**ABC Banking Project Test Plan**

version 4.0

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1. **Test plan Identifier**

Test plan Identifier is a unique number to identify our test plan. Our ABC Banking Project will be identified as a ABC\_001.

1. **Introduction**

This document describes some test functionality of ABC Bank project website which is PHP-based, using a MySQL database and HTML components. The ABC Bank project aims to provide net banking facility to its customers. This release will have limited features. Over a period of time, new and new functionalities will be added to the site. It includes the objectives, scope, test responsibilities, entry and exit criteria, schedule major milestones, approaches, risk, and acronyms.

1. **Test Items**

**3.1Feature to be tested**

Fund Transfer

Payers account no

-Payers Account Number must not be blank

-Special characters are not allowed

-Characters are not allowed

Payees account no

-Payees Account Number must not be blank

-Special characters are not allowed

-Characters are not allowed

Amount

-Amount Field must not be blank

-Characters are not allowed

-Special characters are not allowed

• Description

-Description cannot be blank

Submit

-click the submit button (Please fill All files)

Reset

--click the Reset button

Login

User

-ID must not be blank

Password

-must not be blank

Change Password

• Old Password

- Old password must not be blank

• New Password

-New Password must not be blank

-Enter at-least one numeric value

-Enter at-least one special character

-Choose a difficult Password

• Confirm Password

-Confirm Password must not be blank

-Passwords do not match

• Submit

-click the submit button

- required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Balance enquiry

• Account No (Drop down for Customer)

-Account no must not be blank

-Special character are not allowed

-Characters are not allowed

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Mini Statement

• Account No

-Account No must not be blank

-Special character are not allowed

-Characters are not allowed

• Submit

-click the submit button

-required part must be fill up

-any blank part are not accepted

• Reset

-click the reset button

Customized Statement

• Account No

-Account number must not be blank

-Special character are not allow

-Character are not allowed

• From Date

-select from calendar (month/day/year)

• To Date

-select from calendar (month/day/year)

• Minimum Transaction Value

-Characters are not allowed

-Special character are not allowed

-Amount lower limit is required

• Number of Transaction

-Minimum Transaction Value must not be blank

-Characters are not allowed

-Special character are not allowed

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

New Customer

• Customer Name

-character are allow

-blank are not allow

-special character and number are not allow

-set e maximum rang

• Gender

-not be blank

-radio button (must be select anyone)

• Date of Birth

-select from calendar (month/day/year)

• Address

-Address Field must not be blank

-Address - First character cannot have space

-Address - Special characters are not allowed

• City

-Special character are not allowed

-City Field must not be blank

-Numbers are not allowed

-First character cannot have space

• State

-Numbers are not allowed

-State must not be blank

-Special characters are not allowed

-First character cannot have space

• PIN

-Characters are not allowed

-PIN Code must not be blank

-Special characters are not allowed

-PIN Code must have 6 Digits

-First character cannot have space

• Mobile Number

-Mobile no must not be blank

-Special character are not allowed

-Character are not allowed

-First character cannot have space

• Email Id

-Email ID must not be blank

-Email ID is not valid

-First character cannot have space

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

New Account

• Customer Id

-Customer ID is required

-Special character are not allowed

-Characters are not allowed

-First character cannot have space

• Account Type

-savings

-current

• Initial deposit

-Initial Deposit must not be blank

-Special character are not allowed

-Character are not allowed

-First character cannot have space

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Deposit

• Account Number

-Account no must not be blank

-Special character are not allowed

-Characters are not allowed

• Amount Deposit

-Amount field must not be blank

-Special character are not allowed

-Characters are not allowed

• Description

-Description must not be blank

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Withdraw

• Account Number

-Account no must not be blank

-Special character are not allowed

-Characters are not allowed

• Amount

-Amount Field must not be blank

-Characters are not allowed

-Special characters are not allowed

• Description

-Description cannot be blank

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Fund Transfer

• Payers Account Number

• Payees Account Number

• Amount

• Description

-Description cannot be blank

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Change Password

• Old Password

• New Password

• Confirm Password

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Delete Customer

• Customer Id

-Customer ID is required

-Special character are not allowed

-Characters are not allowed

-First character cannot have space

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Edit Account

• Account Number

-Account No must not be blank

-Special character are not allowed

-Characters are not allowed

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Form after submitting Edit Account

