



PIK N GROCERS

MCA III Sem Regular

CA5313 Socially Relevant project

Team 10

Kani Kapoor K 2019202023

Kadirvelan L 2019202021



ABSTRACT

We knew that already there is a grocery online shopping at such sites like Amazon but they aren't that successful, we analyzed why this aren't successful as compared to other online services and observed that people's not showing interest in online grocery shop just because of the time delay and groceries is meant to be brought whenever require. As to fill this gap and promote nearby vendors sales and increase customers. We came up with an application that allows all vendors to register and show the list of items available at their store making it easier for customers to make decision rather than visiting the nearby store and waiting for an unavailable item for a certain period of time thus reducing time and fuel. The consumer can either choose to pick up at a scheduled time or can use our delivery partner if the store is far from the location or vendor can use their own delivery partner. At last mainly controlling the COVID spread by avoiding the crowd.

PROBLEM STATEMENT

The trend of the retailing store is changing as a growing number of retailers are shifting their focus from general brick and mortar retailing to new format such as electronic retailing or e-retailing. Over the last two decades, the Indian ecommerce sector has witnessed rapid growth. Increasing internet availability and mobile phone penetration are the two main drivers of this growth. Also, growing acceptability of online payments and favorable demographics has changed the way companies communicate, interact and do business with customers. To reduce the time consumed by both the both ends on shopping items and exchanging money. Avoiding the unnecessary crowd and contact between people. Also helping people to know the availability and decide better. Shopkeepers may have all the products but lack of exposure may cause them insufficient reach of audiences these problems can be eradicated.

LITERATURE SURVEY

Pepper Pantry

Pepper developed an app that let restaurants input the contact information of suppliers and place orders quickly, and then let those suppliers press a single button to confirm the order was received and in progress. In the six months since launch, things have changed dramatically for the startup, which has led co-founder and CEO Bowie Cheung to rethink the business. Alongside facilitating orders between restaurants and suppliers, Pepper has now opened up a consumer-facing portal called Pepper Pantry, allowing everyday users to place an order directly with a food supplier.

LITERATURE SURVEY

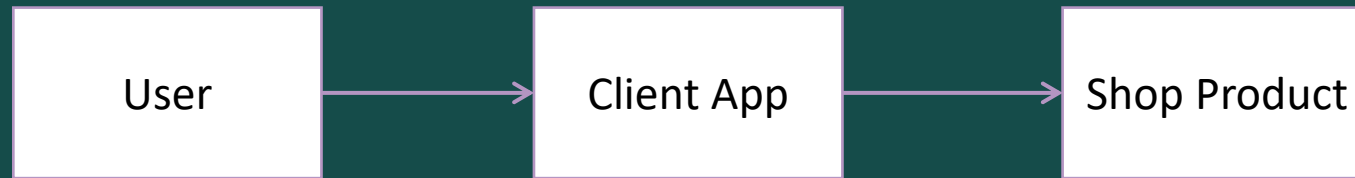
MyKirana

This is where a company called NeoMart wants to help the kirana stores narrow the gap with the new-age buyers. “We are helping offline retailers reach mobile users. The mobile screen is the most expensive real estate right now and only the big players can afford to pay high acquisition costs for them,” says Ashwini Kharbanda, Founder, NeoMart.

