Requirements Traceability Matrix (RTM)

## 1. Introduction

This document provides a Requirements Traceability Matrix (RTM) to ensure that all functional and non-functional requirements are covered by corresponding test cases. It helps in tracking test coverage and defect linkage.

## 2. RTM Table

| Requirement ID | Requirement Description | Business Requirement ID | Test Case ID | Test Case Description | Test Execution Status | Defect ID (if any) | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- |
| REQ-001 | User must be able to register with email and password | BR-01 | TC-001 | Verify user registration process | Passed | N/A | Functional test completed |
| REQ-002 | User must be able to log in with valid credentials | BR-02 | TC-002 | Validate login functionality | Failed | DEF-002 | Login error on Chrome |
| REQ-003 | User must be able to reset password via email | BR-03 | TC-003 | Check password reset feature | Passed | N/A | Automated test executed |
| REQ-004 | Shopping cart should retain items after logout | BR-04 | TC-004 | Verify shopping cart persistence | Blocked | DEF-005 | Issue in session management |
| REQ-005 | Checkout process should complete within 5 seconds | BR-05 | TC-005 | Measure checkout performance | In Progress | N/A | Performance test ongoing |

## 3. Explanation (Legend)

- \*\*Requirement ID\*\*: Unique identifier for each requirement.

- \*\*Requirement Description\*\*: Summary of the requirement that needs to be tested.

- \*\*Business Requirement ID\*\*: Links functional requirements to higher-level business needs.

- \*\*Test Case ID\*\*: The corresponding test case that validates the requirement.

- \*\*Test Case Description\*\*: A brief explanation of what the test case does.

- \*\*Test Execution Status\*\*: The outcome of the executed test (e.g., Passed, Failed, Blocked, In Progress).

- \*\*Defect ID (if any)\*\*: If the test case fails, this column links to the defect ID logged in the defect tracking tool (e.g., JIRA).

- \*\*Remarks\*\*: Additional comments or notes.