• Customer Id (Disabled)

• Account Type (Drop Down - Saving or Current)

• Balance (Disabled)

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Delete Account

• Account Number

-Account no must not be blank

-Special character are not allowed

-Characters are not allowed

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

Edit Customer

• Customer Id

• Submit

• Reset

Form after submitting Edit Customer

• Customer Name (Disabled)

• Gender (Disabled)

• Date of Birth (Disabled)

• Address

• City

• State

• PIN

• Mobile Number

• Email Id

• Submit

-click the submit button

-required part must be fill up

-any blank part is not accepted

• Reset

-click the reset button

**Functional validation**s

**Balance Enquiry**

Manager

F1 Manager can view balance of accounts associate with him

F2 Account number entered should exist in database

**Customer**

F3 Customer can view balance of only his accounts

F4 Account number entered should exist in database

**Fund Transfer**

Manager

F5 If these source and destination account numbers are invalid, system displays an error

“Account ### does not exist!!!”

F6 If these source and destination account numbers are same, system displays an error

F7 If the source account does not have the necessary balance, system displays an error

F8 If the source account does not associated with manager, System displays an error

Customer

F9 If the destination account number is not valid, system displays an error “Account ###

does not exist!!!”

F10 If these source and destination account numbers are same, system displays an

error

F11 If the source account does not have the necessary balance, system displays an

error

F12 If the source account is not associated with customer itself, System displays an

error.

**Withdrawal**

Manager

F13 If source account number is invalid, system displays an error

F14 If source account does not have the necessary balance, system displays an error

F15 If source account does not associate with manager, System displays an error.

Customer

F16 If source account number is invalid, system displays an error

F17 If source account does not have the necessary balance, system displays an error

F18 If source account does not associate with customer, System displays an error.

**Deposit**

Manager

F19 If destination account number is invalid, system displays an error

F20 If destination account number does not associate with manager, System displays an

error.

Customer

F21 If destination account number is invalid, system displays an error

F22 If destination account number does not associate with customer, System displays

an error.

**Delete Customer**

Manager

F23 If Customer Id is invalid, system displays an error.

F24 If account associate with Customer Id, System displays an error.

F25 If Customer Id does not associate with manager, System displays an error.

Delete Account

Manager

F26 If Account Number is invalid, system displays an error

F27 If account does not associate with manager logged in, System displays an error.

**Edit Account**

Manager

F28 If Account Number is invalid, system displays an error.

F29 If Account number does not associate with manager, System displays an error. On

success, Account details must be shown.

**New Account**

Manager

F30 If Customer ID is invalid, system displays an error.

F31 If initial deposit is less than 500, System displays an error.

F32 If Customer Id does not associate with manager, System displays an error. On

success account detail must be shown.

**New Customer**

Manager

F33 If same Email Id exists in the system, system shows an error. On success, user

registration details must be shown.

Edit Customer

Manager

F34 If same Email Id exist in the system, system shows an error.

F35 If Customer Id is invalid, System displays an error.

F36 If Customer Id does not associate with Manager, System displays an error. On

success, user registration details must be shown.

**Change Password**

Manager

F37 If Old Password is invalid, System shows an error.

Customer

F38 If Old Password is invalid, System displays an error

**Customized Statement**

Manager

F39 If account no is invalid, System displays an error

F40 If from Date is greater than To Date, System displays an error.

Customer

F41 If account no is invalid, System displays an error

F42 If from Date is greater than To Date, System displays an error.

**Mini Statement**

Manager

F43 If account no is invalid, System displays an error

F44 If transaction not exists in system, System displays an error.

F45 If account not associate with manager itself, System displays an error.

Customer

F46 If account no is invalid, System displays an error.

F47 If account associate with customer itself, System displays an error.

**Balance Enquiry**

Manager

F48 If account no is invalid, System displays an error

Customer

F49 If account no is invalid, System displays an error

**3.2 Feature not to be tested**

* Any feature that will add later
* Automation
* No QA support for mobile application developed. Only web service will
* be tested.

