**Human Resource Management System**

**TEST PLAN**

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To:

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**Purpose**

The software Human Resource Management System (HRMS) objective is to overcome the management difficulties and improper communication between Admin, HR and Employees. The purpose of HRMS is to automate the daily activities and processes carried out by the management and to ensure the validation of the data to prevent mis-information.

The system provides create, read, update and delete operations to the users of the system. The testing team will test all the functional requirement feature provided in the Software Requirement Document (SRS) to validate the client specification is meet.

**Features to be Tested**

The system features that will be tested in the testing environment are as follows:

* TC - 1 Provide alphabets in phone number field
* TC - 2 Leave name in the first name field in HR Details
* TC - 3 Leave all the fields in HR Details and submit the form
* TC - 4 Provide all details in HR Details and submit the form
* TC - 5 Provide integers in department name
* TC - 6 Leave Department Name and submit
* TC - 7 Provide all the fields in Departments Details and click on submit
* TC - 8 Provide all the fields in Designation Details and click on submit
* TC - 9 Provide letters in the basic salary field in Designation Details
* TC - 10 Provide integers in the designation name
* TC - 11 Provide special characters in CNIC field
* TC - 12 Leave the Email field and click on submit
* TC - 13 Provide letters in Phone Number field in Employee Details
* TC - 14 Provide all the valid fields in Employee Details and click on the submit
* TC - 15 Provide all the valid fields in Payroll and click on the submit
* TC - 16 Leave the Reason field in Leave Details and click on the submit
* TC - 17 Leave the Reason field in Resignation Details and click on the submit
* TC - 18 Provide all the valid fields in Resignation Details and click on the submit
* TC - 19 Provide all the valid fields in Attendance Details and click on the submit
* TC - 20 Provide Employee profile in Employee View Details

**Features not to be Tested**

The features that are not to be tested in the testing phase include:

* TC – 21 Multiple simultaneous users on the system (Load Testing)
* TC – 22 Database testing as free licensed Database Management System is incorporated with the system

**Approach**

The following approach was implemented in the testing phase:

* Unit testing of Backend API (GET & POST) using Jest JS
* Black Box testing using Selenium
* Validation testing using Software Requirement Specification

**Environmental Needs**

The following environmental needs are required to the system

**Hardware:** The hardware requirement required with the system are

* Core i5 and above processor

**Software:** The software requirement required with the system are

* Windows 10 Operating System
* Browsers including Edge, Chrome and Firefox

**Schedule**

The following schedule is followed for milestones

* Test Plan is due on December 20, 2021
* Test Logs are due on December 20, 2021

**Acceptance Criteria**

The following criteria is assured to be accepted in order for the system to meet its fully quality are follows

* All the test cases must be validated with the client specification of functional requirement mentioned in Software Requirement Specification
* The ISO 9126 Quality Standards should be meet with the system

**Responsibilities and Roles**

* All members of the groups were involved in the Test Plan
* All members of the groups were involved in the Test Cases
* All members of the groups were involved in the Test Logs