Sample Test Plan for Education

Management System

# Introduction

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

# Scope

## In Scope:

* + Campus Setup
  + Shift Setup
  + Medium Setup
  + Education Level Setup
  + Department Setup
  + Class Setup
  + Section Setup
  + Subject Setup
  + Subject Sub Types
  + Class Subjects
  + Session Setup
  + Pass Configuration
  + Result Configuration
  + Merit configuration
  + Grade Point
  + Class Roll Prefix Setups
  + Designation Setup
  + Hostel Setup
  + Hostel Room Setup
  + Admission Type configuration
  + Attendance Type Configuration
  + Background Upload
  + Comments Settings
  + Form Fill Up Type
  + Student Activity Category

## Out of Scope:

* + Attendance Device Configuration
  + Payment API Configuration(New)
  + Payment API Configuration
  + Third-party review system integration

# Test Objectives

* + Verify that all functional requirements are met.
  + Ensure the website is user-friendly and performs well under load.
  + Identify and resolve any security vulnerabilities.
  + Validate integration with payment gateways.
  + Ensure cross-browser and cross-device compatibility.

# Resources

## Human Resources:

* + Test Manager: Tarok Saha
  + Test Lead: Tarok Saha
  + Testers: Tarok Saha & Rayhan

## Hardware Resources:

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

## Software Resources:

* + Test management tools (e.g., JIRA, TestRail)
  + Automation tools (e.g., Selenium, Appium)
  + Performance testing tools (e.g., JMeter)

# Schedule

|  |  |  |
| --- | --- | --- |
| **Activity** | **Start Date** | **End Date** |
| Test Planning | 01-Sep-2024 | 05-Sep-2024 |
| Test Design | 06-Sep-2024 | 15-Sep-2024 |
| Test Environment Setup | 15-Sep-2024 | 25-Oc-2024 |
| Test Case Development | 25-Jul-2024 | 30-Jul-2024 |
| Test Execution | 01-Oct-2024 | 10-Oct-2024 |
| Regression Testing | 11-Oct-2024 | 20-Oct-2024 |
| Performance Testing | 21-Oct-2024 | 30-Oct-2024 |
| UAT (User Acceptance Test) | 01-Nov-2024 | 15-Nov-2024 |
| Test Closure | 16-Nov-2024 | 22-Nov-2024 |

1. **Test Environment**
   * **Development Environment:** Internal servers, development builds
   * **Staging Environment:** Mirrors production, staging builds
   * **Production Environment:** Live servers, final production build for post-release validation

# Test Deliverables

* + Test Plan
  + Test Cases
  + Test Scripts (for automation)
  + Test Data
  + Test Summary Reports
  + Defect Reports
  + Final Test Report

# Risks and Mitigation

**Risk:** Delays in development could impact the testing schedule. **Mitigation:** Regular progress meetings with the development team to monitor and adjust timelines.

**Risk:** Unavailability of key resources (e.g., testers, test environments). **Mitigation:**

Cross-training team members and securing backup resources.

# Entry and Exit Criteria

## Entry Criteria:

* + Development complete and code freeze announced.
  + 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.

# Estimation Techniques

Using historical data from previous e-commerce projects and expert judgment, the effort required for testing this project is estimated to be approximately 300 person-hours.

# Test case Prioritization

## High Priority:

* + U Campus Setup
  + Shift Setup
  + Medium Setup
  + Education Level Setup
  + Department Setup
  + Class Setup
  + Section Setup
  + Subject Setup
  + Subject Sub Types
  + Class Subjects
  + Session Setup
  + Pass Configuration

## Medium Priority:

* + Result Configuration
  + Merit configuration
  + Grade Point
  + Class Roll Prefix Setups
  + Designation Setup
  + Hostel Setup
  + Hostel Room Setup
  + Admission Type configuration
  + Attendance Type Configuration

## Low Priority:

* + Background Upload
  + Comments Settings
  + Form Fill Up Type
  + Student Activity Category