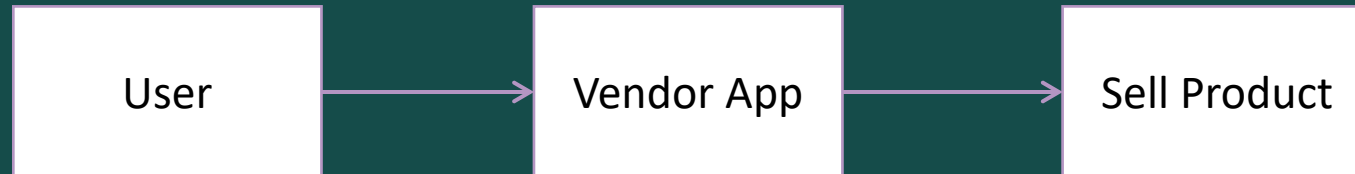
SYSTEM DESIGN

Data Flow Diagram

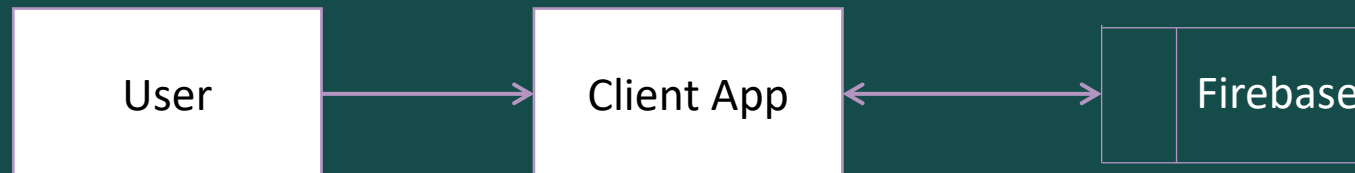
LEVEL : 0



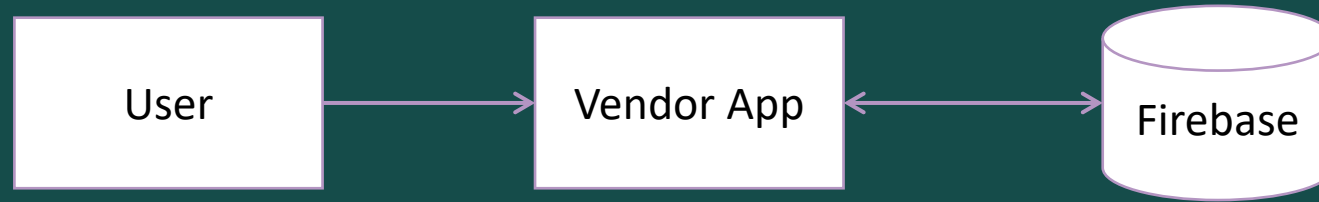
LEVEL : 0.2 Customer App



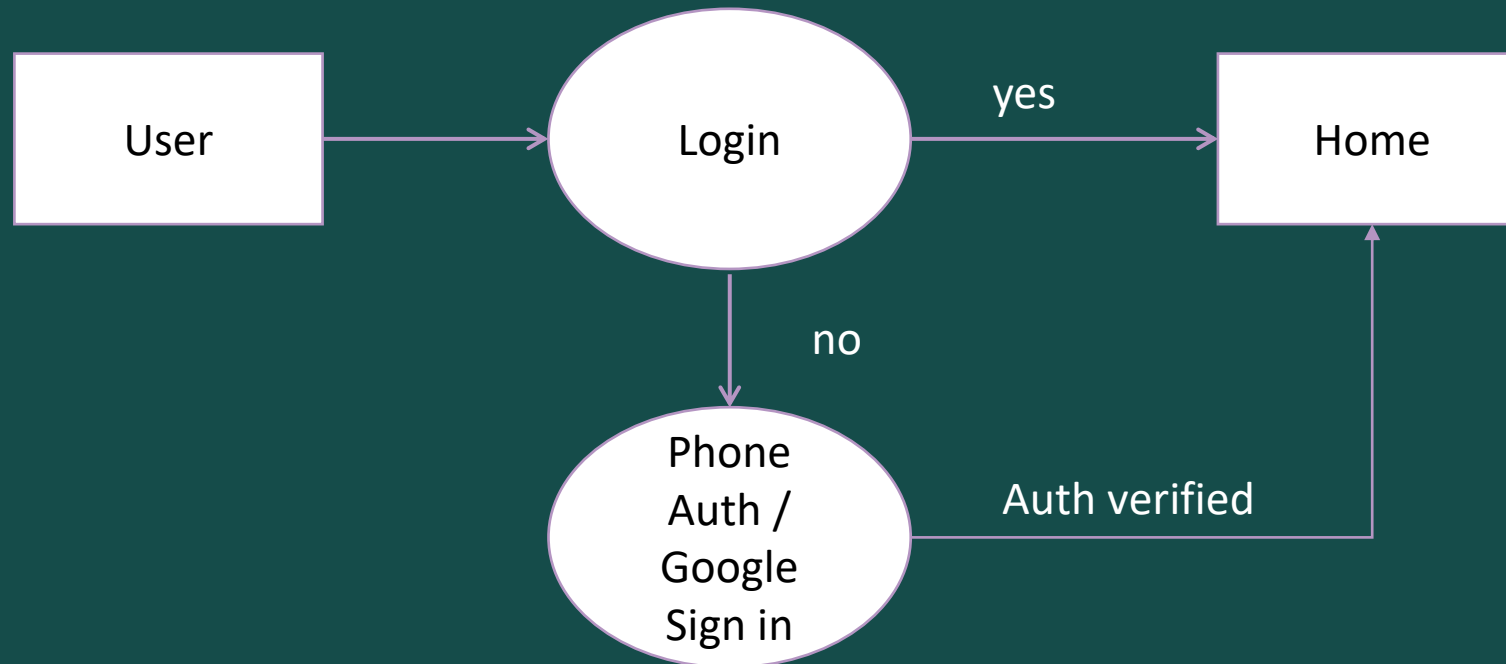
LEVEL : 0.2 Customer App



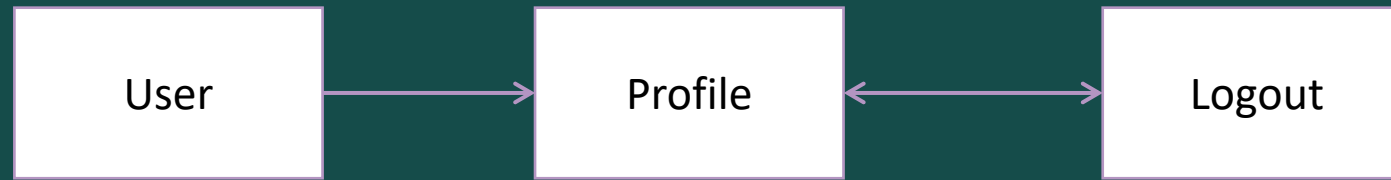
LEVEL : 0.3 Vendor App



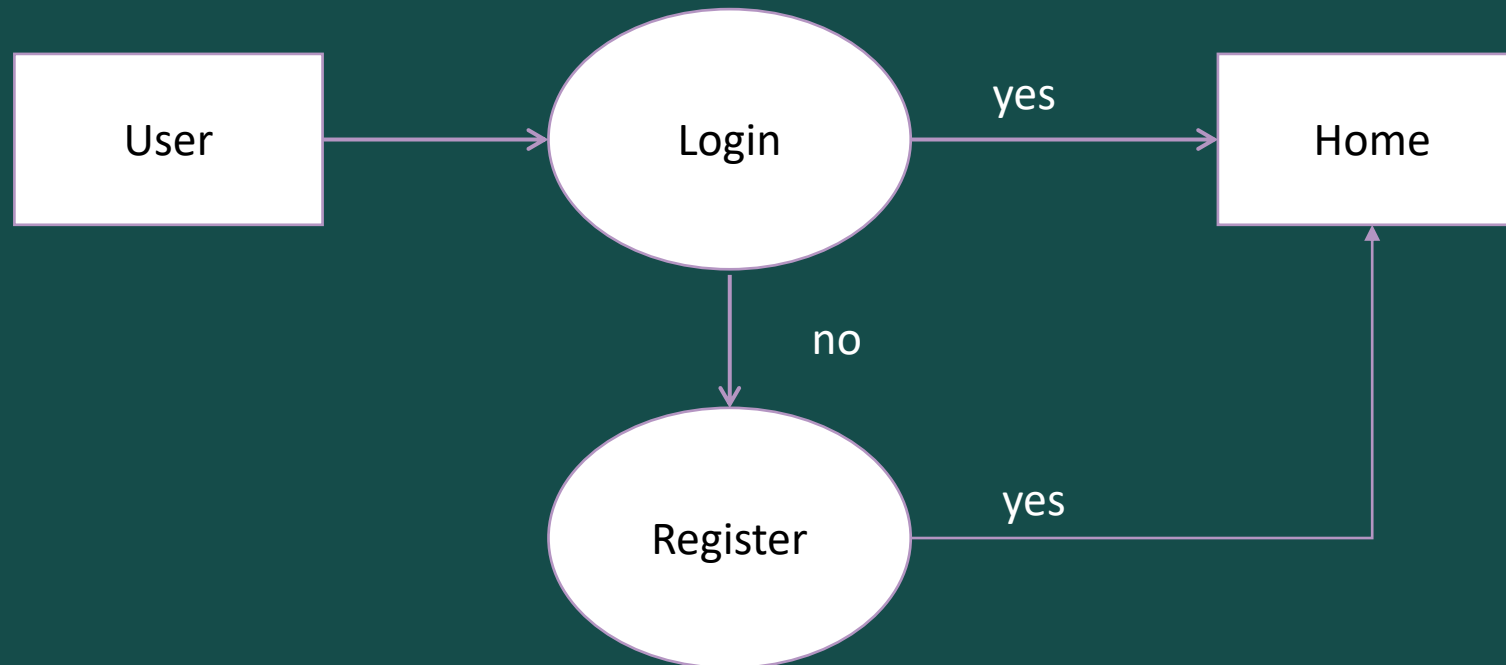
LEVEL: 1 Client Authentication



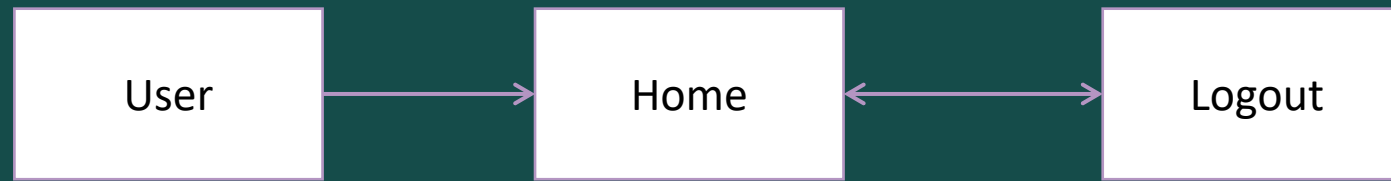
LEVEL : 1.1 Client Logout



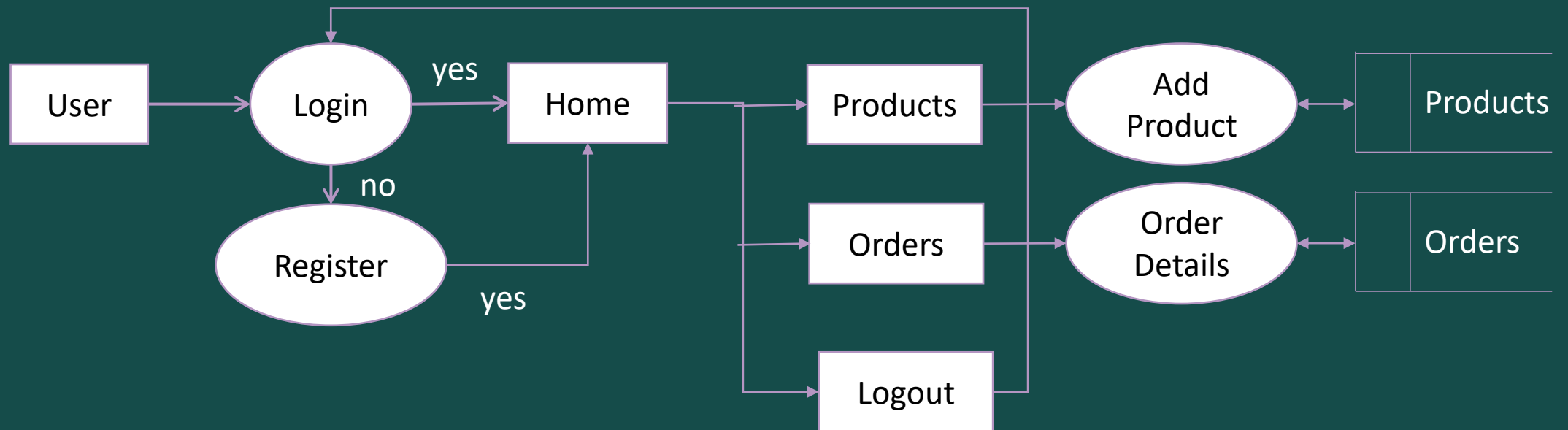
LEVEL: 1.2 Vendor Authentication



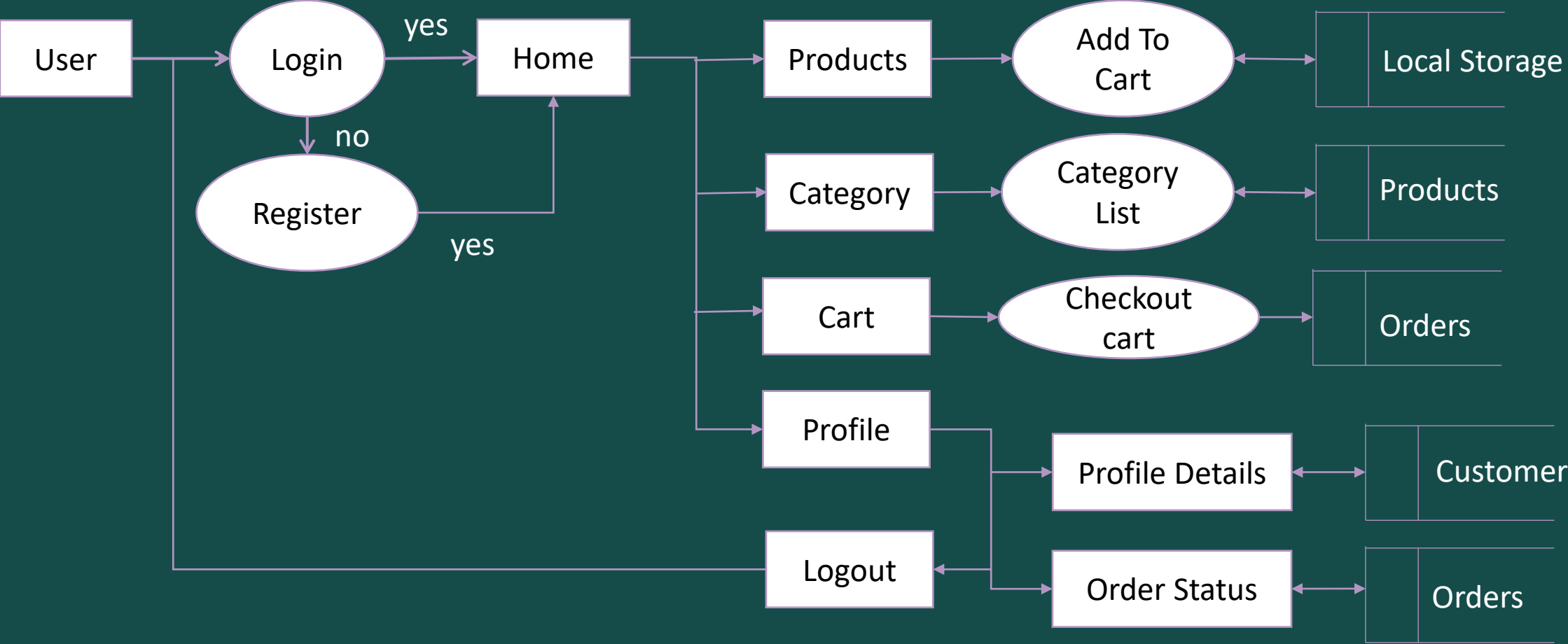
LEVEL : 1.4 vendor Logout



LEVEL : 2 Vendor



LEVEL : 2.1 Client



H/W, S/W REQUIREMENTS

- **Hardware Requirements**

- Operating System : Android 6.0 and Above
- RAM Memory : 2GB RAM
- ROM Memory : 5GB ROM
- Processor : 2GHz
- Processor make : Qualcomm Snapdragon 439

- **Software Requirements**

- Operating System : Windows 10
- Front End : Flutter framework and Dart programming language
- IDE : Android Studio
- Back End : Firebase

ALGORITHM/ SOURCE CODE/ IMPLEMENTATION

Main file

```
import 'package:flutter/material.dart';
import 'package:pikngrocers_vendor/screen/home.dart';
import 'package:pikngrocers_vendor/screen/landingpage.dart';
import 'package:firebase_core/firebase_core.dart';

void main() async{
  WidgetsFlutterBinding.ensureInitialized();
  await Firebase.initializeApp(
    name: 'pik_n_grocers_vendor',
    options: const FirebaseOptions(
      appId: '1:141689222091:android:b24a382213c3342db17c4e',
      apiKey: 'AIzaSyBwmf8weNbdh3VP3U2sl8BnMe0zMv9fs8g',
