

Introduction

The Test Plan outlines the scope, approach, resources, and timeline for all testing activities related to the Guru99 Bank project. It specifies the items and features to be tested, the types of testing to be conducted, the personnel assigned to testing, the necessary resources and schedule for completion, as well as the risks involved with the plan.

1

TEST STRATEGY

1.1 Scope of testing

1.1.1 Functionality that requires testing

All the features of websiteGuru99 Bank that were outlined in the software requirement specifications need to be tested.

Module Name	Applicable Roles	Description
New Customer	Manager	Manager: A manager can add a new customer.
Delete Customer	Manager Manager	Manager: A manager can edit details like address, email,telephone of a customer A customer can only be removed if they do not have any active current or savings accounts. Manager: A manager has the authority to delete a customer.
New Account	Manager	Currently system provides 2 types of accounts <ul style="list-style-type: none">• Saving

		<ul style="list-style-type: none"> • Current <p>Customer: A customer can have multiple saving accounts .</p> <p>Manager: A manager can add a new account for an existing customer.</p>
Edit Account	Manager	Manager: A manager has the ability to edit the account details for an existing account
Delete Account	Manager	Manager: A manager has the ability to add or delete a customer's account.
Mini Statement	Manager, Customer	<p>A mini statement displays the last 5 transactions of an account.</p> <p>Customer: A customer can view the mini-statement for only their own accounts.</p> <p>Manager: A manager has access to the mini-statement of any account.</p>
Customized Statement	Manager, Customer	<p>Customer: A customer can view the customized statement for only their own accounts.</p> <p>Manager: A manager has access to the customized statement for any account.</p>

1.1.2

Feature not to be tested

These feature are not be tested because they are not included in the software requirement specs

- User Interfaces
- Hardware Interfaces
- SoftwareInterfaces
- Database logical
- Communications Interfaces
- Website Security and Performance

1.2

Test Type

In the Guru99 Bank project, there are three types of testing that need to be performed.

Integration Testing: This involves combining individual software modules and testing them as a group.

System Testing: This is conducted on a fully integrated system to assess its compliance with the specified requirements. - API Testing: This entails testing all the APIs created for the software being evaluated.

1.3 Test Logistics

1.3.1

Who will conduct the testing? The project should utilize outsourced members as testers to reduce costs.

1.4.2

When will the testing take place? The testing will commence once all of the following inputs are prepared:

- Software is ready for testing
- Test Specification has been created
- Test Environment is established
- Sufficient human resources are available for testing

2

TEST OBJECTIVE

The goals of the test are to confirm the functionality of the Guru99 Bank website. The project should concentrate on evaluating banking operations, including Account Management, Withdrawals, and Balance checks, among others, to ensure that all these operations can function properly in a real business environment

3

TEST CRITERIA




If the Team members report that there are 40% of test cases failed, suspend testing until the development team fixes all the failed cases

4



TEST ENVIRONMENT

The Test Environment should be setup as below

1. Client Devices





-  Desktop (Windows 10, macOS)
-  Mobile (Android 10+, iOS 14+)
-  Tablets (Optional for responsive layout testing)

2. Browsers

-  Google Chrome (latest version)
-  Mozilla Firefox

-  Safari (for iOS/macOS testing)

3. Servers

-  Application Server (e.g., Tomcat, WebLogic)
-  Web Server (e.g., Apache, Nginx)
-  Middleware for transaction processing (if any)
-  Backup server (for recovery testing)

5

TEST DELIVERABLES

The deliverables for testing are outlined below:

5.1 Before the testing phase:

- Test plans document.
- Test cases documents.
- Test design specifications.

5.2 During the testing:

- Test tools.
- Simulators.
- Test data.
- Test traceability matrix.
- Error logs and execution logs.

5.3 After the testing cycles are complete:

- Test results/reports.
- Defect report.
- Installation/test procedure guidelines.
- Release notes.

6

SCHEDULE & ESTIMATION

Schedule to complete these tasks

Task	Members	Estimate effort
Develop the testing specification	Test Designer	3 man/hour
Perform Test Execution	Tester, Test Administrator	20 man/hour
	Total	22 man/hour

7

RESOURCE PLANNING

Human Resources for Banking App Testing

No.	Member	Tasks
1	QA Team	Test Lead Responsible for planning, strategy, and reporting. Manual Testers Perform functional, UI, regression, and scenario-based testing.
2	Development Team	Complete the test suite, test program, and test cases.
3	Test Administrator	Establishes and maintains a test environment and its associated assets

8

Tests Risks & Mitigation

Risk	Mitigation
It's hard to finish this job on time because the schedule is too tight.	Make sure that each test task has a SetTestPriority.
Lack of cooperation reduces staff productivity.	Encourage each team member in his or her task and inspire them to make greater attempts.
Incorrect budget estimates and cost overruns	Prior to starting work, determine the scope, focus heavily on project planning,

