**TEST PLAN IEEE FORMAT:**

1. **Test Plan ID:** Unique No. or Id or Name of the test plan
2. **Introduction:** About the Project and testing
3. **Test Items:** Names of Modules/ Functions/ Services/ Features
4. **Features to Be Tested:** Responsible Modules for the Test Design
5. **Features Not to Be Tested:** Which ones to test and which ones not to test (e.g. Features of previous version of the Software)
6. **Approach:** List of testing techniques to be applied on the modules (prepared by QA/PM)
7. **Features Pass/Fail Criteria:** When above features are pass and when they fail
8. **Suspension Criteria:** Possible abnormal situations arose during testing of above features. Without recovering from these situations, you are not able to conduct testing. (Technical problems with respect to project)
9. **Test Environment:** Required hardware and software including testing tools to conduct testing
10. **Test Deliverables:** Required test documents to be prepared during testing (Test Cases, Test Procedures, Test Log, Test Report)
11. **Test Tasks:** necessary tasks to do before starting of every project testing
12. **Staff and Training Needs:** The names of test engineers and required training sessions
13. **Responsibilities:** Work allocation in terms of test engineers Vs Modules
14. **Schedule:** Dates and Times
15. **Risks and Mitigations:** Analyze risks and possible solution to overcome them
16. **Approvals:** Signatures of Test Plan Author and PM/QA

A Sample Test Plan Document for Internet Banking Application:

1. Test Plan ID: AMZ\_WEB\_TP\_001
2. **Introduction:**
3. Test Items: This document outlines the test plan for the Amazon website, focusing on its core functionalities and user experience.
4. Website modules: Homepage, Search, Product Details, Shopping Cart, Checkout, Account Management, Wish Lists, Reviews, Help & Support.
5. Features: Product browsing, searching, filtering, sorting, product details viewing, adding to cart, checkout process, account creation and management, order tracking, reviews and ratings, wishlist functionality, customer support

Features to be Tested:

* All functionalities mentioned above will be tested.
* Specific test cases will be designed to cover various scenarios and user flows.

Features Not to be Tested:

* Features still under development or not publicly available.
* Third-party integrations or functionalities outside Amazon's direct control.

Approach:

Testing techniques: Functional testing, usability testing, performance testing, security testing, cross-browser testing, mobile device testing.

Test automation: Tools like Selenium or Cypress will be used for automated regression testing.

Pass/Fail Criteria:

* Functional: Features work as intended, no errors or unexpected behavior.
* Usability: Easy to navigate, intuitive interface, clear instructions.
* Security: Secure data transmission, user authentication, protection against vulnerabilities.
* Cross-browser & mobile: Consistent functionality and UI across different browsers and devices.
* Suspension Criteria: Performance: Fast loading times, responsive UI, stable under load.
* Critical bugs impacting major functionalities.
* Major performance issues affecting user experience.
* Security vulnerabilities posing significant risks.

Unavailability of testing environment or resources

Test Environment:

* Hardware: Computers with various configurations, mobile devices.
* Software: Latest versions of popular web browsers, testing tools.
* Network: Stable internet connection with varying speeds.

Test Deliverables:

* Test plan document.
* Test cases documents.
* Test data sets.
* Test execution logs.
* Defect reports.
* Test summary report.

Test Tasks:

* Requirements review and analysis.
* Test environment setup and configuration.
* Test case development and review.
* Test data preparation.
* Test execution and logging.
* Defect reporting and tracking.
* Test result analysis and reporting.

Staff and Training Needs:

* A team of qualified testers with experience in web application testing.
* Training on specific testing tools and techniques used in the project.

Responsibilities:

* Test Lead: Overall planning, coordination, and reporting.
* Test Engineers: Design, execution, and documentation of test cases.
* Developers: Fixing defects identified during testing.

Schedule:

* Defined based on project scope and complexity, typically involving multiple iterations.

Risks and Mitigations:

* Risk: Schedule delays due to resource constraints.
* Mitigation: Early resource allocation, clear communication, and contingency planning.
* Risk: Defects impacting critical functionalities.
* Mitigation: Thorough testing, early defect identification, and prioritization of critical fixes.
* Risk: Performance issues under high load.
* Mitigation: Performance testing, optimization strategies, and infrastructure scaling.

Approvals:

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | Name | Title | Date & Signature | | [Test Lead Name] | Test Lead |  | | [Project Manager Name] | Project Manager |  |   Glossary:   * AUT: Application Under Test (Amazon website) * SRS: Software Requirement Specification   Note: This is a sample test plan and may need to be adapted based on specific project requirements and priorities.  I hope this provides a comprehensive starting point for your Amazon website test plan. Feel free to ask if you have any further questions! |  |  |