TEST PLAN

ON

ONLINE BANKING SYSTEM

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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 on online Banking system. The plan identifies 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 online Banking system which were defined in software requirement specs are need to best.

|  |  |  |
| --- | --- | --- |
| **MODULE NAME** | **APPLICATION ROLES** | **DESCRIPTION** |
| Balance Enquiry | 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 | 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 |  | 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 |  | 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 |  | He cannot change passwords of his customers |
|  | Customer | A customer can change password of only his account. |
|  | Manager | A manager can change password of only his account. |
| New Customer | Manager | : A manager can add a new customer. |
|  | Manager | A manager can edit details like address, email, telephone of a customer. |
| New Account |  | 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).  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 | A manager can add a edit account details for an existing account |
| Delete Account | Manager | : A manager can add a delete an account for a customer. |
| Delete Customer |  | A customer can be deleted only if he/she has no active current or saving accounts. |
|  | Manager | A manager can delete a customer. |
| Deposit |  | Usually done when cash is deposited at a bank branch. |
|  | Manager | A manager can deposit money into any account. |
| Withdrawal |  | Usually done when cash is withdrawn at a bank branch. |
|  | Manager | A manager can withdraw money from any account. |

**1.1.2 Feature not to be tested**

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

1. User Interfaces
2. Hardware Interfaces
3. Software Interfaces
4. Database logical
5. Communications Interfaces
6. Website Security and Performance

**1.2 Test Type**

* In the project Online Banking system, there are 3 types of testing should be conducted.

1. **Integration:**

Testing (Individual software modules are combined and tested as a group).

1. **System Testing:**

Conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements.

1. **API testing:**

Test all the APIs create for the software under tested.

**1.3 Risk and Issues**

**RISK MITIGATION**

|  |  |
| --- | --- |
| Team members 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 |
| 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

1. **TEST OBJECTIVE**

The test objectives are to verify the Functionality of website online Banking system, 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**

* 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.

* 1. **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**

|  |  |  |
| --- | --- | --- |
| **SNo.** | **Resources** | **Descriptions** |
| **1.** | Server | Need a Database server which install MySQL server Web server which install Apache Server. |
| **2.** | Test tool | Develop a Test tool which can auto generate the test result to the predefined 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**

|  |  |  |
| --- | --- | --- |
| **SNO.** | **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.

USERID PASSWORD TO LOGIN

CHECKING

BANK WEBSITE

USER

YES

DATABASE

BANKING SYSTEM

OTHER SERVICES

CREDIT CARD

TRANSACTION DETAILS OF ACCOUNT

ONLINE PAYMENT

TRANSFERS OF FUNDS

**6 SCHEDULE & ESTIMATION**

**6.1 All project task and estimation**

|  |  |  |
| --- | --- | --- |
| **Task** | **Members** | **Estimate effort** |
| Create the test specification | Test Designer | 170 man-hours |
| Perform Test Execution | Tester, Test Administrator | 80 man-hours |
| Test Report | Tester | 10 man-hours |
| Test Delivery |  | 20 man-hours |
| Total |  | 1. n-hours |

**6.2 Schedule to complete these tasks**

**Graphical user interface

Description automatically generated**

**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.

**\*\*\*\*\*\*THANK YOU\*\*\*\*\*\***