TechnoReady In-Mexico

Challenge 8 – Testing Procedures for Operational Issues

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November 18th, 2025

Tracking Tables

Table 1 – Requirements list

Sprint	Requirements
Sprint 1: **Equivalence Class Design (Black-Box Analysis)** Focus: Identify valid and invalid value ranges for each input field of the banking application and justify them using the equivalence class technique.	• Analyze the problem description and list all input fields required by the online banking application: bank code, branch code, account number, personal key, order value. • Define business rules/assumptions (expected length, numeric/alphanumeric, required fields). • Create equivalence classes (valid & invalid) per field, including boundaries and invalid categories. • Build a table with class identifier, description, range/category, valid/invalid examples. • Prepare PDF executive presentation.
Sprint 2: **Test Case Design (12 Black-Box Test Cases)** Focus: Design 12 detailed test cases derived from equivalence classes.	• Use Sprint 1 equivalence classes to design 12 representative test cases. • Each test case must include: ID, description, input data, expected result, initial/final state. • Include valid, invalid, and boundary combinations. • Add a column to indicate alignment with valid/invalid equivalence classes. • Build Excel report with cover page, introduction, and the test case table.
Sprint 3: **Java Simulation & Input Validation** Focus: Implement a Java simulation validating user inputs based on equivalence classes.	• Develop a Java program that simulates bank code, branch code, account number, personal key, and order value inputs. • Implement validation logic based on equivalence classes. • Include at least 3 representative test case executions (valid, boundary, invalid). • Provide clear success/error messages. • Deliver a .java file and README.txt explaining how to run the program. • Request third-party review and document

	findings.
Final Project: **Document Analysis & Results for the whole project**	• Make a video presentation explaning Analysis & Result of the Challenge 6.

Table 2: Prioritize list

Requirements	Stages (Steps)	Time Estimation	Deliverables
Equivalence Class Definition	1) Identify all input fields 2) Define business rules 3) Create valid/invalid classes 4) Produce examples	3h	EquivalenceClassesTable.pdf
Equivalence Class Documentation (PDF Presentation)	1) Write introduction 2) Build table 3) Justify decisions 4) Assemble PDF	2h	Sprint1_Presentation.pdf
Test Case Design (12 Cases)	1) Select combinations 2) Define inputs & expected results 3) Include valid/invalid/boundary 4) Assign IDs	4h	12_Test_Cases.xlsx
Test Case Documentation (Excel File)	1) Create cover page 2) Build full test table 3) Add validity column 4) Format file	1.5h	TestCases_Report.xlsx
Java Simulation – Input Validation Logic	1) Implement validation 2) Handle errors 3) Produce messages 4) Ensure compile/run	4h	BankSimulation.java
Java Simulation – Test Case Execution Examples	1) Implement examples 2) Print expected vs	2h	ConsoleExecutionEvidence.txt

	actual 3) Document results		
README for Running Simulation	1) Requirements 2) Compile/run instructions 3) Explain sample input	1h	README.txt
Third-Party Review	1) Review Java file 2) Review README 3) Apply corrections	1h	PeerReviewNotes.txt
Findings & Best Practices Report	1) Summarize errors 2) Describe impact 3) Document lessons	1h	Findings_Report.md
Final Review & Access Config	1) Ensure Digital NAO access 2) Validate organization and consistency 3) Perform final project check	1.5h	evidence/README.md, repo ready

As the User Stories was an exercise already made in Challenge 1, All this backlog was made according to Challenge 8 requirements for All 3 Sprints and Final Project.