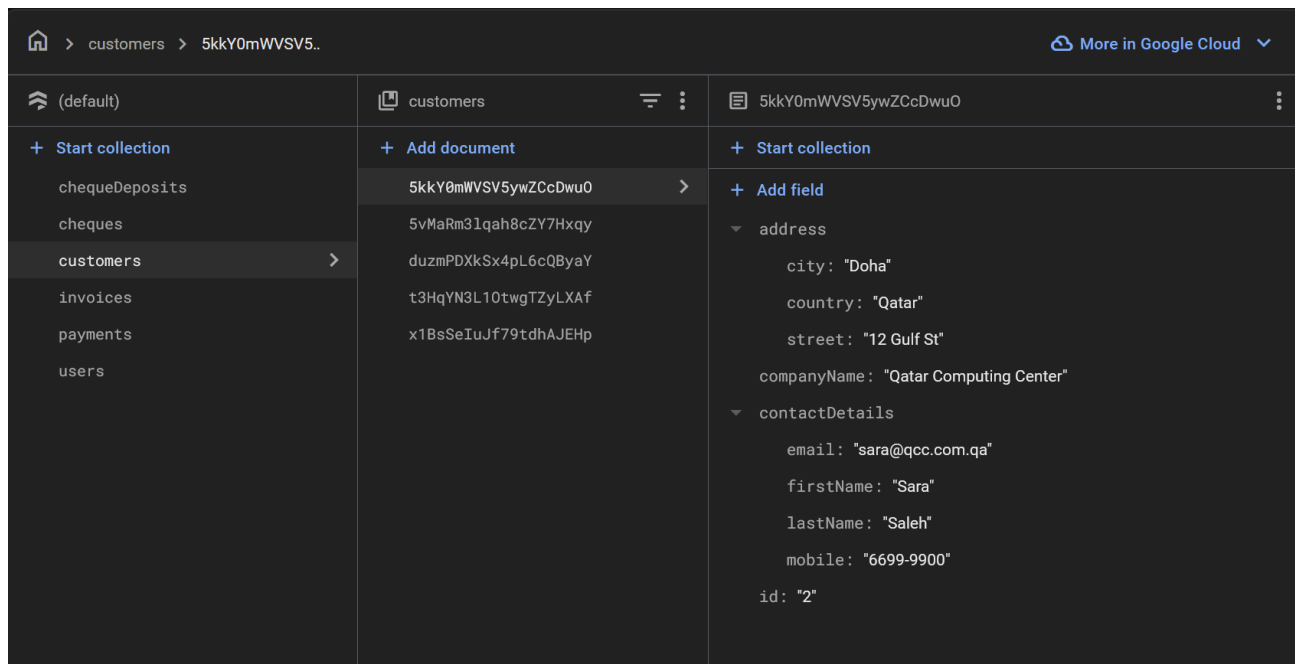
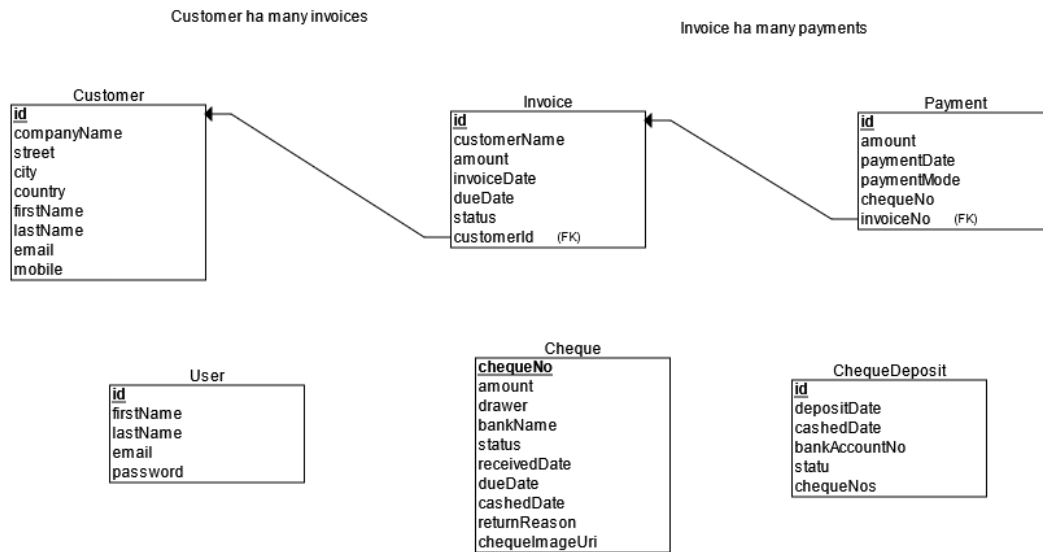




