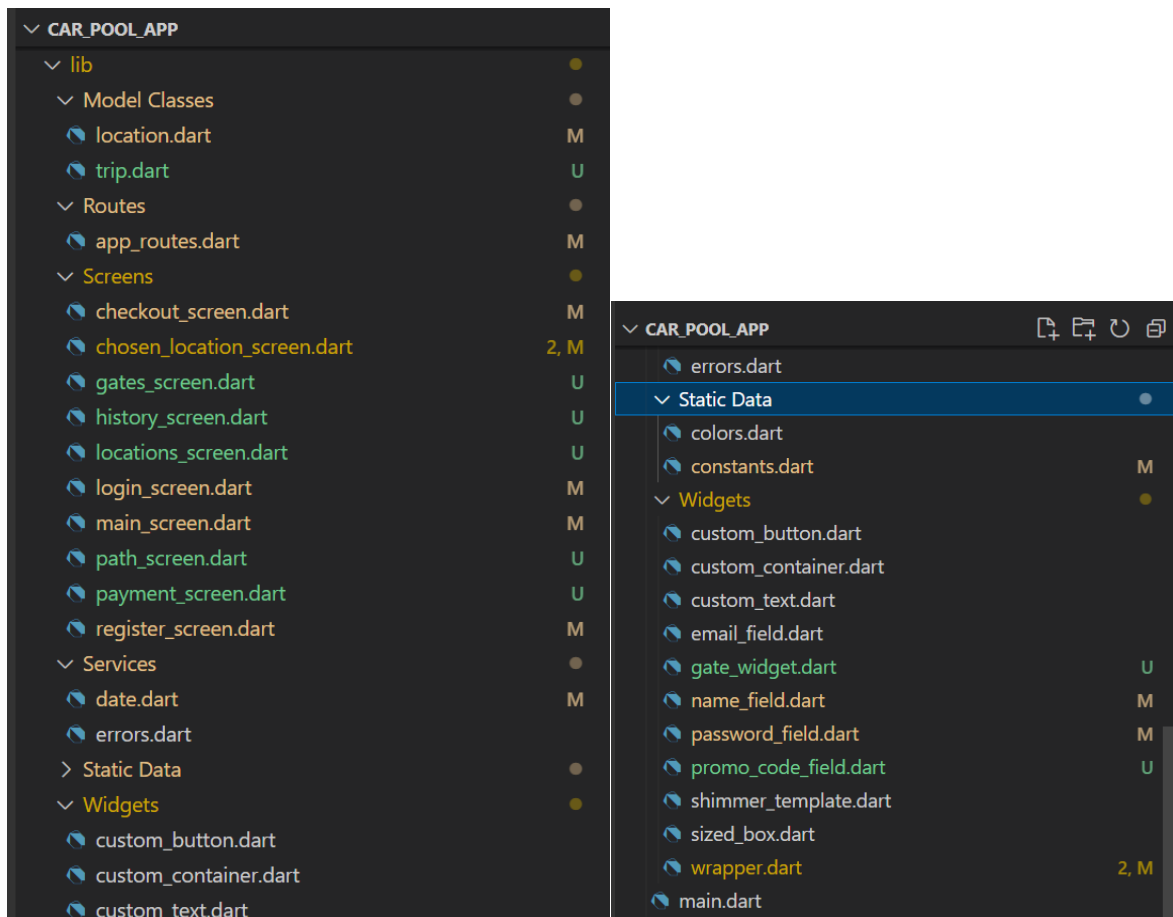


CSE 431 – Milestone #1

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ID: 19P5861

Folder Structure:



“register.dart” Code:

```
import 'package:flutter/material.dart';

import 'package:car_pool_app/Widgets/email_field.dart';
import 'package:car_pool_app/Widgets/password_field.dart';
```

```
import 'package:car_pool_app/Widgets/sized_box.dart';
import 'package:car_pool_app/Widgets/custom_button.dart';
import 'package:car_pool_app/Widgets/name_field.dart';
import 'package:car_pool_app/Screens/path_screen.dart';

class RegisterScreen extends StatefulWidget {
  const RegisterScreen({super.key});

  static const routeName = '/register';

  @override
  State<RegisterScreen> createState() => _RegisterScreenState();
}

class _RegisterScreenState extends State<RegisterScreen> {

  final _registerFormKey = GlobalKey<FormState>();

  final _nameController = TextEditingController();

  final _emailController = TextEditingController();

  final _passController = TextEditingController();

  late FocusNode _nameNode;

  late FocusNode _emailNode;

  late FocusNode _passNode;

  @override
  void initState() {

    _nameNode = FocusNode();
    _emailNode = FocusNode();
    _passNode = FocusNode();

    _nameNode.requestFocus();

    super.initState();
  }

  @override
  void dispose() {
    _nameNode.dispose();
  }
}
```

```

_emailNode.dispose();
_passNode.dispose();

super.dispose();
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: const Text('Register Screen'),
      centerTitle: true,
    ),

    body: Form(
      key: _registerFormKey,
      child: Padding(
        padding: const EdgeInsets.all(10.0),
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            NameField(
              controller: _nameController,
              focusNode: _nameNode,
            ),

            const SizedBox(
              height: 20,
            ),

            EmailField(
              controller: _emailController,
              focusNode: _emailNode,
            ),

            const SizedBox(
              height: 20,
            ),

            PasswordField(
              controller: _passController,
              focusNode: _passNode,
            ),

            const SizedBox(

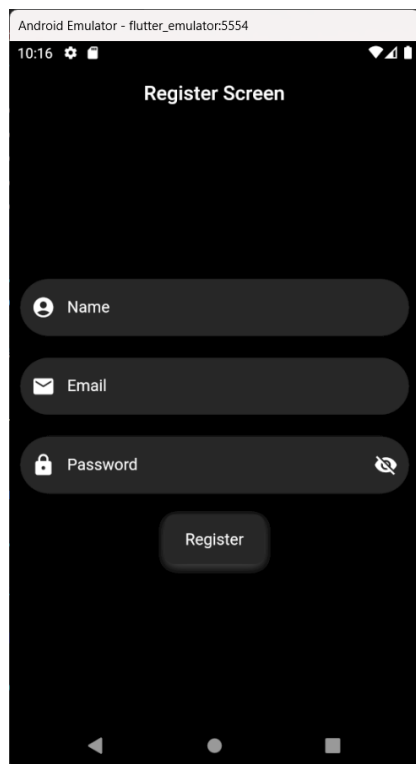
```

```

        height: 20,
      ),

      CustomButton(
        onTap: () {
          // if(_registerFormKey.currentState!.validate()) {}
          Navigator.pushNamed(context, PathScreen.routeName);
        },
        width: 100,
        height: 50,
        child: const Text('Register'),
      ),
    ],
  ),
),
),
);
}
}

