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## Submitted to:

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Topic:

Project Deliverable -3(2/2)

**BS Software Engineering (III)** 

GIFT University, Gujranwala

## **Functional Requirements:**

Features	Actors	Functional Requirements
Register	User, Admin	<ul> <li>The system shall provide a registration feature for users to create new accounts.</li> <li>The system shall require users to provide necessary details including Name, CNIC, Email, Password, and verify these details.</li> <li>The system shall validate the provided information during registration.</li> <li>The system shall create a new account upon successful validation of user information.</li> </ul>
Login	User, Admin	<ul> <li>The system shall provide a login feature for users to access their accounts.</li> <li>The system shall require users to enter their credentials, including Email/username and password, for login.</li> <li>The system shall validate the entered credentials during the login process.</li> <li>The system shall allow users to log in only if the provided credentials are correct.</li> </ul>
Funds Transfer	User, Admin	<ul> <li>The system shall provide a functionality for users to transfer funds between accounts.</li> <li>The system shall support both intra-bank and inter-bank fund transfer.</li> <li>The system shall verify the availability of sufficient balance in the user's account before processing the fund transfer.</li> <li>The system shall require user confirmation, possibly through OTP verification or biometric verification, for completing the fund transfer.</li> </ul>
Payment	User, Admin	<ul> <li>The system shall provide a feature for users to pay utility bills and institute fees online.</li> <li>The system shall verify the availability of sufficient balance in the user's account before processing bill payments.</li> <li>The system shall support various utility bill categories for payments.</li> </ul>

Card Information	User	<ul> <li>The system shall allow users to view their card information.</li> <li>The system shall allow users to block their cards in case of theft or loss.</li> </ul>
Payment History	User	<ul> <li>The system shall provide users with access to their transaction history or E-Statement.</li> <li>The system shall allow users to view and download transaction history.</li> </ul>
Notification	User, Admin, Help Center	<ul> <li>The system shall provide users with transaction notifications.</li> <li>The system shall allow users to set up notification preferences.</li> </ul>
Customer Support	User	<ul> <li>The system shall provide a feature for users to contact customer support.</li> <li>The system shall generate support tickets for user inquiries or issues.</li> </ul>
Logout	User, Admin	<ul> <li>The system shall provide a logout feature for users to securely log out of their accounts.</li> <li>The system shall prompt users to confirm their intention to logout before proceeding with the logout action.</li> </ul>

## **User Case Description/Scenario**

UC-01: Registration			
Actors: User, Adm	User, Admin		
Feature: Registration	n		
Use case Id:	UC-01		
<b>Description:</b>	Allows users to create a new account easily.		
<b>Pre-condition:</b>	Must have an active internet connection.		
Scenarios			
Step# Action	<b>Software Reaction</b>		

1.1	User navigates to the rage.	egistration		
1.2	User provides necessary details (Name, CNIC, Email, Password, Verification of these details).			
1.3	User clicks on the "Register" button.		System validates the information and creates a new account.	
Alterna	Alternate Scenarios:			
	The provided information is not eligible i.e. user in under 18.			
Post Co	Post Conditions:			
Step#	Description			
1	User's account is successfully created.			
User In	User Interface reference Registration Pa		age	

	UC-02: Login				
Actors:	Actors: User, Admin				
Feature	e: Login				
Use cas	se Id:	UC-02			
Descrip	otion:	Allows Users to cr	reate a new account easily.		
Pre-cor	ndition:		t have an active internet connection. count is already registered in the system.		
Scenari	ios				
Step#	Action		Software Reaction		
2.1	User Navigates to t	the login page.			
2.2	User enters his details (Email/username, password).				
2.3	User clicks on the "Login" button.		System validates the information and logs into the account.		
Alterna	nte Scenarios:				
1.	Entered Username/	Password was incom	rrect and system takes user back to step 1.2.2		
Post Co	onditions:				
User gets logged into the account after successful verification.					
Step#	Description				
1	User's account is successfully Logged in.				
User In	terface reference	Login Page			

	UC-03: Fund Transfer				
Actors:	Actors: User, Admin				
Feature	Fund Transfe	r			
Use cas	e Id:	UC-03			
Descrip	tion:	Allows User to tra	unsfer funds between accounts.		
Pre-con	dition:	User is logged into	o the application using his credentials.		
Scenari	os				
Step#	Action		Software Reaction		
3.1	User navigates to the transfer of funds functionality.				
3.2	User selects the ty i.e. intra-bank/inte				
3.3	User enters the receivers' account number and amount confirms to send.		System verifies if enough balance is available in his account.		
3.4	After fetching the final details, user confirms the transaction using OTP verification/biometric verification.		System completes the transaction and updates the account balance.		
Alterna	te Scenarios:		1		
1.	Account balance is not enough.				
Post Conditions					
Step#	Step# Description				
1 Funds are successfully transferred within the User account.					
User In	User Interface reference Home Page, Transfer Section				

