Zoho-CRM Task -01

**Test Strategy**

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Author | Description |
| 03/11/2021 | 0.1 | Fardin Amin Arpon | Test Strategy of  Zoho-CRM Task -01 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table of Contents

[1. Scope 3](#_Toc534636696)

[2. Test Approach 4](#_Toc534636697)

[3. Test Environment 5](#_Toc534636698)

[4. Testing Tools 6](#_Toc534636699)

[5. Release Control 7](#_Toc534636700)

[6. Risk Analysis 8](#_Toc534636701)

[7. Review and Approvals 9](#_Toc534636702)

# Scope

It defines parameters like

* Who will review the document?

-Fardin Amin Arpon

* Who will approve this document?

-Md. Maruf

* Testing activities carried out with timelines

# Test Approach

It defines

* Process of testing
  + First, we need to Manual testing for written test case and Analysis
  + Then, Automation testing for Functional test and performance test and behaviour data test
* Testing levels

= Use testing level with two different levels

* Roles and responsibilities of each team member
  + Need 2 team member for testing. 1 for testing Manual and test case written and analysis and 1 for test automation
* Types of Testing
  + Functional Testing for feature and also performance testing
* Testing approach & automation tool if applicable
  + We can used test Junit or TestNG for Automation
  + And For Performance Testing we can use JMeter
  + Use Cucumber for BBD Approach
* Adding new defects, re-testing, Defect triage, Regression Testing and test sign off

# Test Environment

* Define number of requirement and setup required for each environment

Setup specific number and requirement with proper data

* Backup of test data and restore strategy

# Testing Tools

* Automation and Test management tools needed for test execution
  + We need to Set IntelliJ IDE or Eclipse,
  + Maven /Gradle build tools
  + Create and implement MVN repository
  + Add dependences as like; (Junit, Selenium web diver, TestNG, browser and other dependences which we need for automation)
  + Build all the dependences in the project
  + Setup resource folder and add Chrome driver and Gecko Driver for open chrome and Firefox web browser
  + Write automation script and tase case
  + Then run with terminal (Gradle clean test or MVN Clean test)
  + After execution run all test case automation Generate report with Allure or HTML test reporter.
* Then need to figure out number of open-source as well as commercial tools required, and determine how many users are supported on it and plan accordingly

# Release Control

* Release management plan with appropriate version history that will make sure test execution for all modification in that release

1. Plan release

* Timelines
* Delivery dates
* Requirements
* The overall scope of the project
* 2. Build release
* 3. User acceptance testing
* 4. Prepare release
* 5. Deploy release

# Risk Analysis

* List all risks that you can estimate
* Give a clear plan to mitigate the risks also a contingency plan
  + Good management practice
  + Defining Hazard and Risk
  + Systematic approach to the management of Hazards and associated Risks
  + Step 1: Hazard identification (Examples of Hazards)
  + Step 2: Risk identification Examples of risk identification
  + Step 3: Risk assessment
  + Step 4: Risk control
  + Step 5: Documenting the process
  + Step 6: Monitoring and reviewing

# Review and Approvals

* All these activities are reviewed and sign off by the business team, project management, development team, etc.
* Summary of review changes should be traced at the beginning of the document along with approved date, name, and comment
  + It improves efficiency
  + It ensures consistency
  + It prevents bottlenecks
  + It prevents mistakes
  + It creates transparency