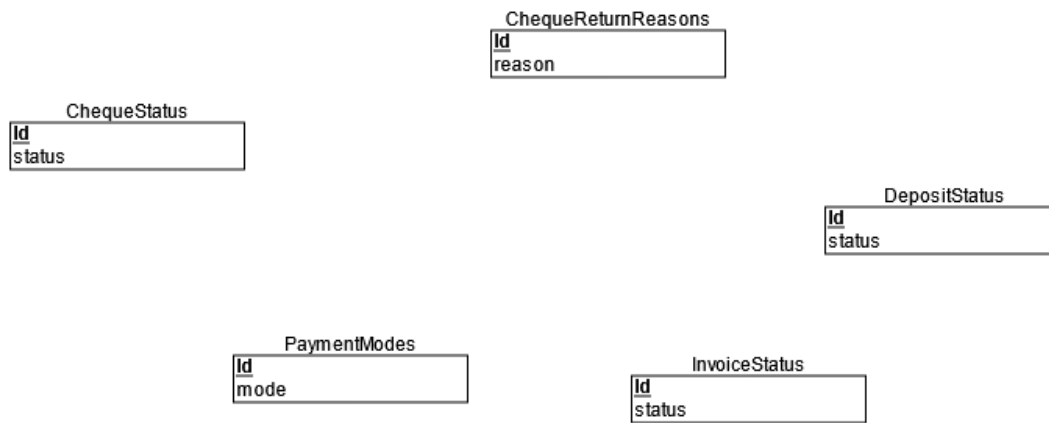
Mobile Project Phase 2 – Data Layer using Firestore, Firebase Storage and local SQLite Database

1. Database Design

1.1. Firestore database schema diagram



1.2. SQLite database schema diagram



2. Testing

2.1. U1 – Signup and Signin using Firebase Authentication



Register Account

First Name

Aiman

Last Name

Alhetari

Email Address

alhetari@gmail.com

Password

.....

Sign Up

Already Have Account? [Log In](#)



Hello Again

Email Address

alhetari@gmail.com

Password

.....|

Sign In

New User? Create Account

hKszuEFFqYZP...

More in Goog

(default)

users

hKszuEFFqYZPUfgEfiFJE8nsE8o1

+ Start collection

chequeDeposits

cheques

customers

invoices

payments

users

+ Add document

E1cYWcNYuPRWcUks6SnT

hKszuEFFqYZPUfgEfiFJE8nsE8o1

xFNBTfn1R6pI2zzaX8Ht

x1xKfb5qgMiKLPZAMBfn

+ Start collection

+ Add field

email: "alhetari@gmail.com"


firstName: "Aiman"

lastName: "Alhetari"


userId: "hKszuEFFqYZPUfgEfiFJE8nsE8o1"

Authentication



[Users](#) [Sign-in method](#) [Templates](#) [Usage](#) [Settings](#) [Extensions](#)

 Cross origin redirect sign-in is no longer supported in many browsers. Update your app to ensure your users can continue to sign into your app.

[Dismiss](#) [Learn more](#)

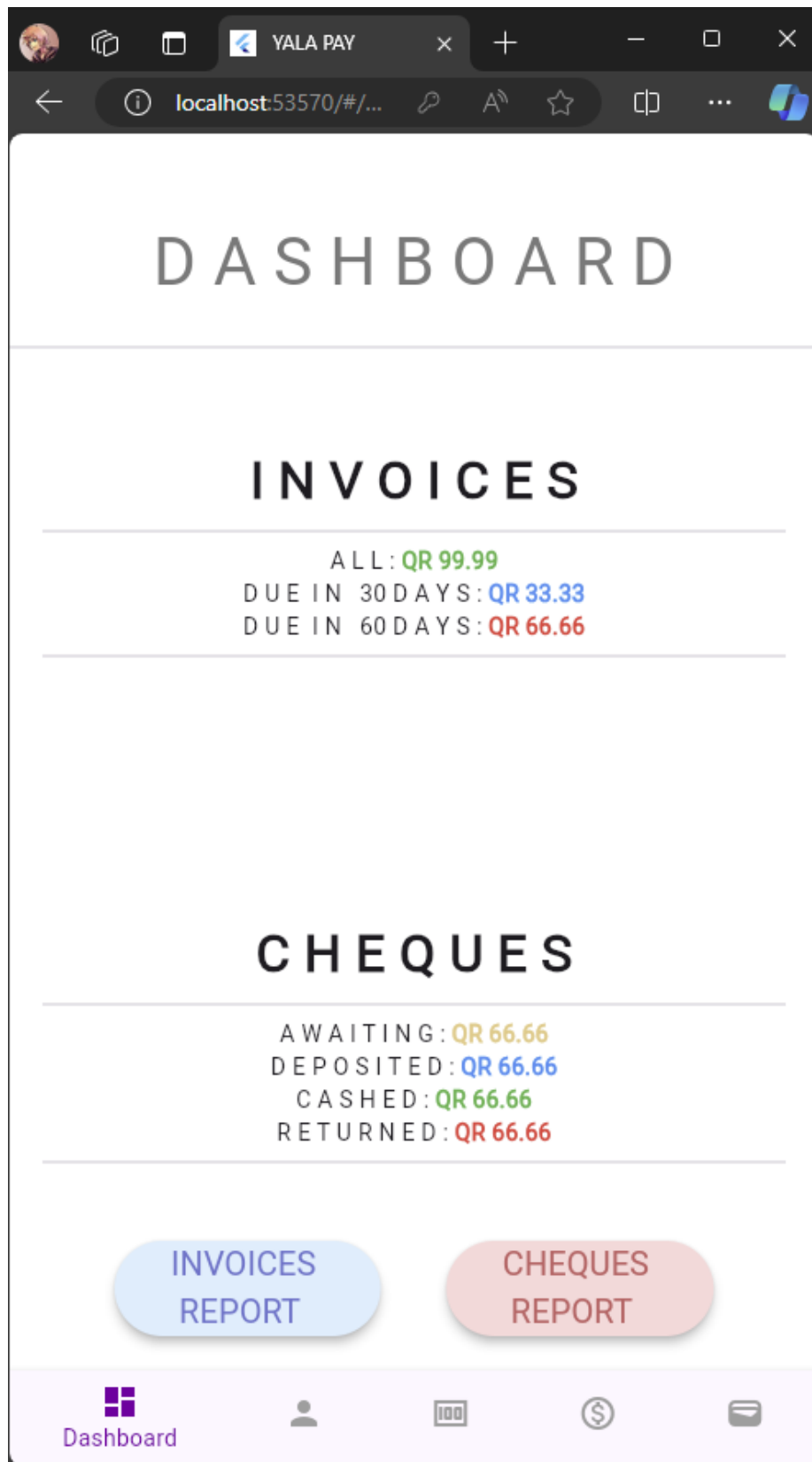
 Search by email address, phone number, or user UID

