

WIPRO

CAPSTONE PROJECT PRESENTATION

BANKING LOAN AND FINANCIAL TRANSACTION AUTOMATION TESTING

- Batch no 3
- Trainer : Mr.Vishal Gupta

Presented By :
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WHAT WE DEVELOPED

- ParaBank Web Application Automation Testing
- URL : <https://parabank.parasoft.com/parabank/login.htm>

TECHNICAL STACK LEARNED AND USED

- Language: Java
- Automation Tool: Selenium WebDriver
- Testing Framework: TestNG
- Reporting: TestNG Reports + Extent Report (with detailed financial logs)
- Project Management Tool : JIRA integrated with Zephyr

PARABANK WEB APPLICATION


- ParaBank is an online banking system for managing accounts and loans.
- Users can create accounts, transfer money, pay bills, and check transaction history.
- It allows users to apply for loans and manage their finances easily.
- The website is used for automation testing practice in banking scenarios.

TYPES OF TESTING AND TOOLS USED

Types of Testing:

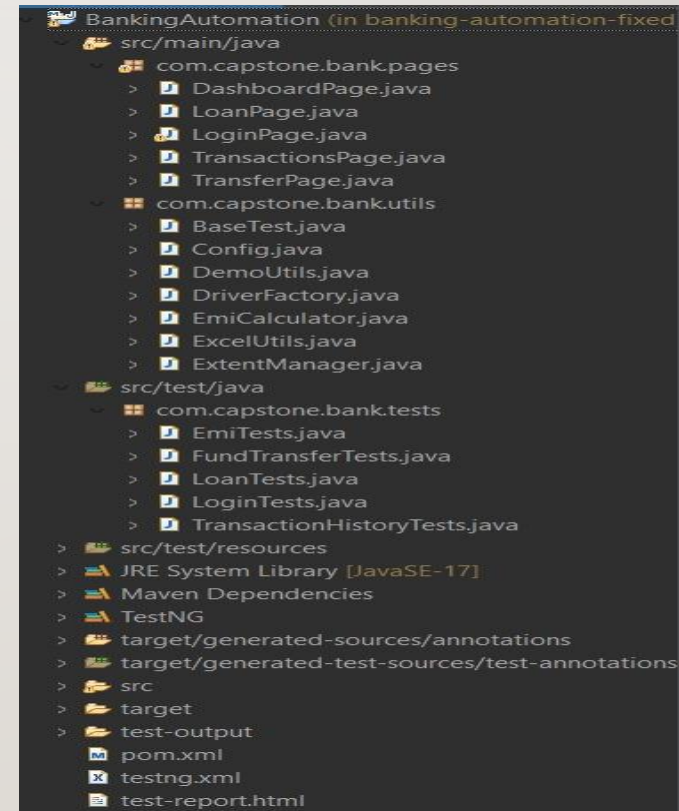
- Manual Testing of all functionalities.
- Automation Testing using Selenium WebDriver ,BDD & TestNG.

Tools & Frameworks Used:

- Maven for build management.
 - Page Object Model (POM) for organized automation framework.
 - Developed and executed in Eclipse IDE.
 - GitLab for version control (code pushed to repository).
 - ExtentReports for detailed test reporting.
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AUTOMATION FRAMEWORK

- Automation framework in Eclipse IDE



GITHUB REPOSITORY

The screenshot shows a GitHub repository page for 'BankingAutomationProject' by user 'charanchowdarychava'. The repository is public and has 0 stars, 0 forks, and 0 watchers. The main content area displays a list of files and folders with their commit history. The files include .settings, src, target, test-output, .classpath, .factorypath, .project, pom.xml, test-report.html, and testng.xml. The commit history for each file shows the commit message, the commit hash, and the time since the commit. The 'pom.xml' file was updated 11 hours ago, while all other files were committed 13 hours ago. The right sidebar contains sections for 'About', 'Releases', 'Packages', and 'Languages'. The 'About' section has no description. The 'Releases' section has no releases published. The 'Packages' section has no packages published. The 'Languages' section shows a bar chart of the repository's language composition: HTML (77.4%), CSS (0.6%), Java (7.4%), and JavaScript (5.6%).

charanchowdarychava / BankingAutomationProject

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

BankingAutomationProject Public

Pin Watch 0 Fork 0 Star 0

master 1 Branch 0 Tags

Go to file Add file Code

charanchowdarychava Update pom.xml efa1fc3 · 11 hours ago 5 Commits

.settings	initial commit	13 hours ago
src	initial commit	13 hours ago
target	initial commit	13 hours ago
test-output	initial commit	13 hours ago
.classpath	initial commit	13 hours ago
.factorypath	initial commit	13 hours ago
.project	initial commit	13 hours ago
pom.xml	Update pom.xml	11 hours ago
test-report.html	initial commit	13 hours ago
testng.xml	initial commit	13 hours ago

About

No description, website, or topics provided.