1. **Quality Objective:**

In this part, it utilized that our ABC bank project can be fulfilled the quality of customer. This Test Plan's goal is to assure system reliability, as well as optimal performance and capacity utilization. This test plan compares the application's performance against end user expectations in both the current and new production environments. Basically, Enhancement and upgrade to the existing system are being tested.

1. **Test Methodologies:**

This project will be managed using agile approach, with work being updated on a weekly basis. The work is distributed on and will be carried out in accordance with the requirement-based strategy outlined in this test plan. After each step, each feature will be evaluated separately and in conjunction with the others, and results should be submitted on time. During exploratory testing, test cases should be created. The following are the testing approaches (in scope/out scope):

* 1. **Test Levels:**

**In Scope:**

* Non-functional testing like stress, performance is beyond scope need to be tested of this project.
* Functional testing (Black Box Testing) & external interfaces are in scope and need to be tested
* Security Testing (Payment) (to check how the software or application or website is secure from internal and external threats)
* UAT (For a tester’s perspective)
* Regression Testing (Existing functionalities will be validated as part of regression tests), (Repeated testing of same module)

**Out of Scope:**

*  Database Testing.
*  API Testing (Output Format-JSON)
*  Automation Testing
  1. **Test Strategy:**

**Test Cases Preparation & Execution:**

* QA will be preparing test cases. This will cover all scenarios for requirements.
* After that, QA Lead give them comment or suggestions on test cases and test coverage if needed.
* Author rework on it, and will send for approval. Rework will be reviewed and approved by reviewer.
* Respective QA will execute Test Cases on test site based on designed scenarios, test cases and
* Test data.
* Actual result with expected result are match or mismatch, based on that Test result will be updated pass/fail in test case document.

**Defect Logging and Reporting:**

* The defect/bugs will be recorded in the prospective management tool by QA. Following that, QA will notify the appropriate developer of the defect/bugs that have been logged.

**Deployment/Delivery:**

* Once all the bugs are done, no other bug are found, report will be deployed to test site by Project Manager.
* If it’s required to delivered the report along with sample, or hard-copy QA will handover it to that person.

1. **Roles & Responsibilities:**

|  |  |  |
| --- | --- | --- |
| **Role** | **Contact Name and Information** | **Responsibilities** |
| Project Manager | Ami Bari ami23@gmail.com | The primary contact for the development and QA team.  Participate in Test Scenarios and Test Case review.  Responsible for Project schedule and the overall success of the project  Verify sign Off on Requirements, Test Scenarios, Test Cases. |
| QA Lead | Sam Patrick sma2@gmail.com | Identify the resources, estimation and base on that make test plan ,review and sign off.  Report progress on work assignments to the Project manager.  Monitor quality metrics and performance  throughout each testing phase.  Monitor QA burn down rate and status. |
| QA Engineer | Smith Bob smith43@gmail.com | Preparing of test scenarios.  Preparing of test case.  Preparing of Test Data  Review on test cases.  Preparing RTM  Test case sign-off  Execute test case  Preparing test report  Identifying defects  Log in Defects and keep tracking.  Coordinate with QA Lead for any issues or problems encountered during test  preparation/execution/defect handling. |
| Project sponsor | John Smith john3@gmail.com | Changes to the SRS either from the development, testing team or the client side will be  communicated |
| Lead Software Eng. | Nick Price nick5@gmail.com | Make software plan with other team members.  Give the final approval with Lead QA engineer |

**6.Entry & Exit Criteria**

**6.1 Entry Criteria**

* Understand Requirement and SRS Document (FRS, BRS Design document)
* Test Plan
* User case [for better understand]
* Test Scenarios Approved
* Test Case Approved
* Test data
* Unit test case should be pass

**6.2 Exit Criteria**

* Defect Report
* Test Case Report
* No high priority is left outstanding.
* UAT Test Evidence Collected
* Test Coverage achieved
* Test Closure Memo completed and signed off.

**7.Suspension Criteria & Resumption Requirement**

Based on the client decision we will suspend and resume the project.

