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Introduction……………………………………………………………………………………….**1**

Objectives…………………………………………………………………………………………**1**

Scope……………………………………………………………………………………………...**1**

Testable Features………………………………………………………………………………...1

Testing Approach…………………………………………………………………………………**2**

Roles/Responsibilities……………………………………………………………………………**2**

Test Schedule……………………………………………………………………………………..**3**

Test Deliverables……………………………………………………………………………….…**3**

Entry & Exit Criteria………………………………………………………………………….……**4**

Tools…………………………………………………………………………………………..……**4**

Risks and Mitigation Plans………………………………………………………………….……**4**

Approvals……………………………………………………………………………………..……**5**



This document outlines the test plan for the automation testing of the Target Christmas Deals website. The purpose of this testing is to ensure that all functionalities work as expected and to identify any defects before the product goes live.

**Website Under Test (AUT):** [Target Christmas Deals](https://www.target.com/)



* **Objectives:**
  + Validate the functionality of the Christmas deals page.
  + Ensure that all user interactions are working correctly.
  + Verify that the API responses are accurate (if applicable).
* **Tasks:**
  + Develop automated test scripts using Cypress with Cucumber.
  + Execute test cases and report defects.
  + Conduct regression testing after bug fixes.



* **In-Scope:**
  + Functional testing of the Christmas deals page.
  + Usability testing (basic checks).
  + API testing for relevant endpoints (if applicable).
* **Out-of-Scope:**
  + Performance testing.
  + Security testing



* Display of Christmas deals on the webpage.
* Filtering options for products (by category, price, etc.).
* User interaction elements (buttons, links).
* API responses for product listings.
* Performance under load conditions.
* Security features (e.g., login/logout functionality).



* Use Behavior Driven Development (BDD) with Cucumber for writing test scenarios.
* Implement Page Object Model (POM) for better maintainability of test scripts.
* Execute tests in a CI/CD pipeline to ensure continuous integration.



| **Name** | **Role** | **Responsibilities** |
| --- | --- | --- |
| **Pooja** | Test Manager | Oversee the entire testing process, manage budget and resources, resolve conflicts. |
| **Geetika** | Test Lead | Develop test plans, assign tasks, prioritize, and monitor progress. |
| **Aditya** | Test Engineer | Write test scenarios and cases, execute test cases, track defects.  Execute regression testing, manage automation tools, and write test scripts. |



| **Task** | **Time Duration** |
| --- | --- |
| Test Plan creation | November 12 |
| Test Scenario creation | November 13 |
| Test case creation | November 14 |
| Test case Execution | November 14-15 |
| Summary Report Submission | November 15 |



| Deliverable | Description | Completion Date | Owner |
| --- | --- | --- | --- |
| **Test Plan** | Defines the testing approach and strategy. | November 12 | Aditya |
| **Test Scenarios** | High-level scenarios to guide test case creation. | November 13 | Aditya |
| **Test Cases** | Detailed test cases for functional and usability tests. | November 14 | Aditya |
| **Defect Reports** | Detailed reports of defects found during testing. | Ongoing | Aditya |



* Entry Criteria:
  + All test cases are developed and reviewed.
  + The application is deployed in a test environment.
* Exit Criteria:
  + All critical test cases have passed.
  + No high-severity defects remain unresolved.



* **Main Tools:** Developer Tool.
* Cypress for UI automation.
* Cucumber for BDD-style tests.



Identify potential risks and their mitigation strategies:

* **Risk: Changes in website structure may lead to broken tests.**
  + Mitigation: Regular communication with development teams to stay updated on changes.
* **Risk: Limited time for test execution.**
  + Mitigation: Prioritize critical test cases.
* **Risk: Performance issues may not be identified until late in development.**
  + Mitigation: Conduct performance testing early in the development cycle.



The test plan, scenarios, and summary will be reviewed and signed off by Aditya Bhardwaj.