```



“login.dart” Code:

```
import 'package:flutter/material.dart';

import 'package:car_pool_app/Widgets/email_field.dart';
import 'package:car_pool_app/Widgets/password_field.dart';
import 'package:car_pool_app/Widgets/sized_box.dart';
import 'package:car_pool_app/Widgets/custom_button.dart';
import 'package:car_pool_app/Screens/path_screen.dart';

class LoginScreen extends StatefulWidget {
  const LoginScreen({super.key});

  static const routeName = '/login';

  @override
  State<LoginScreen> createState() => _LoginScreenState();
}

class _LoginScreenState extends State<LoginScreen> {

  final _loginFormKey = GlobalKey<FormState>();

  final _emailController = TextEditingController();

  final _passController = TextEditingController();

  late FocusNode _emailNode;

  late FocusNode _passNode;

  @override
  void initState() {

    _emailNode = FocusNode();
    _passNode = FocusNode();

    _emailNode.requestFocus();

    super.initState();
  }

  @override
  void dispose() {
    _emailNode.dispose();
  }
}
```

```

    _passNode.dispose();

    super.dispose();
}

@override
Widget build(BuildContext context) {
    return Scaffold(
        appBar: AppBar(
            title: const Text('Login Screen'),
            centerTitle: true,
        ),

        body: Form(
            key: _loginFormKey,
            child: Padding(
                padding: const EdgeInsets.all(10.0),
                child: Column(
                    mainAxisAlignment: MainAxisAlignment.center,
                    children: [
                        EmailField(
                            controller: _emailController,
                            focusNode: _emailNode,
                        ),

                        const SizedBox(
                            height: 20,
                        ),

                        PasswordField(
                            controller: _passController,
                            focusNode: _passNode,
                        ),

                        const SizedBox(
                            height: 20,
                        ),

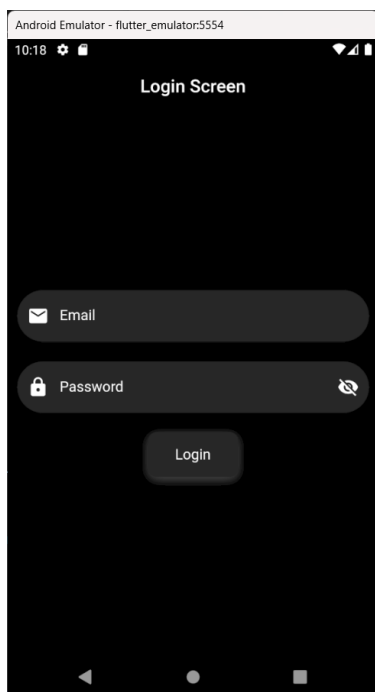
                        CustomButton(
                            onTap: () {
                                // if(_loginFormKey.currentState!.validate()) {}
                                Navigator.pushNamed(context, PathScreen.routeName);
                            },
                            width: 100,
                            height: 50,
                        ),
                    ],
                ),
            ),
        ),
    );
}

```

```

        child: const Text('Login'),
      ),
    ],
  ),
),
),
);
}
}

```



“path_screen.dart” Code:

```

import 'package:flutter/material.dart';

import 'package:car_pool_app/Screens/gates_screen.dart';
import 'package:car_pool_app/Screens/main_screen.dart';
import 'package:car_pool_app/Widgets/custom_button.dart';
import 'package:car_pool_app/Widgets/custom_text.dart';
import 'package:car_pool_app/Widgets/sized_box.dart';

class PathScreen extends StatelessWidget {
  const PathScreen({super.key});

```

```

static const routeName = '/path';

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: const Text('Choose A Path'),
      centerTitle: true,
    ),
    body: Padding(
      padding: const EdgeInsets.all(20),
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          CustomButton(
            shadow: false,
            onTap: () {
              Navigator.pushNamed(context, MainScreen.routeName);
            },
            child: const Padding(
              padding: EdgeInsets.all(10),
              child: Column(
                children: [
                  CustomText(
                    text: 'From: Any Location',
                    size: 20,
                  ),
                  const SizedBox(
                    height: 30,
                  ),
                  CustomText(
                    text: 'To: Ain Shams',
                    size: 20,
                  ),
                ],
              ),
            ),
          ),
          const SizedBox(
            height: 50,
          ),
        ],
      ),
    ),
  );
}

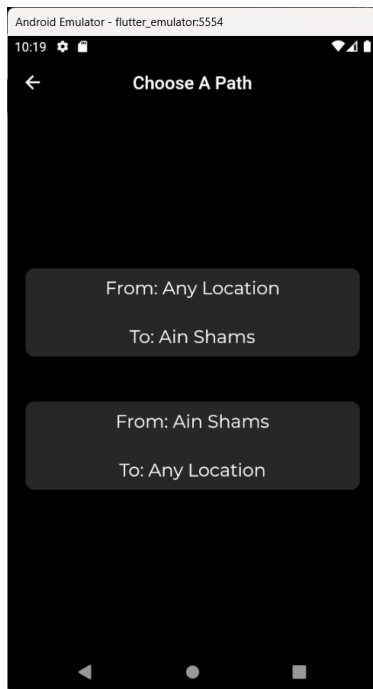
```



```
CustomButton(
  shadow: false,
  onTap: () {
    Navigator.pushNamed(context, GatesScreen.routeName);
  },
  child: const Padding(
    padding: EdgeInsets.all(10),
    child: Column(
      children: [
        CustomText(
          text: 'From: Ain Shams',
          size: 20,
        ),

        SizedBox(
          height: 30,
        ),

        CustomText(
          text: 'To: Any Location',
          size: 20,
        ),
      ],
    ),
  ),
),
],
),
),
),
],
),
),
);
}
```



“gates screen.dart” Code:

```
import 'package:flutter/material.dart';

import 'package:car_pool_app/Widgets/gate_widget.dart';

class GatesScreen extends StatelessWidget {
  const GatesScreen({super.key});

  static const routeName = '/gate';

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('Choose A Gate'),
        centerTitle: true,
      ),
      body: const Padding(
        padding: EdgeInsets.all(20),
        child: GateWidget(),
      ),
    );
  }
}
```

```
}
```

“gate_widget.dart” Code:

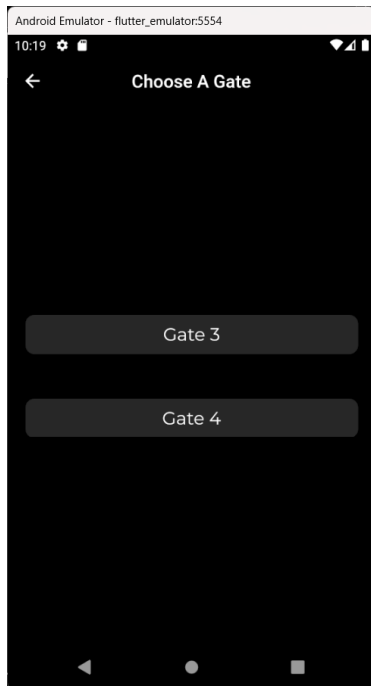
```
import 'package:flutter/material.dart';

import 'package:car_pool_app/Static%20Data/constants.dart';
import 'package:car_pool_app/Widgets/custom_button.dart';
import 'package:car_pool_app/Widgets/custom_text.dart';
import 'package:car_pool_app/Widgets/sized_box.dart';
import 'package:car_pool_app/Screens/main_screen.dart';

class GateWidget extends StatelessWidget {
  const GateWidget({super.key});

  @override
  Widget build(BuildContext context) {
    return Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
        SizedBox(
          height: MediaQuery.of(context).size.height * 0.2,
          child: ListView.separated(
            physics: const NeverScrollableScrollPhysics(),
            itemCount: gates.length,
            separatorBuilder: (context, index) => const HSizeBox(
              height: 50,
            ),
            itemBuilder: (context, index) {
              return CustomButton(
                shadow: false,
                onTap: () {
                  Navigator.pushNamed(context, MainScreen.routeName);
                },
                child: Padding(
                  padding: const EdgeInsets.all(10),
                  child: CustomText(
                    text: gates[index],
                    size: 20,
                  ),
                ),
              ),
            ),
          ),
        ),
      ],
    );
  }
}
```

```
    ),  
  ],  
);  
}  
}
```



“main screen.dart” Code:

```
import 'package:flutter/material.dart';  
  
import 'package:car_pool_app/Screens/locations_screen.dart';  
import 'package:car_pool_app/Screens/history_screen.dart';  
  
class MainScreen extends StatefulWidget {  
  const MainScreen({super.key});  
  
  static const routeName = '/main';  
  
  @override  
  State<MainScreen> createState() => _MainScreenState();  
}  
  
class _MainScreenState extends State<MainScreen> {
```

```

late int _selectedNavIndex;

Widget screenSelector() {
  final List<Widget> screens = [const LocationsScreen(), const
HistoryScreen()];
  return screens[_selectedNavIndex];
}

@override
void initState() {
  _selectedNavIndex = 0;
  super.initState();
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    bottomNavigationBar: BottomNavigationBar(
      currentIndex: _selectedNavIndex,
      type: BottomNavigationBarType.fixed,
      backgroundColor: Colors.black,
      unselectedItemColor: Colors.white,
      selectedItemColor: const Color(0xFF1CD416),
      items: const [
        BottomNavigationBarItem(
          icon: Icon(Icons.home),
          label: 'Home',
        ),

        BottomNavigationBarItem(
          icon: Icon(Icons.history),
          label: 'History',
        ),

        BottomNavigationBarItem(
          icon: Icon(Icons.person),
          label: 'Profile',
        ),
      ],
      onTap: (int index) {
        setState(() {
          _selectedNavIndex = index;
        });
      },
    ),
  );
}

```

```

    ),

    body: screenSelector(),
  );
}
}

```

"locations Screen.dart" Code:

```

import 'package:flutter/material.dart';

import 'package:car_pool_app/Widgets/custom_button.dart';
import 'package:car_pool_app/Widgets/custom_text.dart';
import 'package:car_pool_app/Widgets/sized_box.dart';
import 'package:car_pool_app/Model%20Classes/location.dart';
import 'package:car_pool_app/Screens/chosen_location_screen.dart';

class LocationsScreen extends StatefulWidget {
  const LocationsScreen({ super.key });

  static const routeName = '/location';

  @override
  State<LocationsScreen> createState() => _LocationsScreenState();
}

class _LocationsScreenState extends State<LocationsScreen> {

  Future<List>? schoolsFuture;

  final List<String> sort = ['Alphabetically [A-Z]', 'Alphabetically [Z-A]',
'Lowest to Highest Price', 'Highest to Lowest Price'];

  late String currentSort;

  late List<Location> locationsList;

  void showSortList() {
    showModalBottomSheet(
      context: context,
      shape: const RoundedRectangleBorder(
        borderRadius: BorderRadius.vertical(
          top: Radius.circular(20),
        ),
      ),
    ),
  },
}

```

```

    ),
    builder: (context) {
      return StatefulWidget(
        builder: (context, StateSetter setSheetState) {
          return SizedBox(
            height: 230,
            child: ListView.builder(
              itemCount: sort.length,
              itemBuilder: (context, index) {
                return ListTile(
                  title: Text(sort[index]),
                  onTap: () {
                    setSheetState(() {
                      setState(() {
                        currentSort = sort[index];
                      });
                    });
                  },
                  leading: Radio(
                    value: sort[index],
                    groupValue: currentSort,
                    onChanged: (value) {
                      setSheetState(() {
                        setState(() {
                          currentSort = value!;
                        });
                      });
                    },
                  ),
                ),
              ),
            ),
          );
        },
      );
    },
  ),
);
}

void sorting() {
  if(currentSort == 'Lowest to Highest Price') {
    locationsList.sort(
      (Location l1, Location l2) {
        return l1.price.compareTo(l2.price);
      }
    );
  }
}

```

```

    );
}

else if(currentSort == 'Highest to Lowest Price') {
    locationsList.sort(
        (Location l1, Location l2) {
            return l2.price.compareTo(l1.price);
        }
    );
}

else if(currentSort == 'Alphabetically [A-Z]') {
    locationsList.sort(
        (Location l1, Location l2) {
            return l1.name.toLowerCase().compareTo(l2.name.toLowerCase());
        }
    );
}

else if(currentSort == 'Alphabetically [Z-A]') {
    locationsList.sort(
        (Location l1, Location l2) {
            return l2.name.toLowerCase().compareTo(l1.name.toLowerCase());
        }
    );
}
}

@override
void initState() {
    currentSort = sort[0];

    locationsList = Location.getLocations();

    super.initState();
}

@override
Widget build(BuildContext context) {
    return Scaffold(
        appBar: AppBar(
            title: const Text('Home'),
            centerTitle: true,
            actions: [
                IconButton(

```



```

        icon: const Icon(Icons.search),
        onPressed: () async {

            // final searchResult = await showSearch(
            //   context: context,
            //   delegate: Search(locationsList: locationsList,),
            // );

            // if(searchResult != null) {
            //   Navigator.pushNamed(context, ChosenLocationScreen.routeName,
arguments: searchResult);
            // }
        },
      ),
    ],
    bottom: PreferredSize(
      preferredSize: const Size.fromHeight(45),
      child: Row(
        children: [
          Container(
            height: 45,
            width: MediaQuery.of(context).size.width / 2,
            decoration: const BoxDecoration(
              border: Border(
                top: BorderSide(
                  width: 0.5,
                  color: Color(0xFF707070),
                ),
                right: BorderSide(
                  width: 0.5,
                  color: Color(0xFF707070),
                ),
              ),
            ),
          ),
          child: InkWell(
            onTap: showSortList,
            child: const Row(
              mainAxisAlignment: MainAxisAlignment.center,
              children: [
                Icon(
                  Icons.sort,
                  color: Colors.white,
                ),
                WSizeBox(
                  width: 5,

```

```

    ),
    CustomText(
      text: 'Sort',
      size: 16,
    ),
  ],
),
),
),
),

Container(
  height: 45,
  width: MediaQuery.of(context).size.width / 2,
  decoration: const BoxDecoration(
    border: Border(
      top: BorderSide(
        width: 0.5,
        color: Color(0xFF707070),
      ),
      left: BorderSide(
        width: 0.5,
        color: Color(0xFF707070),
      ),
    ),
  ),
  child: const Row(
    mainAxisAlignment: MainAxisAlignment.center,
    children: [
      Icon(
        Icons.filter_list,
        color: Colors.white,
      ),
      SizedBox(
        width: 5,
      ),
      CustomText(
        text: 'Filters',
        size: 16,
      ),
    ],
  ),
),
],
),
),
),

```

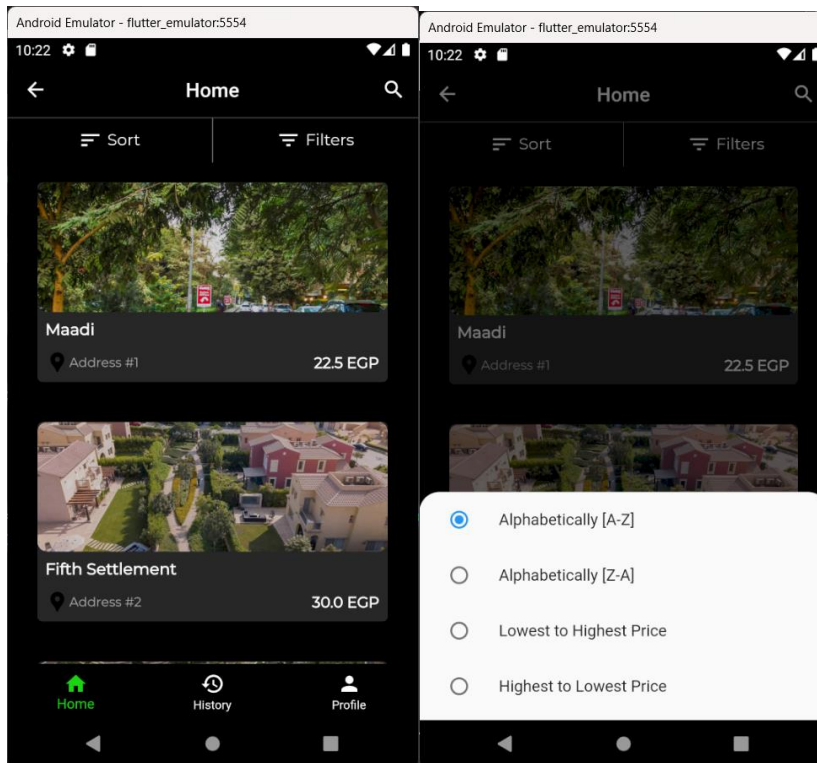
```

    ),

    body: ListView.builder(
      itemCount: locationsList.length,
      itemBuilder: (context, index) {
        return Padding(
          padding: const EdgeInsets.symmetric(horizontal: 30, vertical: 20,),
          child: CustomButton(
            shadow: false,
            borderRadius: 5,
            onTap: () {
              final locationData = locationsList[index];
              Navigator.pushNamed(context,
ChosenLocationScreen.routeName,arguments: locationData);
            },
            child: Column(
              children: [
                Container(
                  width: MediaQuery.of(context).size.width,
                  height: 130,
                  decoration: BoxDecoration(
                    borderRadius: BorderRadius.circular(10),
                    image: DecorationImage(
                      image: AssetImage(
                        'assets/images/${locationsList[index].name}.jpg'
                      ),
                      opacity: .8,
                      fit: BoxFit.fitWidth,
                    ),
                  ),
                ),
              ],
            ),
            Padding(
              padding: const EdgeInsets.all(8.0),
              child: Column(
                crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                  CustomText(
                    text: locationsList[index].name,
                    size: 16,
                    fontWeight: FontWeight.bold,
                  ),
                  const HSizeBox(
                    height: 10,
                  ),
                ],
              ),
            ),
          ),
        ),
      ),
    ),
  ),
)

```

```
Row(
  mainAxisAlignment: MainAxisAlignment.spaceBetween,
  children: [
    Row(
      children: [
        const Icon(Icons.location_pin),
        CustomText(
          text: locationsList[index].address,
          size: 13,
          textColor: Colors.white60,
        ),
      ],
    ),
    CustomText(
      text: '${locationsList[index].price} EGP',
      fontWeight: FontWeight.bold,
    ),
  ],
),
],
),
),
),
),
),
),
);
},
),
);
}
```



“history.dart” Code:

```
import 'package:car_pool_app/Model%20Classes/location.dart';
import 'package:car_pool_app/Widgets/custom_container.dart';
import 'package:flutter/material.dart';

import 'package:car_pool_app/Widgets/custom_text.dart';
import 'package:car_pool_app/Widgets/custom_button.dart';
import 'package:car_pool_app/Widgets/sized_box.dart';

import 'package:google_fonts/google_fonts.dart';
import 'package:flutter_spinkit/flutter_spinkit.dart';

class HistoryScreen extends StatefulWidget {
  const HistoryScreen({ super.key });

  static const routeName = '/history';

  @override
  State<HistoryScreen> createState() => _HistoryScreenState();
}
```

```

class _HistoryScreenState extends State<HistoryScreen> {

  Future? historyFuture = Future.delayed(const Duration(milliseconds: 500), () =>
Location.getLocations()[0],);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('History Screen'),
        centerTitle: true,
      ),
      body: Padding(
        padding: const EdgeInsets.only(
          top: 25,
        ),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            Padding(
              padding: const EdgeInsets.only(left: 15.0),
              child: CustomText(
                text: 'Active Bookings',
                size: 16,
                fontWeight: FontWeight.bold,
                fontFamily: GoogleFonts.poppins().fontFamily,
              ),
            ),

            const HSizeBox(
              height: 15,
            ),

            Padding(
              padding: const EdgeInsets.symmetric(horizontal: 15.0),
              child: FutureBuilder(
                initialData: null,
                future: historyFuture,
                builder: (context, snapshot) {
                  switch(snapshot.connectionState){
                    case ConnectionState.none:
                      return Text('Error Loading the Data');

                    case ConnectionState.waiting:

                    case ConnectionState.active:

```

```

        return const SpinKitRing(
          color: Colors.red,
          size: 50,
        );

    case ConnectionState.done:
      if(snapshot.hasError) {
        return Text(snapshot.error.toString());
      }

      else if(snapshot.hasData){
        Location? activeBooking;

        activeBooking = snapshot.data;

        if(activeBooking == null) {
          return Center(
            child: CustomText(
              text: "No Active Bookings",
              size: 18,
            ),
          );
        }

        else{
          return CustomButton(
            hPadding: 10,
            vPadding: 10,
            onTap: () {},
            child: Stack(
              children: [
                Column(
                  children: [
                    Row(
                      children: [
                        Image.asset(
                          'assets/images/${activeBooking.name}.jpg',
                          width: 65,
                          height: 65,
                          fit: BoxFit.fill,
                        ),

                        const WSizeBox(
                          width: 10,

```

```

    ),

    Column(
      crossAxisAlignment:
CrossAxisAlignment.start,

      children: [
        CustomText(
          text: activeBooking.name,
          size: 16,
          fontWeight: FontWeight.bold,
        ),

        const HSizeBox(
          height: 5,
        ),

        CustomText(
          text: '${activeBooking.price}',
          fontWeight: FontWeight.w600,
          fontFamily:
GoogleFonts.poppins().fontFamily,

          textColor: Colors.white30,
        ),

        const HSizeBox(
          height: 5,
        ),

        CustomText(
          text: activeBooking.address,
          fontWeight: FontWeight.w600,
          fontFamily:
GoogleFonts.poppins().fontFamily,

          textColor: Colors.white30,
        ),
      ],
    ),

    const HSizeBox(
      height: 10,
    ),

    Row(

```



```

MainAxisAlignment.spaceBetween,
CrossAxisAlignment.start,

cancellation!',

mainAxisAlignment:
children: [
  Column(
    crossAxisAlignment:
children: [
  Row(
    children: [
      const CustomText(
        text: 'reservationDate',
        fontWeight: FontWeight.bold,
      ),

      const WSizeBox(
        width: 20,
      ),

      const CustomText(
        text: 'Time',
        fontWeight: FontWeight.bold,
      ),
    ],
  ),

  const HSizeBox(
    height: 10,
  ),

  const CustomText(
    text: 'Tap for details or

    textColor: Colors.white38,
  ),
],
),
CustomText(
  text: '${activeBooking.price} EGP',
  fontWeight: FontWeight.bold,
),
],
),
],
),
Positioned(

```

```

        right: 1,
        child: CustomContainer(
          vpadding: 5,
          hpadding: 5,
          borderRadius: 5,
          color: Colors.green,
          child: const CustomText(
            text: 'ACTIVE',
            textColor: Colors.white,
          ),
        ),
      ),
    ],
  ),
);
}
}
return Text('error retrieving the data, please try again');
default:
return Text('Default');
}
},
),
),

const HSizeBox(
  height: 30,
),

Padding(
  padding: const EdgeInsets.only(left: 15.0),
  child: CustomText(
    text: 'Previous Bookings',
    size: 16,
    fontWeight: FontWeight.bold,
    fontFamily: GoogleFonts.poppins().fontFamily,
  ),
),

const HSizeBox(
  height: 15,
),

FutureBuilder(
  initialData: null,

```

```

future: historyFuture,
builder: (context, snapshot) {
  switch(snapshot.connectionState){
    case ConnectionState.none:
      return Text('Error Loading the Data');

    case ConnectionState.waiting:
    case ConnectionState.active:
      return const SpinKitRing(
        color: Colors.red,
        size: 50,
      );

    case ConnectionState.done:
      if(snapshot.hasError) {
        return Text(snapshot.error.toString());
      }

      else if(snapshot.hasData){
        List previousBookings = [];

        if(previousBookings.isEmpty) {
          return const Center(
            child: CustomText(
              text: 'No Previous Bookings',
              size: 18,
            ),
          );
        }

        else{
          return Expanded(
            child: ListView.separated(
              shrinkWrap: true,
              itemCount: previousBookings.length,
              scrollDirection: Axis.vertical,
              separatorBuilder: (context, index) {
                return const HSizeBox(
                  height: 25,
                );
              },
              itemBuilder: (context, index) {
                return CustomButton(
                  margin: const EdgeInsets.symmetric(horizontal:

```

15.0),

```

        hPadding: 10,
        vPadding: 10,
        onTap: () {},
        child: Stack(
          children: [
            Column(
              children: [
                Row(
                  children: [
                    Image.asset(
                      'assets/images/discount.png',
                      width: 65,
                      height: 65,
                      fit: BoxFit.fill,
                    ),

                    const WSizeBox(
                      width: 10,
                    ),

                    Column(
                      crossAxisAlignment:
CrossAxisAlignment.start,

                      children: [
                        CustomText(
                          text:
'${previousBookings[index].schoolName} School',

                          size: 16,
                          fontWeight: FontWeight.bold,
                        ),

                        const HSizeBox(
                          height: 5,
                        ),

                        CustomText(
                          text:
previousBookings[index].field,

                          fontWeight: FontWeight.w600,
                          fontFamily:
GoogleFonts.poppins().fontFamily,

                          textColor:
Colors.black.withOpacity(0.5),
                        ),

```

```

const HSizeBox(
  height: 5,
),

CustomText(
  text: 'Fifth Settlement',
  fontWeight: FontWeight.w600,
  fontFamily:
GoogleFonts.poppins().fontFamily,
  textColor:
Colors.black.withOpacity(0.5),
),
],
),
],
),

const HSizeBox(
  height: 10,
),

Row(
  mainAxisAlignment:
MainAxisAlignment.spaceBetween,

  children: [
    Column(
      crossAxisAlignment:
CrossAxisAlignment.start,

      children: [
        Row(
          children: [
            const CustomText(
              text: "Date",
              fontWeight:
FontWeight.bold,
            ),

            const WSizeBox(
              width: 20,
            ),

            CustomText(
              text: "Time",
              fontWeight:
FontWeight.bold,

```

```

        ),
        ],
    ),

    const HSizeBox(
        height: 10,
    ),

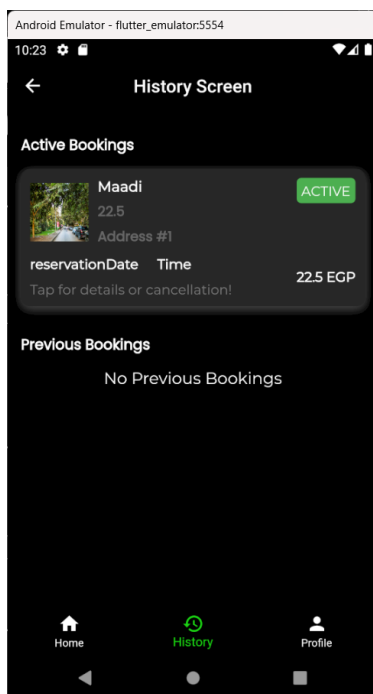
    CustomText(
        text: 'Tap For Details',
        textColor: Colors.grey,
    ),
    ],
),
CustomText(
    text:
'$${previousBookings[index].price} EGP',
        fontWeight: FontWeight.bold,
    ),
    ],
),
    ],
),
Positioned(
    right: 1,
    child: CustomContainer(
        vpadding: 5,
        hpadding: 5,
        borderRadius: 5,
        color: Colors.green,
        child: CustomText(
            text: "Cancelled",
            textColor: Colors.white,
        ),
    ),
),
    ],
),
    ],
),
    );
},
),
);
}
}
return Text('error retrieving the data, please try again');

```

```

        default:
          return Text('Default');
      },
    ),
  ],
),
),
);
}
}

```



“chosen_location_screen.dart” Code:

```

import 'package:flutter/material.dart';

import 'package:car_pool_app/Model%20Classes/location.dart';
import 'package:car_pool_app/Screens/checkout_screen.dart';
import 'package:car_pool_app/Services/date.dart';
import 'package:car_pool_app/Widgets/custom_button.dart';
import 'package:car_pool_app/Widgets/custom_text.dart';
import 'package:car_pool_app/Widgets/shimmer_template.dart';
import 'package:car_pool_app/Widgets/sized_box.dart';

```

```

import 'package:car_pool_app/Static%20Data/colors.dart';

import 'package:intl/intl.dart';
import 'package:url_launcher/url_launcher.dart';

class ChosenLocationScreen extends StatefulWidget {

  final Location locationData;

  final bool showGates;

  const ChosenLocationScreen({
    super.key,
    required this.locationData,
    this.showGates = false,
  });

  static const routeName = '/chosen_location';

  @override
  State<ChosenLocationScreen> createState() => _ChosenLocationScreenState();
}

class _ChosenLocationScreenState extends State<ChosenLocationScreen> {

  int? selectedTimeSlot;
  int selectedDateSlot = 0; // currently selected date slot

  late final Location chosenLocationData;

  final List<String> timeSlots = ['7:30 AM', '5:30 PM'];

  DateTime? currentDate;

  List<String> dayNames = ['Today']; // Placeholder for the NAME of the current
day and the next 6 days
  List<String> dayDates = []; // Placeholder for the DATE NUMBER of the current
day and 6 days

  final double bottomSheetHeight = 130;

  void dayNameAndDayDatesGenerator() async {

    final date = await Date.fetchDate();

```



```

date.fold(
  (error) {
    ScaffoldMessenger.of(context).showSnackBar(SnackBar(content:
Text(error.errorMessage)));
  },
  (right) {

    setState(() {
      currentDate = right;
    });

    dayDates.add(currentDate!.day.toString());

    for(int i = 1; i <= 7; i++){
      dayNames.add(DateFormat('EEEE').format(currentDate!.add(Duration(days:
i))));

      dayDates.add(currentDate!.add(Duration(days: i)).day.toString());
    }
  },
);
}

//List<bool> i = List.from(chosenSchoolData['Sunday']); // dont know why <bool>
doesn't work here !

Widget bookNowSheet() {
  if(selectedTimeSlot != null) {

    int start = selectedTimeSlot!;
    int end = start + selectedTimeSlot! + 1;

    if(start <= 12 || start > 24) {
      start = start % 24;
    }
    else {
      start -= 12;
    }

    return Container(
      height: bottomSheetHeight,
      decoration: const BoxDecoration(
        gradient: LinearGradient(
          begin: Alignment.topCenter,
          end: Alignment.bottomCenter,

```

```

        colors: [
            Color(0xFFFFFFFF),
            Color(0xFFF5F0F0),
        ],
    ),
    borderRadius: BorderRadius.only(
        topLeft: Radius.circular(30),
        topRight: Radius.circular(30),
    ),
),
child: Padding(
    padding: const EdgeInsets.all(8.0),
    child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
            Row(
                mainAxisAlignment: MainAxisAlignment.spaceBetween,
                children: [
                    Column(
                        children: [
                            const CustomText(
                                text: 'Your Booking',
                                size: 16,
                                fontWeight: FontWeight.bold,
                                textColor: Colors.black,
                            ),
                            CustomText(
                                text: 'dateFormat(currentDate!)',
                                textColor: Colors.black,
                            ),
                            CustomText(
                                text: '${timeSlots[selectedTimeSlot!]}',
                                textColor: Colors.black,
                            ),
                        ],
                    ),
                    const WSizeBox(
                        width: 30,
                    ),
                    Column(
                        children: [
                            const CustomText(
                                text: 'Price',

```

```

        size: 16,
        fontWeight: FontWeight.bold,
        textColor: Colors.black,
      ),
      CustomText(
        text: '${chosenLocationData.price} Egg',
        textColor: Colors.black,
      ),
    ],
  ),
],
),
CustomButton(
  width: 200,
  height: 50,
  onTap: () {
    Navigator.pushNamed(context, CheckoutScreen.routeName,
arguments: chosenLocationData);
  },
  child: const Center(
    child: CustomText(
      text: 'Book Now',
      size: 16,
    ),
  ),
),
],
),
),
);
}

return Container(
  width: double.infinity,
  height: bottomSheetHeight,
  decoration: const BoxDecoration(
    color: primaryColor,
    borderRadius: BorderRadius.only(
      topLeft: Radius.circular(8),
      topRight: Radius.circular(8),
    ),
  ),
  child: Column(
    mainAxisAlignment: MainAxisAlignment.center,
    children: [

```

```

        const Padding(
          padding: EdgeInsets.symmetric(vertical: 8.0),
          child: CustomText(
            text: 'Choose Field',
            size: 20,
            fontWeight: FontWeight.bold,
          ),
        ),

        Column(
          children: [
            CustomText(
              text: 'Trip Price (${chosenLocationData.price} EGP)',
            ),
            const TextButton(
              onPressed: null,
              child: CustomText(
                text: 'Book Now',
                textColor: Colors.white24,
              ),
            ),
          ],
        ),
      ],
    ),
  );
}

@override
void initState() {
  chosenLocationData = widget.locationData;

  dayNameAndDayDatesGenerator();
  super.initState();
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    bottomSheet: bookNowSheet(),
    body: SingleChildScrollView(
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [

```

```

Image(
  image: AssetImage('assets/images/${chosenLocationData.name}.jpg'),
),
Padding(
  padding: const EdgeInsets.fromLTRB(15, 20, 15, 0),
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
      CustomText(
        text: chosenLocationData.name,
        size: 24,
        fontWeight: FontWeight.bold,
      ),

      Row(
        mainAxisAlignment: MainAxisAlignment.spaceBetween,
        children: [
          Row(
            children: [
              const Icon(
                Icons.location_pin,
                color: Colors.white,
              ),
              CustomText(
                text: chosenLocationData.address,
              ),
            ],
          ),
          Column(
            children: [
              const CustomText(
                text: 'Location',
                size: 13,
              ),

              const HSizeBox(
                height: 5,
              ),

              CustomButton(
                onTap: () async {

                  final url = Uri.parse(chosenLocationData.location);

                  if(await canLaunchUrl(url)) {

```

```

        await launchUrl(url);
    }

    else {
        ScaffoldMessenger.of(context).showSnackBar(const
SnackBar(content: Text("Can't launch this URL, please check your browser")));
    }
  },
  height: 32,
  width: 55,
  borderRadius: 3,
  color: Colors.black,
  child: const Icon(
    Icons.location_pin,
    color: Colors.greenAccent,
  ),
),
],
),
],
),

const HSizeBox(
  height: 20,
),

const CustomText(
  text: 'Choose Gate',
  size: 16,
  fontWeight: FontWeight.bold,
),

const HSizeBox(
  height: 40,
),

const CustomText(
  text: 'Choose Time',
  size: 16,
  fontWeight: FontWeight.bold,
),

const HSizeBox(
  height: 10,
),

```

```

    SizedBox(
      height: 50,
      child: ListView.builder(
        itemCount: timeSlots.length,
        scrollDirection: Axis.horizontal,
        itemBuilder: (context, index) {
          return Container(
            margin: const EdgeInsets.only(right: 20,),
            width: 100,
            height: 100,
            child: CustomButton(
              shadow: false,
              borderRadius: 8,
              color: primaryColor,
              selectedColor: const Color(0xFF4967FF),
              selectedChildrenColor: Colors.black,
              onTap: () {
                setState(() {
                  selectedTimeSlot = index;
                });
              },
              selected: (index == selectedTimeSlot),
              child: Center(
                child: Text(timeSlots[index]),
              ),
            ),
          ),
        );
      },
    ),

    const HSizedBox(
      height: 40,
    ),

    const CustomText(
      text: 'Select a Date',
      size: 16,
      fontWeight: FontWeight.bold,
    ),

    const HSizedBox(
      height: 10,
    ),

```

```

SizedBox(
  height: 50,
  child: ListView.builder(
    scrollDirection: Axis.horizontal,
    itemCount: 7,
    itemBuilder: (context, index) {

      if(currentDate == null) {
        return const ShimmerTemplate(
          width: 65,
          height: 100,
          margin: EdgeInsets.only(right: 10,),
        );
      }

      return Container(
        margin: const EdgeInsets.only(right: 10,),
        width: 65,
        height: 100,
        child: ListTileTheme(
          shape: RoundedRectangleBorder(
            borderRadius: BorderRadius.circular(8),
          ),
          tileColor: primaryColor,

          selectedColor: Colors.black,
          selectedTileColor: const Color(0xFF7323FF),

          child: ListTile(
            title: Column(
              children: [
                Text( dayNames[index].substring(0,3) ),
                Text( dayDates[index] ),
              ],
            ),
            onTap: () {
              setState(() {
                selectedDateSlot = index;

                final int tempDay = currentDate!.add(Duration(
                  days: selectedDateSlot,
                )).day;
              });
            },
          ),
        ),
      );
    },
  ),
);

```

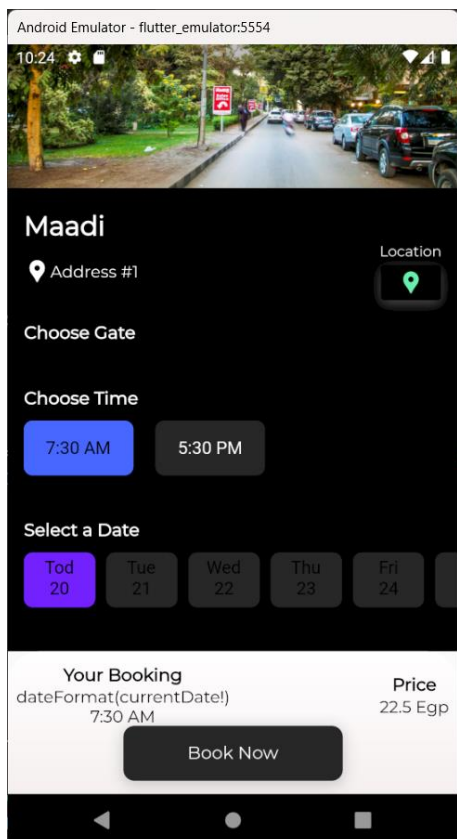


```

                selected: ( index == selectedDateSlot ),
            ),
        ),
    );
  },
),
),
const SizedBox(height: 30,),

HSizeBox(
  height: bottomSheetHeight + 10,
),
],
),
),
],
),
),
);
}
}

```



“checkout screen.dart” Code:

```
import 'package:flutter/material.dart';

import 'package:car_pool_app/Widgets/sized_box.dart';
import 'package:car_pool_app/Widgets/custom_text.dart';
import 'package:car_pool_app/Widgets/custom_container.dart';
import 'package:car_pool_app/Model%20Classes/location.dart';
import 'package:car_pool_app/Screens/payment_screen.dart';
import 'package:car_pool_app/Static%20Data/colors.dart';
import 'package:car_pool_app/Widgets/custom_button.dart';
import 'package:car_pool_app/Widgets/promo_code_field.dart';

class CheckoutScreen extends StatelessWidget {
  const CheckoutScreen({ super.key });

  static const routeName = '/checkout';

  @override
  Widget build(BuildContext context) {
    final chosenLocation = ModalRoute.of(context)!.settings.arguments as
    Location;

    return Scaffold(
      appBar: AppBar(
        title: const Text('Checkout Screen'),
        centerTitle: true,
      ),
      body: SingleChildScrollView(
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            Container(
              decoration: BoxDecoration(
                image: DecorationImage(
                  image: AssetImage(
                    'assets/images/${chosenLocation.name}.jpg',
                  ),
                  fit: BoxFit.cover,
                ),
              ),
            ),
          ],
        ),
        height: MediaQuery.of(context).size.height * 0.3,
      ),
    );
  }
}
```

```

    ),

    Padding(
      padding: const EdgeInsets.all(20.0),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          //Text('${reservationHistory.schoolName} School' , style:
Theme.of(context).textTheme.headline5,),
          CustomText(
            text: chosenLocation.name,
            size: 24,
            fontWeight: FontWeight.bold,
          ),

          const HSizeBox(
            height: 10,
          ),

          Row(
            children: [
              const Icon(
                Icons.location_pin,
                color: Colors.white,
              ),
              const WSizeBox(
                width: 5,
              ),
              CustomText(
                text: chosenLocation.address,
                size: 16,
              ),
            ],
          ),

          const HSizeBox(
            height: 20,
          ),

          const CustomText(
            text: 'Date & Time',
            size: 16,
            fontWeight: FontWeight.bold,
          ),

```

```

const HSizeBox(
  height: 15,
),

CustomContainer(
  shadow: false,
  color: primaryColor,
  child: Column(
    children: [
      Row(
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          const Icon(
            Icons.calendar_today,
            color: Colors.white,
          ),
          const WSizeBox(
            width: 10,
          ),
          CustomText(
            text: 'dateFormat(1/1/2023)',
            fontWeight: FontWeight.bold,
          ),
        ],
      ),
    ],
  ),

  const HSizeBox(
    height: 15,
  ),

  CustomContainer(
    shadow: true,
    borderRadius: 8,
    child: CustomText(
      text: '7:30 AM',
      size: 18,
      fontWeight: FontWeight.bold,
      textColor: Colors.black,
    ),
  ),
],
),
),

const HSizeBox(