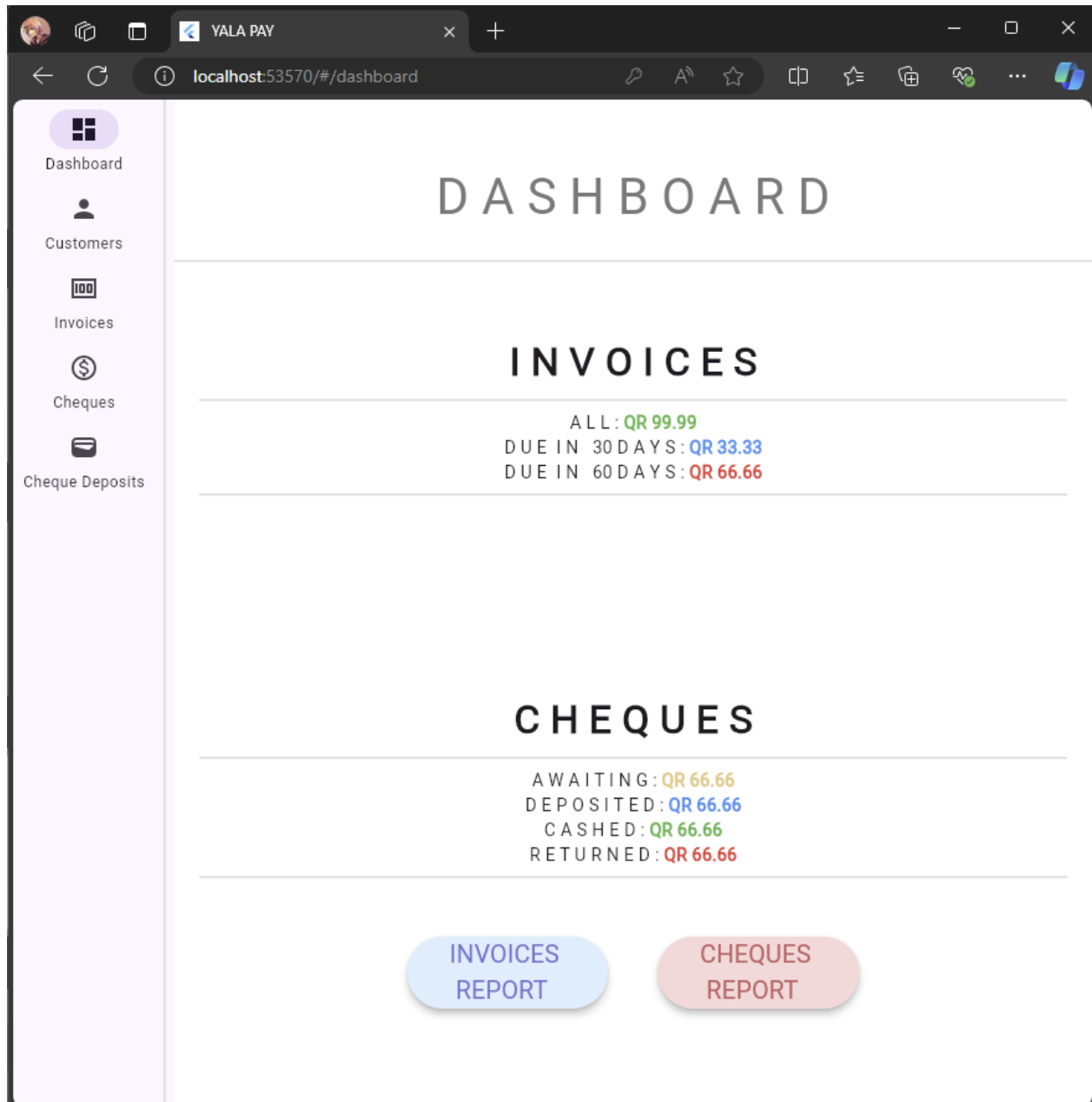
[Add user](#)

Identifier	Providers	Created	Signed In	User UID	
alhetari@gmail.com		Dec 15, 2024	Dec 15, 2024	hKszuEFFqYZPUfgEfiFJE8nsE...	 ...

