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SOFTWARE ENGINEERING

EXPERIMENT NO.7

Aim: Design test scenarios and test cases for your SRS.

1| Test Scenarios:-

	A	B	C	D	E
1	Test Scenario ID	Requirement	Test Scenario Description	Importance	No. of Test Cases
2	TS_MOB_01	US_MOB_01	User initiates a mobile recharge for their phone number with a valid amount.	High	2
3			- Successful recharge		
4			- Insufficient balance error		
5	TS_MOB_02	US_MOB_02	User browses the available recharge plans offered by the mobile service provider.	Medium	1
6	TS_MOB_03	US_MOB_03	User views their current mobile service account balance including call time, data usage, and SMS credits.	Medium	1
7	TS_BILL_01	US_BILL_01	User views their utility bill for a specific service (e.g., electricity).	Medium	1
8	TS_BILL_02	US_BILL_02	User initiates the payment for a viewed utility bill using a valid payment method (e.g., UPI).	High	3
9			- Successful bill payment		
10			- Insufficient account balance error		
11			- Invalid payment method error		
12	TS_PIN_01	US_PIN_01	User enters a valid PIN to verify their identity during a transaction.	High	2
13			- Successful PIN verification		
14			- Invalid PIN error		
15	TS_LOAN_01	US_LOAN_01	User browses the different loan options offered by the service provider or its partners.	Medium	1
16	TS_LOAN_02	US_LOAN_02	User initiates the application process for a specific loan product.	Medium	1
17	TS_TIC_01	US_TIC_01	User browses the available movie tickets for a particular showtime.	Medium	1
18	TS_TIC_02	US_TIC_02	User successfully books a movie ticket by selecting a showtime, seats, and completing the payment.	High	3
19			- Successful booking with valid payment		
20			- Insufficient balance error during payment		
21			- Seat selection conflict (already booked seats)		
22	TS_INS_01	US_INS_01	User views their existing insurance details or browses the insurance plans offered by the service provider or its partners.	Medium	1
23	TS_INS_02	US_INS_02	User confirms their enrollment in a chosen insurance plan.	Medium	1

2| Test Cases :-

	A	B	C	D
1	Test Case ID	Use Case	Test Objective	Precondition
2	TC_MOB_1_1	Initiate Mobile Recharge (US_MOB_01)	Verify successful mobile recharge functionality.	User has a registered account with sufficient balance.
3				
4				
5				
6				
7	TC_MOB_1_2	Initiate Mobile Recharge (US_MOB_01)	Verify error handling for invalid recharge amount.	User has a registered account with sufficient balance.
8				
9				
10				
11				
12	TC_BILL_2_1	Initiate Bill Payment (US_BILL_02)	Verify successful bill payment using UPI with sufficient balance.	User has a registered account with linked utility services and a valid UPI account with sufficient balance.
13				
14				
15				
16				
17	TC_LOAN_1_1	Browse Loans (US_LOAN_01)	Verify user can browse available loan options.	User has a registered account.
18				
19	TC_LOAN_2_1	Apply for Loans (US_LOAN_02)	Verify user can initiate the loan application process.	User has a registered account and meets eligibility criteria for a specific loan.
20				
21				

22				
23	TC_TIC_1_1	Browse Tickets for Movies (US_TIC_01)	Verify user can browse available movie tickets for a particular showtime.	User has a registered account.
24				
25				
26				
27	TC_TIC_2_1	Book Tickets (US_TIC_02)	Verify successful movie ticket booking with valid payment.	User has a registered account with a valid payment method (e.g., credit card) and sufficient balance.
28				
29				
30				
31				
32				
33	TC_TIC_2_2	Book Tickets (US_TIC_02)	Verify error handling for seat selection conflict.	User has a registered account with a valid payment method.
34				
35				
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38	TC_INS_1_1	View Insurance (US_INS_01)	Verify user can view their existing insurance details or browse available options.	User has a registered account.
39				
40	TC_INS_2_1	Confirm Insurance Plans (US_INS_02)	Verify user can confirm enrollment in a chosen insurance plan.	User has a registered account and selects a plan they are eligible for.
41				
42				