      messagingSenderId: '141689222091',
      projectId: 'pik-n-grocers-651d4'
    )
  );
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      initialRoute: '/',
      routes: {
        '/':(context) => LandingPage(),
        '/home':(context) => Home(),
      },
    );
  }
}
```

ALGORITHM/ SOURCE CODE/ IMPLEMENTATION

Landing page

```
import 'package:connectivity/connectivity.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:flutter/material.dart';
import 'package:pikngrocers_vendor/screen/home.dart';
import 'package:pikngrocers_vendor/screen/loginpage.dart';
import 'package:pikngrocers_vendor/utils/nointernet.dart';

class LandingPage extends StatefulWidget {
  @override
  _LandingPageState createState() => _LandingPageState();
}

class _LandingPageState extends State<LandingPage> {
  var _result;

  void getConnection() async {
    _result = await Connectivity().checkConnectivity();
  }

  @override
  void initState() {
    getConnection();
    super.initState();
  }

  FirebaseApp secondaryApp = Firebase.app('pik_n_grocers_vendor');

  @override
  Widget build(BuildContext context) {
    return StreamBuilder(
      stream: FirebaseAuth.instanceFor(app: secondaryApp).authStateChanges(),
      builder: (context, snapshot) {
        if (_result == ConnectivityResult.none) {
          return NoInternet();
        }
        if (snapshot.hasData && snapshot.data != null) {
          User user = snapshot.data;
          return Home(uid: user.uid, username: user.displayName,);
        }
        return LoginPage();
      });
  }
}
```

