



Details

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GENESIS - Learning Outcome and Mini-project Summary Report



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Miniproject -1 [Team]

Module: JavaScript and Jasmine Framework, and SDLC

Topic and Subtopics

Design of a Bank Web page:

- For designing the webpage, we have used HTML and CSS language to provide structure and style to our webpage
- In this java script is being used to make the web page more interactive.

Jasmine Framework Unit Testing

• We had implemented Jasmine framework to test our JavaScript application.

Selenium Automation Testing

• we had automated our web page using selenium.

Objectives & Requirements

Objectives

Our Objective is to create a Web page for a bank which consists of the following requirements:

High level Requirements

H1 - Home Page

H2 - Banking

H3 - Loans

H4 - Online Services

H5 - Terms and Conditions

H6 - First Time User

H7 – Login

Low Level Requirements

1) H1 - Home Page:

The homepage consists of login option and other information about banking, loan, help and services.

2) H2 - Banking:

This includes various low level requirements as follows:

L1-online banking

- L1_1- My Accounts
- L1 2- My Transactions
- L1 3- Net Banking
- L1_4- Online Offers
- L1 5- Mobile Banking

L2-services



- L2_1-Statement on Email
- L2_2-Online Services

L3-Other useful links

- L3 1-FATCA and CRS
- L3 2-Interest Rate
- L3_3-Terms and conditions
- 3) H3 Loans

L1-Online Loans

- L1_1-Personal Loan
- L1_2-Apply for Loan on Credit Card
- L1_3-Home Loan
- L1 4-Business Loan

L2-Useful links

- L2 1-FATCA and CRS
- L2_2-Interest Rate
- L2 3-Terms and conditions
- 4) H4 Online Services

