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| Wdiodemo Test plan |
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**Revision History**

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# Introduction

The purpose of this test plan is to outline the testing approach for the WDIO Demo Application, covering both mobile and web platforms. The document describes the scope, objectives, strategy, resources, and schedule for testing.

# Scope

* + 1. **Mobile Application Testing**: Functional, UI, regression, and compatibility testing on Android devices.
    2. **Web Application Testing**: Functional, UI, cross-browser, and responsive testing.

# Objectives

1. Verify the application’s functionality against specified requirements.
2. Ensure compatibility across devices, browsers, and operating systems.
3. Validate user interface elements for responsiveness and usability.
4. Identify and address defects before production release.

# Project scope

## Modules to be tested

Following are the modules and features that will be covered in Phase I testing.

|  |  |  |
| --- | --- | --- |
| **No.** | **Module** | **Sub Module** |
| 1 | **User** | Sign Up |
| 2 | Login |
| 3 | Forgot Password |
| 7 | **FORMS** | Save |
| 8 | Edit |
| 9 | Delete Idea |
| 10 | Submit Idea |
| 11 | Ideas list |
| 12 | **Web Form** | Contact Us |
|  | **Static Pages** |  |
| 14 | Terms & Conditions |
| 15 | Privacy Policy |
| 16 | Copyright license agreement |

## 2.2 Modules/ Features Not to be tested

* Back end (Admin) will not be functionally tested, however QA team will be using it to verify the user submitted data.
* List of Values data will not be checked for values in all the application pages.

# Testing Approach

## **4.1 Test Types**

* **Functional Testing**: Verify core functionality (e.g., login, forms, swiping).
* **Regression Testing**: Ensure no existing features break after updates.
* **UI Testing**: Validate the appearance and behavior of UI components.
* **Cross-Platform Testing**: Check application performance on different devices and browsers.
* **Data-Driven Testing**: Use external datasets for validation.

## **4.2 Tools and Technologies**

* **Automation Tools**: Selenium (Web), Appium (Mobile).
* **Framework**: TestNG.

## **4.3 Test Environment**

* **Mobile Testing**: Android Emulator, Real Devices.
* **Web Testing**: Browsers (Chrome, Firefox, Edge, Safari).
* **Test Data**: JSON files for managing input data.

1. **Test Case Summary**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | **Test Case ID** | **Description** | **Priority** | **Platform** | | TC001 | Verify login functionality | **High** | **Mobile/web** | | TC002 | Verify sign-up functionality | **High** | **Mobile/web** | | TC003 | Validate swipe | **Meduim** | **Mobile** | | TC004 | Test form submission for all fields | **High** | **Mobile/web Mobile/web** | | TC005 | Check responsiveness across devices | **Low** |  | |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 1. **Resources**  |  |  | | --- | --- | |  |  | | **Roles and Responsibilities** |  | | |  |  | | --- | --- | | **Role** | **Responsibility** | | Test Lead | Plan, manage, and oversee the test process. | | Automation Engineer | Develop and execute test scripts. | | QA Analyst | Define test cases and scenarios. | |  | |  |  |  |
|  |  |  |  |
|  |  |  |  |

## **Required Resources**

* **Human Resources**: Test lead, 2 automation engineers, 1 QA analyst.
* **Hardware**: Android devices, desktops/laptops.
* **Software**: Appium, Selenium, Browser drivers, IDE .

# Test Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Duration** | **Start Date** | **End Date** |
| Test Plan Creation |  |  |  |
| Test Environment Setup |  |  |  |
| Test Script  Test Execution |  |  |  |
| Report and Defect Analysis |  |  |  |
| Regression |  |  |  |

# Risk and Mitigation

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Delays in environment setup | Allocate buffer time for setup. |
| Inconsistent results on emulators | Use real devices for critical tests. |
| Lack of test data | Prepare test data in JSON files before execution. |
| New technology.(Ex:AI feature to be added ) | Discuses with Project manager to add buffer for new feature |

# Deliverables

1. Test cases.
2. Automation framework.
3. Test execution report.
4. Defect Report.
5. Final test summary report.
6. Task Sheet: An excel sheet that includes all the modules along with the test progress for each module, and the estimated vs actual testing time will be updated on daily basis and shared with the project team.