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# **PROVIENCE PUBLIC COMMISION TEST PLAN**

## Introduction

The goal of this test plan is to make sure the Provincial Public Commission system does what it’s supposed to do. It handles stuff like public services, recruitment, and keeping things fair and clear. This document will help guide the testing process so everything works properly and meets all the rules that matter. We'll be checking the big things—like if people can register, schedule tests, and get results without issues. Performance, security, and data? That’s on the list too. By following this plan, the commission wants to make a system that's easy to use, safe, and reliable for everyone. It’s all about making sure trust isn’t broken.

## Test Items

1. **User Registration and Login**

* Registration of New User.
* Login for User (New and Old User).

1. **Profile setup**

* Submit Personal information like Name, Father's name, Mother’s name, Husband's/Wife's Name, and Citizenship details in required languages.
* Submit Extra Details like Cast, Religion, Marital Status, Employment Status, Mother Tongue, physical disability, Father's Education Qualification, Father's Education Level, Mother's Education Qualification, Mother's Education Level, Father's Occupation, Mother's Occupation, Geographical Area and submission of Ethnic Group Document.
* Submit Contact details like Province, District, Local Body, Wada No., Marga, Tole, Ghar No., Phone No., Mobile No., Email and Mailing Address.
* Submit Education Description like Country, Board Name, Level, Faculty, Percentage/GPA, Division/Grade, Major Subject, Description, Education Type, Passed Date, Transcript/Grade Sheet/Marksheet, Character Certificate, Equivalent Certificate.
* Submit Training Description like Institute Name, Training name, Percentage/GPA, Division/Grade, Training Form, Training To and File.
* Submit Professional Description like Institution Name, Type, Darta No, Issued Date, Renew Date, Validity Date, File(Front Side) and File(Back Side).
* Submit Experience Description (if any) like Experience Type, Institution Name, address, post, Service, Group, Sub Group, Class, Remarks, Employment Form, Employment To, Employment Status, Employment Type and Experience Document.
* Submit Document description like Scanned Photograph, Scanned Signature, Front side of Citizenship, and Back side of Citizenship
* Review My Profile

1. **Vacancy list review**
2. **My Application**

* Review All Application
* Review Download Admit Card

## Features to be Tested

The following is a list of the areas to be focused on during testing of the application.

1. Candidate Registration and Profile Management
2. Application Form Completion and Submission Process
3. Secure Payment Transactions and Refund Handling
4. Email, SMS, and In-App Notification Delivery
5. User Support Tools and Feedback Mechanism
6. System Reliability Under Stressful Conditions
7. Protection of Sensitive User Data
8. Interface Layout and Accessibility for All Users
9. Old Features

## Features not to be Tested

1. Third-Party Services
2. Unused Features
3. Admin Tools

## Approach

1. **Testing Levels**First, we start with Unit Testing, where every small part of the software is checked on its own. It’s like testing each piece of a puzzle separately to make sure they fit. This helps catch problems right at the beginning.

Then comes Integration Testing. Here, the pieces of the software are put together to see if they work well as a team. Sometimes, stuff that works fine on its own doesn’t play nice with others, so this step is super important.

Next is System Testing—this is the big one. We test the entire system from top to bottom, making sure it does everything it’s supposed to do. It’s like doing a final rehearsal before the big show.

Finally, there’s Acceptance Testing, which is all about the user. This is where we make sure the software isn’t just working but actually doing what users need. If it doesn’t pass this, it’s back to the drawing board.

1. **Testing Tools**
2. **Functional Testing Tools:**
   1. **Selenium:** To automate testing of the user interface (e.g., registration, login, application submission).
   2. **Postman:** For API testing to ensure integration between modules works correctly.
3. **Performance Testing Tools:**
   1. **JMeter:** To simulate heavy traffic and test how the system performs under load.
   2. **LoadRunner:** To check the system’s scalability and reliability.
4. **Test Management Tools:**
   1. **JIRA:** For tracking and managing test cases and issues.
5. **Data Testing Tools:**
   1. **SQLMap:** To ensure data accuracy and check database vulnerabilities.

## Meeting

The testing team will hold weekly meetings to assess progress, track error patterns, and resolve issues promptly. Similarly, the test lead will meet with the development team and project manager once a week to ensure smooth coordination. Additional meetings may be arranged if urgent matters arise.

## Item pass/fail criteria

All Items are passed. There is no fail criteria

## Test Derivable

1. Acceptance test plan
2. System Test Plan
3. Unit Test Plan
4. Report Mock-up
5. Screen Prototypes

## Remanning Test Tasks

|  |  |  |
| --- | --- | --- |
| **Task** | **Assigned** | **Status** |
| Create Acceptance test Plan | TM, PM, Client |  |
| Create System Test Plan | TM, PM, Rahul |  |
| Define Unit Test rules | TM, PM, Rahul |  |
| Define Turnover procedures for each level | TM, Rahul |  |
| Verify prototypes of Screen | Rahul, Client, TM |  |
| Verify prototypes of Report | Rahul, Client, TM |  |

Table no. 1.1: Remanning Test Tasks of each Tester.

## Environmental Needs

1. Eco-friendly Buildings and Offices
2. Environment Rules
3. Less waste, More Recycling
4. Save water and energy
5. Work Together
6. Track Progress

## Staffing And Training Needs

1. Core Team
2. Specialized Roles
3. Support Staff
4. Orientation For New Staff
5. Technical Skills
6. Professional Skills
7. Special Topics

## Responsibilities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | TM | PM | Dev  Team | Test  Team | Client |
| Acceptance test Documentation & Execution | X | X |  | X | X |
| System/Integration test Documentation & Executive |  |  |  |  |  |
| Unit test documentation & Execution | X |  | X | X |  |
| System Design Reviews | X | X | X | X | X |
| Detail Design Reviews | X | X | X | X |  |
| Test Procedures and Rules | X | X | X | X |  |
| Screen & Report prototype reviews |  |  | X | X | X |
| Change Control and regression testing | X | X | X | X | X |

Table 1.2: Responsibilities of Each Tester

The Development team leader will be responsible for the verification and acceptance of all unit test plan documentation.

The project manager/test manger is responsible for all test plans and documentation.

The entire Rahul project team will actively participate in reviewing the system design, detailed design, and any change requests generated by users or arising from defects identified during development and testing. Additionally, the sales administration staff will be involved in the initial high-level reviews.

## Schedule

|  |  |  |
| --- | --- | --- |
| **Month** | **Date** | **Remarks** |
| **January** | **2025-01-17** | Review and finalize test cases with the team. |
| **January** | **2025-01-18** | Set up the test environment (hardware, software, network). |
| **January** | **2025-01-19** | Start initial testing to check if everything works. |
| **January** | **2025-01-20** | Fix any issues found during initial testing. |
| **January** | **2025-01-21** | Test again to make sure the environment is stable. |
| **January** | **2025-01-22** | Begin detailed testing of individual parts. |
| **January** | **2025-01-23** | Write down test results and note any problems. |
| **January** | **2025-01-24** | Have a meeting to discuss results and plan fixes. |

Table 1.3: Schedule of Each Tester

## Planning Risk and Contingence

No any Reassigned sale Staff.

## Approvals

|  |  |
| --- | --- |
| Project Sponsor | Madan Bista |
| Development Management | Rahul Purbey |
| Tester | Rahul Purbey |

Table 1.4: Approval of Each Tester