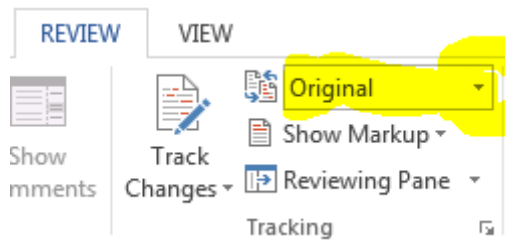


Notes to the Team – DELETE THIS PAGE BEFORE SUBMISSION

This is a template for the **Implementation & Deployment Document** for your project with explanatory notes included.

When using this template, the following steps are recommended:

1. Replace all text enclosed in angle brackets (e.g., <Team Name>) with the correct values. These angle brackets appear either in the body of the document or in headers and footers.
2. To update the Table of Contents, right-click on it and select “Update field” and choose the option - “Update entire table”.
3. Turn off Tracking. Go to the Review tab; make sure Display for Review is set to “Original”.



4. Before submission of this document, delete this instruction section “Notes to the Team”.
5. Save the document as a pdf file with the following name Final_<TeamName>.pdf



Software Engineers WashIt

Team Members

220106495, Mambesi Dem

223033235, Likhona Kulutwana

217612792, Samkele Hokwana

Implementation & Deployment Document

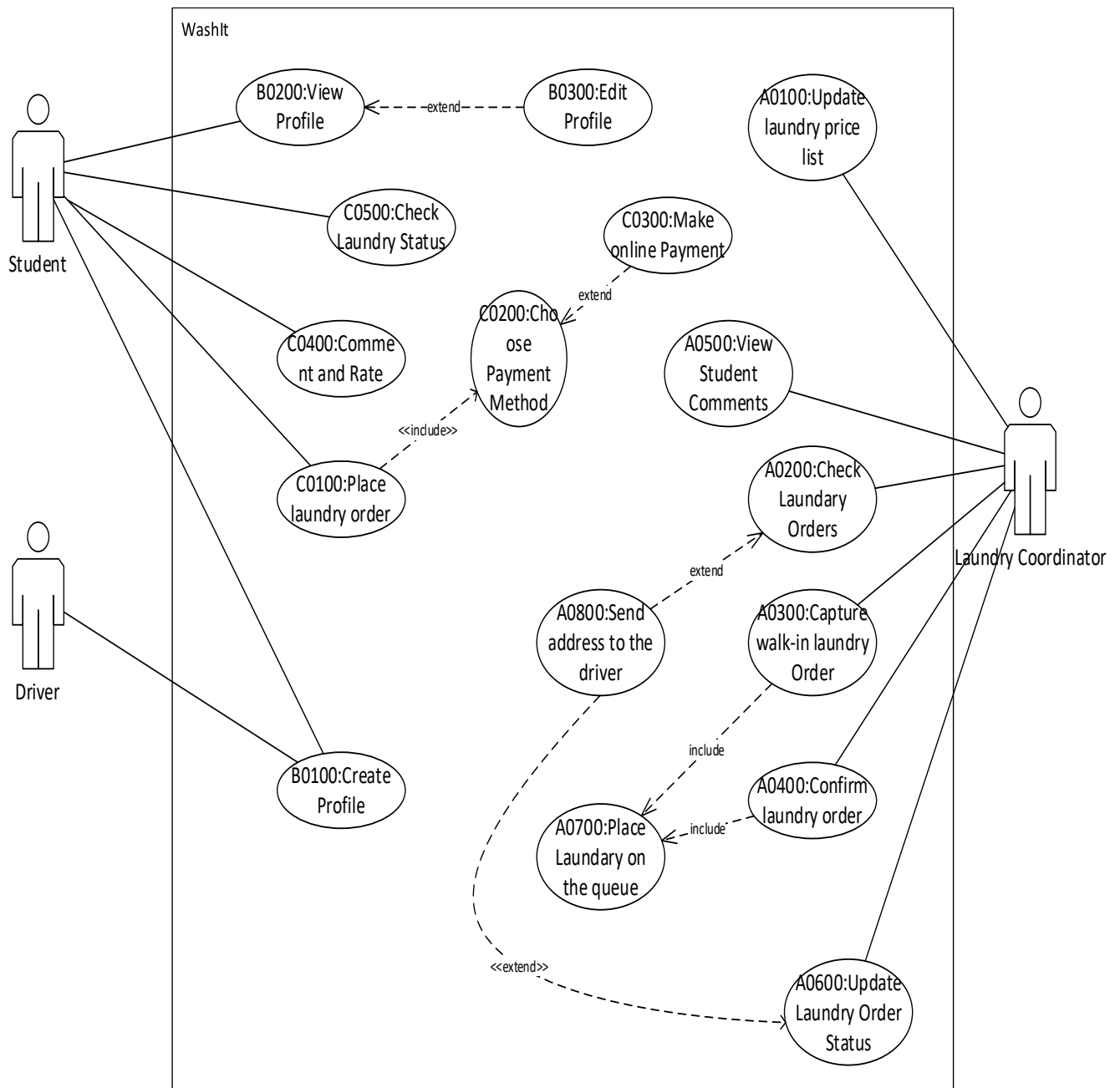
October 2023

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1 FUNCTIONAL REQUIREMENTS

1.1 Final Use Case Model



1.2 Use Case Glossary and Implementation Responsibilities

Team Member Responsible: Dem Mambesi	
Use Case Id	Use Case Name
A0800	Send Address to driver
C0100	Place Laundry Order
C0200	Choose payment method
C0300	Make online payment
C0400	Comment and rate

Team Member Responsible: Kulutwana Likhona	
Use Case Id	Use Case Name
A0100	Update Laundry Price List
A0200	Check Laundry Orders
A0300	Capture walk-in laundry order
A0400	Confirm Laundry Order
A0500	View student comments
A0600	Update Laundry Status

Team Member Responsible: Hokwana Samkelo	
Use Case Id	Use Case Name
A0700	Place laundry on the queue
B0100	Create Profile
B0200	View Profile
B0300	Edit Profile
C0500	Check Laundry Status

2 Use Case UI Designs

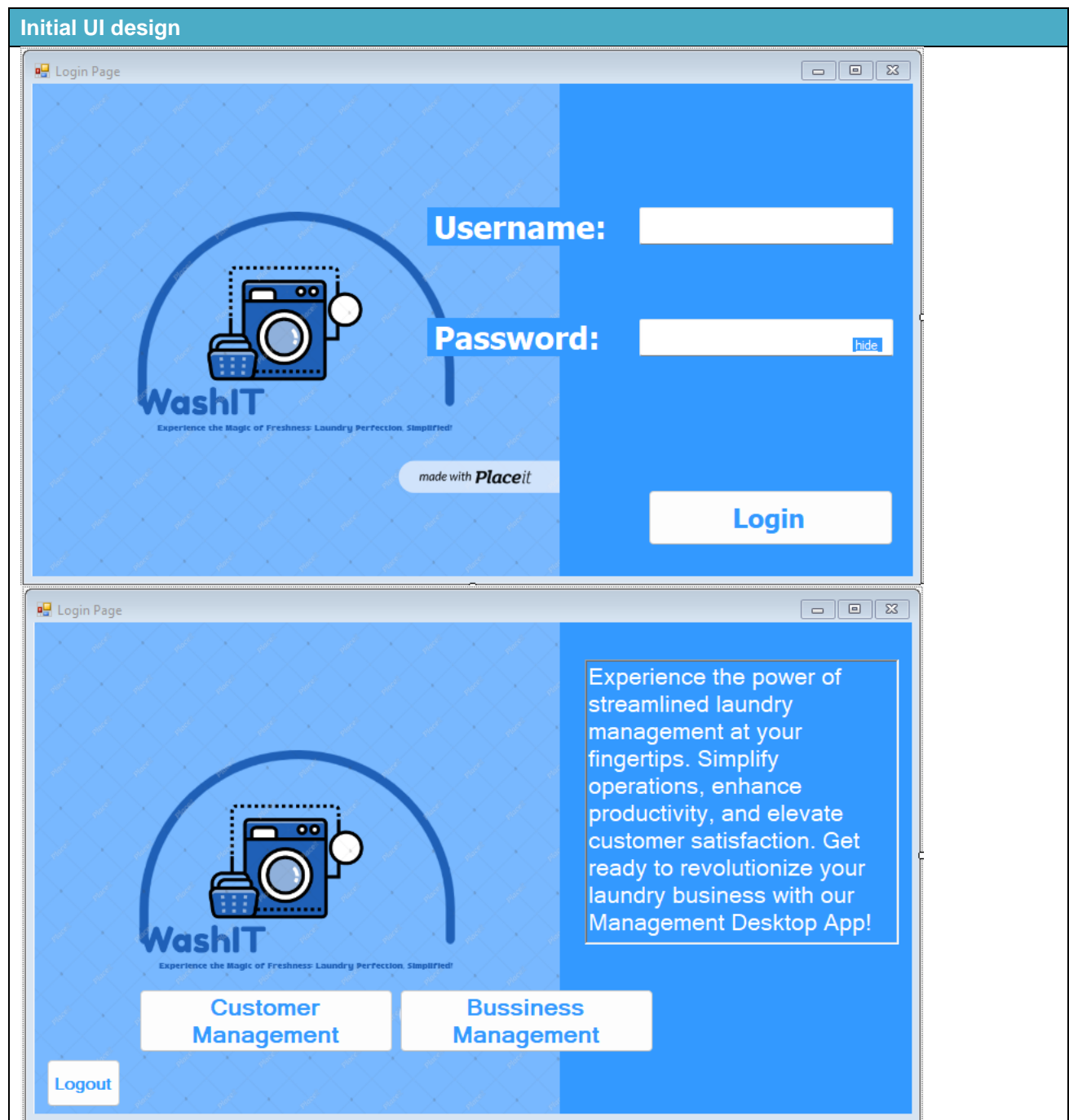
2.1 Team UI Guidelines

- **Button Placement and Labels:**
When designing buttons, place the most likely or safest choice on the right side. For instance, when students place a laundry order, position the "Confirm Order" button on the right, with "Cancel" on the left.
Use clear and unambiguous labels such as "Confirm Order," "Cancel," and "OK" instead of similar words whenever possible.
Ensure that "Login" and "Logout" are presented as single words without any abbreviations.
- **Consistent UI Design:**
Both the desktop and mobile app should maintain a similar layout and design, with a consistent color scheme of dominant light blue and white, and black for text. Only deviate from this color scheme when absolutely necessary.
Utilize a consistent font style across both sub-systems. We use Calibri font style.
- **Navigation Menu:**
Ensure that the current page is highlighted in the navigation menu.
Display the heading of the page at the top for clear navigation.
Ensure that users can reach any page within three actions by using the navigation menu, making navigation intuitive and efficient.
- **Error Handling and Prevention:**
Implement error reduction strategies, such as the use of confirmation messages and clear data input labels.
Take error handling into account in the UI design, even if the prototypes don't model error scenarios.
Eliminate unclickable buttons and controls that should not be accessed, reducing the potential for user errors.
- **Efficiency and User Guidance:**
Prior to user account creation, limit the available pages to avoid clutter and guide users to their intended destination.
Provide necessary information and clear forms, making it easy for users to achieve their goals with minimal input.
- **Consistency and Familiarity:**
Maintain consistency in the placement of objects and functions to promote familiarity between pages.
Use drop-down lists for technical functions, like selecting a gender when creating profile, to facilitate quick information retrieval.
- **Aesthetic Design:**
Embrace a minimalistic design approach to keep the interface focused on its core objectives. Only include information essential to the user's tasks to avoid clutter and distractions.
Error Prevention and Recovery:

Implement user-friendly elements like popups, confirmation messages, and spacing between important buttons to prevent user errors and facilitate recovery in case of mistakes.