L1-Net Banking

■ L1_1-login

L2-Mobile banking

L2_1-Learn More

L3-Online Transactions

■ L3 1-Go online

L4-Statement on Email

- L4 1-Check now
- 5) H5 Terms and Conditions

L1-FATCA and CRSN

L2-Interest Rate

L3-T&C

- 6) H6 First Time User
- 7) H7 Login



Design

Behavioral Diagrams

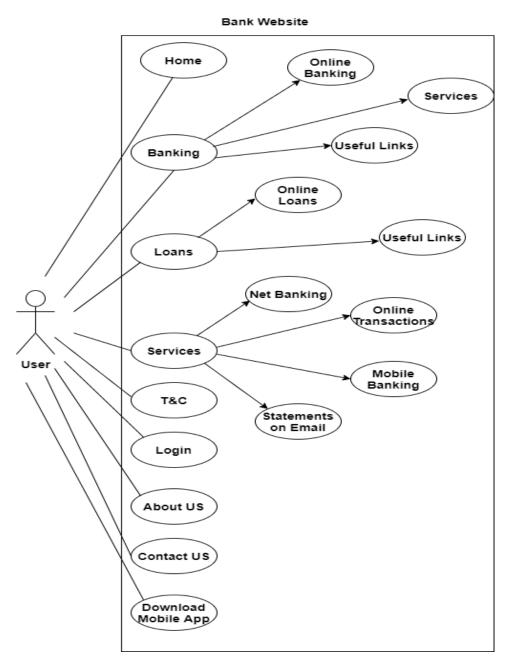


Figure 1: User Case Diagram



Structural Diagrams

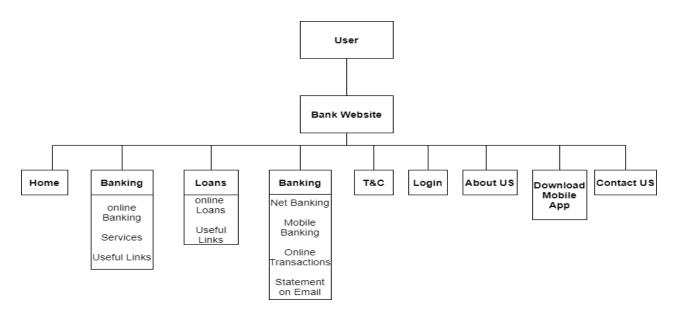


Figure 2: Object Diagram

Test Plan

Test ID	Test Description	Input	Expected Output	Result
H1	To test the Home option on the	Click on the	It should show redirect the	Pass
	homepage	option	user to the homepage	
H2	To test the Banking option on the	Click on the	It should redirect the user	Pass
	homepage	option	to the banking page	
Н3	To test the Loans option on the	Click on the	It should redirect the user	Pass
	homepage	option	to the loans page	
H4	To test the Services option on the	Click on the	It should redirect the user	Pass
	homepage	option	to the services page	
H5	To test the T&C option on the	Click on the	It should redirect the user	Pass
	homepage	option	to the T&C page	
Н6	To test the register option on the	Click on the	It should redirect the user	Pass
	homepage	option	to the registration page	
H7	To test the forgot password option	Click on the	It should redirect the user	Pass
	on the homepage	option	to the forgot password	
			page	
H2_L1	To test the customer ID field in the	Enter the	It should take in the	Pass
	My Account page	customer ID	customer ID if it's in the	
			right format or shows an	
			error	



H2_L2	To test the password/PIN field in the My Account page	Enter the password/PIN	The password/PIN should be given in the correct format or an error is thrown	Pass
H2_L3	To test the customer ID field in the My Transactions page	Enter the customer ID	It should take in the customer ID if it's in the right format or shows an error	Pass
H2_L4	To test the password/PIN field in the My Transactions page	Enter the password/PIN	The password/PIN should be given in the correct format or an error is thrown	Pass
H2_L5	To test the customer ID field in the Net Banking page	Enter the customer ID	It should take in the customer ID if it's in the right format or shows an error	Pass
H2_L6	To test the Credit Card/Debit Card radio buttons in the Net Banking page	Select an option from the two radio buttons	Selected button(Credit/Debit Card)	Pass
H2_L7	To test the valid through field in the Net Banking page	Enter the expiry date	It should take in the expiry date if it's in the right format or shows an error	Pass
H2_L8	To test the password/PIN field in the Net Banking page	Enter the password/PIN	The password/PIN should be given in the correct format or an error is thrown	Pass
H2_L9	To test the customer ID field in the Statement on email page	Enter the customer ID	It should take in the customer ID if it's in the right format or shows an error	Pass
H2_L10	To test the e-mail address field in the Statement on email page	Enter the email address	It should take in a valid email address or shows an error	Pass
H2_L11	To test the password/PIN field in the Statement on email page	Enter the password/PIN	The password/PIN should be given in the correct format or an error is thrown	Pass
H3_L1	To test the full name field in the Personal loan page	Enter the full name	The full name should be given in the correct format or an error is thrown	Pass
H3_L2	To test the email address field in the Personal loan page	Enter the email address	The email address should be given in the correct format or an error is thrown	Pass



H3_L3	To test the Phone No. field in the Personal loan page	Enter the phone no	The phone no. should be given in the correct format or an error is thrown	Pass
H3_L4	To test the gender radio buttons in the Personal loan page	Select an option from the two radio buttons	Selected button(Male/Female)	Pass
H3_L5	To test the Account No. field in the Personal loan page	Enter the bank account no.	The bank account no. should be given in the correct format or an error is thrown	Pass
H3_L6	To test the IFSC code field in the Personal loan page	Enter the IFSC code	The IFSC code should be given in the correct format or an error is thrown	Pass
H3_L7	To test the Branch field in the Personal loan page	Enter the branch	The branch should be given in the correct format or an error is thrown	Pass
H3_L8	To test the Name field in the Apply for Loan on Credit Card page	Enter the name	The name should be given in the correct format or an error is thrown	Pass
H3_L9	To test the Phone No. in the Apply for Loan on Credit Card page	Enter the Phone No.	The Phone No. should be given in the correct format or an error is thrown	Pass
H3_L10	To test the Credit Card No. in the Apply for Loan on Credit Card page	Enter the Credit Card No.	The name should be given in the correct format or an error is thrown	Pass
H3_L11	To test the Password/PIN field the Apply for Loan on Credit Card page	Enter the Password/PIN	The password/PIN should be given in the correct format or an error is thrown	Pass
H3_L12	To test the name field in the Home loan page	Enter the name	The name should be given in the correct format or an error is thrown	Pass
H3_L13	To test the Phone No. field in the Home loan page	Enter the Phone No.	The Phone No. should be given in the correct format or an error is thrown	Pass
H3_L14	To test the address field in the Home loan page	Enter the address	The address should be given in the correct format or an error is thrown	Pass
H3_L15	To test the gender radio buttons in the Personal loan page	Select an option from the two radio buttons	Selected button(Male/Female)	Pass
H3_L16	To test the branch field in the Home loan page	Enter the branch	The branch should be given in the correct format or an error is thrown	Pass