Rows per page: 50 1 - 1 of 1

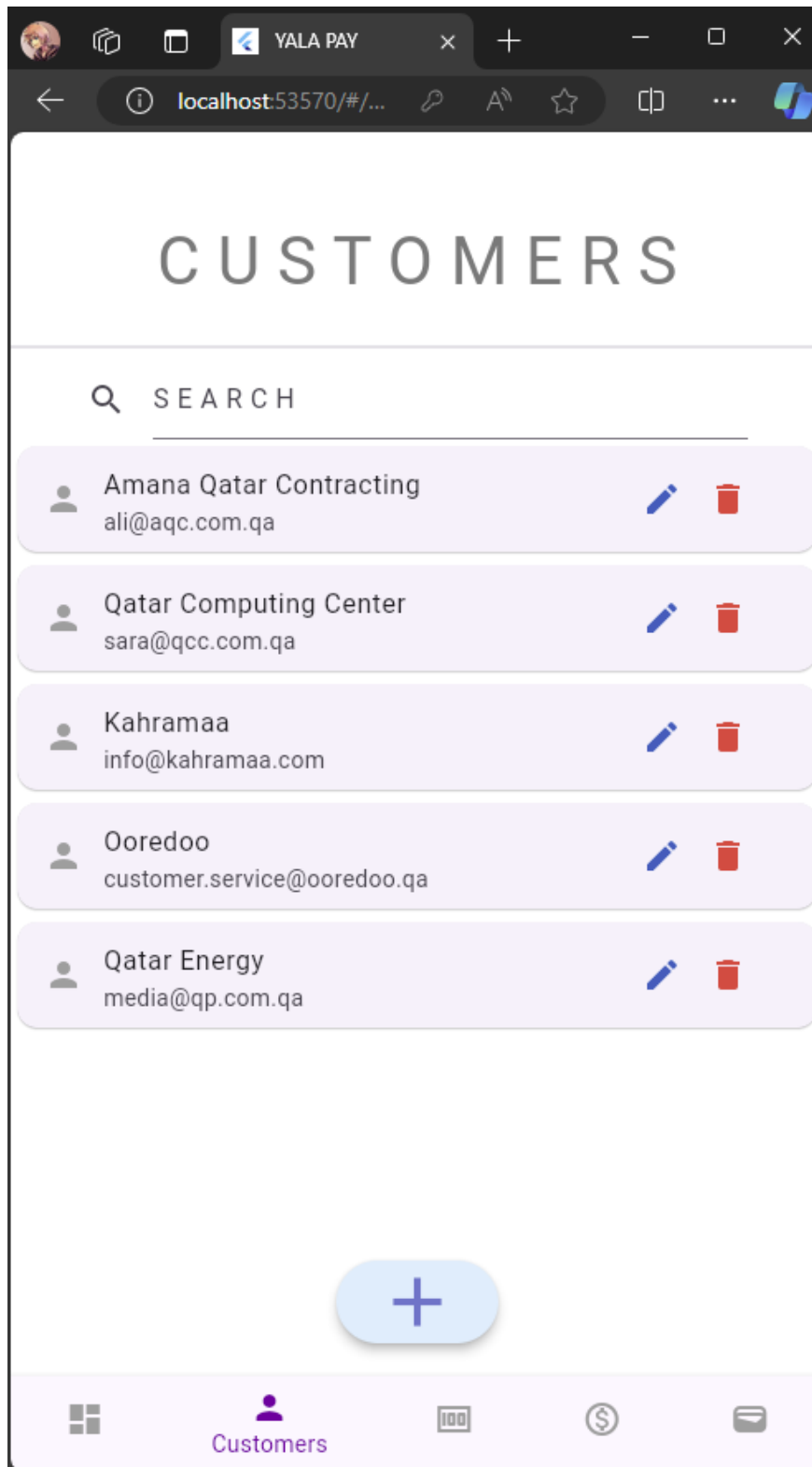
2.2. U2 - YalaPay Dashboard



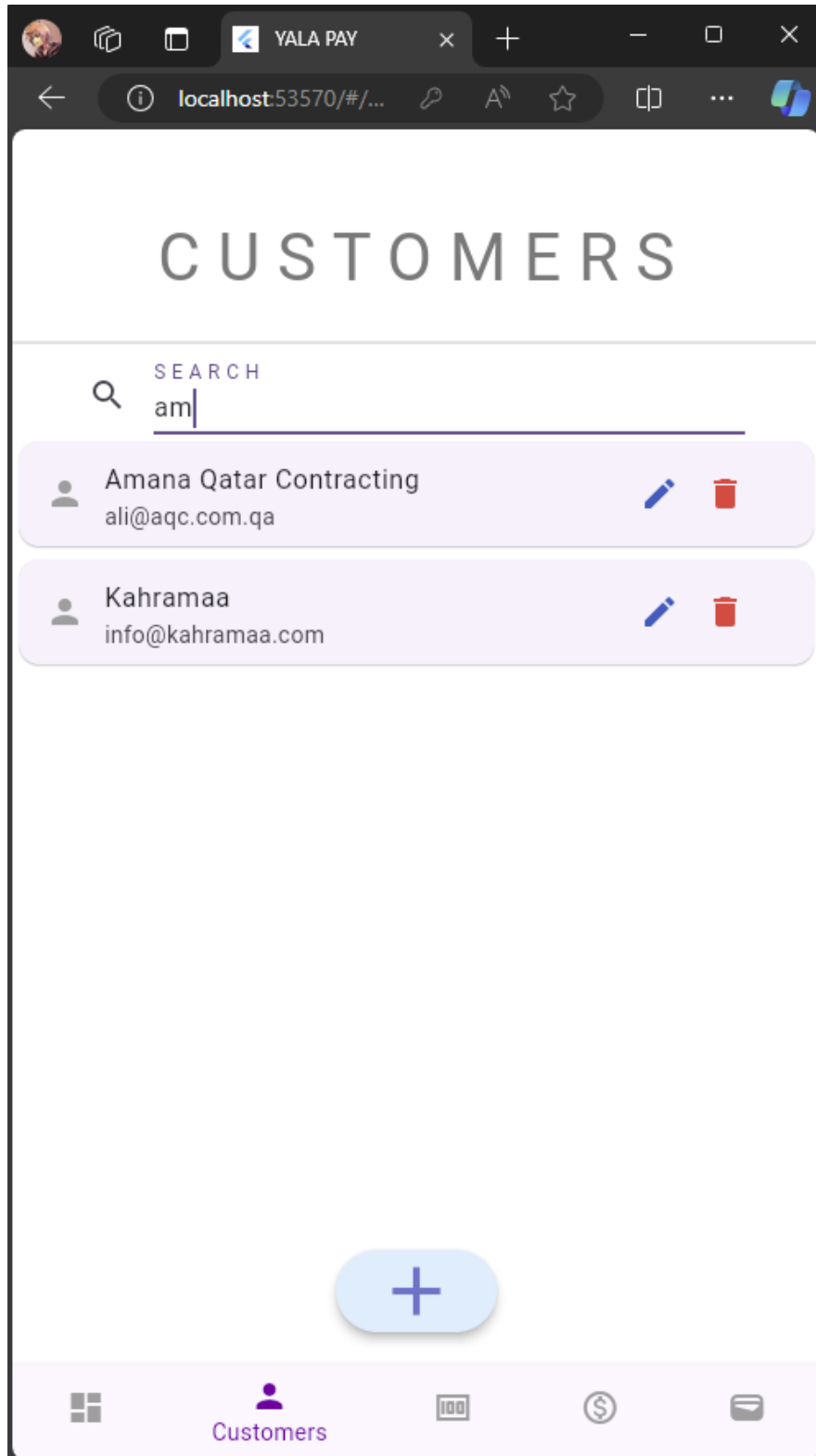


1.1. U3 - List/Search/Add/ Update and Delete a Customer

1.1.1. List Customers



1.1.2. Search Customers



1.1.3. Add Customer

The screenshot shows a mobile application interface for adding a new customer. The browser address bar at the top indicates the URL is `localhost:53570/#/...`. The app's header is a light purple bar with a back arrow and the text "NEW CUSTOMER". Below the header, there are two columns of input fields. The left column contains "Company Name", "Country", "City", and "Street". The right column contains "First Name", "Last Name", "Email", and "Phone". Each field is represented by its label above a horizontal line. At the bottom center of the form area is a large, light blue button with the word "CREATE" in purple capital letters. The bottom of the screen features a navigation bar with five icons: a grid, a person icon, a document with a checkmark, a dollar sign, and a speech bubble. The "Customers" label is positioned below the person icon.

