

# American International University-Bangladesh (AIUB)

### Department of Computer Science Faculty of Science & Technology (FST)

#### Mobile POS

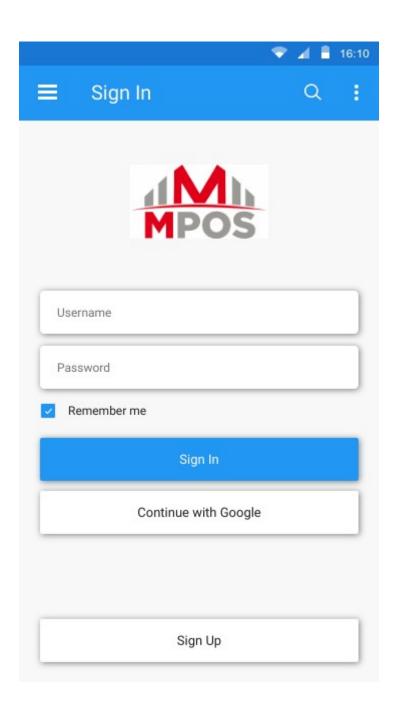
SN	Name	ID
1	Zarif Hossain Afif	20-44316-3
2	In Jam Ifte Khar Nur	20-43040-1
3	Tahmidur Rahman	19-40216-1

## 1 Wireframing:

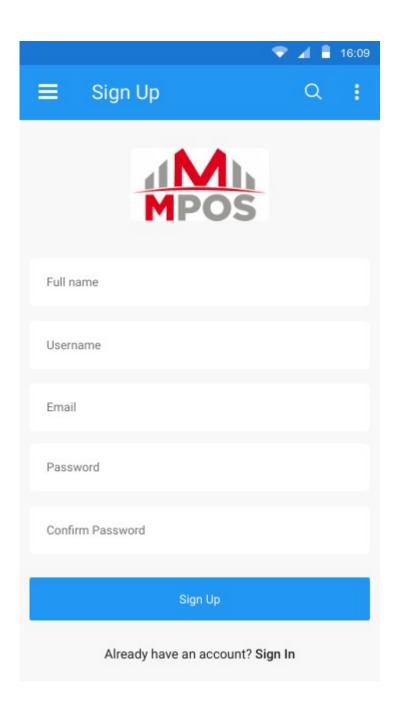
User Interface and Experience (UI/UX):