Activity

0 stars

0 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Languages

HTML 77.4% CSS 0.6% Java 7.4% JavaScript 5.6%

<https://github.com/charanchowdarychava/BankingAutomationProject/commit/a5815545335a3ff644664a1b7af73d6251bcb90>

AUTOMATION APPROACH

- Executed test cases for Banking Loan & Financial Transactions using Selenium WebDriver and JUnit.
- Implemented Page Object Model (POM) to separate web element locators and test logic, improving code reusability and maintenance.
- Used Maven for build management, handling dependencies, and running feature files efficiently.
- Developed and executed automation scripts in Eclipse IDE, integrating with Junit for test execution and reporting.
- Maintained all project code in GitHub repository for version control, tracking changes, and collaboration.
- Generated detailed execution reports using HTML Reports, including screenshots and logs for better test analysis.
- Focused on functional automation of core banking features like account creation, fund transfer, and loan applications.

HTML REPORTS

1 suite

Switch Retro Theme

Test results

All suites

BankingAutomationSuite

Info

- C:\Users\sivap\Downloads\banking-automation-fixed\testng.xml
- 5 tests
- 5 groups
- Times
- Reporter output
- Ignored methods
- Chronological view

Results

- 10 methods, 10 passed
- Passed methods (hide)
 - homeLoan_request_shouldReturnResult
 - invalidLogin
 - personalLoan_request_shouldReturnResult
 - transactions_shouldAppearAfterTransfer
 - transferFunds_shouldShowResultPage
 - validLogin
 - validateEmi(5000.0, 12.0, 12)
 - validateEmi(150000.0, 9.5, 240)
 - validateEmi(20000.0, 10.5, 48)
 - validateEmi(12000.0, 13.0, 24)

com.capstone.bank.tests.LoanTests

homeLoan_request_shouldReturnResult

personalLoan_request_shouldReturnResult

com.capstone.bank.tests.EmiTests

validateEmi (5000.0,12.0,12)

validateEmi (150000.0,9.5,240)

validateEmi (20000.0,10.5,48)

validateEmi (12000.0,13.0,24)

com.capstone.bank.tests.TransactionHistoryTests

transactions_shouldAppearAfterTransfer

com.capstone.bank.tests.LoginTests

invalidLogin

validLogin

com.capstone.bank.tests.FundTransferTests

transferFunds_shouldShowResultPage

MANUAL TESTING WITH JIRA AND ZEPHYRE

- Conducted manual testing of ParaBank features using Zephyr in JIRA.
- Created test cases for functionalities like login, registration, fund transfer, account opening, and transaction history.
- Linked all test cases to user stories in JIRA to ensure complete traceability.
- Executed tests sprint by sprint following the Scrum process.
- Organized test cases into test cycles in Zephyr for each sprint.
- Logged any defects found during testing in JIRA, linking them to the related stories and test cases.

ZEPHYR BOARD – TEST CASES

The screenshot displays the Zephyr Essential interface within the Jira ecosystem. The left sidebar shows the Jira navigation menu with options like 'For you', 'Recent', 'Starred', 'Apps', 'Plans', 'Projects', and 'Teams'. The 'Capstone' project is selected under 'Recent'. The main area shows the 'Zephyr Essential' interface for the 'Capstone' project. The 'Test Cases' tab is active, displaying a list of test cases under the 'FinancialAutomation' folder. The test cases are listed with their keys, versions, names, and status (all are 'APPROVED').

Projects
Capstone

Summary Backlog Board Code Timeline Pages Forms **Zephyr Essential**

SMARTBEAR Zephyr Essential

Configuration

Test Cases Test Cycles Test Plans Reports

+ New Folder Search... Filters

+ New Test Case Archive Clone More

All test cases (16)

- FinancialAutomation

P	Key	V	Name	Status	R
<input type="checkbox"/>	SCRUM-T4	1.0	Verify the functionality of Apply Home Loan with salary < threshold	APPROVED	<input type="checkbox"/>
<input type="checkbox"/>	SCRUM-T6	1.0	Verify the functionality of Apply Loan with low CIBIL score	APPROVED	<input type="checkbox"/>
<input type="checkbox"/>	SCRUM-T7	1.0	Verify the functionality of Apply Loan with missing mandatory fields	APPROVED	<input type="checkbox"/>
<input type="checkbox"/>	SCRUM-T5	1.0	Verify the functionality of Apply Personal Loan with valid details	APPROVED	<input type="checkbox"/>
<input type="checkbox"/>	SCRUM-T16	1.0	Verify the functionality of Credit transaction Details	APPROVED	<input type="checkbox"/>
<input type="checkbox"/>	SCRUM-T8	1.0	Verify the functionality of EMI generation for different tenures	APPROVED	<input type="checkbox"/>
<input type="checkbox"/>	SCRUM-T1	1.0	Verify the functionality of login scenario	APPROVED	<input type="checkbox"/>
<input type="checkbox"/>	SCRUM-T2	1.0	Verify the functionality of login scenario with invalid credentials	APPROVED	<input type="checkbox"/>
<input type="checkbox"/>	SCRUM-T3	1.0	Verify the functionality of login with empty fields	APPROVED	<input type="checkbox"/>