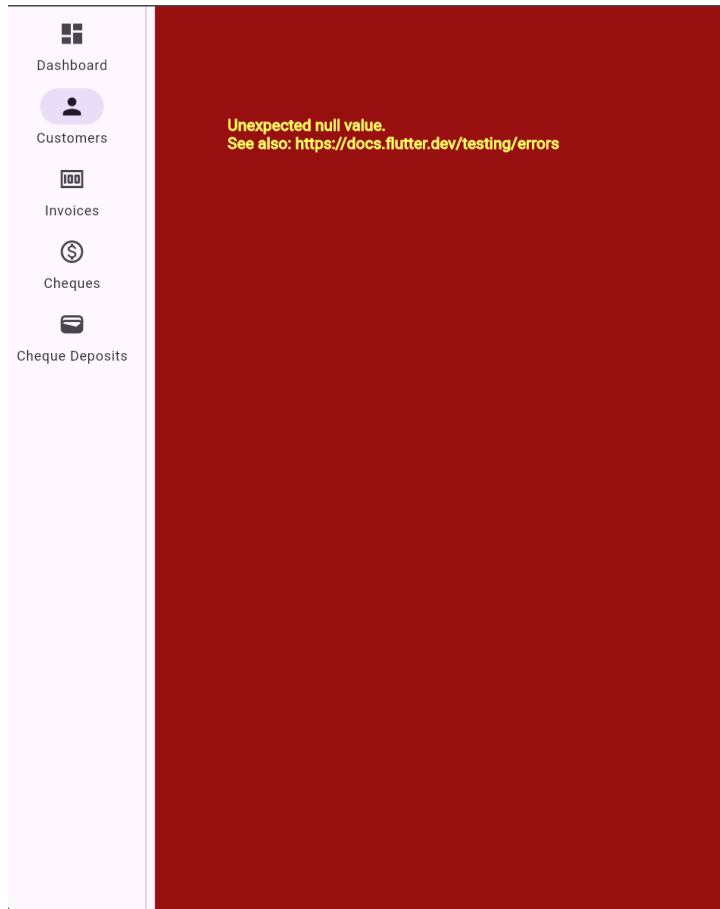
← NEW CUSTOMER

Company Name	First Name
Country	Last Name
City	Email
Street	Phone

CREATE

Customers

1.1.4. Update Customer



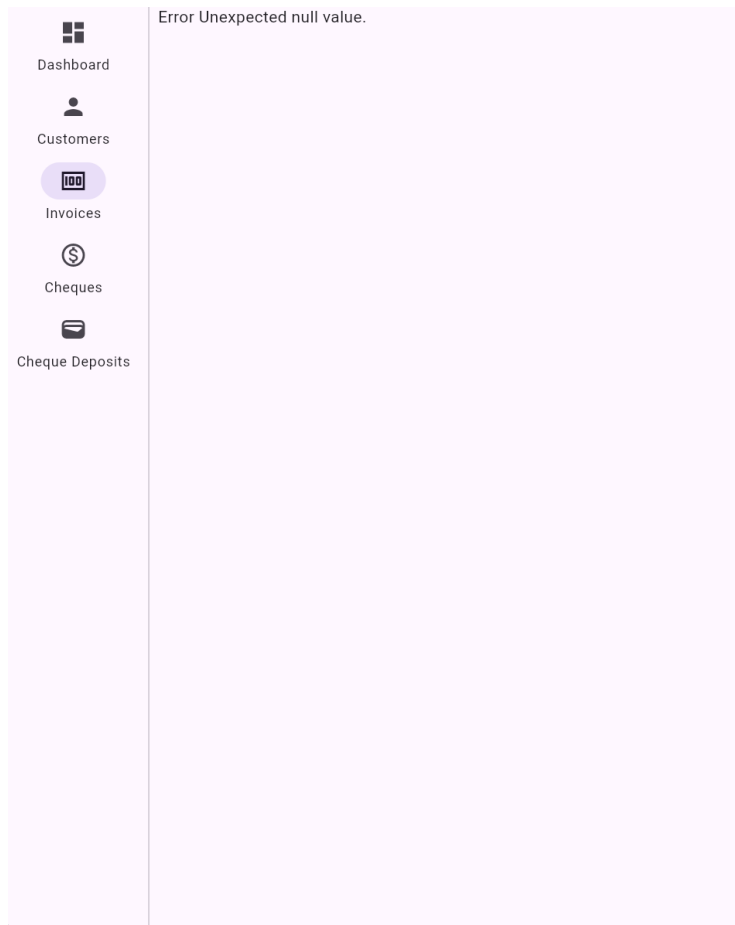
```
Another exception was thrown: Unexpected null value.  
Another exception was thrown: Unexpected null value.
```

1.1.5. Delete Customer


```
another exception was thrown: TypeError: "2": type 'String' is not a subtype of type 'Customer'  
another exception was thrown: TypeError: "2": type 'String' is not a subtype of type 'Customer'
```


1.2. U4 - List/Search/Add/ Update and Delete an Invoice


1.2.1. List Invoices





1.2.2. Search Invoices


Dashboard


Customers



Invoices


Cheques



Cheque Deposits

Error Unexpected null value.


1.2.3. Add Invoice




Dashboard




Customers



Invoices




Cheques





Cheque Deposits


Error Unexpected null value.


1.2.4. Update Invoice


Dashboard


Customers



Invoices


Cheques



Cheque Deposits

Error Unexpected null value.