• The Tool Used in this task is **Proto** -- www.proto.io

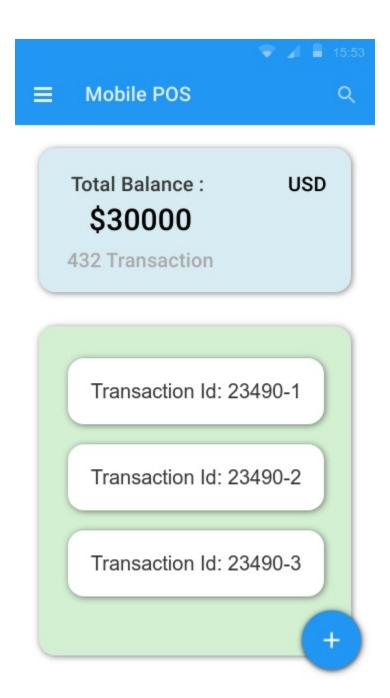
### 1.1 Sign In Page



## 1.2 Sign Up Page

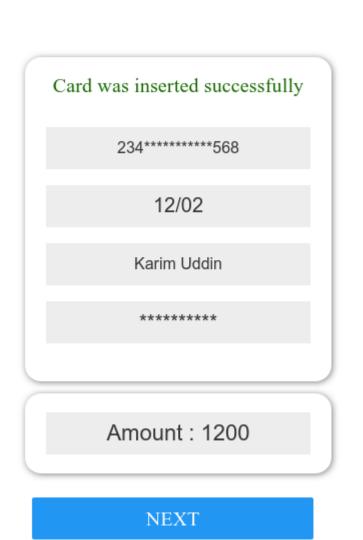


### 1.3 Dashboard Page

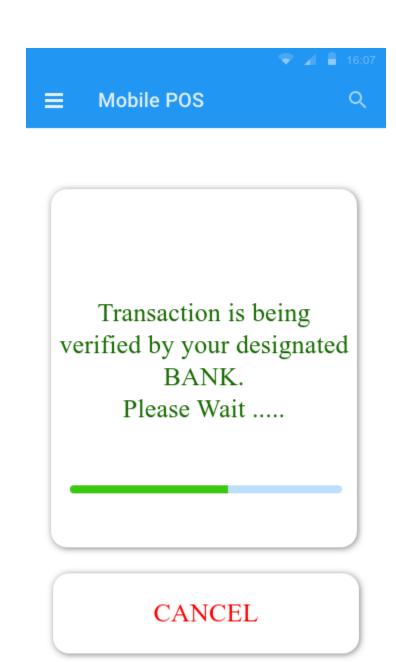


## 1.4 Card Inserted Page

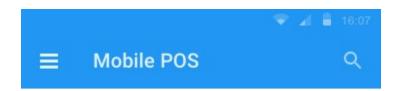




### 1.5 Transaction Verification Page



## 1.6 Card Denied Page



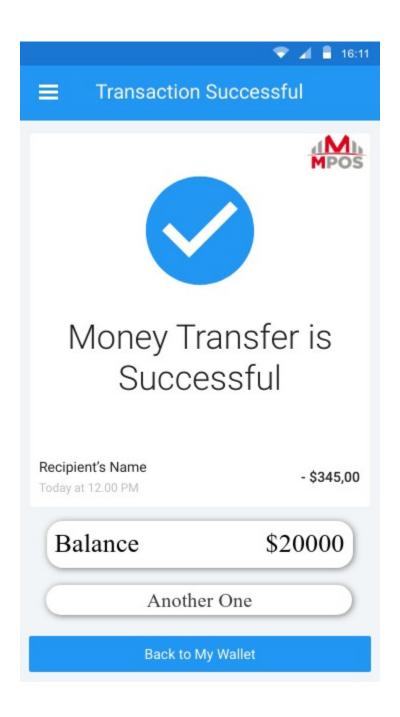


Transaction Declined Due to Insufficient Balance.

Try Again

**CANCEL** 

#### 1.7 Transaction Successful Page



#### 2 Functional Testing

2.1

Project Name: Mobile POS	Test Designed by: Zarif Hossain Afif
Test Case ID: MT_1	Test Designed date: 24/07/22
Test Priority (Low, Medium, High): High	Test Executed by: Tahmidur Rahman
Module Name: Verification	Test Execution date: 24/07/22
Tost Title: User Verification	·

Test Title: User Verification

Description: Checking if the user is an authentic customer of our solution.

Precondition (If any): User must have our mPOS solution.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ul><li>Open the app</li><li>Enter username</li><li>Enter Password</li><li>Click Login/Sign in</li></ul>	John Doe – weiop Karim – 34kjlp Nabil - ###12DDjk	Yes Yes Yes	No Yes Yes	Pass

2.2

Project Name: Mobile POS	Test Designed by: Zarif Hossain Afif
Test Case ID: MT_2	Test Designed date: 24/07/22
Test Priority (Low, Medium, High): Medium	Test Executed by: Tahmidur Rahman
Module Name: SignUp	Test Execution date: 24/07/22
Test Title, CignIIn nego velidation	

Test Title: SignUp page validation.

Description: Testing the front-end page of creating a new user.

Precondition (If any): User must have our mPOS solution.

, ,				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ul><li>Open the App</li><li>Click Sign Up</li><li>Enter required Information</li></ul>	Karim Uddin, Karim, karim@gmail.com,@@11ytnj,@@11ytnj	User Created	User Created	Pass
<ul><li>Click Sign Up again.</li><li>Query the database for the given user.</li></ul>	Rahim Mia, Rahim, rami@yahoo.com, ddem,ddem	User Created	User Creation Failed	

Project Name: Mobile POS	Test Designed by: Tahmidur Rahman
Test Case ID: MT_3	Test Designed date: 24/07/22
Test Priority (Low, Medium, High): High	Test Executed by: Zarif Hossain Afif
Module Name: Verification	Test Execution date: 24/07/22

Test Title: Card Information Verfication

Description: Check If the inserted card is valid.

Precondition (If any): User must be signed in to our mPOS solution.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
	158*******620 901******341 272******982	Valid Valid Valid	Invalid Valid Valid	Pass

#### 2.4

Project Name: Mobile POS	Test Designed by: Tahmidur Rahman
Test Case ID: MT_4	Test Designed date: 24/07/22
Test Priority (Low, Medium, High): High	Test Executed by: Zarif Hossain Afif
Module Name: Card Verification	Test Execution date: 24/07/22
	•

Test Title: Card balance Verification

Description: Check the card's balance.

Precondition (If any): User must be signed in to our mPOS solution and a valid card has been inserted.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ul><li> Insert Card</li><li> Enter the amount</li></ul>	1500 2999	Pass Pass	Fail Pass	Pass

Project Name: Mobile POS	Test Designed by: Tahmidur Rahman
Test Case ID: MT_5	Test Designed date: 24/07/22
Test Priority (Low, Medium, High): High	Test Executed by: Zarif Hossain Afif
Module Name: Transaction	Test Execution date: 24/07/22

Test Title: Transaction Verification

Description: Verify the transaction being done.