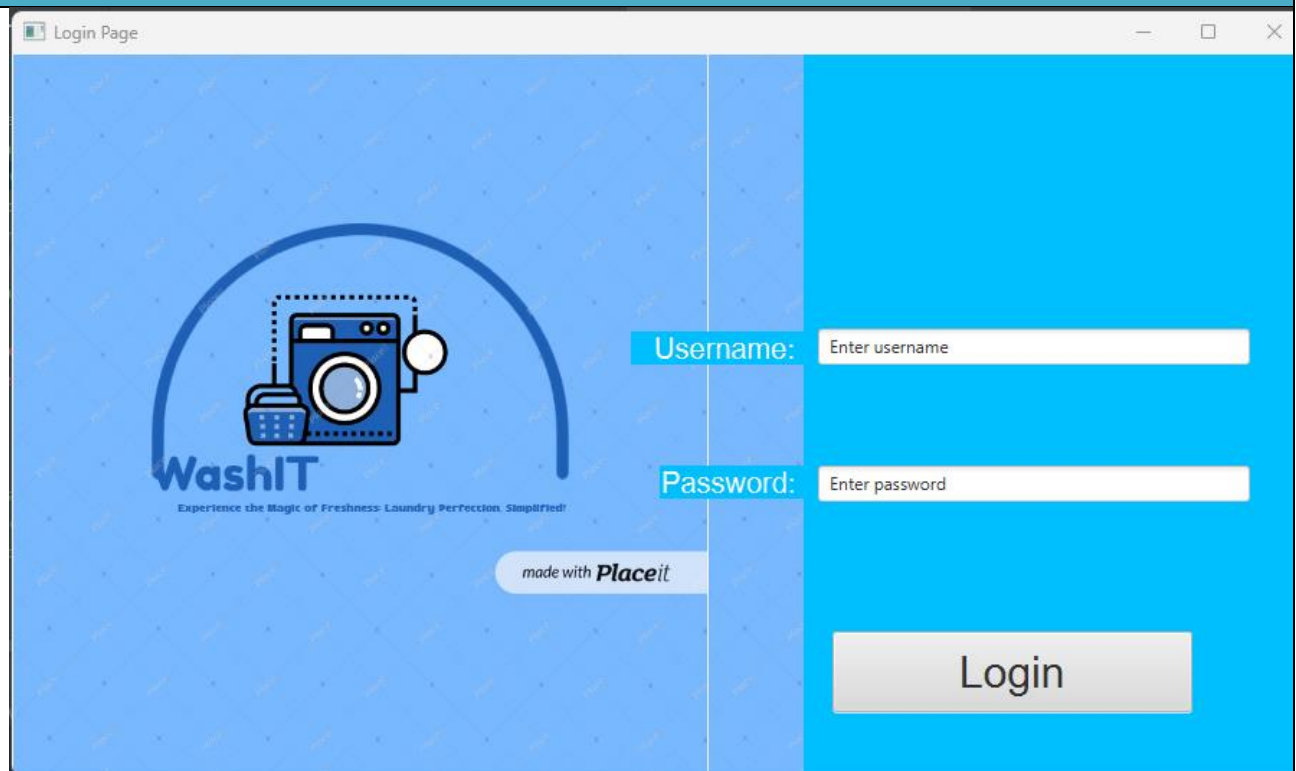
2.2 Team Design for

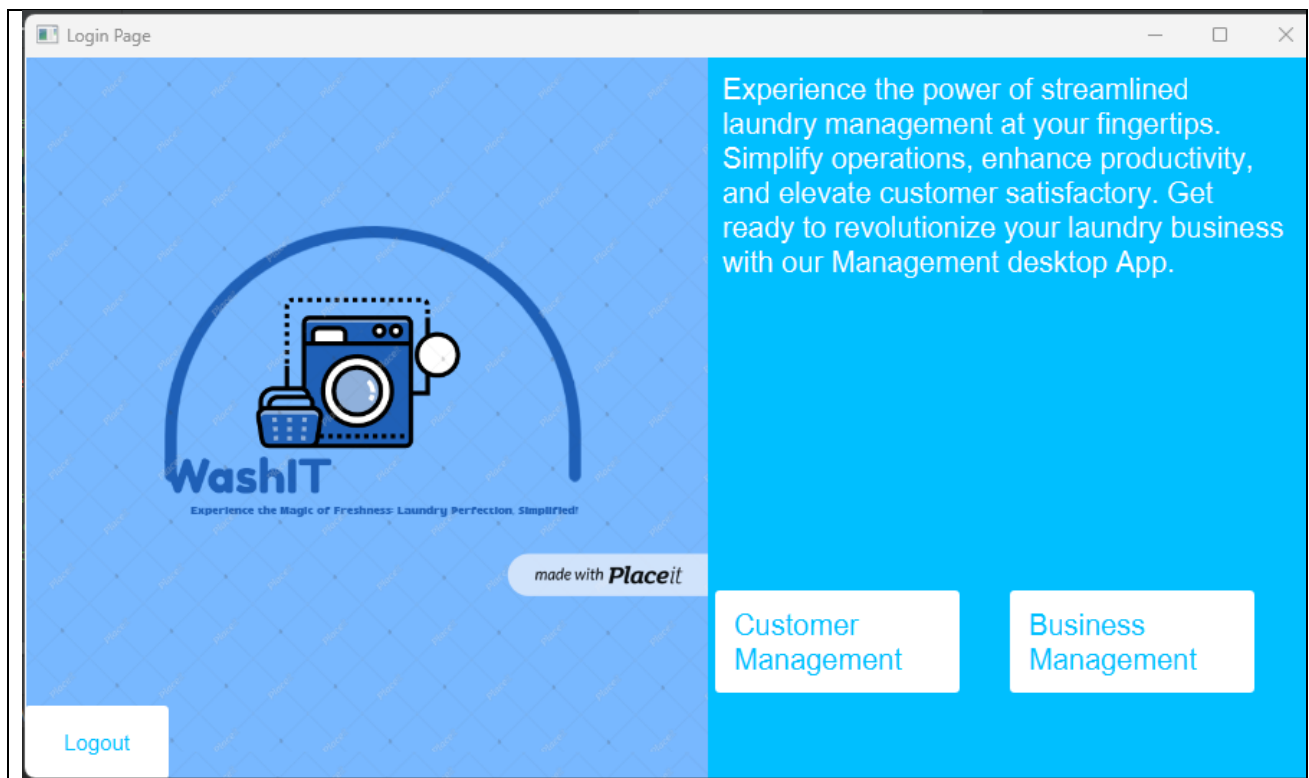
2.2.1 Login / Logout



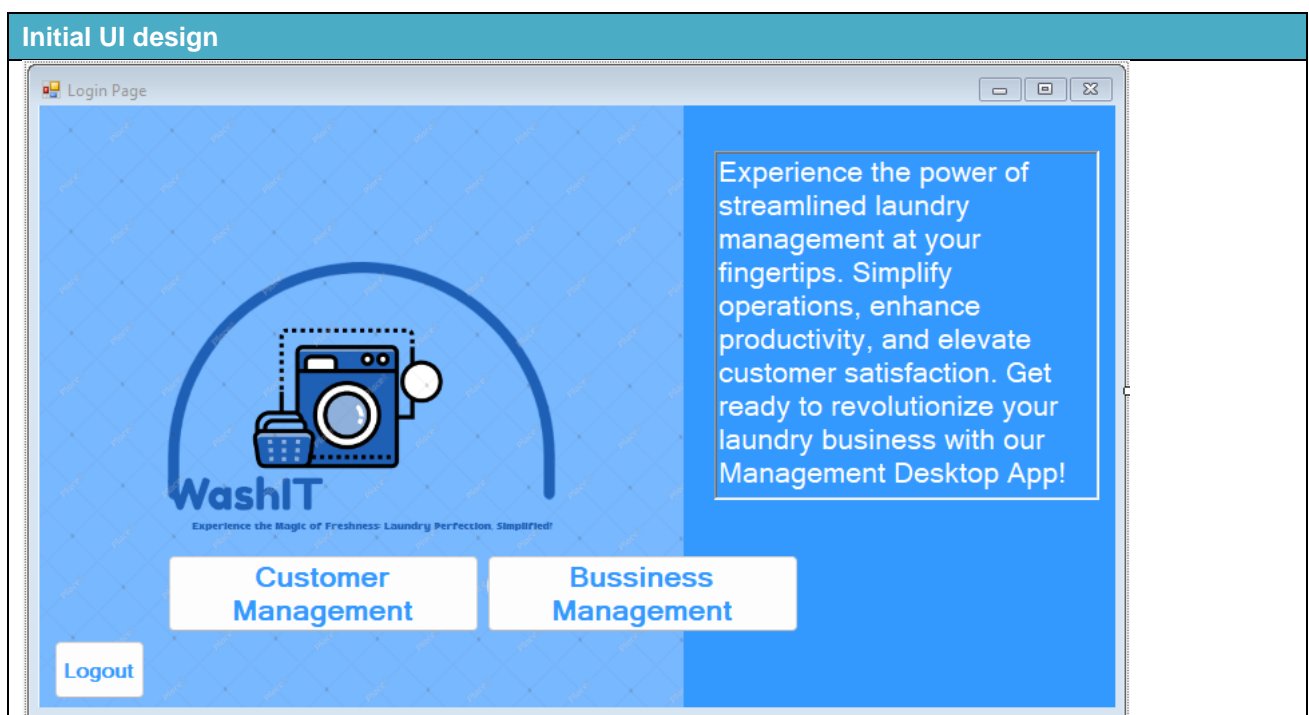


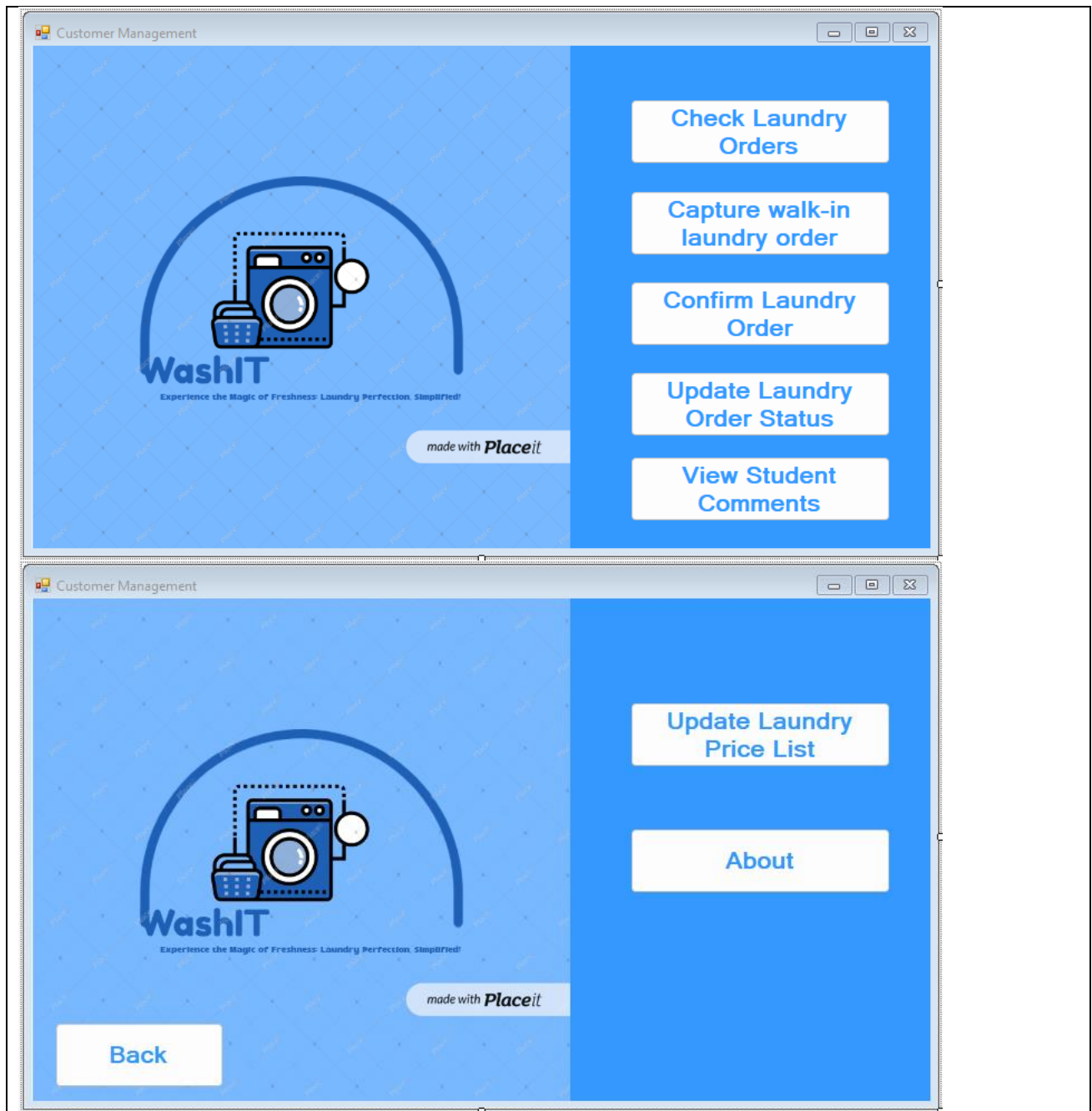