ALGORITHM/ SOURCE CODE/ IMPLEMENTATION

Home

```
• import 'package:flutter/material.dart';
import 'package:pikngrocers_vendor/constants.dart';
import 'package:pikngrocers_vendor/screen/dashboardpage.dart';
import 'package:pikngrocers_vendor/screen/orderspage.dart';
import 'package:pikngrocers_vendor/screen/productspage.dart';
import 'package:pikngrocers_vendor/screen/walletpage.dart';
import 'package:pikngrocers_vendor/service/auth.dart';

class Home extends StatefulWidget {
  final String uid;
  final String username;
  Home({this.uid, this.username});

  @override
  _HomeState createState() => _HomeState();
}

class _HomeState extends State<Home> {
  int _currentIndex = 0;
  final _pageController = PageController();

  @override
  void initState() {
    super.initState();
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        leading: Icon(
          Icons.person_pin,
          color: Colors.grey,
        ),
        title: Text(
          'Welcome ${widget.username}',
          style: TextStyle(color: Colors.grey),
        ),
        elevation: 0,
        backgroundColor: Colors.white,
        actions: [
```

ALGORITHM/ SOURCE CODE/ IMPLEMENTATION

Home

```
IconButton(  
  icon: Icon(Icons.exit_to_app),  
  onPressed: () {  
    Auth().logout();  
    Navigator.pushReplacementNamed(context, '/');  
  },  
  color: Colors.grey,  
  tooltip: 'Logout',  
)  
,  
  
],  
,  
),  
body: PageView(  
  controller: _pageController,  
  children: [  
    ProductsPage(uid: widget.uid),  
    OrdersPage(  
      userId: widget.uid,  
    ),  
    DashBoardPage(),  
    WalletPage(),  
  ],  
  physics: NeverScrollableScrollPhysics(),  
,  
,  
bottomNavigationBar: BottomNavigationBar(  
  selectedFontSize: kLabelFontSize,  
  iconSize: 15,  
  items: [  
    BottomNavigationBarItem(  
      icon: Icon(Icons.list),  
      label: 'Products',  
      backgroundColor: kProductColor,  
    ),  
    BottomNavigationBarItem(  
      icon: Icon(Icons.assignment),  
      label: 'Orders',  
    ),  
  ],  
)  
)
```

ALGORITHM/ SOURCE CODE/ IMPLEMENTATION

Home

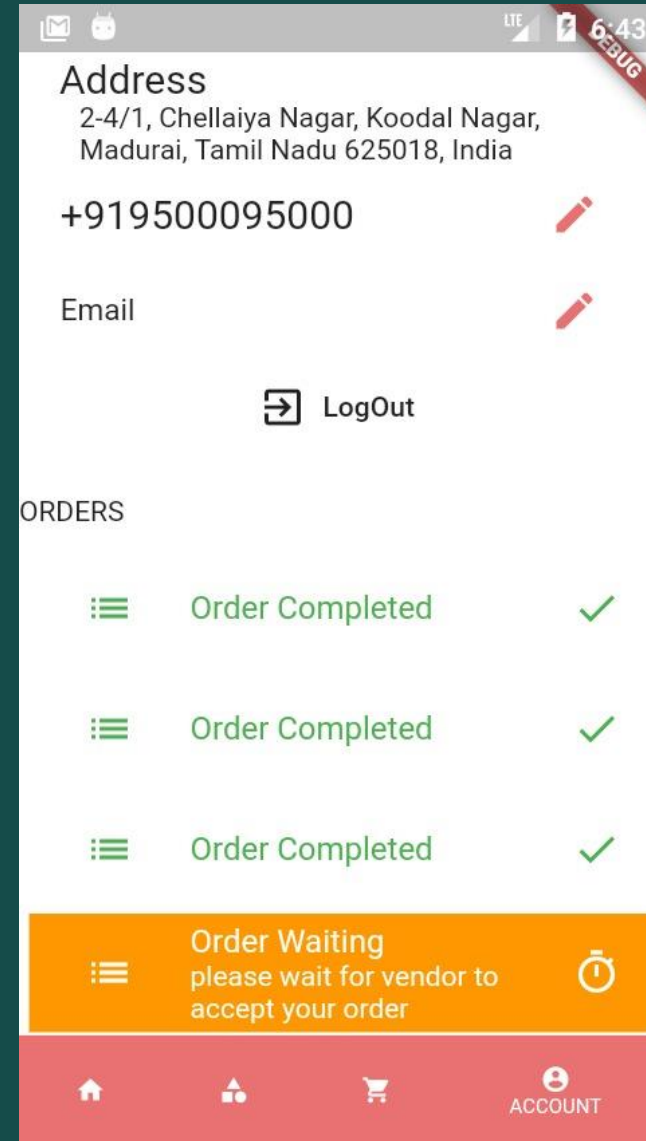
```
        backgroundColor: kOrderColor,
      ),
      BottomNavigationBarItem(
        icon: Icon(Icons.dashboard),
        label: 'Dashboard',
        backgroundColor: kDashBoardColor,
      ),
      BottomNavigationBarItem(
        icon: Icon(Icons.account_balance_wallet),
        label: 'Wallet',
        backgroundColor: kWalletColor,
      ),
    ],
    onTap: (index) {
      setState(() {
        _currentIndex = index;
      });
      _pageController.jumpToPage(index);
    },
    currentIndex: _currentIndex,
  ),
);
}
```


CLIENT SCREENSHOTS

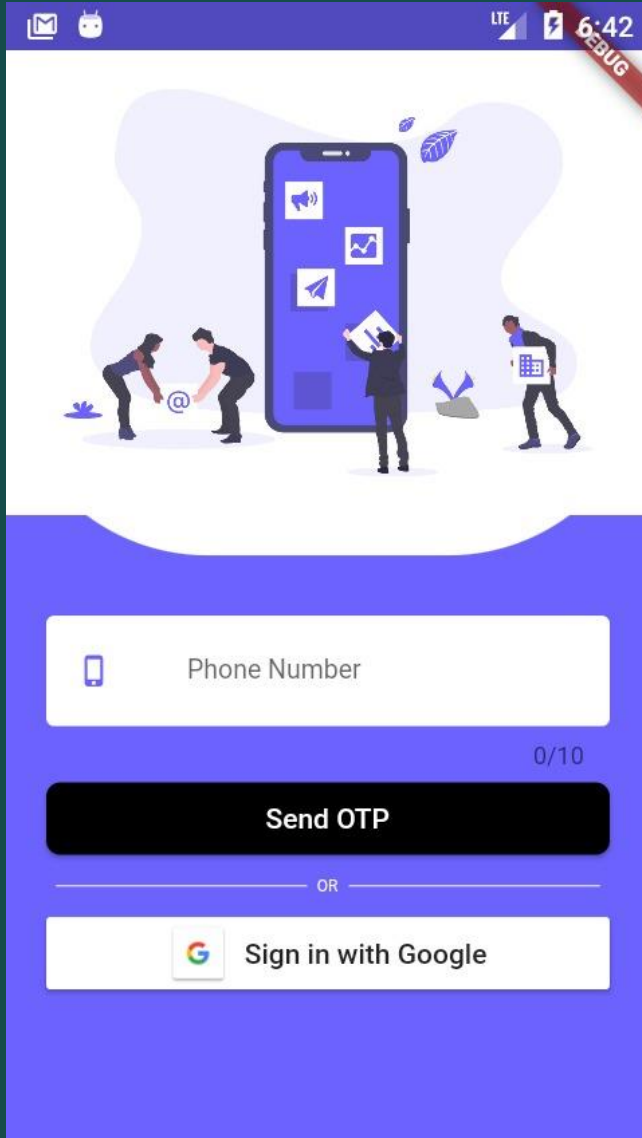
Client Splash Screen



Client Profile and Orders details Screen



Client Sign In Screen




The Client Sign In Screen features a purple header with a status bar at the top showing LTE, battery, and time 6:42. A red 'DEBUG' banner is in the top right. The main content area has a white background with a large illustration of a smartphone and three people interacting with it. Below the illustration is a white input field for 'Phone Number' with a phone icon on the left and a character count '0/10' on the right. A black 'Send OTP' button is below the input field. A horizontal line with 'OR' in the center separates the phone number input from the 'Sign in with Google' button, which includes the Google logo.

