TEST PLAN

Abstract

This document provides an overview of the project and the product test strategy, a list of testing deliverables and plan for development

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VERSION HISTORY

Version #	Write by	Revision Date	Approved By	Approval Date	Outline
1.0	*Krishna Rungta*	*2021/12/12*	*Peter*	*2021/12/24*	Test Plan create

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INTRODUCTION

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project Bank.

The plan identify the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

1 TEST STRATEGY

1.1 Scope of Testing

1.1.1 Feature to be tested

All the feature of website which were defined in software requirement specs are need to bested

Module Name	Applicable Roles	Description
Balance Enquiry	Manager Customer	**Customer:** A customer can have multiple bank accounts. He can view balance of his accounts only **Manager:** A manager can view balance of all the customers who come under his supervision
Fund Transfer	Manager Customer	**Customer:** A customer can have transfer funds from his "own" account to any destination account. **Manager:** A manager can transfer funds from any source bank account to destination account
Mini Statement	Manager Customer	A Mini statement will show last 5 transactions of an account **Customer:** A customer can see mini-statement of only his "own" accounts **Manager:** A manager can see mini-statement of any account
Customized Statement	Manager Customer	A customized statement allows you to filter and display transactions in an account based on date, transaction value **Customer:** A customer can see Customized- statement of only his "own" accounts **Manager:** A manager can see Customized -statement of any account
Change Password	Manager Customer	**Customer:** A customer can change password of only his account. **Manager:** A manager can change password of only his account. He cannot change passwords of his customers
New Customer	Manager	**Manager:** A manager can add a new customer.
	Manager	**Manager:** A manager can edit details like address, email, telephone of a customer.
New Account	Manager	Currently system provides 2 types of accounts • Saving • Current A customer can have multiple saving accounts (one in his name, other in a joint name etc).

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		He can have multiple current accounts for different companies he owns. Or he can have a multiple current and saving accounts. **Manager:** A manager can add a new account for an existing customer.
Edit Account	Manager	**Manager:** A manager can add a edit account details for an existing account
Delete Account	Manager	**Manager:** A manager can add a delete an account for a customer.
Delete Customer	Manager	A customer can be deleted only if he/she has no active current or saving accounts **Manager:** A manager can delete a customer.
Deposit	Manager	**Manager:** A manager can deposit money into any account. Usually done when cash is deposited at a bank branch.
Withdrawal	Manager	**Manager:** A manager can withdraw money from any account. Usually done when cash is withdrawn at a bank branch.

1.1.2 Feature not to be tested

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

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

1.2 Test Type

In the project, there’re 3 types of testing should be conducted.

- **Integration** Testing (Individual software modules are combined and tested as a group)
  - **System** Testing: Conducted on a **complete**, **integrated** system to evaluate the system's compliance with its specified requirements
  - **API testing:** Test all the APIs create for the software under tested

1.3 Risk and Issues

	Risk	Mitigation
	Team member lack the required skills for website testing.	Plan **training course** to skill up your members
	The project schedule is too tight; it's hard to complete this project on time	Set **Test Priority** for each of the test activity.
	Test Manager has poor management skill	Plan leadership training for manager

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A lack of cooperation negatively affects your employees' productivity	**Encourage** each team member in his task, **and inspire** them to greater efforts.
Wrong budget estimate and cost overruns	Establish the scope before beginning work, pay a lot of attention to project planning and constantly track and measure the progress

1.4 Test Logistics

1.4.1 Who will test?

The project should use **outsource** members as the tester to save the project cost

1.4.2 When will test occur?

The tester will start the test execution when all the following inputs are ready

- Software is available for testing
- Test Specification is created
- Test Environment is built
- Enough human resource for testing

2 TEST OBJECTIVE

The test objectives are to **verify** the Functionality of website Bank, the project should focus on testing the **banking operation** such as Account Management, Withdrawal, and Balance…etc. to **guarantee** all these operations can work **normally** in real business environment.

3 TEST CRITERIA

3.1 Suspension 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.

3.2 Exit Criteria

Specifies the criteria that denote a **successful** completion of a test phase

- **Run** rate is mandatory to be **100%** unless a clear reason is given.
- **Pass** rate is **80%,** achieving the pass rate is **mandatory**.

4 RESOURCE PLANNING

4.1 System Resource

No.	Resources	Descriptions
1.	Server	Need a Database server which install MySQL server Web server which install Apache Server

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2.	Test tool	Develop a Test tool which can auto generate the test result to the pre-defined form and automated test execution
3.	Network	Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s
4.	Computer	At least 4 computer run Windows 7, Ram 2GB, CPU 3.4GHZ

4.2 Human Resource

No.	Member	Tasks
1.	Test Manager	Manage the whole project Define project directions Acquire appropriate resources
2.	Test	Identifying and describing appropriate test techniques/tools/automation architecture Verify and assess the Test Approach Execute the tests, Log results, Report the defects. Outsourced members
3.	Developer in Test	Implement the test cases, test program, test suite etc.
4.	Test Administrator	Builds up and ensures test environment and assets are managed and maintained Support Tester to use the test environment for test execution
5.	SQA members	Take in charge of quality assurance Check to confirm whether the testing process is meeting specified requirements

