Test Plan: actiTIME Website Testing

1. Introduction:

- **Project Overview:** The objective of this test plan is to verify the functionality, performance, security, and usability of the actiTIME website.

- **Objective:** Ensure that the actiTIME website meets the highest quality standards, providing a reliable and user-friendly experience for time tracking and management.

- **Scope:** The testing will cover user registration, time tracking, project management, reporting, security, and compatibility across different browsers and devices.

- **Test Environment**: The testing will be conducted in various environments, including different browsers (Chrome, Firefox, Safari), devices (desktop, tablet, mobile), and operating systems (Windows, macOS, iOS, Android).

2. Test Strategy:

- **Testing Levels:** The testing will cover various levels including unit testing, integration testing, system testing, and user acceptance testing (UAT).

- **Testing Types:** The testing will encompass functional, non-functional (performance, security, usability), and compatibility testing.

- **Testing Approach:** A combination of manual testing and automated testing tools (Selenium) will be used to achieve comprehensive coverage.

3. Test Schedule:

- Test Phases: The testing process will consist of the following phases: requirements analysis, test case design, test execution, bug tracking, and reporting.

- Timeframes: The time allocated for each phase will be as follows:

- Requirements Analysis: 2 days
- Test Case Design: 5 days
- Test Execution: 10 days
- Bug Tracking: Ongoing
- Reporting: 2 days

4. Test Deliverables:

- Test Cases: Detailed test cases will be developed, covering positive and negative scenarios for each functional module of the actiTIME website.

- Test Data: Test data, including valid and invalid inputs, will be prepared for each test case.

- Test Scripts: Automated test scripts using Selenium will be developed to perform repetitive tests.

- Bug Reports: Detailed bug reports will be created, including defect description, steps to reproduce, severity, and priority.

5. Test Execution:

- Test Execution Environment: The testing will be performed on various environments including Windows, macOS, iOS, Android, using different browsers and devices.

- Test Case Execution: Test cases will be executed based on the test plan. Automated test scripts will be run for repetitive tests.

- Regression Testing: After each bug fix or code change, regression testing will be performed to ensure no new issues are introduced.

6. Testing Techniques:

- Functional Testing: Verify each functional module (user registration, time tracking, project management) as per the requirements.

- Integration Testing: Ensure proper interaction between different modules.

- Performance Testing: Evaluate website speed, responsiveness, and scalability under different user loads.

- Security Testing: Identify vulnerabilities and ensure user data protection.

- Usability Testing: Assess user-friendliness and overall user experience.

- Compatibility Testing: Verify website compatibility across different browsers, devices, and operating systems.

7. Test Data Management:

- Test Data Creation: Test data will be generated manually or using scripts to cover various scenarios.

- Test Data Privacy: Sensitive data used for testing will be managed with utmost care and compliance.

8. Risks and Assumptions:

- Risks: Potential risks include delays in test data preparation, unforeseen software behavior, or resource constraints.

- Assumptions: Assumptions include the availability of test environments and adequate resources.

9. Defect Management:

- Defect Reporting: Defects will be reported with detailed information including description, steps to reproduce, and relevant screenshots.

- Defect Resolution: Developers will fix reported defects, and testers will verify fixes.

10. Test Reporting:

- Test Execution Report: Test results will be documented, summarizing pass/fail statuses and deviations.

- Defect Report: Defect reports will be generated, and their status will be tracked until resolution.

11. Exit Criteria:

- Acceptance Criteria: Testing will be considered complete based on a predefined percentage of test cases passing successfully.

- Sign-off: Stakeholders' approval will be obtained to conclude the testing phase.

12. Conclusion:

- **Lessons Learned:** Insights gained during testing will be documented for future improvements.

- Recommendations: Suggestions for enhancing the testing process based on experience will be provided.