Phone Number

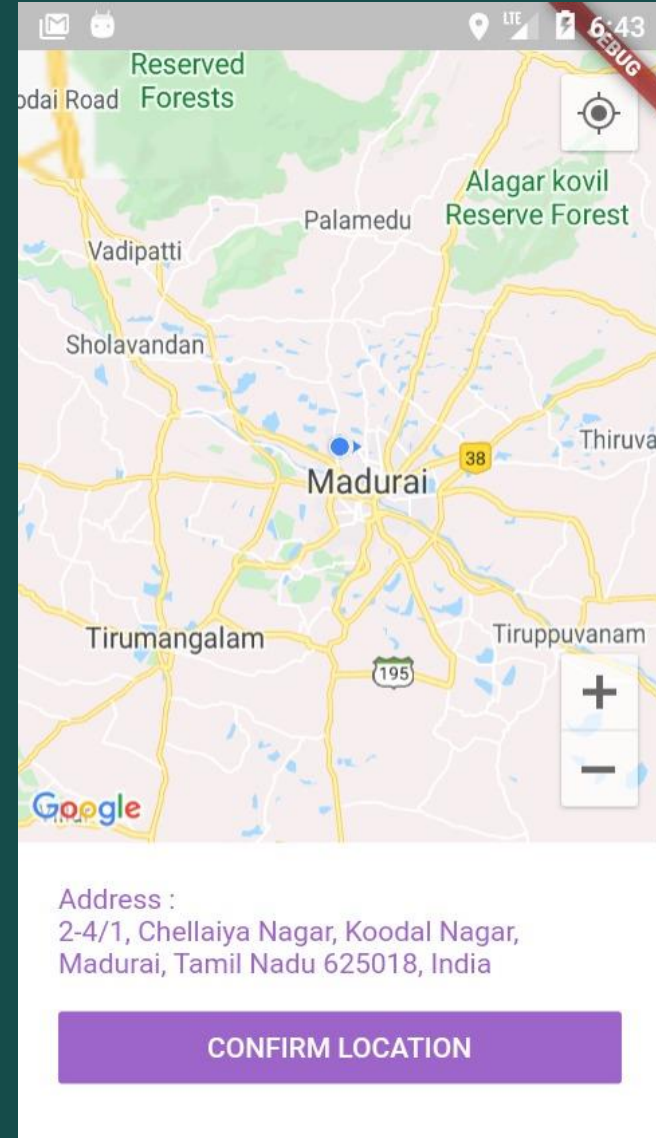
0/10

Send OTP

OR

 Sign in with Google

Client Select Location Screen



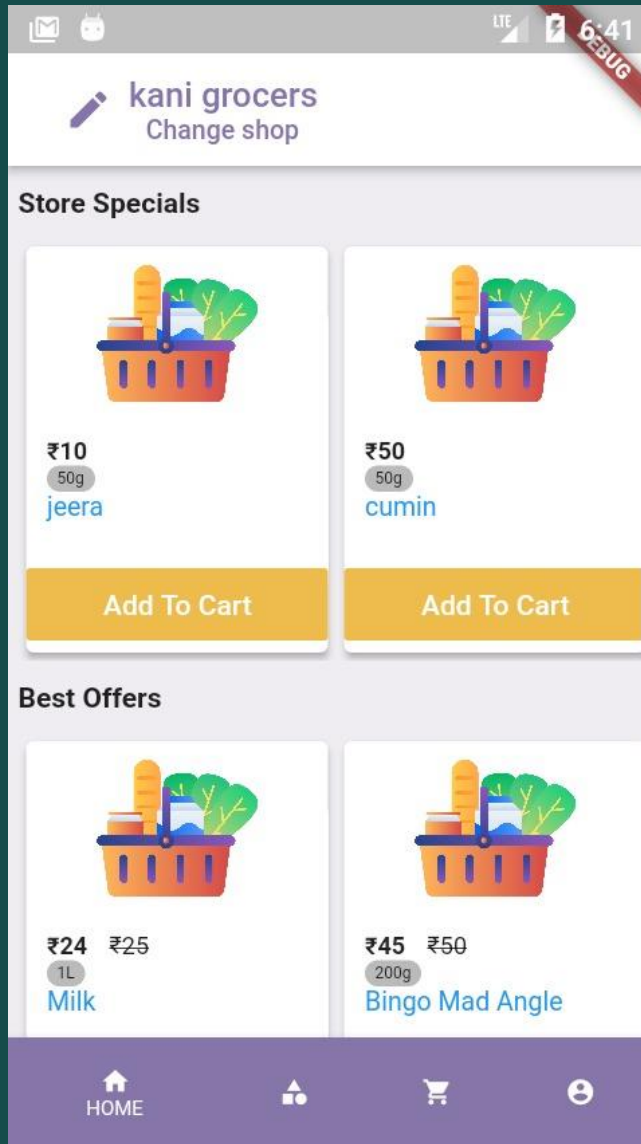
The Client Select Location Screen features a purple header with a status bar at the top showing LTE, battery, and time 6:43. A red 'DEBUG' banner is in the top right. The main content area shows a Google Map of Madurai, India, with labels for 'Reserved Forests', 'Alagar kovil Reserve Forest', 'Palamedu', 'Vadipatti', 'Sholavandan', 'Tirumangalam', 'Tiruppuvanam', and 'Thiruv'. A blue location pin is placed in the center of Madurai. Below the map is a white text box containing the address: 'Address : 2-4/1, Chellaiya Nagar, Koodal Nagar, Madurai, Tamil Nadu 625018, India'. A purple 'CONFIRM LOCATION' button is at the bottom.