1.2.5. Delete Invoice




Dashboard




Customers



Invoices



Cheques

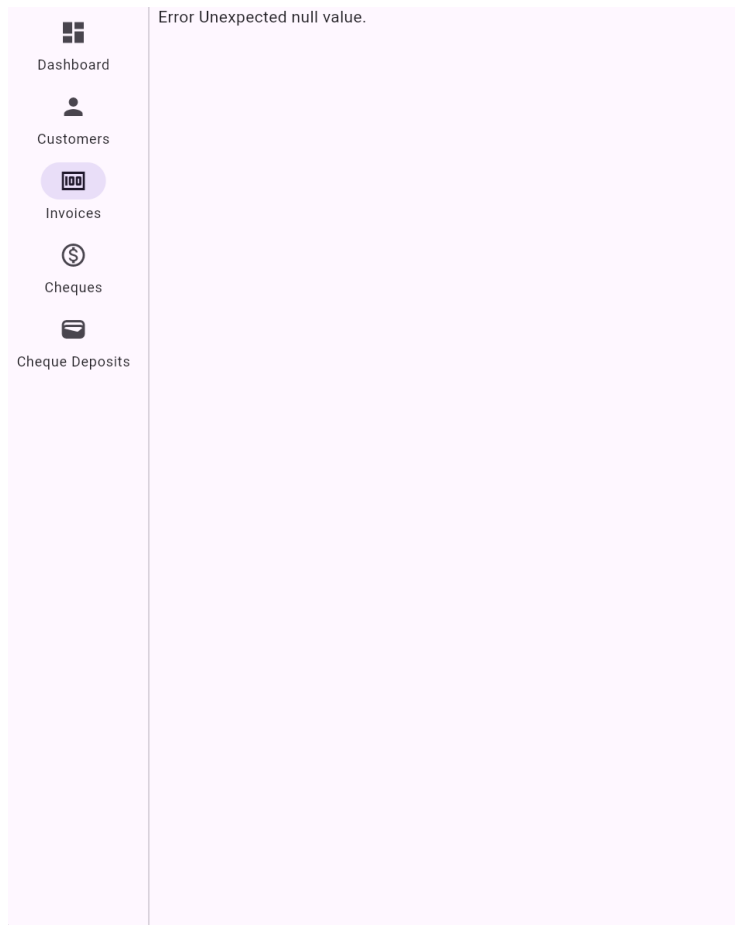


Cheque Deposits


Error Unexpected null value.


1.3. U5 - List/Search/Add/ Update and Delete payments for an invoice


1.3.1. List Payments





1.3.2. Search Payments


Dashboard


Customers



Invoices



Cheques



Cheque Deposits


Error Unexpected null value.


1.3.3. Add Payment including attach a cheque image


Dashboard


Customers

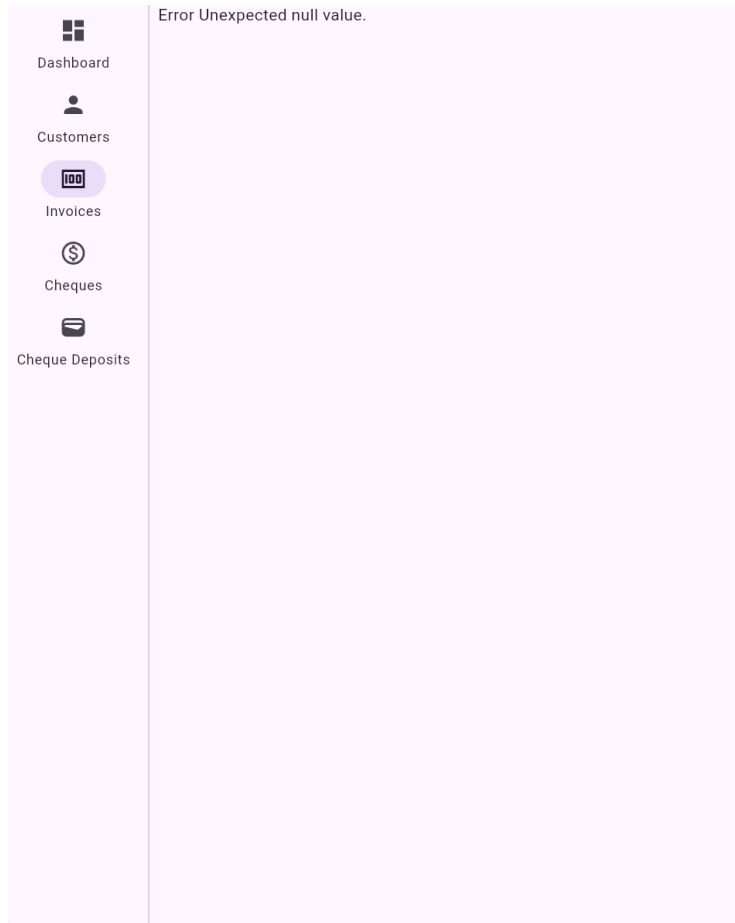

Invoices


Cheques


Cheque Deposits

Error Unexpected null value.

1.3.4. Update Payment including attach a cheque image



1.4. U6 - Manage Cashing Cheques

1.4.1. Add Cheques Deposit

Include the ability to create a Cheque Deposit having multiple cheques.