1 - 16 of 16

ZEPHYR BOARD – TEST CYCLES

The screenshot displays the Jira Zephyr Essential interface for the 'Capstone' project. The left sidebar shows navigation options like 'For you', 'Recent', 'Starred', 'Apps', 'Plans', and 'Projects'. The main content area is titled 'ParaBank TestCycle' and shows a list of test cases under the 'Test Cases' tab. The test cases are grouped by 'No group' and filtered to 'Show only assigned to me'. The test cases listed are:

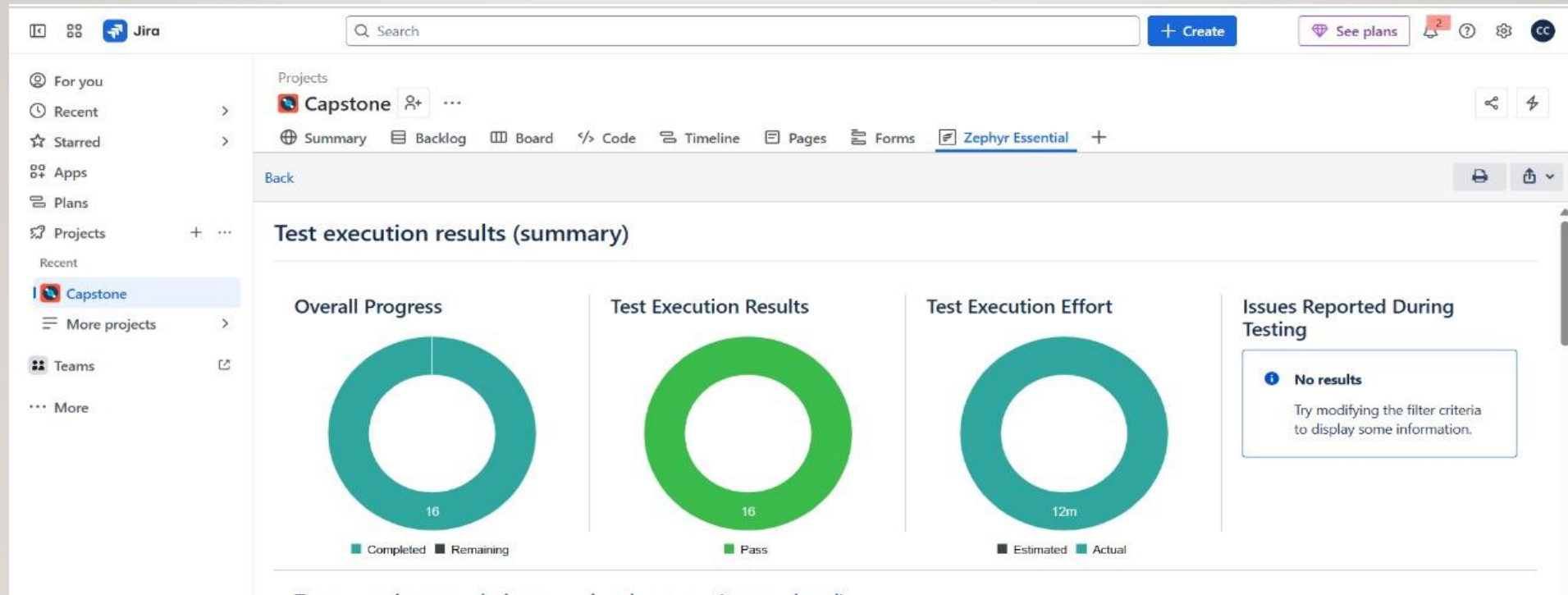
- SCRUM-T16 (1.0) Verify the functionality of Cre (00:00:30)
- SCRUM-T15 (1.0) Verify the functionality of tran (00:00:21)
- SCRUM-T14 (1.0) Verify the functionality of upd (00:00:33)
- SCRUM-T13 (1.0) Verify the functionality of reg (00:00:20)
- SCRUM-T12 (1.0) Verify the functionality of Op (00:00:38)
- SCRUM-T11 (1.0) Verify the functionality of Tran (00:01:54)
- SCRUM-T10 (1.0) Verify the functionality of Tran (00:00:34)

The right panel shows the details for the selected test case, 'SCRUM-T1 (1.0) Verify the functionality of login scenario'. It includes a 'PASS' status, a duration of 00:03:28, and a 'Start a new test execution' button. The 'Execution' section shows the following details:

Field	Value
Environment:	None
Release version:	None
Executed by:	Charan Chowdary Chava
Actual:	3m
Iteration:	None
Assigned To:	Charan Chowdary Chava
Estimated:	None

The 'Objective' section states: 'Verify the functionality of login scenario'. The 'Precondition' section states: 'QA should be up and running'.

ZEPHYR TEST EXECUTION RESULT



THANK YOU

