Group Name: TiTechnics

Software Construction and Development

Deliverable 03 & 04

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Development and Testing

Personal Finance Tracker

1. GitHub Repository Link:

https://github.com/Aazeen99/Personal-Finance-Tracker.git

2. Refactoring Techniques

1.1 Removing dead code

We removed excessive methods that were repetitive throughout the code.

2.2 Prevention of Long Class/Bloaters

We created number of different classes for each module to separate functionalities, hence improving readability.

2.3 Prevention of Lazy Class

We removed all the classes that were no longer functional.

2.4 Avoiding Object Oriented Abusers

We mapped the code with package diagram, to properly implement principles of Object Oriented Paradigm.

2.5 Using Proper Naming Convention

We used camel casing for the names of classes and methods.

2 Test Cases

Test Scenario ID	Registration-1		Test Case ID		Registration-1A	
Test Case Description	Registration - Positive test case		Test Priority		High	
Pre-Requisite	NA		Post-Requisite		User account created successfully	
Test Execution Steps:						
S.No	Action	Inputs	Expected Output	Actual Output	Test Result	Test Comments
1	Launch application	-	Application Launched.	Application on	Pass	[Khadija 15/05/2024 10:57 PM]:

				Launched.		Launch successful
2	Enter valid Username, Email, and Password and hit register button	Username: user123 Email: user123 @gmail.com Password: password123	Registration Successful.	Registration Successful	Pass	[Khadija 15/05/2024 10:57 PM]: Registration Successful.

Test Scenario ID	Registration-1		Test Case ID	Registration-1C
Test Case Description	Registration - Negative test case (Invalid email format)		Test Priority	High
Pre-Requisite	NA		Post-Requisite	NA

Test Execution Steps:

S.No	Action	Inputs	Expected Output	Actual Output	Test Result	Test Comments
1	Launch application	-	Application Launched.	Application Launched.	Pass	[Khadija 15/05/2024 10:57 PM]: Launch successful
2	Enter valid Username, invalid Email format, and Password and hit register button	Username: user123 Email: user123.com Password: password123	Invalid email format. Please enter a valid email.	Invalid email format. Please enter a valid email.	Pass	[Khadija 15/05/2024 10:57 PM]: Invalid email format.

Test Scenario ID	Login-2		Test Case ID	Login-2A
Test Case Description	Login – Positive test case		Test Priority	High
Pre-Requisite	A valid user account		Post-Requisite	Login successful

Test Execution Steps:

S.No	Action	Inputs	Expected Output	Actual Output	Test Result	Test Comments
1.	Launch application	-	Application Launched.	Application Launched.	Pass	[Khadija 15/05/2024 10:57 PM]:

						Launch successful
2.	Enter correct Username & Password and hit login button	Username: khadija1234 Password: 1234	Login success	Login success	Pass	[Khadija 15/05/2024 10:57 PM]: Login successful

Test Scenario ID	Login-2		Test Case ID	Login-2B
Test Case Description	Login – Negative test case		Test Priority	High
Pre-Requisite	NA		Post-Requisite	NA
Test Execution Steps:				

S.No	Action	Inputs	Expected Output	Actual Output	Test Result	Test Comments
1	Launch application	-	Application Launched.	Application Launched.	Pass	[Khadija 15/05/2024 10:57 PM]: Launch successful
2	Enter invalid Username & any Password and hit login button	Username : invalid123 Password: 123	Incorrect username or password. Re-enter.	Incorrect username or password. Re-enter.	Pass	[Khadija 15/05/2024 10:57 PM]: Invalid login attempt stopped

Test case scenario ID	Add bill reminder		Test case ID		Add bill reminder 1	
Test case description	Launching – Positive test case		Test Priority		Medium	
Pre-requisite	NA		Post-Requisite		Frame should be visible	
Test execution steps						
S.No	Action	Inputs	Expected Output	Actual Output	Test Result	Test Comments
1	Launch application	-	Application Launched.	Application Launched.	Pass	[Alyan 16/05/2024 10:57 PM]: Launch successful
2	Click on the "Add Bill Reminder" button	-	BillPaymentReminder frame should open and billManagement frame should close.	BillPaymentReminder frame opens and billManagement frame closes.	Pass	[Alyan 16/05/2024 10:57 PM]: Add Bill Reminder button works as expected