Pega's University Program

E-Wallet Management System
(Use Case)

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1 E-Wallet Management System – 6 – 8 Hours

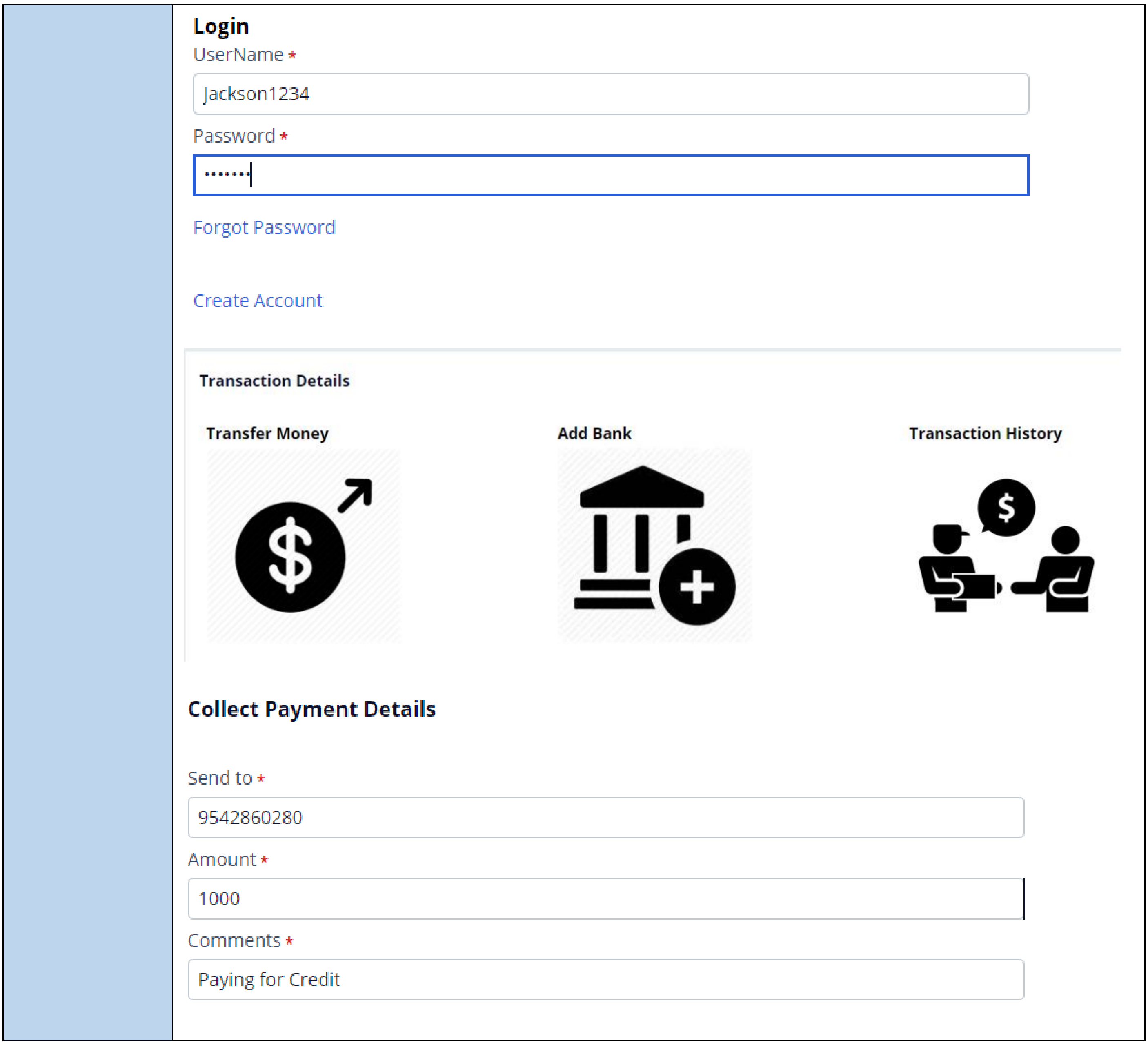
Use Case ID	UC-107	Version	2.0
Use case Name	**E-Wallet Management System**		
Platform Details	Pega 8.4	Time for completion	8 Hours
Created By	M Venkatesh	Last Updated By	Rajanikanth V, Kiran T
Date Created	20.06.2021	Last Revision Date	21.04.2022
Concepts covered	1. Case Lifecycle 2. Alternate Flows-Optional Action 3. Routing 4. SLA 5. Multi-step form 6. Controlling the case workflow 7. Adding fields to a case type 8. Correspondence 9. Manipulating case data 10. Calculating case Values 11. Validating case data 12. Work Parties 13. Reports 14. Integration		
Description	EBSM is an organization, want to develop an application which can be used by citizen for their day-to-day money transactions without carrying the money physically. They proposed to create an application named "E-Wallet Management System" which the following requirements: 1. The customer must register to the application by providing the necessary details and must authenticate by entering the OTP sent to their mobile number and the customer must provide the secured PIN number for further transactions. 2. On successful registration, the customers can perform the below listed tasks: A) Add Bank – The customers can add multiple bank details. B) Payment - The customers will choose this option to do the payments by entering the receiver's mobile number. The transaction will be successful only on entering the valid PIN which they have provided at the time of registration. C) Transaction History – The customers will be able to view the reports as listed below I) View all Transactions – The customer can view all the transactions. II) All transactions by mobile number – The customer can view all the transactions specific to mobile number. III) Last Month Transactions – The customer can view all the transactions performed in last month. IV) Current Month Transactions – The customer can view all the transactions performed in the current month The process for E-Wallet Management System is as following: a. Accept the customer information via digital form b. Customer needs to add his/her bank details to any transaction. c. Once he/she adds the bank details we need to verify him with OTP. d. Once verification is done, now the customer can able to perform digital transaction using mobile number.		