Address :

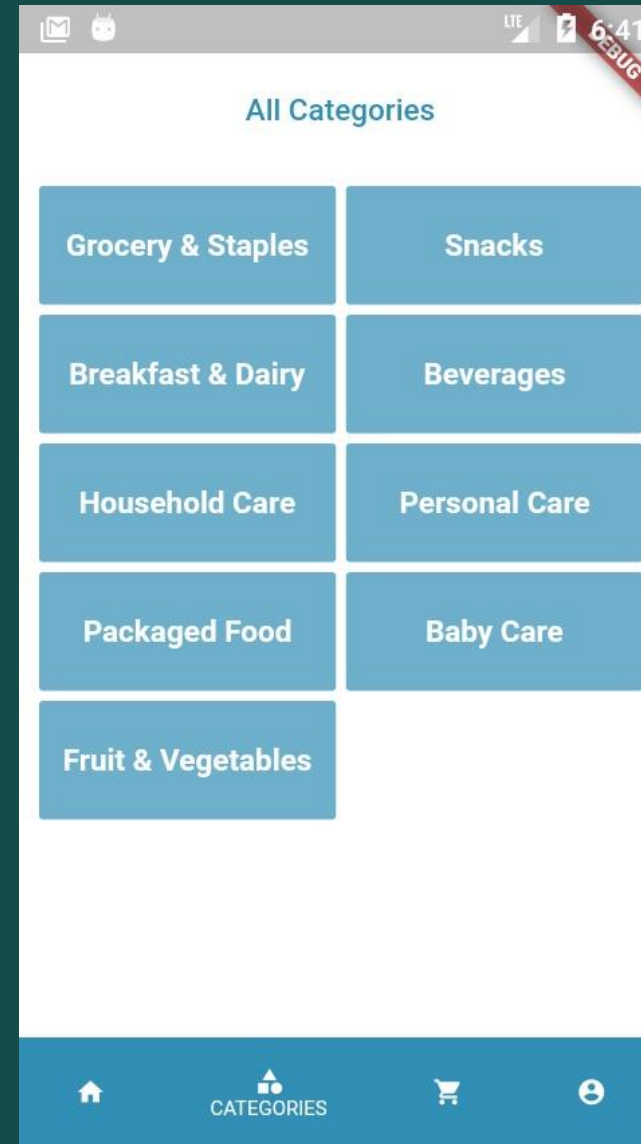
2-4/1, Chellaiya Nagar, Koodal Nagar,
Madurai, Tamil Nadu 625018, India