33	TC_TIC_2_2	Book Tickets (US_TIC_02)	Verify error handling for seat selection conflict.	User has a registered account with a valid payment method.
34				
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38	TC_INS_1_1	View Insurance (US_INS_01)	Verify user can view their existing insurance details or browse available options.	User has a registered account.
39				
40	TC_INS_2_1	Confirm Insurance Plans (US_INS_02)	Verify user can confirm enrollment in a chosen insurance plan.	User has a registered account and selects a plan they are eligible for.
41				
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45	TC_MOB_1_3	Initiate Mobile Recharge (US_MOB_01)	Verify successful mobile recharge functionality.	User has a registered account with sufficient balance.
46				
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49				
50	TC_TIC_2_3	Book Tickets (US_TIC_02)	Verify successful movie ticket booking with valid payment.	User has a registered account with a valid payment method (e.g., credit card) and sufficient balance.
51				

Steps	Test Data	Expected Result	Pass/Fail
1. User opens the mobile service provider app.	Valid phone number, Valid recharge amount (e.g., \$10)	Successful recharge confirmation message with details (amount, phone number).	Pass
2. User navigates to the "Mobile Recharge" section.			
3. User enters their phone number.			
4. User selects a valid recharge amount.			
5. User confirms the recharge.			
1. User opens the mobile service provider app.	Valid phone number, Invalid recharge amount (e.g., -10)	Error message indicating invalid recharge amount.	Pass
2. User navigates to the "Mobile Recharge" section.			
3. User enters their phone number.			
4. User enters an invalid recharge amount (e.g., -10).			
5. User confirms the recharge.			
1. User opens the mobile service provider app.	Valid UPI address, Sufficient balance in UPI account	Successful bill payment confirmation message with details (amount, service, date).	Pass
2. User navigates to the "Bill Payment" section.			
3. User selects the specific utility service and billing period.			
4. User selects UPI as the payment method.			
5. User enters their UPI PIN.			
1. User opens the mobile service provider app.	N/A	List of available loan options with details (amount range, interest rate, terms) is displayed.	Pass
2. User navigates to the "Loans" section.			
1. User opens the mobile service provider app.	Valid user information meeting loan eligibility criteria	User is directed to the loan application form to complete further details.	Pass
2. User navigates to the "Loans" section.			
3. User selects a specific loan product.			
4. User initiates the application process by filling out required information.			
1. User opens the mobile service provider app.	Movie title, Show date & time	List of available seats for the selected showtime is displayed.	Pass
2. User navigates to the "Tickets" section (Movies)			
3. User selects a desired movie.			

2. User navigates to the "Tickets" section (Movies).			
3. User selects a desired movie			
4. User selects a specific showtime.			
5. User selects available seats.			
6. User confirms the booking and completes the payment.			
1. User opens the mobile service provider app.	N/A	Error message indicating seat selection conflict and suggesting alternative seats.	Pass
2. User navigates to the "Tickets" section (Movies).			
3. User selects a desired movie.			
4. User selects a specific showtime.			
5. User attempts to select already booked seats.			
1. User opens the mobile service provider app.	N/A	- If user has existing insurance: User's insurance details are displayed.	Pass
2. User navigates to the "Insurance" section.			
1. User opens the mobile service provider app.	Valid user information meeting plan eligibility criteria		Pass
2. User navigates to the "Insurance" section			
3. User selects the option to browse available plans (if no existing plan).			
4. User selects a specific insurance plan			
5. User confirms enrollment by following the plan's enrollment process.			
1. User opens the mobile service provider app.	Valid phone number, Valid recharge amount (e.g., \$10)	Error message: System overload, please try again later.	Fail
2. User navigates to the "Mobile Recharge" section.			
3. User enters their phone number.			
4. User selects a valid recharge amount.			
5. User confirms the recharge.			
1. User opens the mobile service provider app.	Valid payment method, Sufficient balance	Booking confirmation message, but the seats are actually not reserved due to a system glitch.	Fail
(Follow steps 2-5 from TC_TIC_2_1)			
6. User confirms the booking and completes the payment.			