

Q1. Design five new test cases for recharge using different operators.

Answer:

Test Case ID	Objective	Test Steps / Input	Expected Output	Actual Output	Status
TC_OP_01	Recharge using Jio operator	Mobile: 9876543210, Operator: Jio, Amount: ₹149	Recharge successful	Recharge successful	Pass
TC_OP_02	Recharge using Airtel operator	Mobile: 9123456789, Operator: Airtel, Amount: ₹199	Recharge successful	Recharge successful	Pass
TC_OP_03	Recharge using Vodafone-Idea	Mobile: 9988776655, Operator: VI, Amount: ₹299	Recharge successful	Recharge successful	Pass
TC_OP_04	Recharge using BSNL operator	Mobile: 9090909090, Operator: BSNL, Amount: ₹99	Recharge successful	Recharge successful	Pass
TC_OP_05	Recharge using MTNL operator	Mobile: 9012345678, Operator: MTNL, Amount: ₹249	Recharge successful	Recharge successful	Pass

Q2. Perform negative testing for blank and special character inputs.

Test Case ID	Objective	Test Steps / Input	Expected Output	Actual Output	Status
TC_NEG_01	Blank mobile number	Mobile: Blank, Operator: Jio, Amount: ₹100	Error: "Mobile number required"	Error displayed	Pass
TC_NEG_02	Blank operator selection	Mobile: 9876543210, Operator: Not selected, Amount: ₹100	Error: "Select operator"	Error displayed	Pass
TC_NEG_03	Blank recharge amount	Mobile: 9876543210, Operator: Airtel, Amount: Blank	Error: "Enter recharge amount"	Error displayed	Pass
TC_NEG_04	Special characters in mobile number	Mobile: 98@#5432\$%	Error: "Invalid mobile number"	Error displayed	Pass
TC_NEG_05	Special characters in amount field	Mobile: 9876543210, Amount: ₹1@0	Error: "Invalid amount"	Error displayed	Pass

3. Execution of Test Cases (Expected vs Actual Outcome)

- All valid operator recharge test cases resulted in successful recharge.
- All negative test cases correctly displayed validation error messages.

- One defect was observed during blank input testing.

4. Defect Identification and Suggested Fix

Field	Description
Defect ID	DEF_RECH_02
Defect Title	Recharge processed with blank mobile number
Severity	High
Description	System allows recharge even when mobile number field is blank
Expected Behavior	System should block transaction and show error message
Actual Behavior	Recharge proceeds without validation