<table>
<tr>
<td></td>
<td>
e. While performing transaction, we are going to verify it using OTP.
f. Before performing the transaction internally, it should check whether balance is available or not.
g. If available balance is less than the transaction amount, the transaction should fail by showing available balance is less.
h. After transactions is done we need to provide some info regarding the previous or current transaction information.

Enhancements:

a. Customer can check balance in his/her account
b. Customer can update his /her profile. Like updating email, mobile number, address. If an email is updated it should be accepted using OTP validation to the new email address
c. Customer can search the transactions between two dates or by providing an amount then list should be displayed where transaction value greater than the value entered.
d. Customer can also search the transactions using Credit (Deposit) or Debit (Transfer) options
</td>
</tr>
<tr>
<td>Actors</td>
<td>Customer</td>
</tr>
<tr>
<td>Mockup screens</td>
<td>


</td>
</tr>
</table>


Login
UserName *
Jackson1234
Password *
•••••••
Forgot Password
Create Account
Transaction Details
Transfer Money
Add Bank
Transaction History
$
Collect Payment Details
Send to *
9542860280
Amount *
1000
Comments *
Paying for Credit

Collect Bank Details

Add Account

Account Holder Name *

Sophia

Account Number *

123456

Mobile Number *

8712890032

Date Of Birth *

7/12/2011

Bank Name *

HDFC

IFSC Code *

HDFC0056

Amount *

20000

Collect ID Proofs

Aadhar Card *

Aadhar-card

Attach

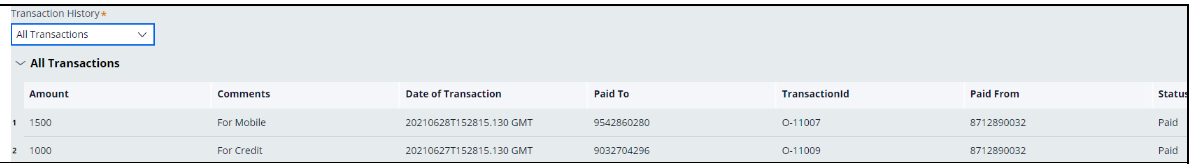
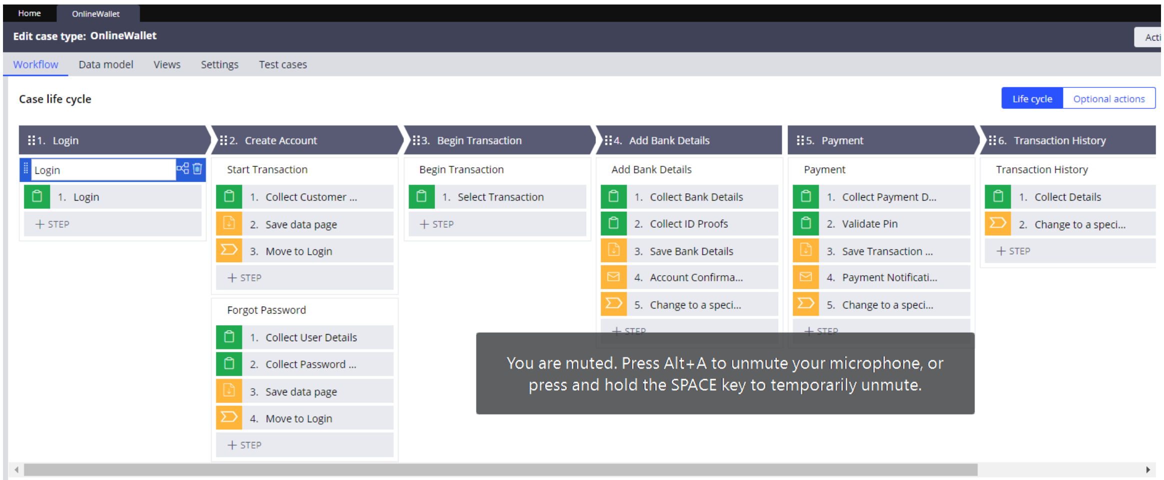
Download Delete

Pan Card *

pan

Attach

Download Delete

<table>
<tr><td></td><td>
</td></tr>
<tr><td>Trigger</td><td>Whenever the customer willing to register or to do the payments.</td></tr>
<tr><td>Preconditions</td><td>1. Create specific users for the above role
2. Create the required work parties for correspondence.</td></tr>
<tr><td>Post conditions</td><td>1. Change the status at each step in every case type.
2. Transaction Id must be generated automatically with the format “O- XXXXXXX”
3. A correspondence message must be generated automatically once the transaction is completed.
4. Before performing any transaction like Payment / Balance Enquiry, we need to verify the user with a valid PIN.</td></tr>
<tr><td>Normal Flow</td><td>

This case type has multiple stages

1. Login
2. Create Account
3. Begin Transaction
4. Add Bank Details
5. Payment
6. Transaction History

Login: When the customer/User is already registered with our application they can directly Login using Username and Password.

Create Account: If the Customer/User is new to the application they can register to the application by giving personal details, add Id proof and address proof.

Start transaction: Customer/User must select the type of transaction what they want to perform.

Add Bank Details: User can able to add bank details by providing the information like Bank name, Account number etc...</td></tr>
</table>

<table>
<tr><td></td><td>Payment: User need to enter the mobile number to whom he /she wants to send amount. While sending the amount we need to authenticate with a valid PIN number provided at the time of registration. On successful completion of the transaction the details need to be added into the Local Data source.

Note: Before processing the payment the system must check the available balance from the data stored in local data source.

