

MANUAL / FUNCTIONAL TESTING PROJECT – PROBLEM STATEMENT

1. Project Title

End-to-End Functional Testing of a Real-Time Web Application

2. Project Objective

Each team will select/receive one assigned web application and perform **complete manual testing activities**, including:

- Requirement analysis
 - Creating epics & user stories
 - Designing traditional test cases
 - Reporting defects
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3. Team Composition

Each team consists of **4 members**:

1. **QA Lead** – Coordinates tasks, manages JIRA board, Creates epics, user stories, test cases, logs defects
 2. **Test Engineer 1** – Creates epics, user stories, test cases, logs defects
 3. **Test Engineer 2** – Creates epics, user stories, test cases, logs defects
 4. **Test Engineer 2** – Creates epics, user stories, test cases, logs defects
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4. Assigned Applications (One per Team)

Each team will receive one of the following:

- Cyclos Payment Application
- BuyBooks Application

- Ecommerce Flipkart
 - SportsJam Web App
 - OrangeHRM Web App
 - Lenskart Web App
 - LambdaTest Ecommerce Playground
 - Khelmart Web App
 - Myntra Web App
 - Demo Web Shop – Tricentis
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5. Project Scope

Each team must complete ALL the following:

5.2 Requirement Breakdown

Each team member must:

- Identify **2 Epics** (per team member → total: 8 epics per team)
- For each epic: create **2 User Stories**
→ 2 epics × 2 stories = **4 stories per student**

Total stories per team = **16 User Stories**

6. Test Design Deliverables

6.1 Traditional Test Cases

For each user story:

- Write **1 Valid test case**
- Write **1 Invalid test case**

Per student = **2 stories × 2 cases = 4 test cases**

Per team = **16 stories × 2 cases = 32 test cases**

Each test case must follow:

Field	Description
Test Case ID	TC_Login_01
Objective	Validate login with valid credentials
Pre-conditions	User must be registered
Steps	Step-by-step action
Test Data	Input values
Expected Result	System response
Actual Result	Filled after execution
Status	Pass/Fail

7. Defect Reporting

Each student must log **minimum 2 valid defects** in JIRA.

Defect fields must include:

- Defect ID
- Summary
- Steps to Reproduce
- Expected Result
- Actual Result
- Severity
- Priority
- Screenshot

- Module

Total defects per team = **6 minimum**

9. Marks Split-Up (Total = 50 Marks)

Component	Marks
Epics & User Stories (clarity, acceptance criteria)	10
Traditional Test Cases (valid, invalid)	20
Defect Reporting (realistic & clear)	10
Project Documentation & Submission Quality	10
Total	50

10. Submission Requirements

Each team must submit:

A. PDF Document (Main Report)

Must contain:

1. Project Title & Team Members
 2. Selected Application Overview
 3. Epics & User Stories (table format)
 4. Traditional test cases
 5. Defect report summary
 6. Conclusion & observations
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