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| **Software Test Automation Virtual Internship Program**    **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 |

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| **A Sample Test Plan Document for Amazon Application:**   1. **Test Plan Id: AAP\_ST\_TP\_001** 2. **Introduction:**  * The purpose of this project report is to provide a comprehensive overview of the testing activities conducted for an e-commerce website. * The testing activities were carried out to ensure that the website functions as expected, meets the requirements, and delivers a high-quality user experience. The report includes details on the testing objectives, scope, testing approach, test environment, test activities, test results, and recommendations for improvement. * Verify the functionality of the website, including product browsing, product search, shopping cart, checkout process, payment processing, and order confirmation.  1. **Test Items:**  * User Registration * User Login * Product browsing and searching * Shopping cart functionality * Order confirmation  1. **References:**  * Requirements * Project Plan * Test Strategy * Use cases (if available) * High level Design Documents * Low Level Design Documents * Process Guide line document * Prototypes   **5.** **Features to be tested:**   * 1. User Registration:      + 1. Verify that users can register with valid details such as name, email, and password.        2. Verify that users cannot register with invalid or duplicate email addresses.        3. Verify that mandatory fields are properly validated, and error messages are displayed for missing or invalid information.        4. Verify that users receive confirmation emails after successful registration.   2. User Login:  1. Verify that users can login with valid credentials (email and password). 2. Verify that users cannot login with invalid or incorrect credentials. 3. Verify that users can reset their password in case they forget it. 4. Verify that appropriate error messages are displayed for incorrect login attempts.    1. Product browsing and searching: 5. Verify that users can search for products based on various criteria such as keywords, categories, brands, etc. 6. Verify that search results display accurate and relevant products. 7. Verify that users can filter and sort search results based on different parameters.    1. Shopping cart functionality 8. Verify that users can add products to their cart and view the cart contents. 9. Verify that users can update the quantity or remove products from the cart.    1. Order confirmation:       * 1. Verify that users receive order confirmation emails after successful purchases.   **6. Features not to be tested:** NA    **7. Entry Criteria:**  a) Test Design:  1.Team formation, Responsibilities, schedule, requirements, test case  Templets.  2. Training on domain, on automation tools.    b) Test Execution:  1.Readiness of test tab  2.Readiness of AUT  3.Requirements  4.Test case Documents  5.Test data  6.Defect Report Template Etc.…    **8) Exit Criteria:**  a) All possible test cases executed  b) Maximum defect fixed; final regression performed successfully  c) Confidence on test process  d) Time limitations  e) Budget limitations  **9) Suspension criteria: Nil**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **S.NO** | **NAME** | **ROLE** | **RESPONSIBILITIES** | **REMARKS** | | 1 | Lokesh Murala | Test Lead | Test planning, guidance, Monitoring and test control |  | | 2 | Lokesh Murala | Sr. Tester | Test data collection, Generating test scenarios |  | | 3 | Lokesh Murala | Tester | Test case documentation, test execution, defect reporting and tracking for admin module |  | | 4 | Lokesh Murala | Tester | Test case documentation, test execution, defect reporting and tracking for Personal banking module |  | | 5 | Lokesh Murala | Tester | Test case documentation, test execution, defect reporting and tracking for corporate banking module |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **SNO** | **TASK** | **DAYS** | **DURATION** | **REMARKS** | | 1 | Understanding and Analyzing requirements | 2 | 4th dec to 9th dec |  | | 2 | Review meeting | 1 | 10th dec |  | | 3 | Generating Test scenarios | 2 | 11th dec to 12nd dec |  | | 4 | Reviews | 2 | 13th dec to 14th dec |  | | 5 | Test case Documentation | 1 | 15th dec |  | | 6 | Reviews | 1 | 16th dec |  | | 7 | Test data collection | 1 | 17th dec |  | | 8 | Reviews | 1 | 17th dec |  | | 9 | Verifying Test Environment Setup | 1 | 18th dec |  | | 10 | Create Test Batches | 1 | 19th dec |  | | 11 | Sanity Testing | 1 | 19th dec |  |   **10) Roles and Responsibilities:**  **11.schedule:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 12 | Comprehensive testing | 1 | 20th dec |  | | 13 | Sanity Testing | 1 | 20th dec |  | | 14 | Selecting Test Cases | 1 | 20th Jan |  | | 15 | Regressing Testing | 2 | 21th dec to 22th dec |  | | 16 | Sanity Testing | 1 | 23th dec |  | | 17 | Selecting Test Cases | 1 | 24th dec |  | | 18 | Regression Testing cycle -2 | 2 | 25th dec to 26th dec |  | | 19 | . |  |  |  | | . | . |  |  |  | | . | . |  |  |  | | 28 | Final Regression | 1 | 26th dec |  | | 29 | Evaluating Exit Criteria | 1 | 27th dec |  | | 30 | Collecting all artifacts | 1 | 27th dec |  | | 31 | Test Summary Report | 1 | 28th dec |  |   Note: Regression Testing depends on Application and strength of Development team.  **12)Training:**  1.Training program on Amazon Domain.  2.Test Automation Training Using Katalon Tool.    **13) Risks and Mitigations: NA**  **14) Test Environment/ Lab:**  Application Type: Web Application, Internet and public.  *Server Side:*  1. Host name yash -yus707   * + - 1. Local OS Windows 11 64bit       2. Katalon version 9.1.0.212       3. Browser Chrome 120.0.0.0   *Client side:*   * Windows xp+sp2 * Support all frontend frameworks: ReactJS, AngularJS * Ms-Office * Cross-browser compatibility: Chrome, Firefox, Safari, Edge   **15) Test Deliverables:**   * Test Plan * Review reports * RTM * Test Scenario docs * Test Case Docs * Test data * Opened, closed defect report * Test summary report   **16) Approvals:**   |  |  |  |  | | --- | --- | --- | --- | | **SNO** | **TASK/S** | **AUTHOR/ RULE** | **DATE & SIGNATURE** | | 1 | Test plan documentation |  |  | | 2 | Review |  |  | | 3 | Approval |  |  |   **17) Glossary**  AUT- Application Under Test  PIN- Project initiation note  SRS- Software Requirement Specification |
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