# **Test Plan for EMS Website of BAF**

## **1. Introduction**

This test plan outlines the strategy, scope, resources, and schedule for testing the EMS website project. The goal is to ensure the website meets all specified requirements and provides a seamless shopping experience for users.

## **2. Scope**

**In Scope:**

* Student, Teacher and Staff registration and login
* Information search and filtering
* Students, Teacher, Staff and Class details page
* SMS functionality
* All type of form fill up process
* Exam Routine create
* Attendance process
* User account management
* Report Processing
* Salary management
* Tuition Fees Details
* Result Creation
* Class Routine Management
* Leave Management

**Out of Scope:**

* Media storage integrations

## **3. Test Objectives**

* Verify that all functional requirements are met.
* Ensure the website is user-friendly and performs well.
* Identify and resolve any security vulnerabilities.
* Ensure cross-browser and cross-device compatibility.

## **4. Resources**

**Human Resources:**

* Test Manager: Tauhedul Amin
* Test Lead: Mahamudul Hasan ASif
* Testers:1 SQA engineers

**Hardware Resources:**

* Various devices for cross-device testing (desktops, tablets, smartphones)

## **5. Schedule**

| **Activity** | **Start Date** | **End Date** |
| --- | --- | --- |
| Test Planning | 24-April-2025 | 25-April-2025 |
| Test Design | 26-April-2025 | 2-May-2025 |
| Test Environment Setup | 3-May-2025 | 3-May-2025 |
| Test Case Development | 3-May-2025 | 10-May-2025 |
| Exploratory Test Execution | 10-May-2025 | 13-May-2025 |
| UAT (User Acceptance Test) | 14-May-2025 | 15-May-2025 |
| Test Closure | 16-May-2025 | 17-May-2025 |

## **6. Test Environment**

* **Production Environment:** Live servers, final production build for post-release validation

## **7. Test Deliverables**

* Test Plan
* Test Cases
* Defect Reports
* Final Test Report

## **8. Risks and Mitigation**

**Risk:** Server crush could impact the testing schedule. **Mitigation:** Regular server monitoring .

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

**Entry Criteria:**

* Test environments set up and ready.
* Test data prepared.
* Test cases reviewed and approved.

**Exit Criteria:**

* All critical and high-priority test cases executed.
* No open critical or high-severity defects.
* Test coverage meets the target (e.g., 90%).
* Test summary report reviewed and approved by stakeholders.

## **10. Estimation Techniques**

Using historical data from previous EMS projects and expert judgment, the effort required for testing this project is estimated to be approximately 80 person-hours.

## **11. Test Case Prioritization**

**High Priority:**

* User registration and login
* Result process
* Exam and class routine process
* Salary and tuition fees Calculation
* Attendance Functionality
* Report Generation process
* Security testing (e.g., Login Credentials)

**Medium Priority:**

* Calender Integration
* Details Searching and Filtering
* SMS functionality

**Low Priority:**

* User account management
* Media storage functionality
* UI/UX testing (aesthetic issues)