Final UI

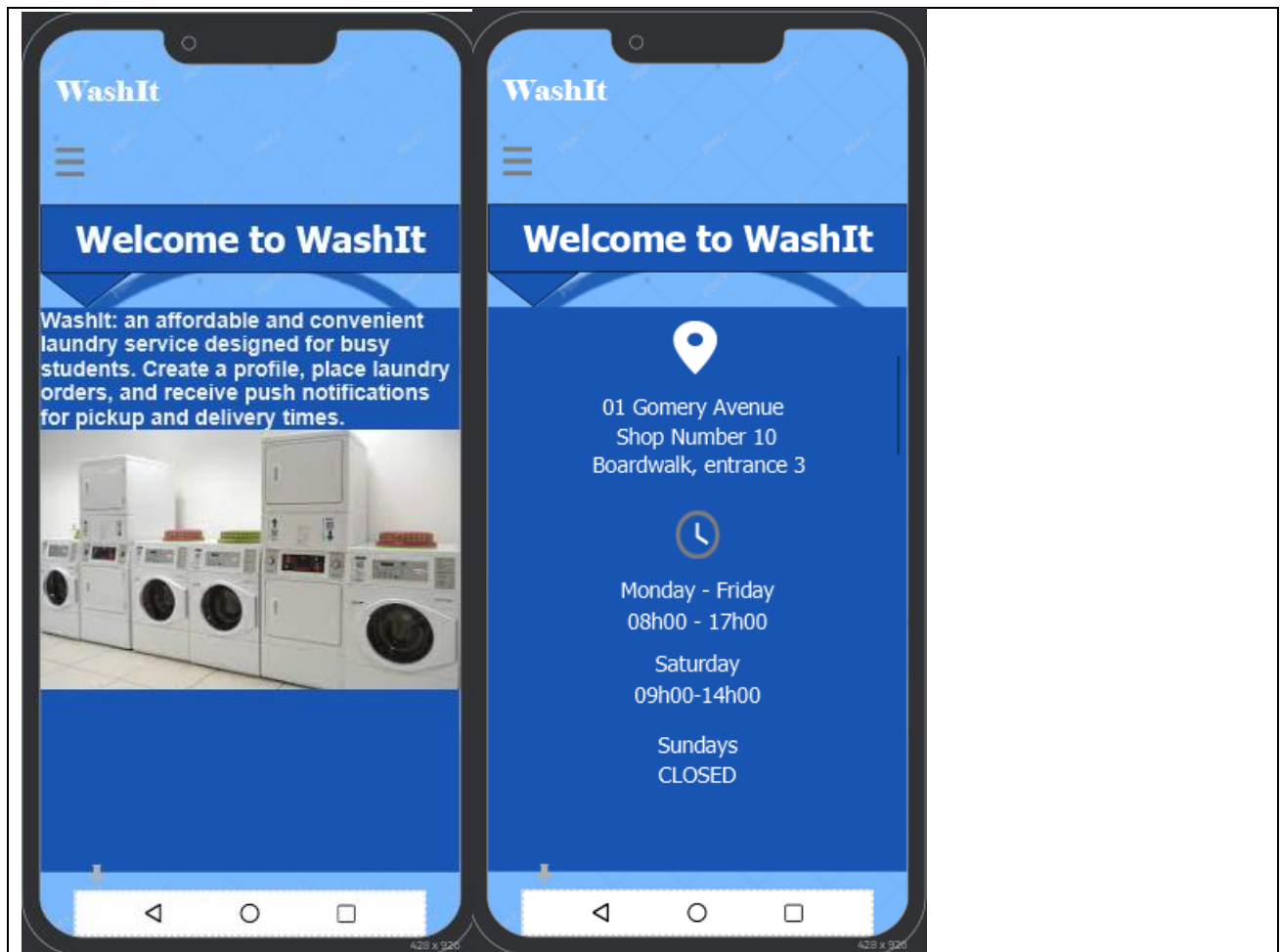


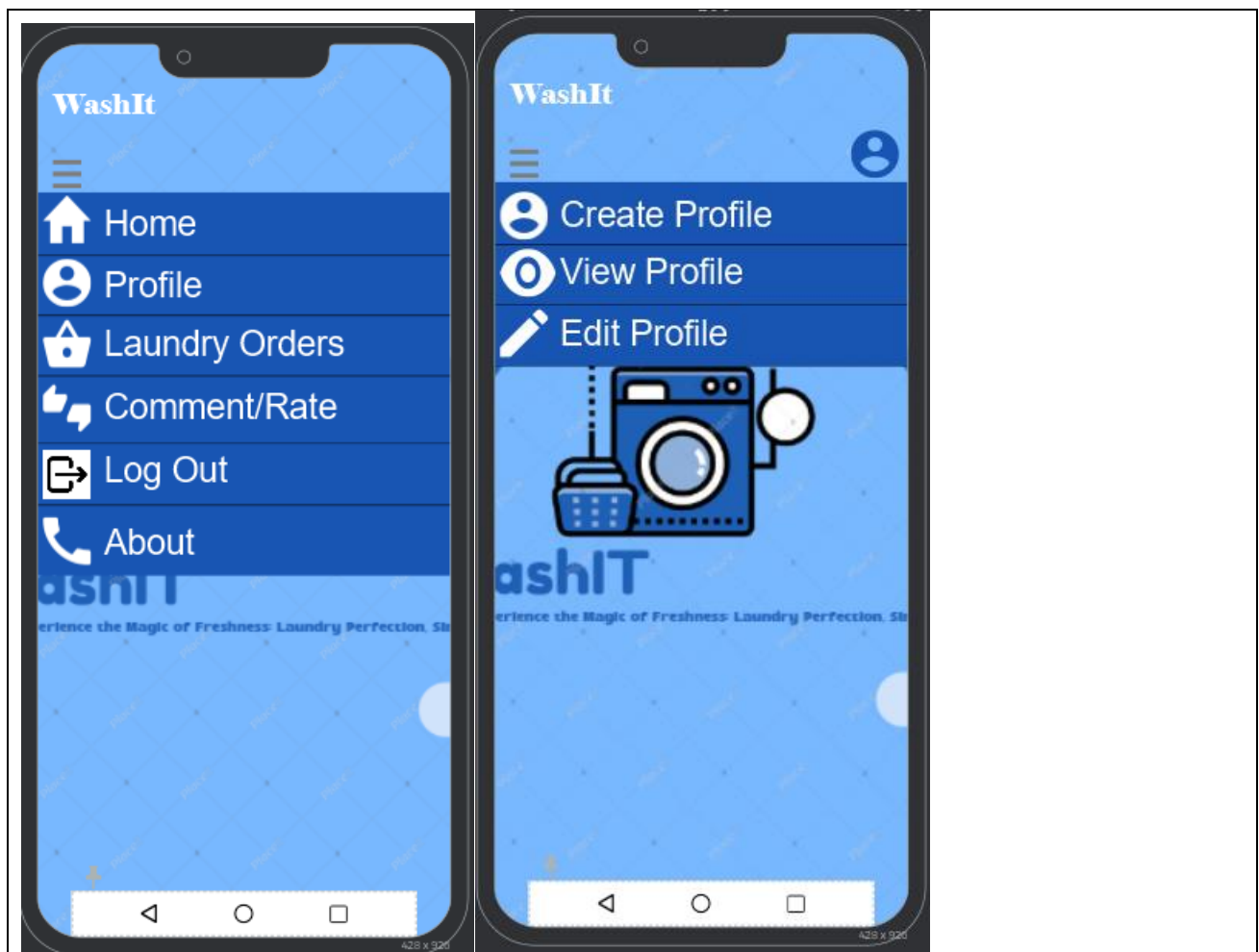


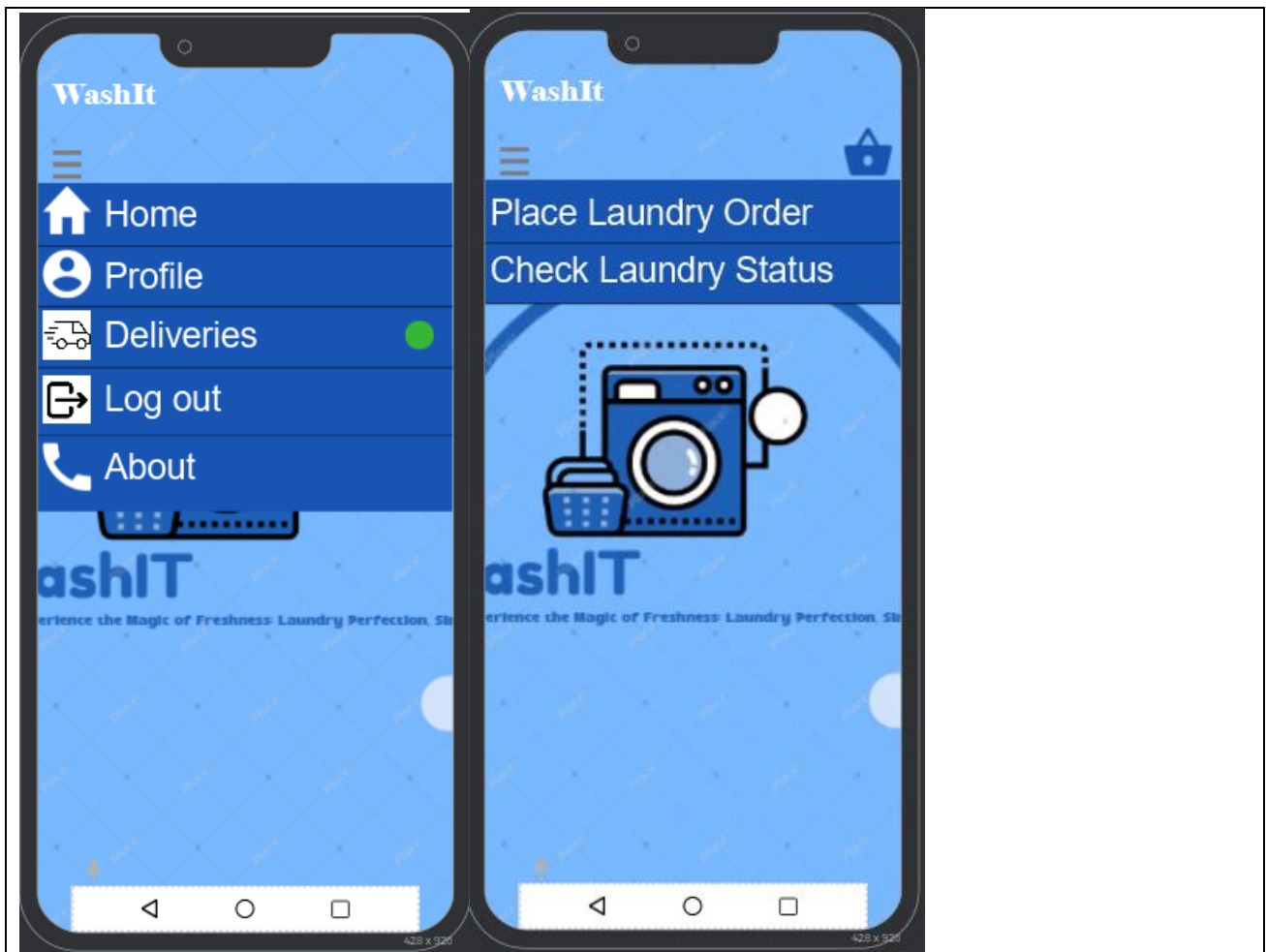
2.2.2 Dashboard / Landing Page / Main Page



