Company Logo

Test Cases



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Document Control

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Introduction

This document contains the test cases for the Financial Management System (FMS). Each test case describes a specific test scenario, including preconditions, test steps, expected results, and traceability to requirements.

The test cases are categorized by type:

- Functional: Tests that verify the system functions according to requirements
- Performance: Tests that verify the system meets performance requirements
- s Security: Tests that verify the system meets security requirements
- U Usability: Tests that verify the system meets usability requirements

Functional Test Cases

TC001 Create Budget

Test Type



Functional

Description

Verify that a Finance Manager can create a new budget with annual, quarterly, and monthly views.

Preconditions

- User is logged in with Finance Manager role
- Chart of accounts is configured
- Fiscal year is defined

Test Steps

Step	Action	Expected Result
1	Navigate to Budget Management module	Budget Management dashboard is displayed
2	Select "Create New Budget" option	Budget creation form is displayed
3	Enter budget name, fiscal year, and description	Input is accepted and validated
4	Select accounts to include in budget	Budget line items for selected accounts are displayed
5	Enter budget amounts for each account by period (monthly/quarterly)	System calculates totals and validates entries
6	Save budget	Budget is saved with "Draft" status
7	View budget in annual, quarterly, and monthly views	Budget is displayed correctly in all three views

Expected Results

Budget is created successfully and can be viewed in annual, quarterly, and monthly formats.

Traceability

• Requirements: BR001, FR001

• User Stories: US001

• Acceptance Criteria: AC001, AC002



Functional

Description

Verify that a Finance Manager can create and compare multiple what-if budget scenarios.

Preconditions

- User is logged in with Finance Manager role
- A draft budget exists in the system

Test Steps

Step	Action	Expected Result
1	Navigate to Budget Management module	Budget Management dashboard is displayed
2	Open existing draft budget	Budget details are displayed
3	Select "Create Scenario" option	Scenario creation interface is displayed
4	Create Scenario 1 with 5% revenue increase	Scenario 1 is created and saved
5	Create Scenario 2 with 10% expense reduction	Scenario 2 is created and saved
6	Create Scenario 3 with both 5% revenue increase and 10% expense reduction	Scenario 3 is created and saved
7	Select "Compare Scenarios" option	Comparison view shows all scenarios side by side

Expected Results

At least 3 different budget scenarios can be created and compared side by side.

Traceability

• Requirements: BR002, FR003

• User Stories: US003

• Acceptance Criteria: AC004, AC005





Performance

Description

Verify that the system can support at least 100 concurrent users without performance degradation.

Preconditions

- System is deployed in test environment
- Load testing tools are configured
- Test data is available

Test Steps

Step	Action	Expected Result
1	Configure load testing tool to simulate 25 concurrent users	Load testing tool is configured
2	Run test with common user scenarios (login, view dashboard, generate report)	System handles 25 users with response times under 2 seconds
3	Increase load to 50 concurrent users	System handles 50 users with response times under 2 seconds
4	Increase load to 75 concurrent users	System handles 75 users with response times under 3 seconds
5	Increase load to 100 concurrent users	System handles 100 users with response times under 3 seconds
6	Monitor system resources (CPU, memory, network) during test	Resource utilization remains below 80% threshold

Expected Results

System maintains acceptable performance with 100 concurrent users, with response times under 3 seconds and resource utilization below 80%.

Traceability

• Requirements: NFR001

• User Stories: N/A

• Acceptance Criteria: N/A



Performance

Description

Verify that all reports generate within 5 seconds, even with large data sets.

Preconditions

- System is deployed in test environment
- Test data includes at least 100,000 transactions
- Performance monitoring tools are configured

Test Steps

Step	Action	Expected Result
1	Login as Finance Manager	User is logged in successfully
2	Navigate to Financial Reporting module	Reporting dashboard is displayed
3	Generate P&L report for current month	Report generates within 5 seconds
4	Generate P&L report for current quarter	Report generates within 5 seconds
5	Generate P&L report for current year	Report generates within 5 seconds
6	Generate Balance Sheet report	Report generates within 5 seconds
7	Generate Cash Flow report	Report generates within 5 seconds

Expected Results

All reports generate within 5 seconds, regardless of the reporting period or data volume.

Traceability

• Requirements: NFR002 • User Stories: US005

• Acceptance Criteria: N/A

Security Test Cases

TC015 Data Encryption Test

Test Type



Security

Description

Verify that all financial data is encrypted at rest and in transit.

Preconditions

- System is deployed in test environment
- Security testing tools are configured
- Database access is available for verification

Test Steps

Step	Action	Expected Result
1	Use network packet capture tool to monitor data transmission	Tool is configured and capturing packets
2	Login to the system and perform financial transactions	Transactions are completed successfully
3	Analyze captured packets	All data is transmitted using HTTPS/
4	Attempt to read sensitive data from captured packets	Data cannot be read in clear text
5	Access database directly and examine financial data tables	Sensitive financial data is stored in encrypted format
6	Verify encryption key management procedures	Keys are securely stored and rotated according to policy

Expected Results

All financial data is encrypted during transmission (TLS) and storage (database encryption).

Traceability

• Requirements: NFR003

• User Stories: N/A

• Acceptance Criteria: N/A



Security

Description

Verify that the system enforces password complexity requirements.

Preconditions

- System is deployed in test environment
- User account creation functionality is available

Test Steps

Step	Action	Expected Result
1	Login as System Administrator	User is logged in successfully
2	Navigate to User Management module	User Management interface is displayed
3	Create a new user with password "password"	System rejects password as too simple
4	Try password "Password1"	System rejects password (missing special character)
5	Try password "Pass1"	System rejects password (too short)
6	Try password "Password1!"	System accepts password
7	Verify password history enforcement	System prevents reuse of recent passwords

Expected Results

System enforces password complexity requirements: minimum 8 characters, at least one uppercase letter, one lowercase letter, one number, and one special character.

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