H3_L17	To test the amount field in the Home	Enter the	Valid amount should be	Pass
	loan page	amount	given or an error is thrown	
H3_L18	To test the Loan Tenure field in the	Enter the Loan	Valid Loan Tenure should	Pass
	Home loan page	Tenure	be given or an error is	
			thrown	
H3_L19	To test the Name field in the	Enter the Name	Valid name should be	Pass
	Business loan application page		given or an error is thrown	
H3_L20	To test the Phone No. field in the	Enter the Phone	The Phone No. should be	Pass
	Business loan application page	No.	given in the correct format	
			or an error is thrown	
H3_L21	To test the address field in the	Enter the	The address should be	Pass
	Business loan application page	address	given in the correct format	
			or an error is thrown	
H3_L22	To test the gender radio buttons in	Select an option	Selected	Pass
	the Business loan application page	from the two	button(Male/Female)	
		radio buttons		
H3_L23	To test the branch field in the	Enter the branch	The branch should be	Pass
	Business loan application page		given in the correct format	
			or an error is thrown	
H3_L24	To test the amount field in the	Enter the	Valid amount should be	Pass
	Business loan application page	amount	given or an error is thrown	
H3_L25	To test the Loan Tenure field in	Enter the Loan	Valid Loan Tenure should	Pass
	Business loan application page	Tenure	be given or an error is	
			thrown	

Table 1: Test Plan

Implementation Summary

- Here we have implemented HTML and CSS language to give a structure and style to the webpage.
- Using JavaScript, we have made our web page more interactive and dynamic in nature and have made our web page more functional.
- We have implemented the Jasmine framework here to test our JavaScript application.
- Lastly we have automated the webpage by using selenium.

Video Summary

 $\frac{\text{https://github.com/99002634/2009MYSEMB03-JavaScript-1/blob/main/JavaScript} \ \ miniproject/6 \ \ Images and Videos/GENESIS% 20-2009MYSEMB03-\\ \% 20 JavaScript Mini% 20 Project.rar}{}$

GitHub Link

https://github.com/99002634/2009MYSEMB03-JavaScript-1



GitHub Dashboard

The below screenshot shows the GitHub Dashboard of the JavaScript mini-project.

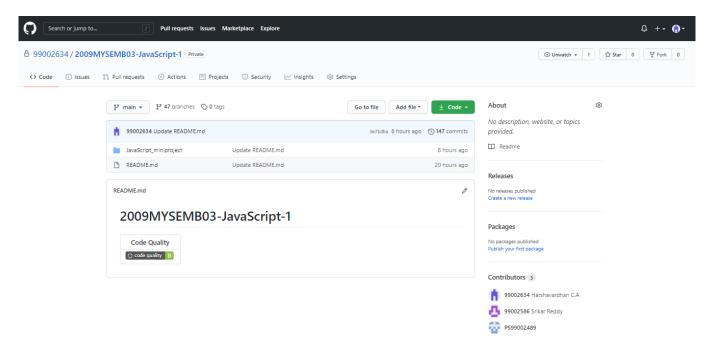


Figure 3: GitHub Dashboard

Summary

Code quality and Issues or Bug Tracking

The below screenshot shows the code quality of the JavaScript mini-project.