CONFIRM LOCATION

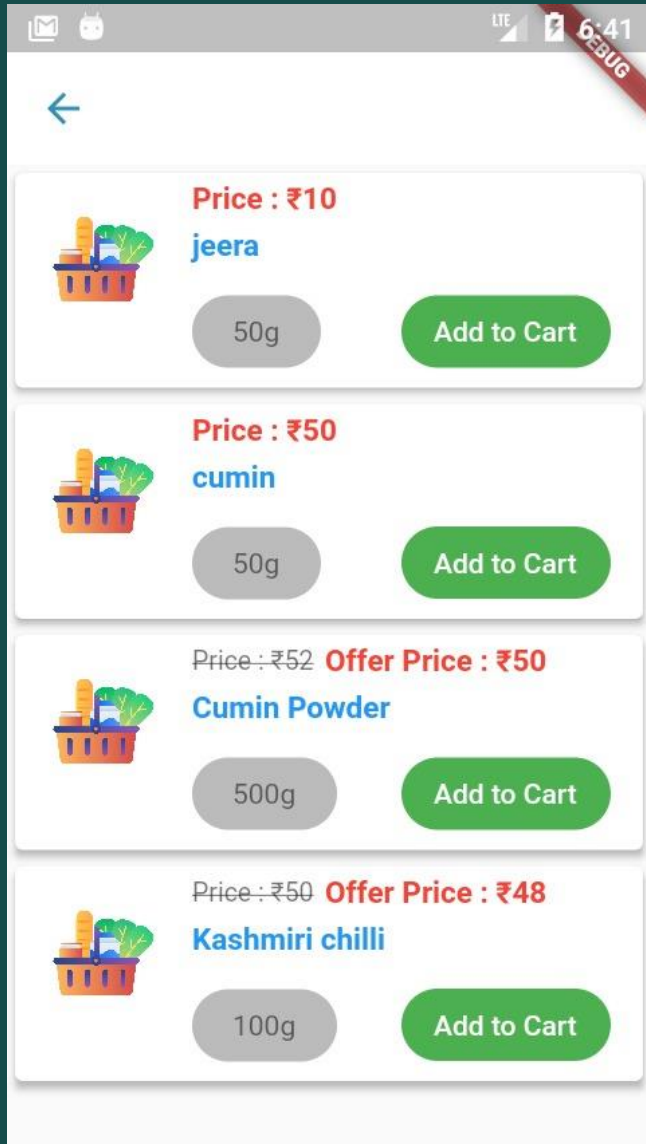
Client Home Screen



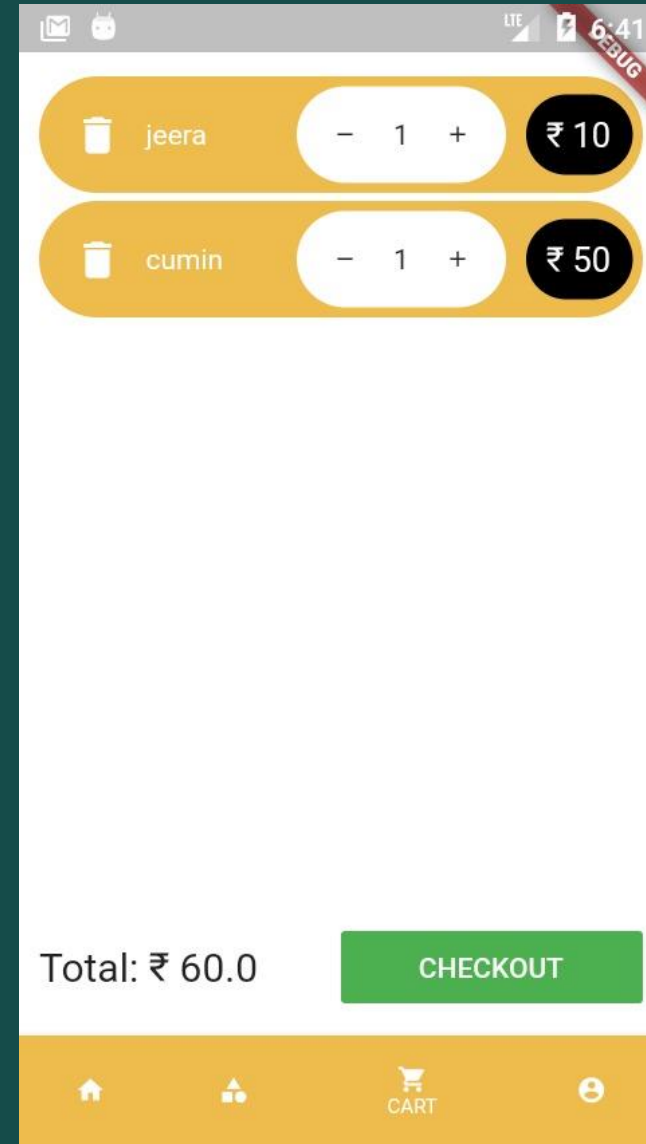
Client Category Screen



Client Category Product List Screen

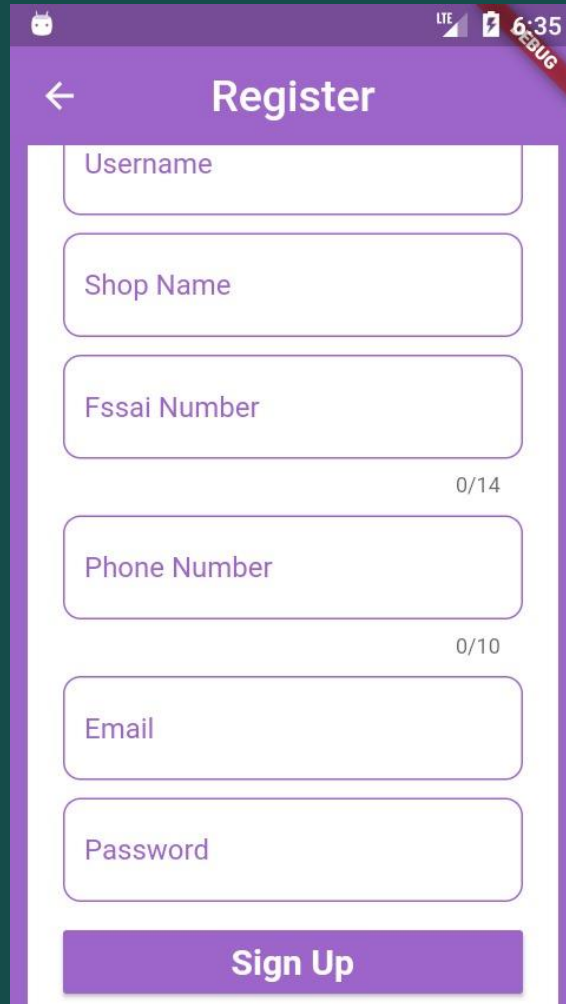


Client Cart Screen



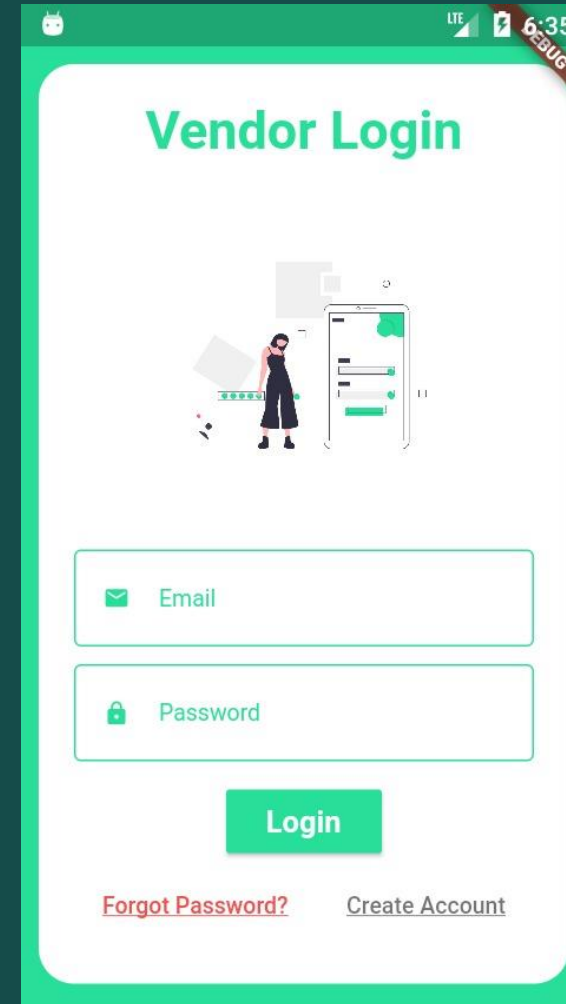
VENDOR SCREENSHOTS

Vendor Register Screen



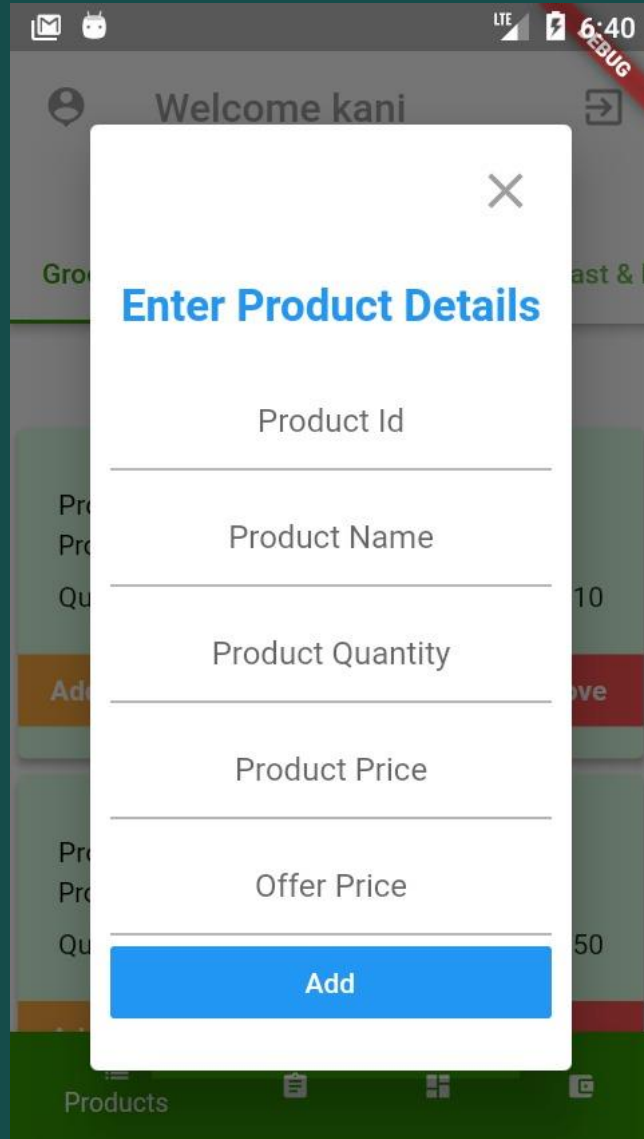
A screenshot of the Vendor Register screen. The screen has a purple header with a back arrow and the title "Register". Below the header, there are six input fields: "Username", "Shop Name", "Fssai Number" (with a character count of 0/14), "Phone Number" (with a character count of 0/10), "Email", and "Password". At the bottom, there is a purple button labeled "Sign Up". The status bar at the top shows LTE, battery, and the time 6:35.

Vendor Login Screen



A screenshot of the Vendor Login screen. The screen has a green header with the title "Vendor Login". Below the header, there is an illustration of a person standing next to a smartphone. Below the illustration, there are two input fields: "Email" (with an envelope icon) and "Password" (with a lock icon). Below these fields is a green button labeled "Login". At the bottom, there are two links: "Forgot Password?" and "Create Account". The status bar at the top shows LTE, battery, and the time 6:35.

Vendor Add Products Screen



The screenshot shows a mobile application interface for adding products. A modal dialog titled "Enter Product Details" is displayed over a background screen. The modal contains five input fields: "Product Id", "Product Name", "Product Quantity", "Product Price", and "Offer Price". A blue "Add" button is at the bottom of the modal. The background screen shows a "Welcome kani" header and a "Products" tab selected in the bottom navigation bar.