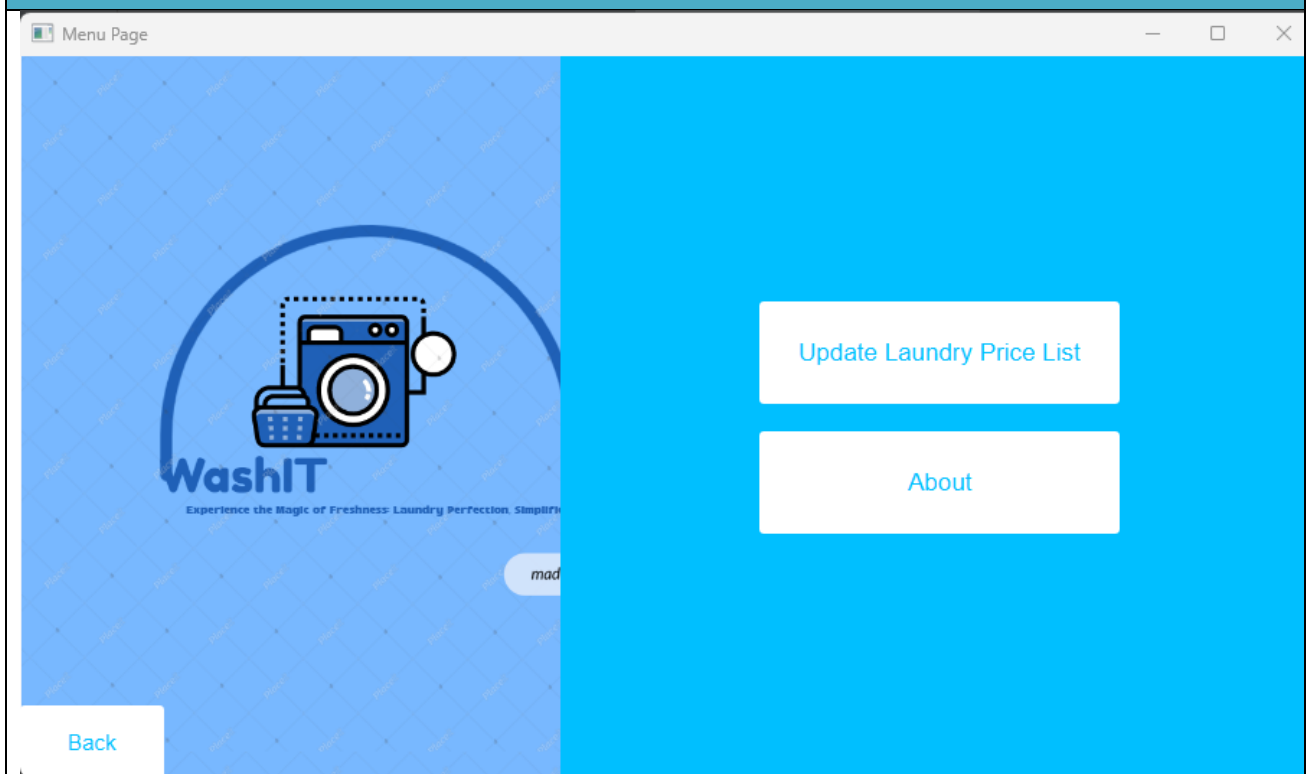


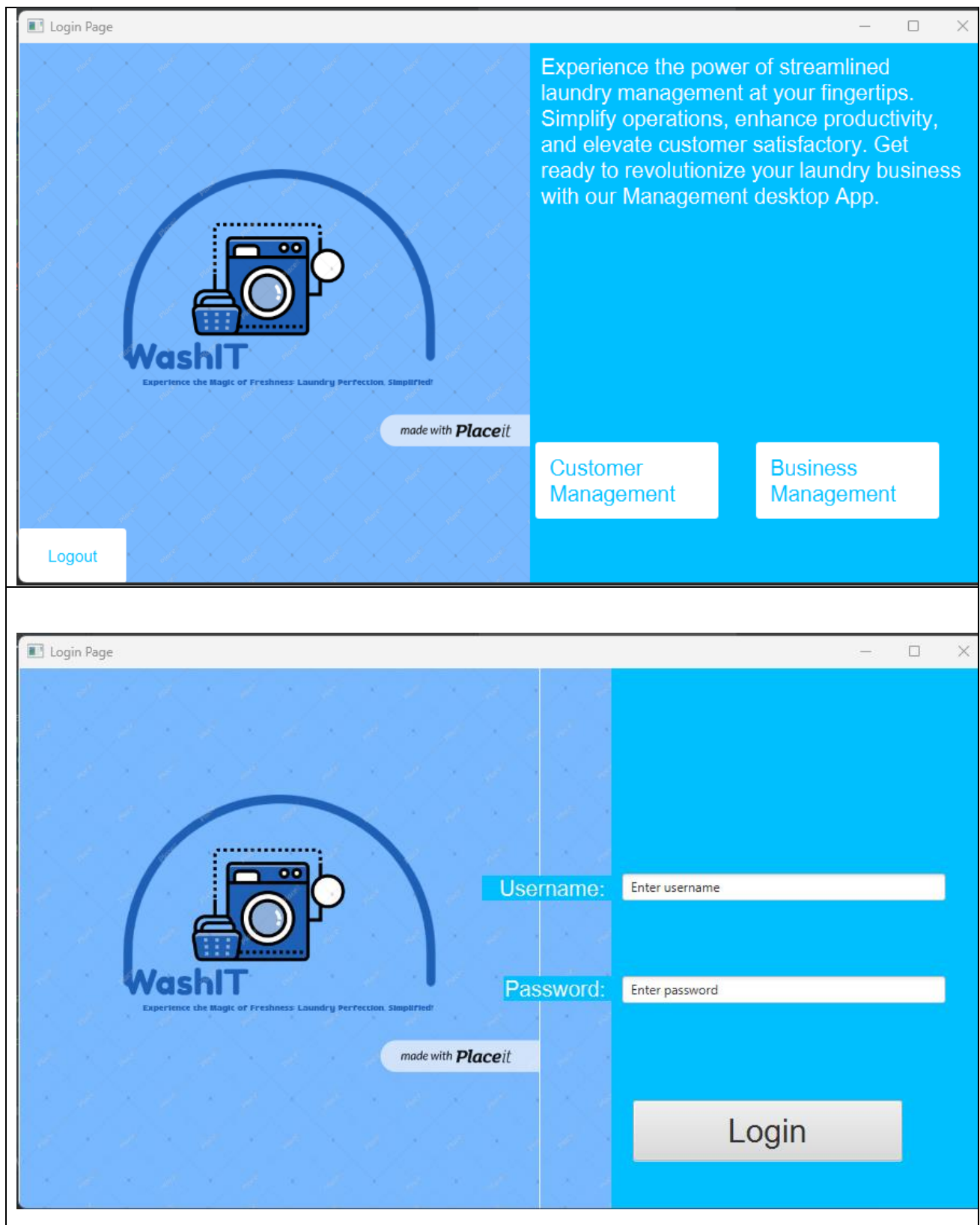






Final UI

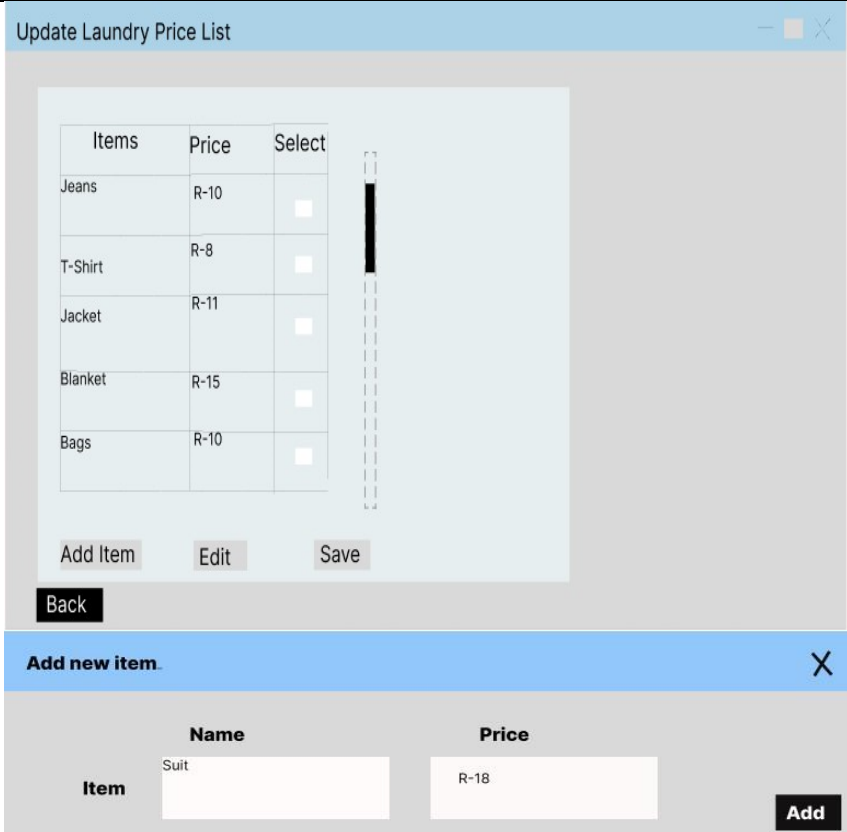




2.3

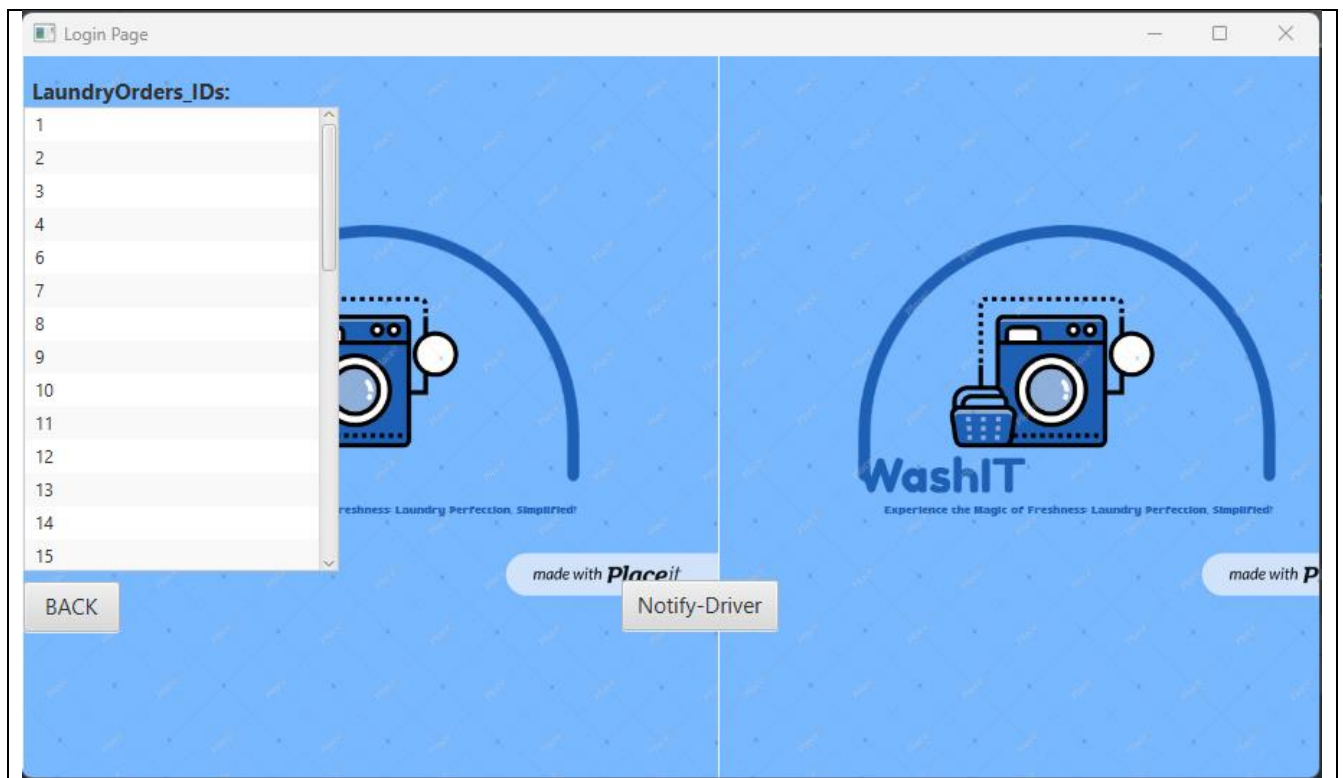
2.4 UI Designs for the Implemented Use Cases

2.4.1 Designed by Kulutwana Likhona

Use Case ID	Use Case Name																						
A0100	Update Laundry Price List																						
Initial UI design																							
 <p>The initial UI design for the 'Update Laundry Price List' use case consists of a main window and a modal for adding new items.</p> <p>Main Window: Update Laundry Price List</p> <table border="1"> <thead> <tr> <th>Items</th><th>Price</th><th>Select</th></tr> </thead> <tbody> <tr> <td>Jeans</td><td>R-10</td><td><input type="checkbox"/></td></tr> <tr> <td>T-Shirt</td><td>R-8</td><td><input type="checkbox"/></td></tr> <tr> <td>Jacket</td><td>R-11</td><td><input type="checkbox"/></td></tr> <tr> <td>Blanket</td><td>R-15</td><td><input type="checkbox"/></td></tr> <tr> <td>Bags</td><td>R-10</td><td><input type="checkbox"/></td></tr> </tbody> </table> <p>Buttons: Add Item, Edit, Save, Back</p> <p>Modal: Add new item.</p> <table border="1"> <thead> <tr> <th>Name</th><th>Price</th></tr> </thead> <tbody> <tr> <td>Suit</td><td>R-18</td></tr> </tbody> </table> <p>Buttons: Add</p>		Items	Price	Select	Jeans	R-10	<input type="checkbox"/>	T-Shirt	R-8	<input type="checkbox"/>	Jacket	R-11	<input type="checkbox"/>	Blanket	R-15	<input type="checkbox"/>	Bags	R-10	<input type="checkbox"/>	Name	Price	Suit	R-18