5 TEST ENVIRONMENT

The Test Environment should be setup as figure below

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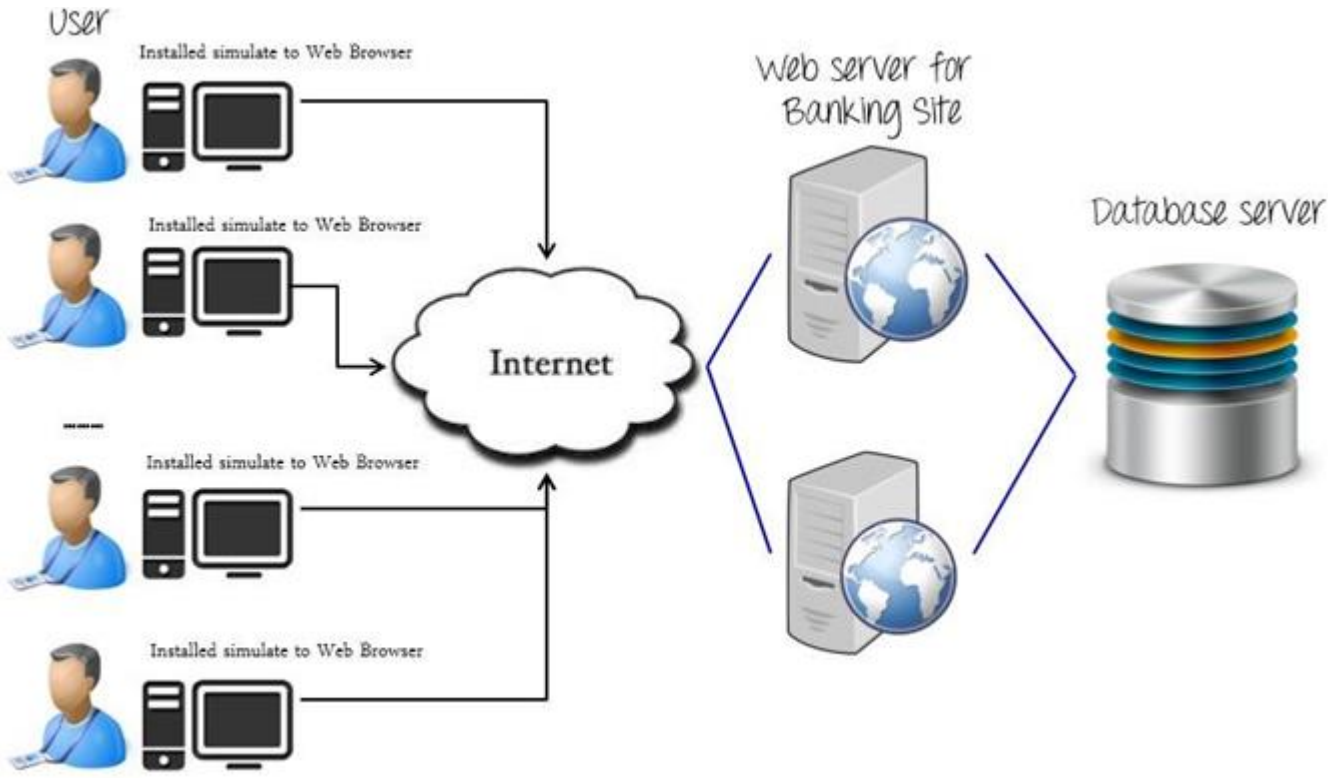

6 SCHEDULE & ESTIMATION

6.1 All project task and estimation

Task	Members	Estimate effort
Create the test specification	Test Designer	170 man-hour
Perform Test Execution	Tester, Test Administrator	80 man-hour
Test Report	Tester	10 man-hour
Test Delivery		20 man-hour
Total		**280 man-hour**

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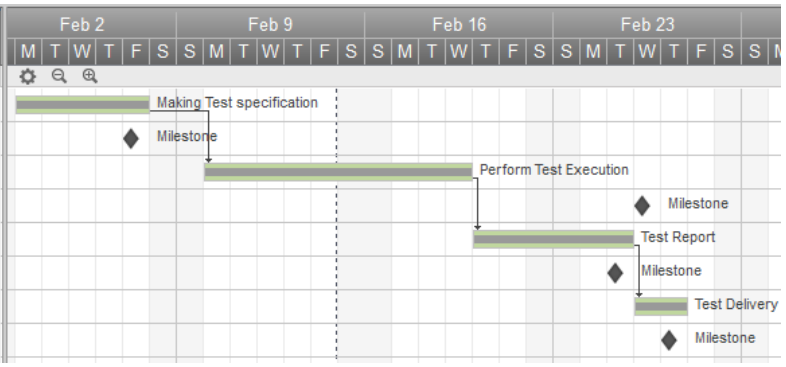
6.2 Schedule to complete these tasks

Task Name	Start Date	End Date
Making Test specification	**02/03/14**	**02/07/14**
Milestone	02/07/14	02/07/14
Perform Test Execution	**02/10/14**	**02/19/14**
Milestone	02/26/14	02/26/14
Test Report	**02/20/14**	**02/25/14**
Milestone	02/25/14	02/25/14
Test Delivery	**02/26/14**	**02/27/14**
Milestone	02/27/14	02/27/14



7 TEST DELIVERABLES

Test deliverables are provided as below

7.1 Before testing phase

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

7.2 During the testing

- Test Tool
- Simulators.
- Test Data
- Test Trace-ability Matrix
- Error logs and execution logs.

7.3 After the testing cycles is over

- **Test Results/reports**
- Defect Report
- Installation/ Test procedures guidelines
- **Release notes**

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