Precondition (If any): User must be signed in to our mPOS solution and a valid card with enough balance has been inserted.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ul> <li>Open the app</li> <li>Click Plus(+) icon</li> <li>Insert the Card</li> <li>Enter amount</li> <li>Enter Pin Code</li> <li>Click Next</li> </ul>	158********620, Karim, 12-08, ****, 1500 901******341, Rahim, 01-12, ****, 2000	Done Done	Failed Done	Pass

2.6

Project Name: Mobile POS	Test Designed by: Tahmidur Rahman
Test Case ID: MT_6	Test Designed date: 24/07/22
Test Priority (Low, Medium, High): High	Test Executed by: Zarif Hossain Afif
Module Name: Verification	Test Execution date: 24/07/22

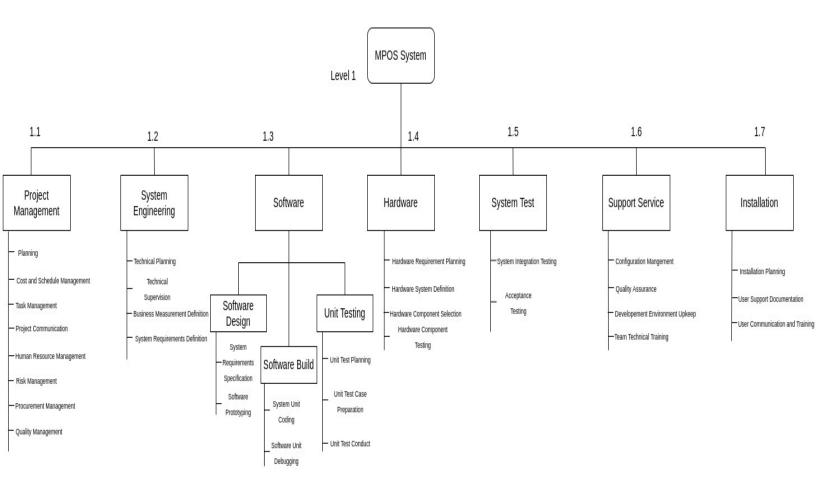
Description: Verify the user's customer provided pin

Precondition (If any): User must be signed in to our mPOS solution and a valid card with enough balance has been inserted.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ul><li>Open the app</li><li>Click Plus(+) icon</li><li>Insert the Card</li></ul>	158*********620, Karim, 12-08, ****	Valid	Invalid	Pass
	901********341, Rahim, 01-12, ****	Valid	Valid	

#### 3 Work Breakdown Structure

• The Tool Used in this task is **Draw.io** -- www.draw.io



#### 4 Timeline Chart

• The Tool Used in this task is **Calc** -- LibreOffice Calc

Task : Person We	eks	1	2	3	4	5	6	7	8	9	10	11	12	13
A: Afif														
B : Somit														
C : Nur														
D : Somit														
E : Afif														
F : Nur														
G : Afif														
H : Somit														
I : Afif														
J : Afif														
K : Nur														
L : Somit														
M : Nur														
N : Afif														
O : Somit														
P : Afif														

#### **Activity Key:**

- A. Planning
- B. Requirements Gathering
- C. Technical Planning
- D. Hardware Procurement
- E. Software Design
- F. Design Feasibility Testing
- G. Software Prototype
- H. System Design
- I. System Design Feasibility Testing
- J. System Coding
- K. System Debugging
- L. Unit Testing
- M. Hardware Testing
- N. Quality Check
- O. Acceptance Testing
- P. System Integration

#### 5 Effort Measurement

# 6 Risk Analysis

S.N.	Risks	Category	Probability	Impact
1	Size estimate maybe low	PS	60%	2
2	Larger number of users than expected	PS	30%	3
3	Delivery deadline will be tightened	BU	50%	2
4	Funding will be lost	CU	30%	1
5	Technology won't meet requirements	TE	20%	1
6	Cost forecasts are inaccurate	BU	40%	2
7	Misunderstanding of requirements	PR	10%	3
8	Users have inaccurate expectations	CU	80%	3
9	Resource shortfalls	DE	60%	2
10	Design is infeasible	TE	50%	3
11	Design lacks flexibility	TE	50%	2
12	Technology components aren't interoperable	TE	20%	3
13	Information security incident	TE	60%	4
14	Components or products aren't maintainable	TE	30%	2
15	Delays to required infrastructure	DE	80%	1
16	User interface is low quality	CU	50%	2