Items	Price	Select																					
Jeans	R-10	<input type="checkbox"/>																					
T-Shirt	R-8	<input type="checkbox"/>																					
Jacket	R-11	<input type="checkbox"/>																					
Blanket	R-15	<input type="checkbox"/>																					
Bags	R-10	<input type="checkbox"/>																					
Name	Price																						
Suit	R-18																						
Final UI																							



Use Case ID	Use Case Name
A0200	Check Laundry Orders
Initial UI design	
<p>The initial UI design for 'Check Laundry Orders' shows a window with a title bar. Inside, there is a section titled 'Laundry ID's' containing a list of IDs: 0001, 0002, 0003, 0004, and 0005. At the bottom, there are two buttons: 'Back' and 'Notify Driver'.</p>	
Final UI	



Use Case ID	Use Case Name
A0300	Capture walk-in laundry order
Initial UI design	
Final UI	

Use Case ID	Use Case Name
A0400	Confirm Laundry Order

Initial UI design

Confirm Laundry Order

Enter Laundry Order ID

Laundry Basket

Item	Quantity	Match
Jeans	1	<input type="checkbox"/>
Blanket	1	<input type="checkbox"/>
T-shirt	2	<input type="checkbox"/>

Send Confirmation

Missing Items

Place Laundry List

Back

Final UI

Login Page

Enter laundry...

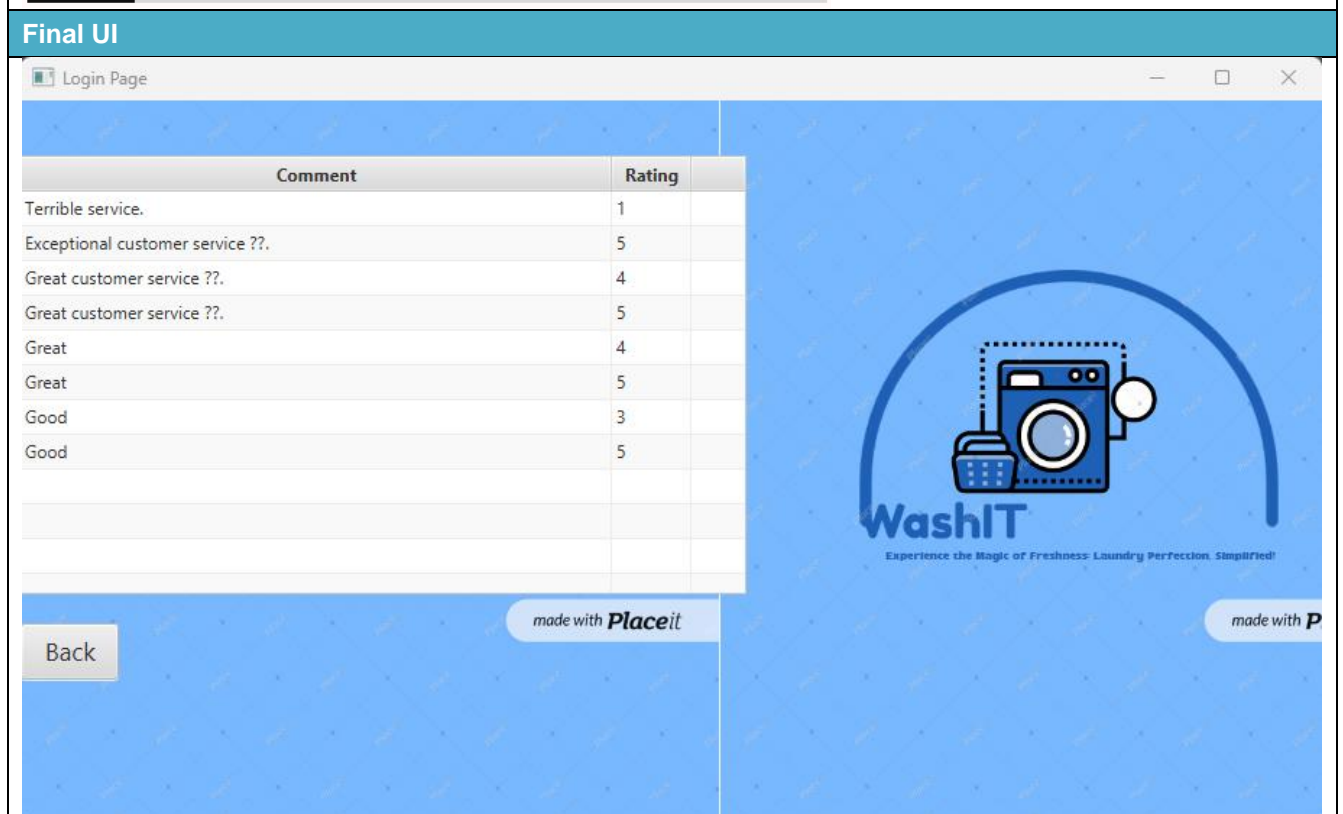
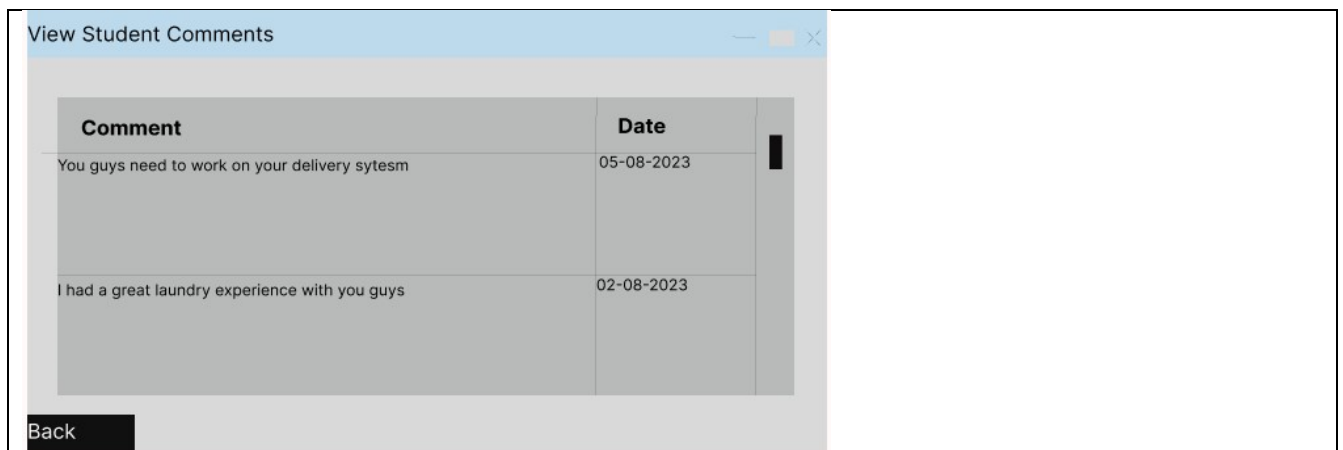
search