Transaction History: The user can able to view the transactions based on Current month, Previous month, All transactions and based on mobile number.</td></tr>
<tr><td>Alternate Flows</td><td>NA</td></tr>
<tr><td>Exceptions</td><td>1. The customer must have a provision to update or change the email id optionally if required.</td></tr>
<tr><td>Includes</td><td>1. Create the data types as required.
1. Customer Details
2. Bank Details
3. Transaction Details</td></tr>
<tr><td>Frequency of Use</td><td>N/A</td></tr>
<tr><td>Special Requirements</td><td>1. The user must authenticate with the OTP sent to the mobile number.
2. The user must enter the PIN while performing the transaction. PIN size must be of 4 digits.
3. Date of payment must be a current system Date and Time.
4. Based on the IFSC code entered by the customer, the bank details like Bank name, Branch, State must be auto populated.
Note: Refer to the below table for sample data to store in local data source.
<table>
<tr><th>IFSC Code</th><th>Bank Name</th><th>Branch</th><th>State</th></tr>
<tr><td>HSBC0500002</td><td>HSBC</td><td>Hyderabad</td><td>Telangana</td></tr>
<tr><td>IOBA0000030</td><td>Indian Overseas Bank</td><td>Bhubaneshwar</td><td>Odisha</td></tr>
<tr><td>KKBK0000553</td><td>Kotak Mahindra Bank</td><td>Chennai</td><td>Tamilnadu</td></tr>
<tr><td>INDB0001418</td><td>IndusInd Bank</td><td>Bengaluru</td><td>Karnataka</td></tr>
</table>
5. User can update / change PIN number optionally upon authentication.
6. On successful payment transfer the balance must be updated in the local data source.
7. Maximum amount user can transfer per transaction is 20,000/-.</td></tr>
<tr><td>Future Requirements</td><td>1. Configuring the application for scanning the QR code for online shopping payments.</td></tr>
<tr><td>Assumptions</td><td>N/A</td></tr>
<tr><td>Reporting Requirements</td><td>Customer should able to see the reports like
1. Current Month
2. Last Month
3. All Transactions
4. Transactions based on mobile number
Create a report which can tell the Transaction details.</td></tr>
<tr><td>Acceptance Criteria</td><td>1. Configure all mandatory fields
2. Perform Unit testing for all the rules configured
3. Name fields must accept only characters.
4. Transfer amount should not exceed more than 20,000.</td></tr>
</table>

Data Types that can be used:

1. Create a data type called "Customer", create a local source for it and add records.
   - FirstName, LastName, Full Name, Email address, Mobile Number, Username, Password, PIN

Name	ID	Scope (applies to)	Type
Email address	EmailAddress	Customer	Email
First Name	FirstName	Customer	Text (single line)
Full Name	FullName	Customer	Text (single line)
Last Name	LastName	Customer	Text (single line)
Mobile Number	MobileNumber	Customer	Phone
Password	Password	Customer	Text (single line)
Pin	Pin	Customer	Text (single line)
UserName	UserName	Customer	Text (single line)

2. Create a datatype called "Bank Details", Create a local source for it and add records.
   - Bankname, Account number, Account holder name, Amount, Dateofbirth, IFSC code, Mobile number, PAN Number, Aadhar number

Name	ID	Scope (applies to)	Type
Aadhar Number	AadharNumber	Bank Account Details	Text (single line)
Account Holder Name	AccountHolderName	Bank Account Details	Text (single line)
Account Number	AccountNumber	Bank Account Details	Text (single line)
Amount	Amount	Bank Account Details	Text (single line)
Bank Name	BankName	Bank Account Details	Text (single line)
Date Of Birth	DateOfBirth	Bank Account Details	Date only
IFSC Code	IFSCCode	Bank Account Details	Text (single line)
Mobile Number	MobileNumber	Bank Account Details	Phone
Pan Number	PanNumber	Bank Account Details	Text (single line)

3. Create a datatype called "Transaction Details", create a local source for it and add records.
   - PaidFrom, PaidTo, Status, TransactionID, Amount, Comments, Date of transaction

Name	ID	Scope (applies to)	Type
Amount	Amount	Transaction Details	Text (single line)
Comments	Comments	Transaction Details	Text (single line)
Date of Transaction	DateOfTransaction	Transaction Details	Text (single line)
Paid From	PaidFrom	Transaction Details	Text (single line)
Paid To	To	Transaction Details	Text (single line)
Status	Status	Transaction Details	Text (single line)
TransactionId	TransactionId	Transaction Details	Text (single line)