UC-04: Payments			
Actors: User, Admin			
<b>Feature:</b> Payments for	or bills, school fees etc.		
Use case Id: UC-04			
<b>Description:</b>	Allows user to pay utility bills and institute fee online.		
<b>Pre-condition:</b>	User is logged into the account.		
Scenarios			
Step# Action	Software Reaction		

4.1	User navigates to the bill payment option.			
4.2	User selects the utility bill category.			
4.3	User provides necessary bill details and confirms the payment.		System verifies if enough balance is available in his account.	
4.4	After fetching all the details, user completes the payment using OTP Verification/Biometric Verification.		System completes the transaction, pays the bill and updates the account balance.	
Alterna	te Scenarios:			
1.	1. User did not have enough balance in his account.			
Post Co	Post Conditions			
Step#	Description			
1	Utility bills are successfully paid online.			
User In	User Interface reference Bill Payment S		Section	

	UC-05: Card Information				
Actors	Actors: User				
Feature	e: Card Inform	nation			
Use cas	se Id:	UC-05			
Descrip	otion:	Allows user to vie	ew and block their card.		
Pre-cor	ndition:		ogged into the account. eady is a debit/credit card holder.		
Scenari	ios	1			
Step#	Action		Software Reaction		
5.1	User navigates to the card's information option.				
5.2	User selects between his cards and reveal its information.		System prompts the user to verify though some pin/biometric verification and copies the details to the clipboard of device.		
5.3	User blocks the card in case of stolen/lost.		System after verification blocks the card.		
Alterna	Alternate Scenarios:				
None	None				
Post Co	Post Conditions				
Step#	Description				
1	User manages his card's information and usability.				

User Interface reference	Cards Information Section

	UC-06: Payment History/E-Statement				
Actors:	User				
Feature	Payment His	story/E-Statement			
Use cas	se Id: UC-06				
Descrip	otion:	Allows user to v	iew his previous transactions.		
Pre-cor	ndition:	User is logged in	nto his account.		
Scenari	ios	l			
Step#	Action		Software Reaction		
6.1	User navigates to the payment history option.				
6.2	User selects the from/to dates to view the details of transactions during that period.		System displays all the history of the former transactions to the user and generates pdf file to download.		
Alterna	nte Scenarios:				
None	<b>,</b>				
Post Co	Post Conditions				
Step#	Description				
1	User can view and download his transaction history/E-Statement				
User In	ser Interface reference Payment History Section				

UC-07: Transaction Notifications				
Actors	User, Admin, Help	Centre		
Feature	: Alerts and Notific	eations		
Use cas	e Id:	UC-07		
Descrip	<b>Description:</b> Allows User to receive notifications for every transaction and any update about system maintenance etc.			
Pre-condition: User is successful		User is successfull	y registered in the system.	
Scenar	Scenarios			
Step#	Action		Software Reaction	
7.1 User sets up transaction notification preferences.		action notification	System sends notifications for transactions exceeding a defined threshold.	
Alternate Scenarios:				

1. User has disabled receiving notifications option.					
Post Conditions					
Step#	Description				
1	User receives timely notifications for transactions and scheduled system maintenance.				
User Interface reference		Notification Preferences			

UC-08: Contact Customer Support							
Actors: User, Help Centre							
Feature: Customer Support							
Use case Id:		UC-08					
<b>Description:</b>		Allows customers to contact customer support for assistance.					
<b>Pre-condition:</b>		User is a registered account holder in the system.					
Scenarios							
Step#	Action		Software Reaction				
8.1	Customer initiates a support request through the system.						
8.2	Customer provides details of the issue or inquiry.		System generates a support ticket and notifies the customer.				
Alternate Scenarios:							
	None						
Post Conditions							
Step#	Description						
1	Customer's support request is successfully logged.						
User Interface reference Customer Su			oport Section				

UC-09: Logout						
Actors: User, Admin						
Feature: Logout						
Use case Id:	UC-09					
<b>Description:</b>	Allows user to logout securely.					
Pre-condition:	User was already logged into the account.					
Scenarios						

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Step#	Action		Software Reaction				
9.1	User navigates and sele "Logout" button.	ects the	Prompts the user to confirm their intention to logout.				
9.2	User confirm their acti	on again.	Log the user out of their account.				
Alterna	Alternate Scenarios:						
	None						
Post Conditions:							
Step#	Description						
1	User is successfully logged out of their account.						
User In	User Interface reference Logout						