource Planning

3.1 Hardware

* PC
* RAM – 4GB

3.2 Software

* SDEv9\_Express\_win32\_x86

3.3 Automation Tools

* Selenium