ItemType	Quantity
No content in table	

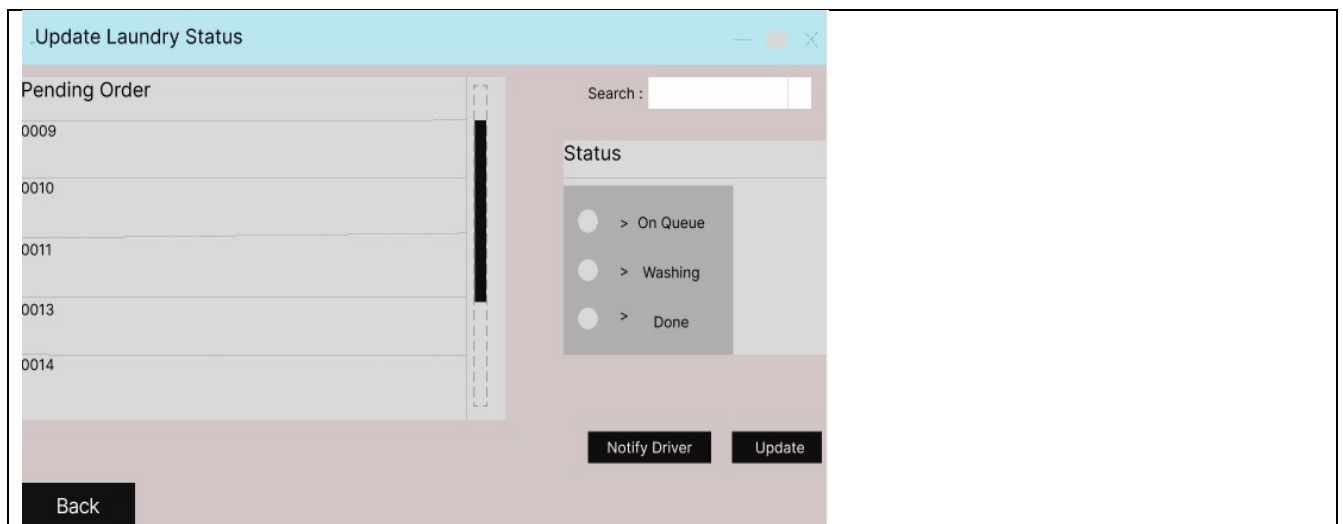
BACK

PlaceOnQueue

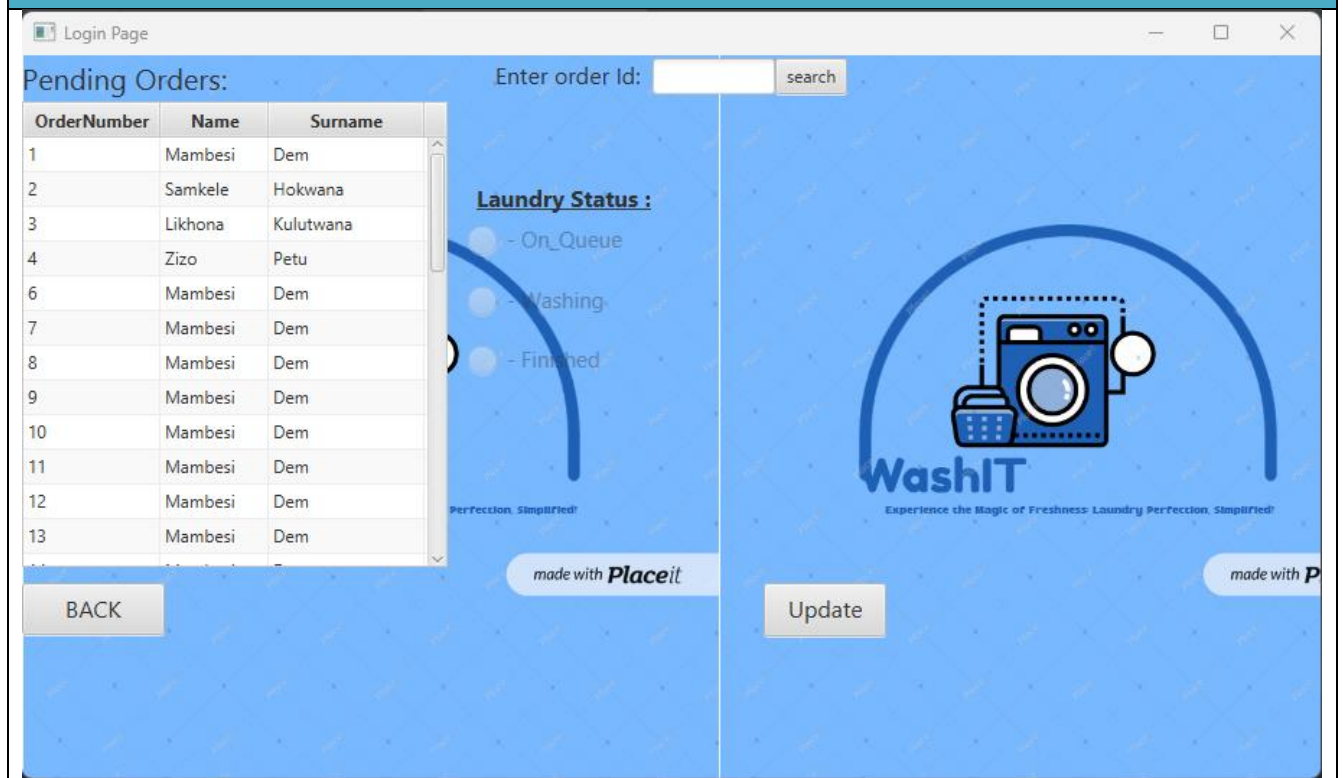
Use Case ID	Use Case Name
A0500	View student comments
Initial UI design	



Use Case ID	Use Case Name
A0600	Update Laundry Status
Initial UI design	



Final UI



2.4.2 Designed by Samkele Hokwana

Use Case ID	Use Case Name
B0100	Create Profile
Initial UI design	

WashIt

Create Profile

Are you?

Student

Driver

Back

WashIt

Student Profile

Personal details

First Name(s)

Surname

Gender Male ☒ Female ☐

Title Mrs

Student No

Contact No

Back

Create

WashIt

Student Profile

Personal details

First Name(s)

Surname

Gender Male ☒ Female ☐

Title Mrs

Student No

Contact No

Back

Create

WashIt

Driver Profile

Personal details

First Name(s)

Surname

Gender Male ☒ Female ☐

Title Mrs

EmpNum

Contact No

Vehicle Details

Make

Model

Reg No

Back

Create

Final UI

--

Use Case ID	Use Case Name
B0200	View Profile

Initial UI design

<div><div><div>WashIt</div><div>View Profile</div><div>Personal details</div><div><div>First Name(s)</div><div>Samkele Oyintanda</div></div><div><div>Surname</div><div>Hokwana</div></div><div><div>Gender</div><div>Male <input checked="" type="checkbox"/> Female <input type="checkbox"/></div></div><div><div>Title</div><div>Mrs</div></div><div><div>Student No</div><div>1694384</div></div><div><div>Contact No</div><div>0762250895</div></div><div><div>Back</div><div>Edit</div></div></div></div>	<div><div><div>WashIt</div><div>View Profile</div><div>Address details</div><div><div>Street</div><div>3016 Masonwabe road</div></div><div><div>Suburb</div><div>Masiphumele</div></div><div><div>City</div><div>Fish Hoek</div></div><div><div>Postal Code</div><div>7975</div></div><div><div>Back</div><div>Edit</div></div></div></div>
---	---

Final UI

16:11



WashIT



Mambesi

Personal Details

Mambesi

Dem

Gender: Male

Title: Mr

220106495


0825152423

Address Details

BACK

EDIT



Use Case ID	Use Case Name
B0300	Edit Profile
Initial UI design	
	
Final UI	



Personal Details

Mambesi

Dem

Gender: ☐ Male ☐ Female

Title:

Select the Title: 

