**NADRA WEB APP TEST PLAN DOCUMENT**

**Document Change History**

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| --- | --- | --- | --- |
| **Version Number** | **Date** | **Contributors** | **Description** |
| V1.0 | 10-07-2024 | Haseeb Akram | Designed overall test plan |
| V2.0 | 12-07-2024 | Haseeb Akram | Updated Scope of the test plan and testing approach according to the change made in the scope. |
| V3.0 | 20-07-2024 | Haseeb Akram | Remove Identity Application functionalities from Scope of the test plan and update testing approach according to the changes made in the scope. |
| V4.0 | 24-07-2024 | Haseeb Akram | Updated the objective section according to scope and add Approval. |

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# Introduction

This test plan outlines the strategy and approach for validating the functionality, performance, usability, and security of the NADRA App. The primary objective is to ensure that the app meets all specified requirements, operates without defects, and delivers a robust, intuitive, and secure platform for all users. By conducting thorough and systematic testing, we aim to identify and address any potential issues prior to the app's release, thereby guaranteeing its readiness and reliability for public use.

# Objectives

* 1. Verify everything on every Page of the NADRA Web application works and looks right, including links, images, and text.
  2. Check that all services on the Identity Services Page are accessible and have correct information.
  3. Verify that users can register, login, and logout without any issues.
  4. Confirm that users can submit complaints on the Complaint Page and receive confirmation.
  5. Ensure the application supports multiple languages and works well on different browsers and devices (desktop, tablet, mobile).

# Scope

## Features to be tested

* 1. Home Page
  2. Identity Services Page
  3. User Registration
  4. User Login
  5. Complaint Page
  6. Contact Us Page
  7. Offices Page
  8. About NADRA Page
  9. Language Switcher Functionality

## Features not to be tested

### Online Apply for Identity Card

**Reason**: The process involves a step of verification that can only be completed using a mobile app. Since the mobile app is not within the scope of our testing, this step cannot be executed. Additionally, there is a payment step involved, and testing cannot be performed without the ability to complete payment transactions.

### Online Apply for Family Registration Certificate (FRC)

**Reason**: Similar to the Identity Card application, the FRC application process also includes a verification step that requires the mobile app, which is out of scope. There is also a payment component involved that cannot be tested without the ability to process payments.

### Online Apply for Pakistan Origin Card (POC) for Non Pakistanis

**Reason**: Similar to the Identity Card application, the POC application process also includes a verification step that requires the mobile app, which is out of scope. There is also a payment component involved that cannot be tested without the ability to process payments.

### Online Apply for NIC for Overseas Pakistanis

**Reason**: Similar to the Identity Card application, the NIC for Overseas Pakistanis application process also includes a verification step that requires the mobile app, which is out of scope. There is also a payment component involved that cannot be tested without the ability to process payments.

### Application Tracking

**Reason**: Effective tracking of applications is dependent on the presence of an application. Since there are no applications available to track, this functionality cannot be tested.

### Career Page

**Reason**: The Career Page is a separate entity from the primary website being tested and does not fall within the scope of the current testing process.

### Performance and Reliability

**Reason**: Simulating load or stress testing on a live website, or attempting to crash it, is not feasible. Performance and reliability tests typically require controlled environments.

### User Interface and Usability

**Reason**: User interface (UI) and usability testing are being conducted on individual pages. Therefore, overall usability and interface quality are covered through these page-specific tests.

### Projects Pages

**Reason**: The Projects Pages are considered to have limited functional relevance to the core functionality being tested, so their testing is not deemed useful or necessary for the current scope.

### SIFC Page

**Reason**: The SIFC Page is a distinct page that does not relate to the core functionality of the current website testing, making it out of scope.

### Database

**Reason**: Without access to the database, testing involving data interactions and database-related functionalities cannot be performed.

### APIs

**Reason**: Since there is no access to the APIs, any testing related to API interactions or functionality is not possible.

### Admin and Other Non-Public Pages

**Reason**: Access restrictions prevent testing of admin and other non-public pages, which are not available for testing.

### Security

**Reason**: Security testing that involves simulating attacks or vulnerabilities on a live website cannot be conducted, as it could potentially compromise the site's safety and integrity.

# Approach

## Testing Strategy:

* + 1. Functional Testing

**Purpose**: To ensure that each function of the application operates as expected.

* **Home Page:** Verify that all elements (links, images, text) are correctly displayed and functional.
* **Identity Services Page:** Check that all services listed are accessible and provide correct information.
* **User Registration and Login:** Ensure that users can register, login, and logout successfully.
* **Complaint Page:** Verify that users can submit complaints and receive confirmation.
* **Contact Us Page:** Ensure that users can contact support through the provided means.
* **Localization:** Ensure that the application supports multiple languages.
  + 1. Compatibility Testing

**Purpose**: To ensure the application works across different devices, browsers, and operating systems.

* **Home Page, Identity Services Page, Online Application Pages:** Test on various browsers (Chrome, Firefox, Safari, Edge) and devices (desktop, tablet, mobile).

## Overall Approach:

* Prepare test scenarios and test cases based on application features.
* Execute test cases manually and log defects.

# Pass/Fail Criteria

## Pass Criteria:

All critical test cases must pass. No high severity defects are open. Medium and low severity defects are logged and acknowledged.

## Fail Criteria:

Any critical or high severity defects are found. Key functionalities do not perform as expected.

# Suspension and Resumption Criteria

## Suspension Criteria:

Testing will be suspended if critical defects block further testing or the test environment is unavailable.

## Resumption Criteria:

Testing will resume once the critical defects are resolved, and the test environment is restored.

# Test Deliverables

* 1. Test Plan Document
  2. Test Cases and Scenarios
  3. Test Data
  4. Defect Reports
  5. Test Summary Reports

# Testing Tasks

* 1. Requirement Analysis: Understand and analyze the requirements.
  2. Test Case Development: Create detailed test cases and scenarios.
  3. Test Environment Setup: Configure hardware and software needed for testing.
  4. Test Execution: Perform manual and automated tests.
  5. Defect Reporting: Log defects with detailed information.
  6. Test Summary Reporting: Summarize and document test results.

# Environmental Needs

* 1. Access to the NADRA App.
  2. Web browser (latest versions of popular browsers like Chrome, Firefox)
  3. Test Data
  4. Excel for Test cases management and bug tracking
  5. Internet connection
  6. Hardware: Smartphones, tablets, computers

# Responsibilities

**Test Manager**: Monitor the testing process, ensure resources are available.

**Test Lead**: Manages the test team, coordinates activities.

**Test Engineers:** Create and execute test cases, log defects.

# Schedule

|  |  |  |
| --- | --- | --- |
| **Activity** | **Start Date** | **End Date** |
| Test Planning | July 9, 2024 | July 10, 2024 |
| Test Case Development | July 11, 2024 | July 15, 2024 |
| Test Environment Setup | July 16, 2024 | July 16, 2024 |
| Test Execution | July 16, 2024 | July 22, 2024 |
| Defect Reporting | July 22, 2024 | July 23, 2024 |
| Retesting | July 23, 2024 | July 24, 2024 |
| Test Summary Report | July 24, 2024 | July 25, 2024 |

# Risks and Mitigation

**Risk:** Delays in test environment setup

**Mitigation:** Prepare alternative environments in advance.

**Risk:** Critical defects discovered late in the cycle

**Mitigation:** Early and continuous testing, prioritizing critical functionalities.

# Approval

### QA Manager:

Name: HAMNAH ANWAR

Signature: