

PHASE4.SMART PARKING

Import 'package:flutter/material.dart';

Import 'package:http/http.dart' as http;

Import 'dart:convert';

Void main() => runApp(MyApp());

Class MyApp extends StatelessWidget {

@override

Widget build(BuildContext context) {

Return MaterialApp(

Title: 'Parking Availability',

Theme: ThemeData(

primarySwatch: Colors.blue,

),

Home: MyHomePage(title: 'Parking Availability'),

);

}

}

Class MyHomePage extends StatefulWidget {

MyHomePage({Key key, this.title}) : super(key: key);

Final String title;

@override

\_MyHomePageState createState() => \_MyHomePageState();

}

```

Class _MyHomePageState extends State<MyHomePage> {

  String _parkingAvailability = 'Loading...';

  Future<void> _getParkingAvailability() async {

    Final response = await http.get('http://<raspberrypi_ip_address>/parking_availability');
    Final data = json.decode(response.body);

    setState(() {
      _parkingAvailability = data['availability'];
    });
  }

  @override
  Widget build(BuildContext context) {

    Return Scaffold(
      appBar: AppBar(
        title: Text(widget.title),
      ),
      Body: Center(
        Child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Text(
              'Parking Availability:',
            ),
            Text(
              '$_parkingAvailability',
              Style: Theme.of(context).textTheme.headline4,
            ),
          ],
        ),
      ),
    ),
  ],
)

```

```
    ),  
    ),  
    floatingActionButton: FloatingActionButton(  
      onPressed: _getParkingAvailability,  
      tooltip: 'Refresh',  
      child: Icon(Icons.refresh),  
    ),  
  );  
}  
}
```