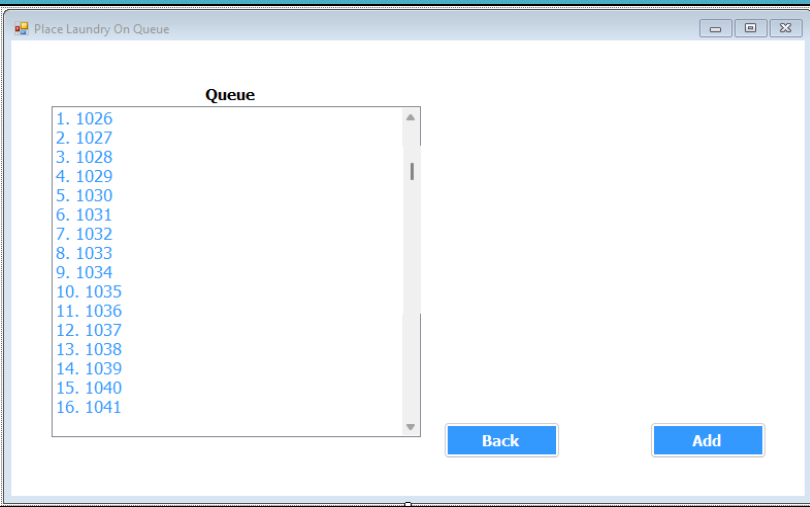
220106495

0825152423

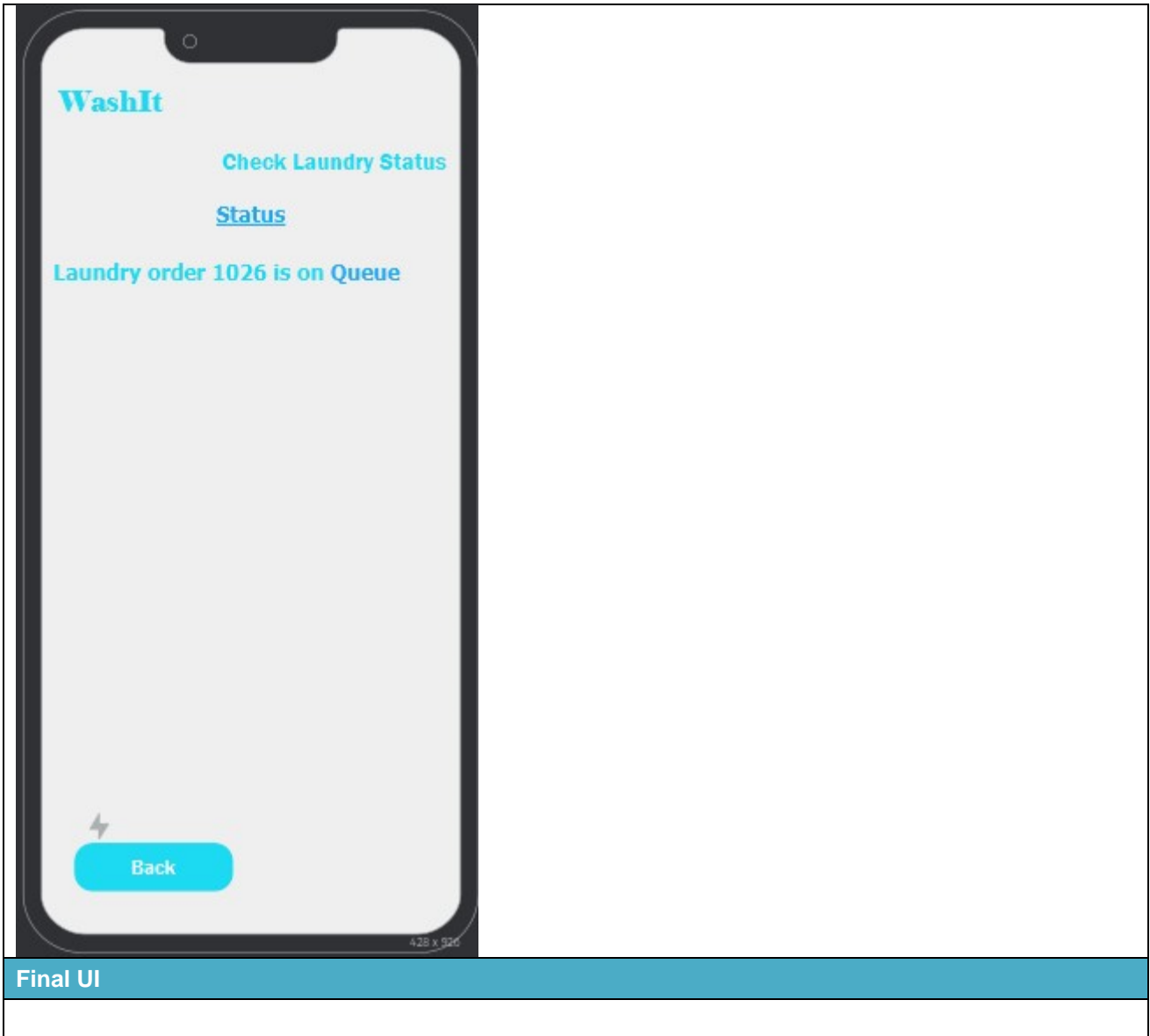
BACK

SAVE



Use Case ID	Use Case Name
A0700	Place laundry on the queue
Initial UI design	
	
Final UI	

Use Case ID	Use Case Name
C0500	Check Laundry Status
Initial UI design	



2.4.3 Designed by Mambesi Dem

Use Case ID	Use Case Name
A0800	Send Address to driver

Initial UI design

Send Address to the driver

Order ID: 1024
First Name: Likhona
Surname: Kulutwana
Address: 1st line
2nd line
3rd line
Contact Number: 081 479 4576

Order ID: 1025
First Name: Samkele
Surname: Hokwana
Address: 1st line
2nd line
3rd line
Contact Number: 081 479 4576

Order ID: 1026
First Name: Mambesi
Surname: Dem
Address: 1st line
2nd line
3rd line
Contact Number: 075 348 2876

Back Send

Final UI

Login Page

Order Number: 1

Name: Mambesi
Surname: Dem
Student Number: 220106495
Residential Address: 1243 NU 15
Mdantsane
East London
Contact Number: 00825152423

Order Number: 2

Name: Samkele
Surname: Hokwana
Student Number: 221548697
Residential Address: 124 NU 2
Mdantsane
East London
Contact Number: 0751264963

Order Number: 3

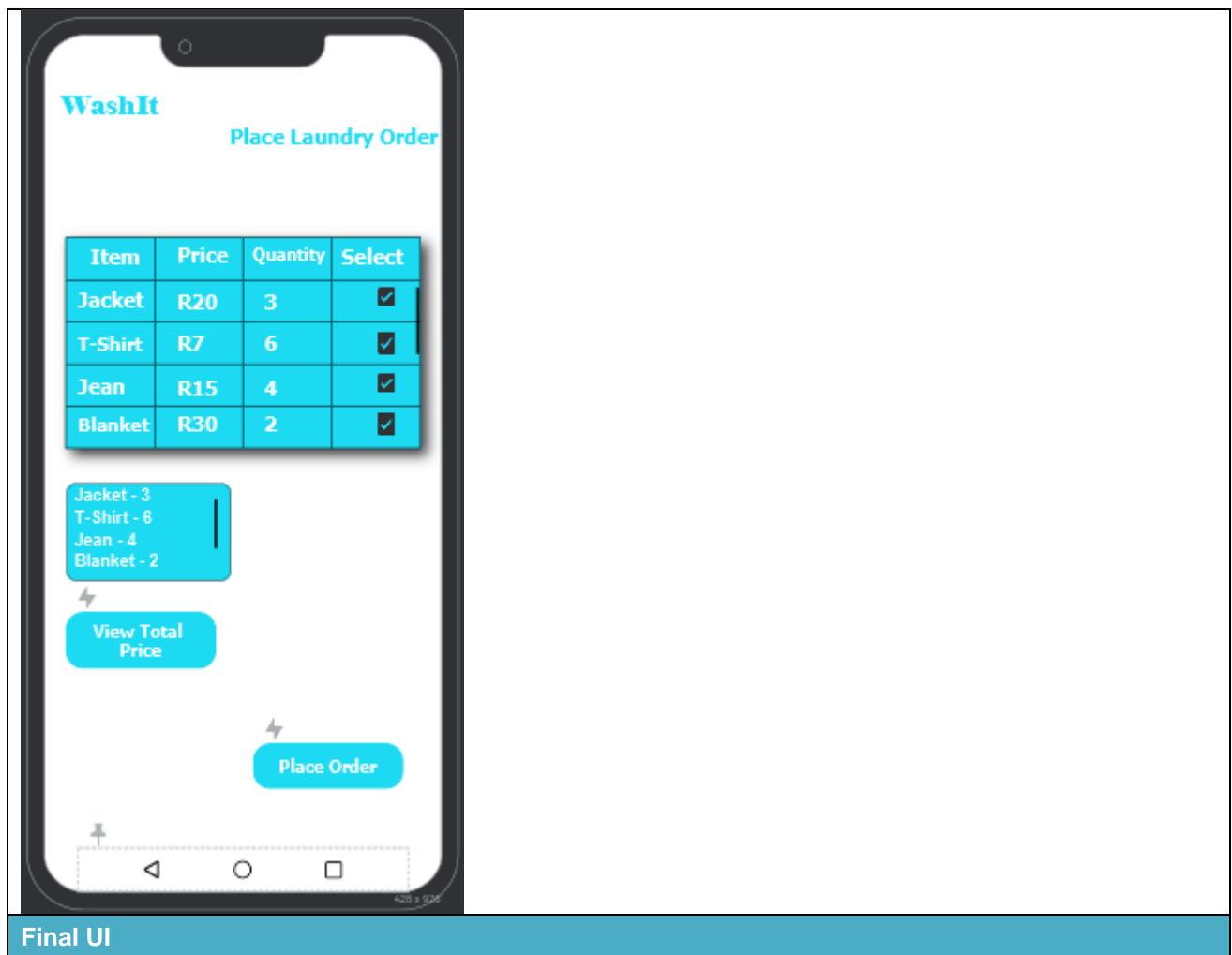
Back Send

WashIT
Experience the Magic of Freshness: Laundry Perfection. Simplified!

made with P

Use Case ID	Use Case Name
C0100	Place Laundry Order

Initial UI design



16:11



Filter by Category ▼

Enter Item name

Item	Price	Quantity	Select
Jacket	19,00	0	<input type="checkbox"/>
T-Shirt	8,00	0	<input type="checkbox"/>
Jean	15,00	0	<input type="checkbox"/>
Blanket	30,00	0	<input type="checkbox"/>
Socks	0,50	0	<input type="checkbox"/>
Curtain	30,00	0	<input type="checkbox"/>



LAUNDRY BASKET

alamy

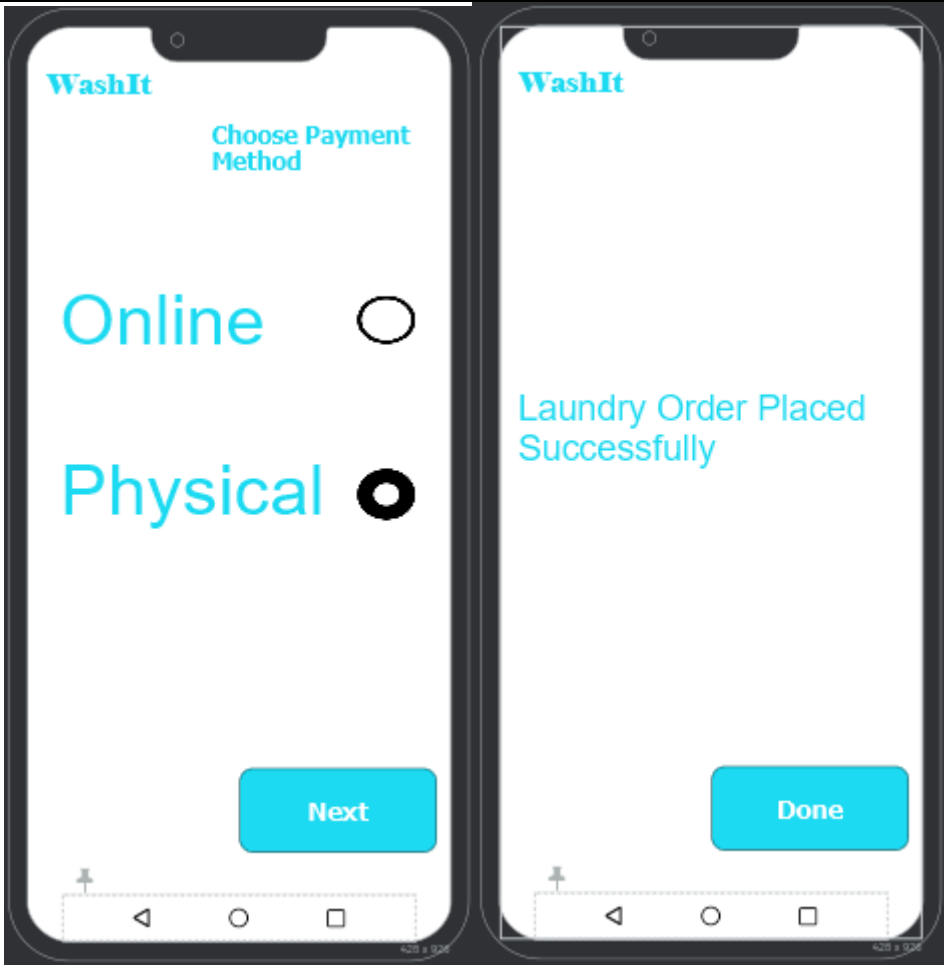
made with Placeit

Total Price

Connection successful!