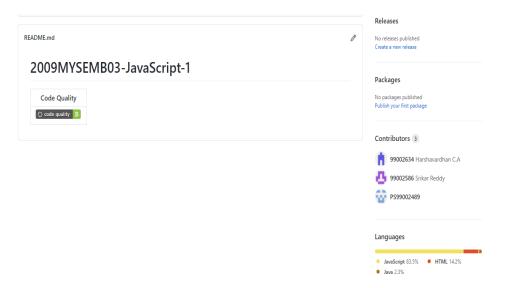


Figure 4: Code Quality Badge



Bug Tracking

- 1. Initially the "Login Now" button on the homepage was redirecting to the wrong webpage, but the problem is solved.
- 2. Unable to automate the login page because of wrong login credentials.

Unit Testing

These are the unit tests for every functionality:

```
Testing the Business Loan Application
 o Check for Full Name

    Check for Phone No.

    Check for Address

 Check for Branch
 O Check for Business Name
    Check for Amount

    Check for Loan Tenure

• Testing the Create Account
 o Check for First Name

    Check for Last Name

 o Check for Phone No.
 Check for E-mail Address
 Check for Address

    Check for Password

    Check for Confirm Password

 Testing the Forgot Password
 Check for Customer ID
 O Check for E-mail Address
  Testing the Home Loan
 o Check for Name
 o Check for Phone No.

    Check for Address

    Check for Branch

    Check for Amount

    Check for Loan Tenure

 Testing the Apply for Loan on Credit Card
 o Check for Name
 Check for Phone No.Check for Credit Card No.Check for PIN
 o Check for Password
 Testing the Account Login

    Check for Customer ID

 Check for PIN

    Check for Password

 Testing the To check Transaction Details
 Check for Customer ID
 O Check for PIN
 o Check for Password
```



```
Testing the Net Banking
  Check for Customer ID

    Check for Valid Through

    Check for Password

  Check for PIN
   Testing the Personal Loan Application form
  o Check for Full Name
  Check for E-mail Address
  o Check for Phone No.
  o Check for Account No.
  Check for IFSC

    Check for Branch

   Testing the Statement on E-mail
  o Check for Customer ID
  O Check for E-mail Address
O Check for Password
O Check for PIN
                                                                                                                                                         Options
Jasmine 3.6.0
                                                                                                                                                   finished in 0.049s
47 specs, 0 failures
Testing the Business Loan Application
• Check for Full Name
  • Check for Phone No.
  • Check for Address
  • Check for Branch

    Check for Business Name
    Check for Amount

  • Check for Loan Tenure
 Testing the Create Account
  · Check for First Name
  • Check for Last Name

    Check for Phone No.
    Check for E-mail Address

  · Check for Password

    Check for Confirm Password

 Testing the Forgot Password
  · Check for Customer ID
  · Check for E-mail Address
Testing the Home Loan
  • Check for Name
  · Check for Phone No.
  • Check for Address

    Check for Branch
    Check for Amount

  • Check for Loan Tenure
 Testing the Apply for Loan on Credit Card

    Check for Name
    Check for Phone No.

  • Check for Credit Card No.
  • Check for PIN
  • Check for Password
```

Figure 5: Jasmine Framework Unit Testing Results



Individual Contribution & Highlights

99002634 (Harshavardhan C.A):

- 1. Created AboutUS.html file
- 2. Created Home.html file
- 3. Created Loans.html file
- 4. Created MyTransactions.html file
- 5. Created OnlineOffers.html file
- 6. Created StatementsOnEmail.html file
- 7. Created UsefulLinks.html file
- 8. Created BankwebsiteSpec.js file
- 9. Created Bankwebsite.js file

99002586 (B. Srikar Reddy):

- 1. Created FirstTimeUser.html file
- 2. Created LoanonCreditCard.html file
- 3. Created MyAccount.html file
- 4. Created Functions.js file
- 5. Created NetBanking.html file
- 6. Created OnlineServices.html file

99002489 (Smita Senapati):

- 1. Created BusinessLoan.html file
- 2. Created ForgotPassword.html file
- 3. Created HomeLoan.html file
- 4. Created MobileBanking.html file
- 5. Created PersonalLoans.html file

Challenges faced and how were they overcome

We are Unable to build the JavaScript file because we didn't have the JSON file in our project.