```

```
        height: 30,
      ),

      CustomText(
        text: 'Pay with',
        size: 16,
        fontWeight: FontWeight.bold,
      ),

      const HSizeBox(
        height: 20,
      ),

      CustomText(
        text: 'Promo code',
        size: 16,
        fontWeight: FontWeight.bold,
      ),

      const HSizeBox(
        height: 10,
      ),

      Row(
        children: [
          Expanded(
            flex: 2,
            child: PromoCodeField(
              controller: TextEditingController(),
              focusNode: FocusNode(),
            ),
          ),
        ],

        const WSizeBox(
          width: 20,
        ),

        Expanded(
          flex: 1,
          child: CustomButton(
            height: 50,
            shadow: false,
            onTap: () {},
            child: const CustomText(
              text: 'Apply',
```

```

    ),
  ),
),
],
),

const HSizeBox(
  height: 30,
),

const Center(
  child: CustomText(
    text: 'Payment Summary',
    size: 16,
    fontWeight: FontWeight.bold,
  ),
),

const HSizeBox(
  height: 20,
),

Row(
  mainAxisAlignment: MainAxisAlignment.spaceBetween,
  children: [
    CustomText(
      text: 'fee',
    ),

    CustomText(
      text: 'EGP ${chosenLocation.price}',
    ),
  ],
),

const HSizeBox(
  height: 10,
),

const Row(
  mainAxisAlignment: MainAxisAlignment.spaceBetween,
  children: [
    CustomText(
      text: 'Discount',
    ),
  ],
),

```

```

        CustomText(
          text: '- EGP 0.00',
        ),
      ],
    ),

    const HSizeBox(
      height: 10,
    ),

    Row(
      mainAxisAlignment: MainAxisAlignment.spaceBetween,
      children: [
        const CustomText(
          text: 'Total amount',
          fontWeight: FontWeight.bold,
        ),
        CustomText(
          text: 'EGP ${chosenLocation.price}',
          fontWeight: FontWeight.bold,
        ),
      ],
    ),

    const HSizeBox(
      height: 30,
    ),

    CustomButton(
      height: 50,
      child: const CustomText(
        text: 'Confirm Booking',
      ),
      onTap: () async {
        Navigator.pushNamed(context, PaymentScreen.routeName);
        // final reservation = await Realtime(phoneNumber:
'0111111111111111').reserve(
          // reservationHistory: reservationHistory,
          // );

          // reservation.fold(
          //   (error) {
          //     if(error is ConnectionError) {
          //       ScaffoldMessenger.of(context).showSnackBar(SnackBa
r(content: Text(error.errorMessage)));

```

```

        //      }
        //      else if(error is FirebaseError) {
        //          ScaffoldMessenger.of(context).showSnackBar(SnackBa
r(content: Text(error.errorMessage)));
        //      }
        //      else if(error is AlreadyReservedError) {
        //          ScaffoldMessenger.of(context).showSnackBar(SnackBa
r(content: Text(error.errorMessage)));
        //          Navigator.pop(context);
        //      }
        //  },
        //  (right) async {
        //      final history = await Firestore(phoneNumber:
userData.phoneNumber).addReservationHistory(reservationHistory);

        //      history.fold(
        //          (error) {},
        //          (right) async {
        //              await Storage().addHistory(reservationHistory);

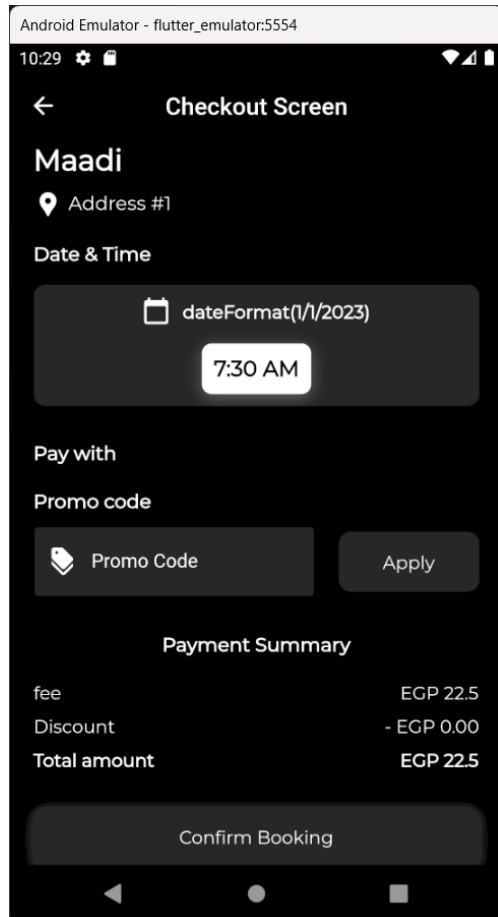
        //              userData.accountStatus = AccountStatus.active;
        //              userData.reservationsCounter += 1;
        //              await
Storage().updateUserAccountStatus(userData);
        //              await
Storage().incrementReservationsCounter(userData);

        //              ScaffoldMessenger.of(context).showSnackBar(Snack
Bar(content: Text("Successful Reservation")));
        //              // TODO handle the stopwatch, either stop and
reset it or stop it only, just dispose it
        //              Navigator.popUntil(context,
ModalRoute.withName(Wrapper.routeName));
        //          },
        //      );
        //  },
    },
),
],
),
),
],
),
),

```



```
}  
}  
};
```



“payment screen.dart” Code:

```
import 'package:flutter/material.dart';  
  
import 'package:car_pool_app/Widgets/custom_button.dart';  
import 'package:car_pool_app/Widgets/custom_text.dart';  
import 'package:car_pool_app/Widgets/sized_box.dart';  
  
class PaymentScreen extends StatelessWidget {  
  const PaymentScreen({ super.key });  
  
  static const routeName = '/payment';  
}
```

```

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: const Text('Payment Methods'),
      centerTitle: true,
    ),

    body: Padding(
      padding: const EdgeInsets.all(20),
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          CustomButton(
            shadow: false,
            child: const Padding(
              padding: EdgeInsets.all(10),
              child: CustomText(
                text: 'Cash',
                size: 20,
              ),
            ),
            onTap: () {},
          ),

          const HSizeBox(
            height: 50,
          ),

          CustomButton(
            shadow: false,
            child: const Padding(
              padding: EdgeInsets.all(10),
              child: CustomText(
                text: 'App Credit',
                size: 20,
              ),
            ),
            onTap: () {},
          ),

          const HSizeBox(
            height: 50,
          ),
        ],
      ),
    ),
  );
}

```

```
CustomButton(  
  shadow: false,  
  child: const Padding(  
    padding: EdgeInsets.all(8.0),  
    child: CustomText(  
      text: 'Credit Card',  
      size: 20,  
    ),  
  ),  
  onTap: () {},  
)  
],  
)  
)  
);  
}
```

