Shree Swaminarayan College of Computer Science
Sardarnagar, Bhavnagar.
(Affiliated to M. K. Bhavnagar University)

Progress Report Number:	3
Project Title	Master Budget
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Submission Date	
Signature of Students	
Signature of Guide	

1   Testing:

⇨ **Definition:**

- The testing is necessary to fulfill the goal of Website that is cost, quality and schedule. If the Website is not tested then customer will not be satisfied and after that our website will come in maintenance stage and sometimes maintenance cost becomes more than developing the Website. So, Website become costly.

- Testing is an Activity; however, it is restricted to being performed after the development phase is complete, but is carried parallel with all stages of system development, starting with requirement specification.

- In this system we can testing overall system as customer need, that can check that any error or any unknown code occur and checked it. that make system error free and more predictable. In the testing it can tested by other people for better result. it called Beta testing when other people tested the system.

⇨ **Testing Plan:**

- The main Objective of doing testing is to identify all defects existing in website. Basically, the testing of website consists of providing the program with a set of test inputs (test case) and observing that whether the website behaves as expected.

- Testing is the process of executing a program with the explicit intention of finding errors, which makes the program fail. The tester is actually trying to make the program fail. A successful test is the one that finds errors.

⇨ **Testing Approach:**

- There are some testing approaches like,

  1. Unit Testing
  2. integration testing
  3. White Box Testing
  4. Performance testing

1. Unit Testing:

- Unit testing was done after the coding phase. The purpose of the unit testing was to locate errors in the current module, independent of the other modules. Finally, all the modules were individually tested following bottom to top approach, starting with the smallest and lowest modules and then testing one at a time.

- The modules in the project allocated to each of the individuals were tested individually for errors and a list of all the errors were compiled and the code was reworked to remove the errors encountered. We had tested each and every module such as valid admin login, user login, worker register, etc.

- Thus, as a first step, the modules were first individually made error free.

2. Integration Testing:

- Once the unit was over, all the modules were integrated for integration testing. External and internal interfaces are implemented and work as per design, the performance of the module is not degraded.

- This testing is a systematic technique for constructing the program structure while at same time conducting tests to uncover errors associated with interfacing. All the modules testing in the unit testing are integrated and are tested for their interdependency. This system mainly works on the integration of all the services.

3. White Box Testing:

- This method of software testing tests internal structures or workings of an android app, as opposed to its functionality (i.e. black-box testing). In white-box testing, internal perspectives of the app, as well as programming skills, are required and used to design test cases. The tester chooses inputs to exercise paths through the code and determine the appropriate outputs.

- This android app is properly tested as both the side admin and user that can be checked as any bug has occur and solved it.

4. Performance Testing:

- This was done for checking the amount of time the app would take to process a request or perform certain functionality by performing queries and observing how long it took to execute and accomplish them.

- In Performance testing we counted the processing time and response from the server with respect to request. We also checked out the total execution time. On the click of the mouse, we get the result.

5. Test Case

- In the simplest form, a test case is a set of conditions or variables under which a tester determines whether the software satisfies requirements and functions properly.

- A test case is a single executable test which a tester carries out. It guides them through the steps of the test.

- You can think of a test case as a set of step-by-step instructions to verify something behaves as it is required to behave.

- A test case usually contains:
    o Title
    o Description
    o Input Data
    o Expected Result
    o Actual Result (once tested)
    o Status

Shree Swaminarayan College of Computer Science
MASTER BUDGET

1. Registration

Test Case No:	1
Title	Registration
Description	This test case allows to register user.
Input Data	Enter user registration detail.
Expected Result	Case 1- In Registration User Can Enter Details (Name, Email-ID, Select Country, Password). Case 2 – If password less then 8 Char/Digits then it will show error message" Please, Enter Strong Password". Case 3 - If User has entered Email which already exist in database, then it will show error message" Email id already exists". Case 4 – If Password and Re-password both are different then it will show message "Please, Enter Valid Password". Case 5 – If Email ID and Password are as per Requirements then it will show message "Account Created ".
Actual Result	System allowed user registration
Status	Pass.

2. Login

Test Case No:	2
Title	Login Verification
Description	This test case allows the USER/ADMIN to access the system.
Input Data	Enter valid Username and Password
Expected Result	This test case will check the Username and Password from the Account table in MySQL database Case 1 - If entered Username and Password are match as Admin Details, then it will open admin side page. Case 2 - If entered Username and Password are match from Account Table, then it will open User side page. Case 3 - If Username and Password is entered and doesn't match, then it will show error message "Please Enter Correct Login Details".
Actual Output	System works properly
Status	Pass.

3. Forget Password

Test Case No:	3
Title	Forgot Password
Description	This test case allows us to change password
Input Data	Enter Email id.
Expected Result	This test case will allow us to change a password. Case 1- In forgot Password if Email id not correct, then it will show error message "Email-ID does not exist in Database".
Actual Result	System allowed to change password.
Status	Pass.

4. New Transaction

Test Case No:	4
Title	Add New Transactions
Description	This test case allows to Add New Transactions detail in Transactions
Input Data	Enter transaction details
Expected Result	This test case will allow to check enter all fields to insert into transactions table Case 1- In new transactions add/select the category then it will allow us to submit it. Case 2 – In new transactions all fields are not entered, then it will show error message "Please fill out this field".
Actual Result	System allows to New Transaction detail.
Status	Pass.

5. Add Category

Test Case No:	5
Title	Categories
Description	This test case allows to add categories name in add categories
Expected Result	This test case will allow to check whether the user entered categories name or not in Categories Master. Case 1- In Categories user entered the categories name, then it will allow us to submit it. Case 2 - In Categories user does not enter the categories name, then it will show error message "Please fill out all field".
Actual Result	System allowed to insert categories name.
Status	Pass.

6. Report Generate

Test Case No:	6
Title	Generate Report
Description	This test case allows to apply filter and generate Report
Input Data	Enter Search value and Date between transactions
Expected Result	This case allows to enter Search value and Date between Transactions for generate report Case 1- In Report enter Search value and Date between transactions, If search value and date find from database then it will generate Report for download.
Actual Result	System generate report
Status	Pass.

7. Add Investment

Test Case No:	7
Title	Add Investment
Description	This test case allows to add Investment details in Investments by Admin
Expected Result	This test case will allow to check whether the admin enter Investment Details or not in Investment.
	Case 1- In Investment Admin entered the Investment details, then it will allow us to submit it.
	Case 2 - In Investment Admin does not enter the Investment details, then it will show error message "Please fill out all field".
Actual Result	System allowed to insert categories name.
Status	Pass.

2 Limitation of system, Future of system

2.1   Limitation of system

- o **Download Report**: A master budget is support only download Report. That can not allow to Import/Export any other file. Download only PDF format.
- o **Bank Account**: User can add only one bank account.
- o **Limited Customization:** Predefined templates may not fit all business needs. Custom reports and formats may not be flexible.
- o **Transactions:** User can enter transactions manually.

2.2   Future of system

- o **Mobile App Development:** Expand to Android and iOS platforms for enhanced accessibility.
- o **Multiple Currency Support:** Enable transactions in different currencies (**Note:** only static currency).
- o **Cloud Integration:** Sync data with cloud services like Google Drive and Dropbox for backup.