# <u>Internet Of Things – Group1</u>

## **Smart parking**

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#### Phase 4 – DEVELOPMENT PART 2

### **Design of the User Interface:**

```
Import 'package:flutter/material.dart';
Void main() {
 runApp(MyApp());
}
Class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  Return MaterialApp(
   Home: Scaffold(
    appBar: AppBar(
     title: Text('Parking Availability'),
    ),
    Body: ParkingAvailabilityWidget(),
   ),
  );
Class ParkingAvailabilityWidget extends StatelessWidget {
 @override
```

```
Widget build(BuildContext context) {
  // You can display real-time parking availability data here
  // fetched from your Raspberry Pi.
  Return Center(
   Child: Text('Available Parking Spaces: 10'),
  );
Fetch Real-Time Data from Raspberry Pi:
Import 'package:http/http.dart' as http;
Future < String > fetchParkingAvailability() async {
 Final response = await http.get(Uri.parse('http://your raspberry pi url/data'));
 If (response.statusCode == 200) {
  Return response.body;
 } else {
  Throw Exception('Failed to load parking availability data');
 }
Display Real-Time Data:
Class ParkingAvailabilityWidget extends StatefulWidget {
 @override
 _ParkingAvailabilityWidgetState createState() =>
_ParkingAvailabilityWidgetState();
}
```

```
Class _ParkingAvailabilityWidgetState extends State<ParkingAvailabilityWidget>
 String availability = 'Loading...';
 @override
 Void initState() {
  Super.initState();
  fetchData();
 }
 Void fetchData() async {
  Final data = await fetchParkingAvailability();
  setState(() {
   availability = data;
  });
 @override
 Widget build(BuildContext context) {
  Return Center(
   Child: Text('Available Parking Spaces: $availability'),
  );
```