**Event Management System - Test Plan**

**1. Introduction**  
This test plan outlines the strategies, scope, resources, and schedule for testing the Event Management System to ensure it meets quality standards and project requirements. It also include the basic testing of the project everyday according to work done.

**2. Components to be Tested**

* **Event Creation and Management:** Test event setup, editing, and deletion functionalities.
* **User Registration and Authentication:** Verify user sign-up, login, password recovery, and security protocols.
* **Ticketing and Payment Integration:** Test ticket booking, payment processing (Stripe/PayPal), and confirmation receipts.
* **Attendee Tracking and Check-In:** Validate QR code generation, check-in process, and attendance tracking.
* **Vendor and Sponsor Management:** Test adding, updating, and removing vendor/sponsor details.
* **Notifications and Reminders:** Ensure timely email/SMS notifications for event updates and reminders.
* **Database Integration:** Test data storage, retrieval, and consistency in MongoDB.

**3. Testing Approach**

* **Unit Testing:** Verify individual components and functions.
* **Integration Testing:** Test the interaction between different modules.
* **System Testing:** Ensure the complete system functions as intended.
* **User Acceptance Testing (UAT):** Involve end-users to validate system usability and performance.
* **Regression Testing:** Identify issues after updates or code changes.

**4. Roles and Responsibilities**

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| --- | --- | --- |
| **Team Member** | **Role** | **Responsibilities** |
| Shubhneet | Lead Tester | Plan and coordinate testing activities. |
| Dipanshu | QA Tester | Execute test cases, log defects and retest fixes. |
| Sukhmanpreet | Developer Support | Assist with debugging and issue resolution. |
| Arshdeep | Developer Support | Provide technical insights for complex issues. |
| Davinder | UI/UX Tester | Ensure user interface consistency and usability. |

**5. Test Cases and Scenarios**

* **Test Case ID:** Unique identifier (e.g., TC-001)
* **Description:** Brief description of the test
* **Preconditions:** Any setup required before testing
* **Test Steps:** Detailed steps to execute the test
* **Expected Results:** The desired outcome
* **Actual Results:** The observed outcome
* **Status:** Pass/Fail

**6. Test Schedule and Milestones**

**This is the plan for the testing schedule, dates may be changed according to work done by group members.**

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| --- | --- | --- |
| Milestone | Description | Date |
| Test Plan Finalization | Complete test strategy document | 05-Feb-2025 |
| Unit Testing | Test individual modules | 08-Feb-2025 |
| Integration Testing | Test module interactions | 12-Feb-2025 |
| System Testing | Full system functionality test | 15-Feb-2025 |
| UAT | User validation and feedback | 17-Feb-2025 |
| Final Bug Fixes | Address reported issues | 19-Feb-2025 |
| Deployment Readiness | Ensure system is ready for launch | 20-Feb-2025 |

**7. Defect Management**

* **Tracking Tool:** Jira
* **Severity Levels:** Critical, Major, Minor, Trivial
* **Defect Lifecycle:** Identify → Log → Assign → Fix → Retest → Close

**8. Risk Management**

* **Risk:** Last-minute bugs
  + **Mitigation:** Regular code reviews and continuous integration
* **Risk:** Delays in UAT
  + **Mitigation:** Early user involvement in testing phases

**9. Approval**

* **Prepared By:** Shubhneet (Lead Tester)
* **Reviewed By:** Dipanshu (Project Manager)
* **Approved By:** Team Members