Dashboard

Customers


Invoices

Cheques

Cheque Deposits

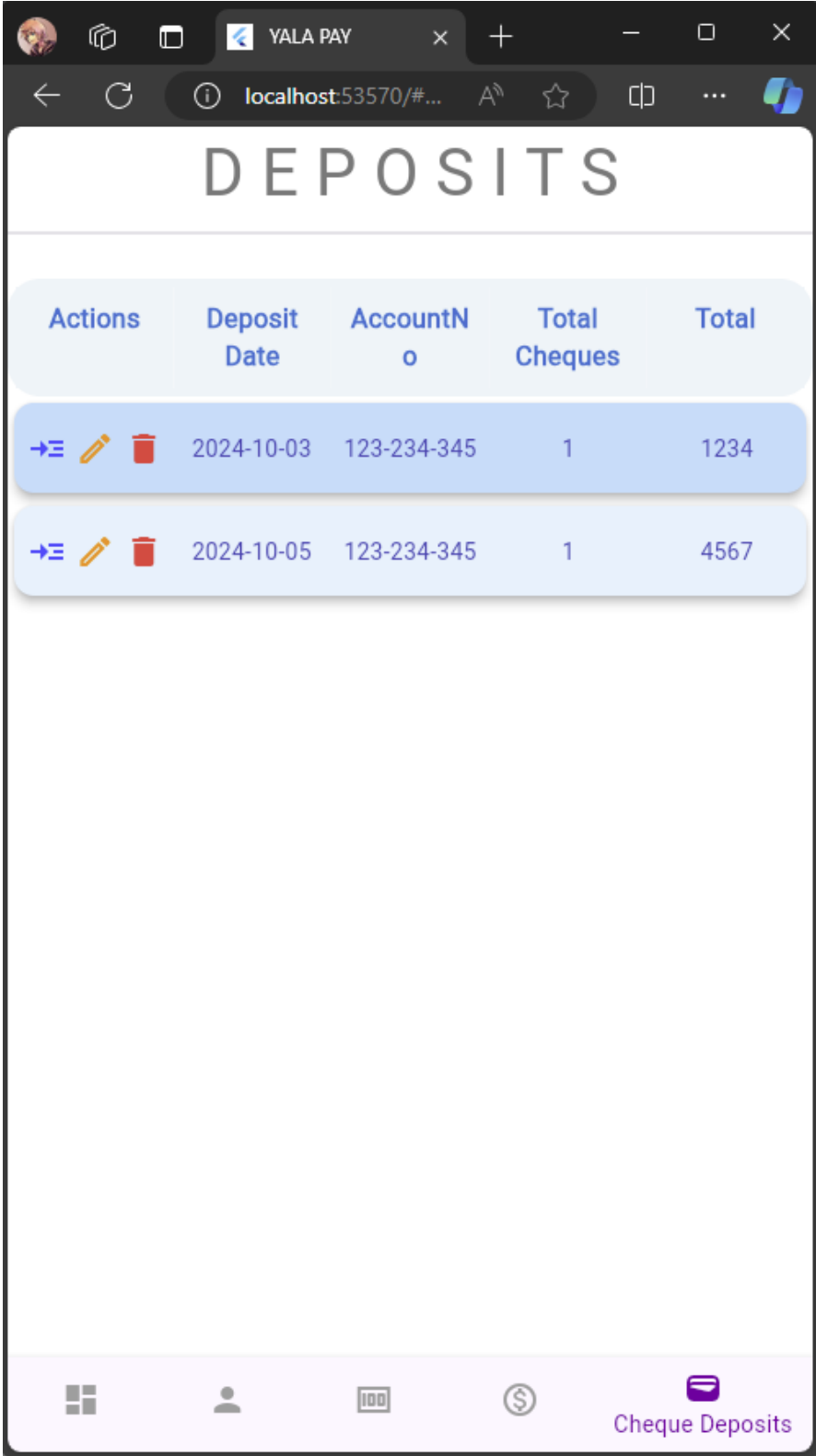
CHEQUES AWAITING

✓	Cheque No.	Amount	Drawer	Bank	Due Date	Actions
✓	5678	1000	Abbas Ibn Firnas	Qatar Islamic Bank	2024-10-16	(-60) Error Unexpected null value. 
✓	4567	500	Sara Dahak	Qatar National Bank	2024-10-03	(-73) Error Unexpected null value. 

Select account 

DEPOSIT

1.4.2. List Cheque Deposits





Dashboard



Customers



Invoices



Cheques



Cheque Deposits

DEPOSIT DETAILS

Account Number

123-234-345



Deposit Date

2024-10-05



Status

Deposited



Cheques



Qatar National Bank



500

Drawer: Sara Dahak

Awaiting

1.4.3. Update Cheques Deposit

Include the ability to set the *return date* and the *return reason* per cheque.



Dashboard



Customers



Invoices



Cheques



Cheque Deposits



UPDATE DEPOSIT

Account Number

123-234-345



Deposit Date

2024-10-05



Cashed Date



Status



Deposited



Cashed



Cashed with Returns



DATE



Cheques



Qatar National Bank






Drawer: Sara Dahak

Reason...



UPDATE

1.5. U7 - Invoices Report

<div><div></div><div>Dashboard</div></div> <div><div></div><div>Customers</div></div> <div><div></div><div>Invoices</div></div> <div><div></div><div>Cheques</div></div> <div><div></div><div>Cheque Deposits</div></div>	Error Unexpected null value.
--	------------------------------

1.6. U8 - Cheques Report

9:41

CHEQUES REPORT

FROM DATE

2024-10-01

TO DATE

2024-11-01

☒ Status

☒ All

☐ Awaiting

☐ Deposited

☐ Cashed

☐ Returned

GET

+ Total

QR 1500.00

QR 1000.00

QR 0.00

QR 0.00

+ Count

2

2

0

0

Note: Results are color coded! Refer to the status colors.

Dashboard