PLACE ORDER



Use Case ID	Use Case Name
C0200	Choose Payment Method
Initial UI design	
	
Final UI	

16:11



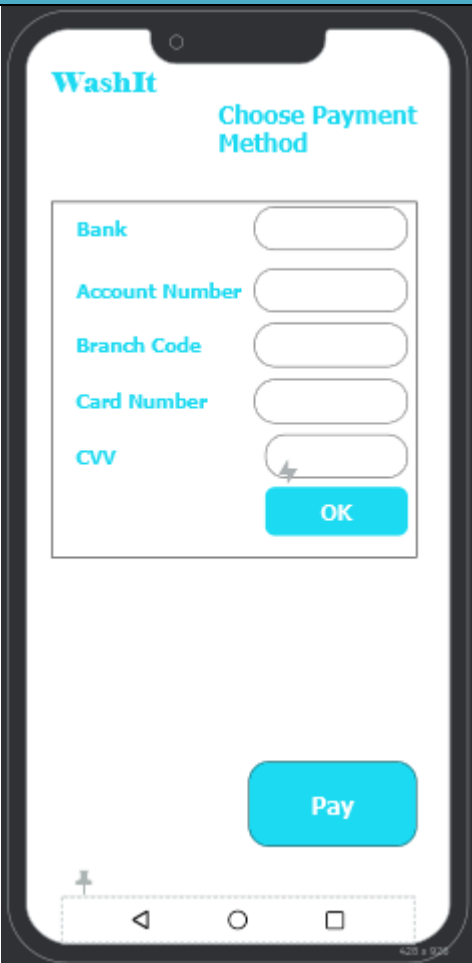
Choose Payment Method

- ☒ Online
- ☐ On Delivery

made with *Placeit*

NEXT



Use Case ID	Use Case Name
C0300	Make Online Payment
Initial UI design	
	
Final UI	

Make Online Payment

Bank Name

Acc
Number

Branch
Code

Card
Number

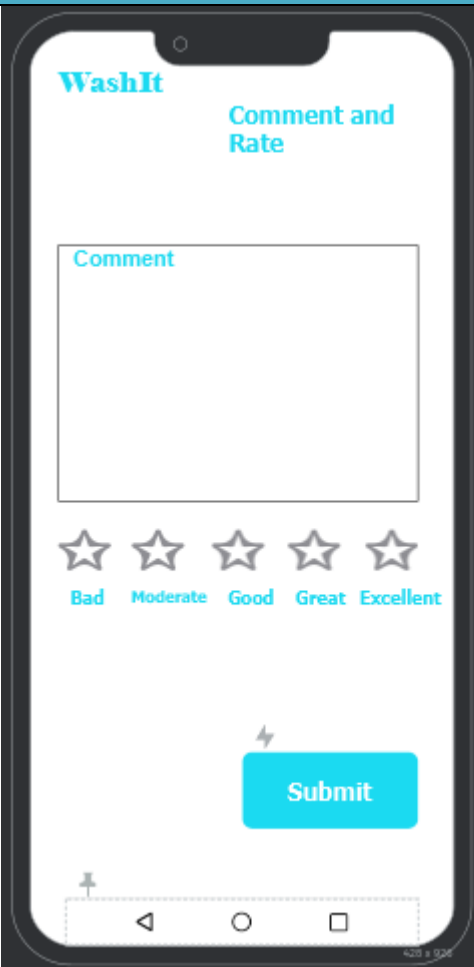
CVV

SAVE

made with **Placeit**

PAY



Use Case ID	Use Case Name
C0400	Comment and Rate
Initial UI design	
	
Final UI	

Comment and Rate

Write a comment



Bad



Moderate



Good



Great



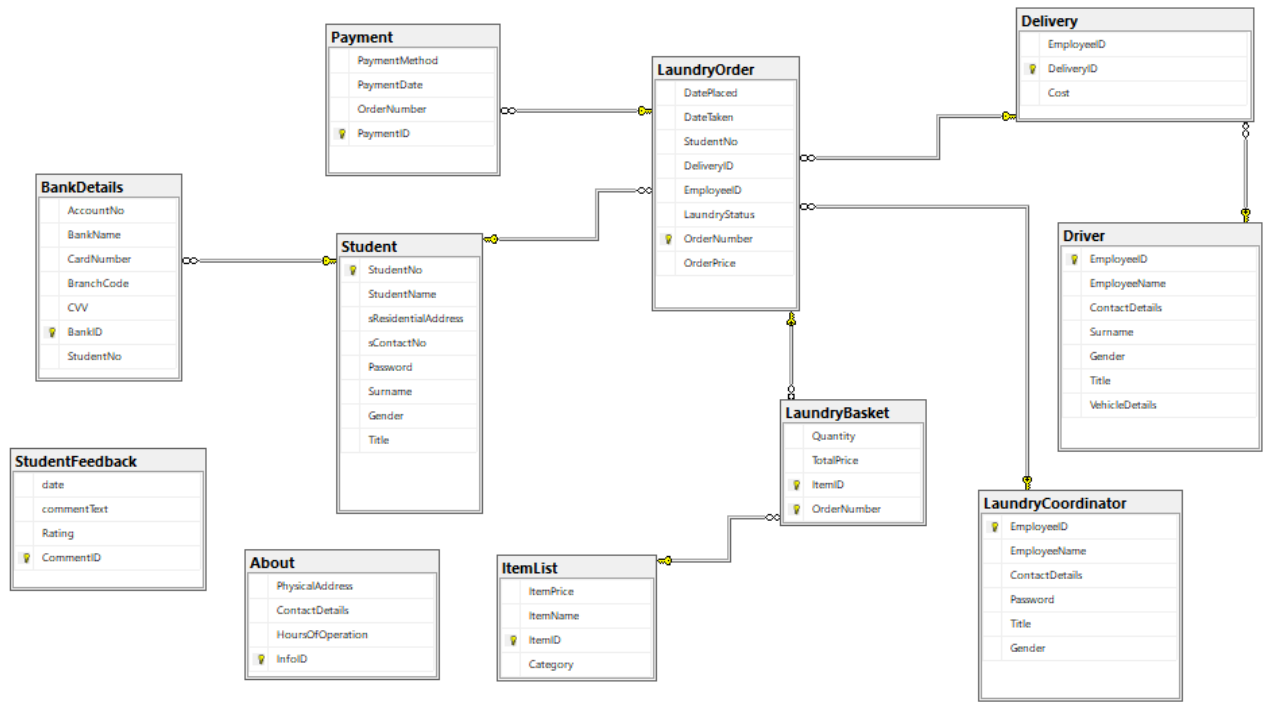
Perfect

SUBMIT



3 DATA REQUIREMENTS

3.1 Implementation Ready Class Diagram



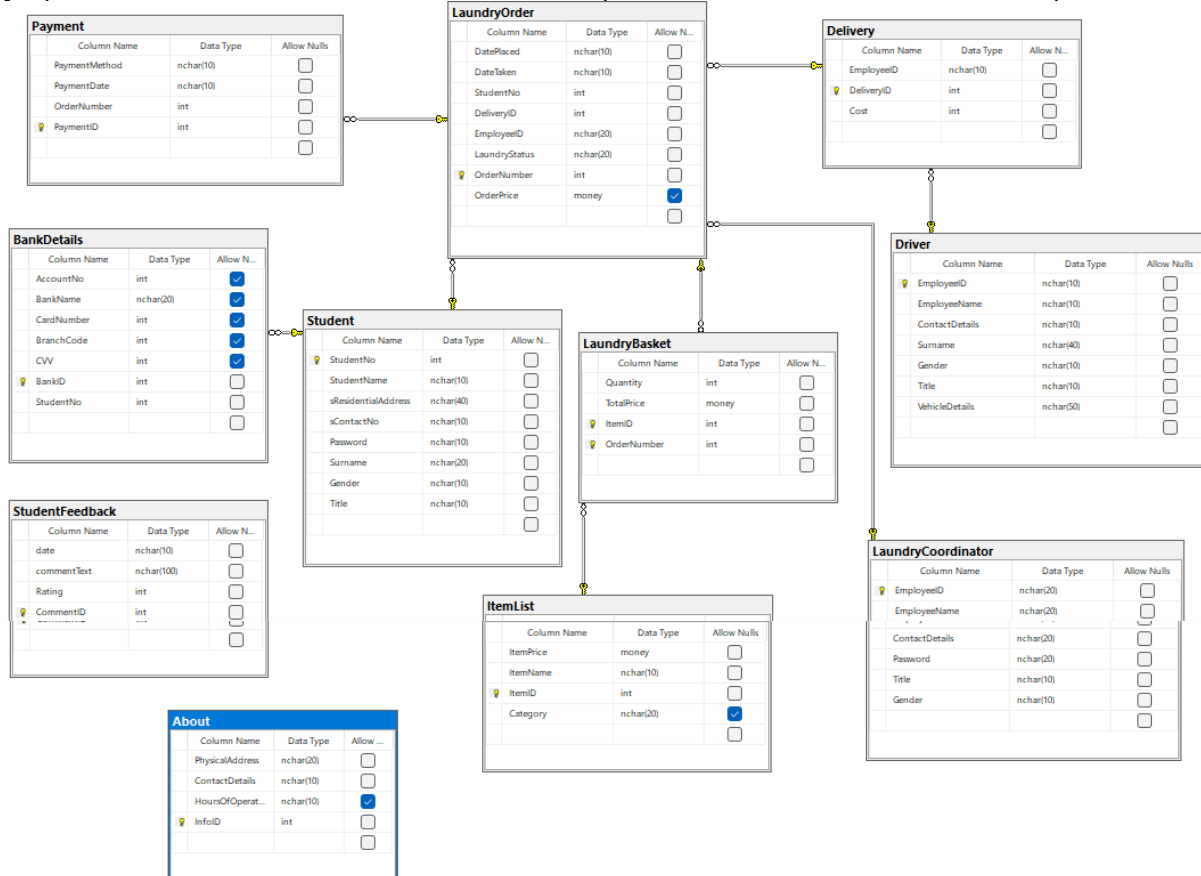
3.2 Implemented database structure

We have used **Microsoft SQL Server Management Studio** to create our database in.

The name of the database for our project is **WRRVProject**

The path to the database is: **C:\Program Files\Microsoft SQL Server\MSSQL16.MSSQLSERVER\MSSQL\DATA**

[Replace this text with screenshot of the relationship view OR database schema of the implemented database]



3.3 Test Data

About										
	1	2	3	4	5	6	7	8	9	10
PhysicalAddress										
ContactDetails										
HoursOfOperation										
Infold										

BankDetails										
	1	2	3	4	5	6	7	8	9	10
AccountNo										
BankName										
CardNumber										
BranchCode										
CVV										
BankID										
StudentNo										
Delivery										
	1	2	3	4	5	6	7	8	9	10
EmployeeID										
DeliveryID										
Cost										
Driver										
	1	2	3	4	5	6	7	8	9	10
EmployeeID										
EmployeeName										
ContactDetails										
Surname										
Gender										
Title										
VehicleDetails										
ItemList										
	1	2	3	4	5	6	7	8	9	10
ItemPrice										
ItemName										
ItemID										
Category										
LaundryBasket										
	1	2	3	4	5	6	7	8	9	10
Quantity										
TotalPrice										
ItemID										
OrderNumber										
LaundryCoordinator										
	1	2	3	4	5	6	7	8	9	10
EmployeeID										
EmployeeName										
ContactDetails										
Password										
Title										
Gender										
LaundryOrder										
	1	2	3	4	5	6	7	8	9	10
DatePlaced										
DateTaken										
StudentNo										
DeliveryID										
EmployeeID										

LaundryStatus										
OrderNumber										
Payment										
	1	2	3	4	5	6	7	8	9	10
PaymentMethod										
PaymentDate										
OrderNumber										
PaymentID										
Student										
	1	2	3	4	5	6	7	8	9	10
StudentNo										
StudentName										
sRedentialAddress										
sContactNo										
Password										
Surname										
Gender										
Title										
StudentFeedback										
	1	2	3	4	5	6	7	8	9	10
date										
commentText										
CommentID										
Rating										

4 TECHNICAL REQUIREMENTS

4.1 System Environment

4.2 Start-up Instructions

Open the desktop app in IntelliJ IDE. Open the mobile app in Android Studio IDE. Use an IP address to connect to the database in Android Studio. The IP Address should be checked in the "DatabaseManager" class and update it before running the application. Make use sure that the mobile phone you are using to run the app uses Android version 10 or 11 as an operating system. Make sure that the mobile phone is connected to the same network as the PC connected to the database. The database used should be in this PC's MS SQL server.

4.3 Logins & Passwords

Desktop

Username = 12345

Password = 1234

Mobile

Username = 220106495

Password = mambDee