# **Test Plan for AmaderHR Application**

## **1. Introduction**

This test plan outlines the strategy, scope, resources, and schedule for testing the AmaderHR web application. The primary goal is to ensure that the specified modules (Bank Management, Division Info, Employee Management, and Address Management) meet all functional requirements, provide a good user experience, and are free of critical defects before deployment. This plan focuses on manual testing efforts.

## **2. Scope**

### **2.1. In Scope:**

The following modules and functionalities are in scope for this test plan:

* **Bank Management:**
  + Bank Name: Creation, Read (List & Details), Update, Deletion (CRUD), search/filter, form validations.
  + Branch Name: CRUD, search/filter, form validations, dependency on Bank Name selection.
* **Division Info (Office Structure):**
  + Office Division: CRUD, search/filter, form validations.
  + Office Department: CRUD, search/filter, form validations.
  + Office Designation: CRUD, search/filter, form validations.
* **Employee Management:**
  + Employee by Pay Grade: Page navigation, UI element verification, filter functionality (if available).
  + Supervisor: CRUD, search/filter, form validations.
  + Division Supervisor: CRUD, search/filter, form validations.
  + Export Profile: Functionality to trigger export, (simulated) verification of exported data format if possible.
* **Address Management (Geographical):**
  + Geographical Division: CRUD, search/filter, form validations.
  + Geographical District: CRUD, search/filter, form validations, dependency on Geographical Division selection.
* **General:**
  + Navigation within and between the above modules.
  + Basic UI/UX consistency (e.g., button placement, labels, error messages) for the in-scope modules.
  + Presence and correctness of icons and common UI elements (header, footer, sidebar links) related to these modules.

### **2.2. Out of Scope:**

The following modules and functionalities are out of scope for this test phase:

* Dashboard (My Dashboard, Admin Dashboard general features beyond navigation from in-scope areas)
* Education Management (Degree, Institute Name)
* Leave Management (all sub-modules like Manage Holiday, Public Holiday, Leave Type, Leave Application, etc.)
* Leave Encashment
* Pay Grade Management (Grades, Earning, Deduction - except as viewed via "Employee by Pay Grade")
* Salary (Prepare Salary, Salary List, Salary Report, Bonus, etc.)
* Roles & Permissions
* Rosters
* Attendance (Online Attendance, Daily Attendance, Devices, Sync, etc.)
* Settings (App Configuration, WorkSlot, Action Type/Reason, Copy Data)
* Activity Log
* Blood Bank
* HR Policy (HR Policy, View HR Policy)
* User Authentication (Login, Logout, Password Change - assumed stable)
* Comprehensive Performance Testing (beyond basic page load observations)
* Comprehensive Security Testing (beyond basic input validation)
* Browser-specific CSS rendering issues unless they break functionality.
* Third-party integrations not directly part of the core module functionality.

## **3. Test Objectives**

* Verify that all CRUD (Create, Read, Update, Delete) operations for entities within Bank Management, Division Info, Employee Management (Supervisors), and Address Management function as expected.
* Ensure that list views for all entities display correct data and support basic navigation (e.g., pagination, if present).
* Validate form submissions, including positive and negative test scenarios for input fields (mandatory, data type, format).
* Confirm that dependencies between entities are handled correctly (e.g., Branch depends on Bank, District depends on Geo. Division).
* Verify that the "Employee by Pay Grade" page loads correctly and displays relevant UI components.
* Ensure the "Export Profile" functionality in Employee Management is operational (simulated file check).
* Confirm correct navigation to and from all in-scope modules and sub-modules via the sidebar and any internal links.
* Identify and report any UI/UX issues that hinder usability within the in-scope modules.
* Ensure basic error handling is in place and informative messages are displayed to the user.

## **4. Resources**

* **Human Resources:**
  + Test Manager: [Your Name/Placeholder Name]
  + Testers: 1 SQA engineer (for the purpose of this project)
* **Hardware Resources:**
  + Test Machine: Desktop/Laptop with internet access.
  + Browsers: Latest versions of Chrome, Firefox.
* **Software Resources:**
  + Spreadsheet software (for test cases & bug reports).
  + Web browser developer tools.

## **5. Schedule**

| **Activity** | **Start Date** | **End Date** |
| --- | --- | --- |
| Test Planning | 01-Nov-2024 | 03-Nov-2024 |
| Test Case Development | 04-Nov-2024 | 15-Nov-2024 |
| Test Execution | 18-Nov-2024 | 06-Dec-2024 |
| Regression Testing | 09-Dec-2024 | 13-Dec-2024 |
| Test Reporting & Closure | 16-Dec-2024 | 18-Dec-2024 |

## **6. Test Environment**

* URL: https://amaderit.net/demo/hr (as per site.txt)
* Browsers: Google Chrome (latest), Mozilla Firefox (latest)
* Operating System: Windows 10/11 (or user's OS)
* Access: Standard user login with permissions to access the in-scope modules (assumption for testing).

## **7. Test Deliverables**

* Test Plan (this document)
* Test Cases (CSV file)
* Bug Reports (CSV file)
* Test Summary Report (to be created upon completion of testing)

## **8. Risks and Mitigation**

| **Risk** | **Mitigation** |
| --- | --- |
| Limited access to backend/database for full verification. | Focus on UI/UX, input validation, and front-end behavior. Simulate backend responses where necessary. |
| Changes in requirements or UI during testing. | Maintain flexible test cases; communicate regularly with stakeholders (if any) for updates. |
| Lack of detailed specifications for some features. | Base test cases on observed UI and standard HR application functionalities. Make reasonable assumptions. |
| Time constraints for creating 100 detailed test cases. | Prioritize core functionalities and use templates to expedite test case creation. |

## **9. Entry and Exit Criteria**

* **Entry Criteria:**
  + The AmaderHR application is deployed to the test environment (https://amaderit.net/demo/hr).
  + Access credentials for the test user are available.
  + In-scope modules are accessible and not fundamentally broken.
  + Test Plan (this document) is reviewed.
* **Exit Criteria:**
  + All planned test cases have been executed.
  + All Critical and High severity bugs (related to in-scope modules) are closed or deferred with justification.
  + Test coverage for core functionalities of in-scope modules is achieved.
  + Test Summary Report is prepared.

## **10. Estimation Techniques**

The effort for this specific project phase (manual testing of 4 modules) is estimated by breaking down features within each module and assigning an estimated number of test cases and execution time per case, combined with expert judgment based on the provided HTML and common SQA practices for web applications.

## **11. Test Case Prioritization**

* **High Priority:**
  + CRUD operations for all core entities (Bank Name, Branch Name, Office Division, Department, Designation, Geographical Division, District, Supervisor, Division Supervisor).
  + Navigation to and from all in-scope modules.
  + Key form validations (mandatory fields, basic data type checks).
  + "Export Profile" functionality.
* **Medium Priority:**
  + Advanced/edge case validations for forms.
  + Search and filter functionalities (if present and identifiable).
  + UI and functionality of "Employee by Pay Grade" page.
  + Cross-field validations and dependency checks (e.g., selecting a bank before a branch).
* **Low Priority:**
  + Minor UI/UX inconsistencies (e.g., slight misalignments, cosmetic issues).
  + Typos in non-critical text.
  + Testing of less frequently used options or paths within the in-scope modules.