6:40
LITE
6:40
DEBUG

Welcome kani

Enter Product Details

Product Id

Product Name

Product Quantity

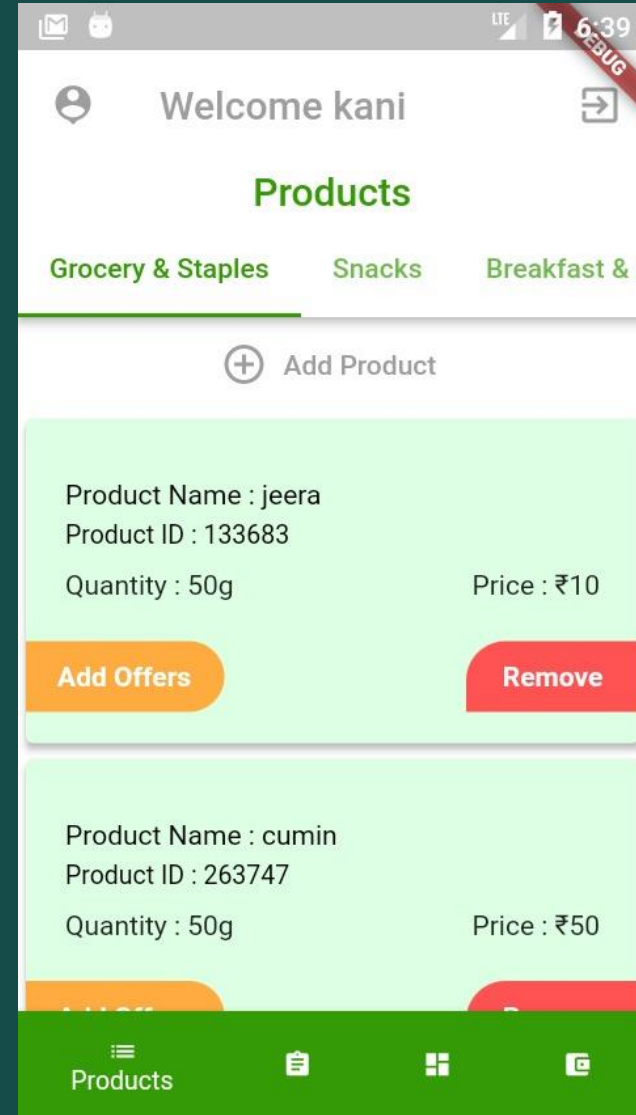
Product Price

Offer Price

Add

Products

Vendor Products List Screen



The screenshot shows a mobile application interface for listing products. The screen displays a "Welcome kani" header and a "Products" tab selected in the bottom navigation bar. Below the header, there are three tabs: "Grocery & Staples", "Snacks", and "Breakfast & D". A "+ Add Product" button is visible. The list of products is shown in a light green card format. Each card displays the product name, ID, quantity, and price, along with "Add Offers" and "Remove" buttons.

6:39
LITE
6:39
DEBUG

Welcome kani

Products

Grocery & Staples Snacks Breakfast & D

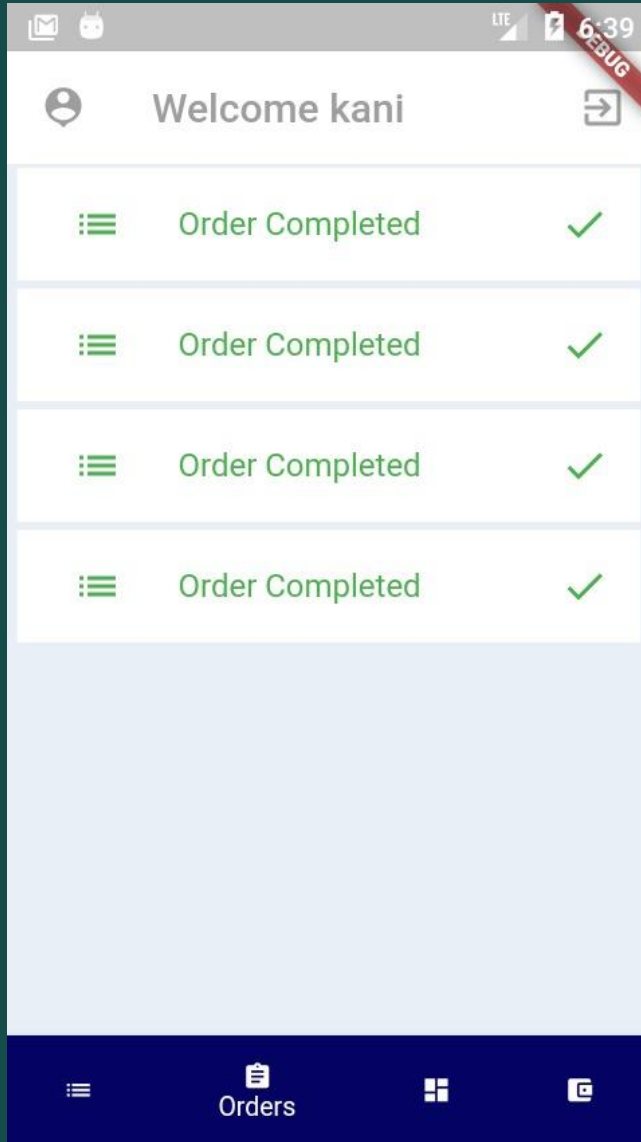
+ Add Product

Product Name : jeera
Product ID : 133683
Quantity : 50g Price : ₹10
Add Offers Remove

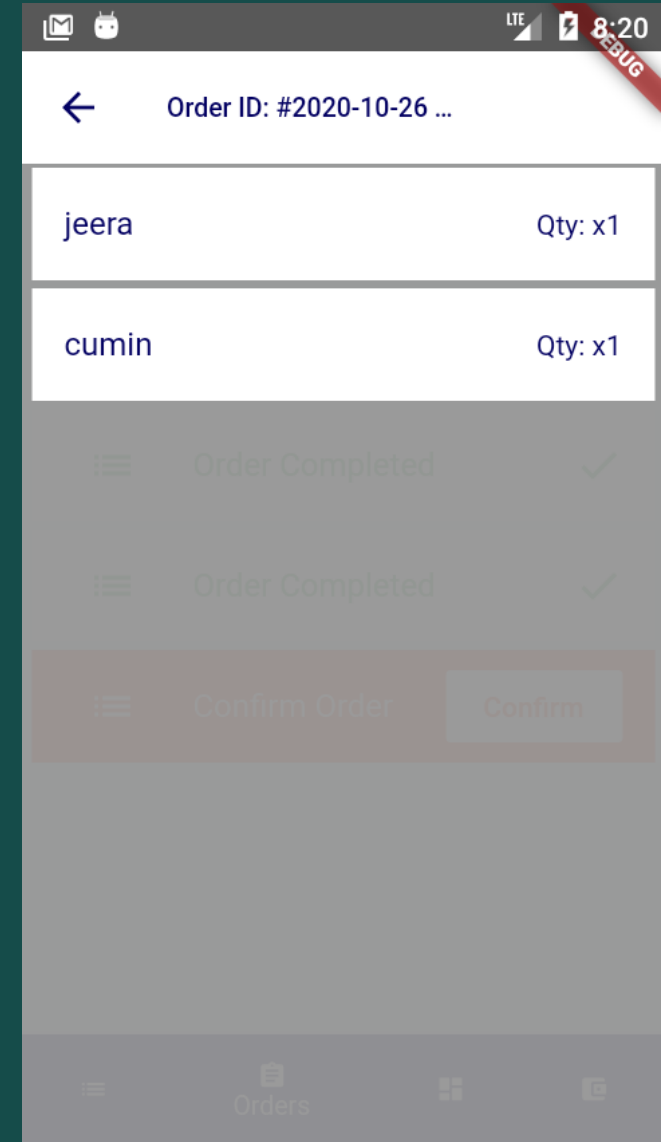
Product Name : cumin
Product ID : 263747
Quantity : 50g Price : ₹50
Add Offers Remove

Products

Vendor Orders Screen



Vendor Orders List Screen



RESULT AND CONCLUSION

This project will help out drowning business of the nearby small scale stores by exposing them to more audiences and also improves the number of items added on the cart by making appropriate suggestions thus helping both vendor and the consumer. Shopping list can be prepared earlier and the payment can be done through the online mode thus reducing the time waiting for the consumer to choose and decide items on the spot and unnecessary contact on the money exchange.

Once the package is ready the consumer will be notified and able to pick without any hassles. Mainly, at this COVID outspread situation this will reduce the crowding and Contact between the peoples. Now Nearby grocery shopping is also made easier And at your convenient. Happy Shopping!

Thank you