**8.Resources & Environment Needs**

**8.1 Resources**

|  |  |
| --- | --- |
| **Description** | **Tool** |
| Need a Database server which install MySQL  server Web server which install Apache Server | Server |
| Setup a LAN Gigabit and 1 internet line with the  speed at least 5 Mb/s | Network |
| Windows 10, Ram 4GB, CPU 3.4GHZ | Computer |
| Automation testing tools | Tool |
| Defect management and test report | Jira |

**8.2 Testing Tools**

|  |  |
| --- | --- |
| **Process** | **Tool** |
| Test Case Creation | Microsoft Excel |
| Test Case Tracking | Microsoft Excel |
| Test Script creation | Automation by PyCham |
| Test Case Execution | Manual |
| Test Case Management | Microsoft Excel |
| Defect Management | Jira |
| Test Reporting | Microsoft Excel and jira |
| API Testing | Postman |

**8.3 Configuration Management:**

* Github

**8.4 Test Environment**

**Support level (browsers):**

* Chrome version 27 and above

**Only web service will be tested.**

**9.Test Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task Name** | **Start** | **Finish** | **Done By** | **Estimated time** |
| FRS | 5-03-2022 | 12-03-2022 | Jon | 7 day |
| Test Planning | 13-03-2022 | 13-03-2022 | Ram | 1 day |
| Review Requirements Documents | 14-03-2022 | 18-03-2022 | Joni | 4 day |
| Staff and train new test resource | 19-03-2022 | 27-03-2022 | Honey | 7 day |
| First deploy to QA test environment | 29-03-2022 | 15-04-2022 | Mina | 18 day |
| Functional Testing: Iteration 1 | 3-04-2022 | 5-04-2022 | Jon | 2 day |
| Iteration 2 deploy to QA test environment | 6-04-2022 | 7-04-2022 | Joni | 2day |
| Functional Testing: Iteration 2 | 9-04-2022 | 11-04-2022 | rimi | 2 day |
| System Testing | 12-04-2022 | 15-04-2022 | honey | 3 day |
| Regression testing | 17-04-2022 | 19-04-2022 | himi | 2 day |
| Retesting | 20-04-2022 | 22-04-2022 | jony | 2 day |
| UAT | 24-04-2022 | 25-04-2022 | mina | 1 day |
| Resolution of final defects and final build testing | 26-04-2022 | 29-04-2022 | ram | 4 day |
| Deploy to staging environment | 1-05-2022 | 5-05-2022 | rimi | 4 day |
| Performance Testing | 6-04-2022 | 9-04-2022 | Himi | 4 day |
| Release to production | 10-05-2022 | 15-05-2022 | honey | 5 day |

1. **Deliveries**

**Before testing phase:**

● FRS document.

● Test plans document.

● Test scenario.

● Test cases documents

● Test Design specifications.

**During The Testing:**

* Test Tool Simulators
* Test Data
* Test Traceability Matrix

**After the testing cycle over:**

* Test Report
* Defect Report
* Release Note

1. **Risk & Assumptions**

**Risk:**

*  In old / no-updated browser, system may fail to load
* Server may be slow if many user login same time
* If they didn’t Get transaction details from server
* If a manager can change password of his all customer account.
* In case of a wrong budget estimation, the cost may be increase
* If test plan are not make proper way, work can done on time with good quality
* If experience and knowledge employer are hire, that can be the cost and completed the project need more time.

**Assumptions:**

* For some optimization of resource, test plan may be fail
* Maintain backup resource
* Availability of test tools
* Skill level of resource
* 100% bug free
* All work can done automate tools

1. **Terms/Acronyms**

|  |  |
| --- | --- |
| **Terms/Acronyms** | **Definition** |
| M | Manager |
| C | Customer |
| API | Application Programming Interface |
| FRS | Functional Requirement Specification |
| UAT | User Acceptance Testing |
| QA | Quality Assurance |
| RTM | Requirement Traceability Matrix |

1. **Approvals**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Date** |
| Nick Price | Lead Software Eng. | 29-11-2013 |
| Sam Patrick | Lead QA Engineer | 29-11-2013 |
| John Smith | Project Sponsor | 29-11-2013 |