



### MAD Project Evaluation 1 – Regular Intake 2022

<b>Team Name:</b>	SparkX				<b>Batch:</b>	Weekday Batch Group 2.1		
Student ID	Student Name	Consistency (Out of 2)	Appropriateness and Professionalism (Out of 3)	Usage of resource manager (Out of 4)	Out of box design ideas (Out of 3)	Report (Out of 8)	Total (Out of 20)	Comments
IT21029868	Hettiarachchi B.D.A.D							
IT21025662	Kalupahana N.H							
IT21017742	Rathnakumara M.D.B							
IT21023132	Peiris S.H							

Git Repository Link:

(If already created)

<https://github.com/IT21029868/SparkX.git> ( have created but not yet started committing)

-----For Evaluators use only-----

Evaluator's name:

Others:

## 1. Introduction to the project



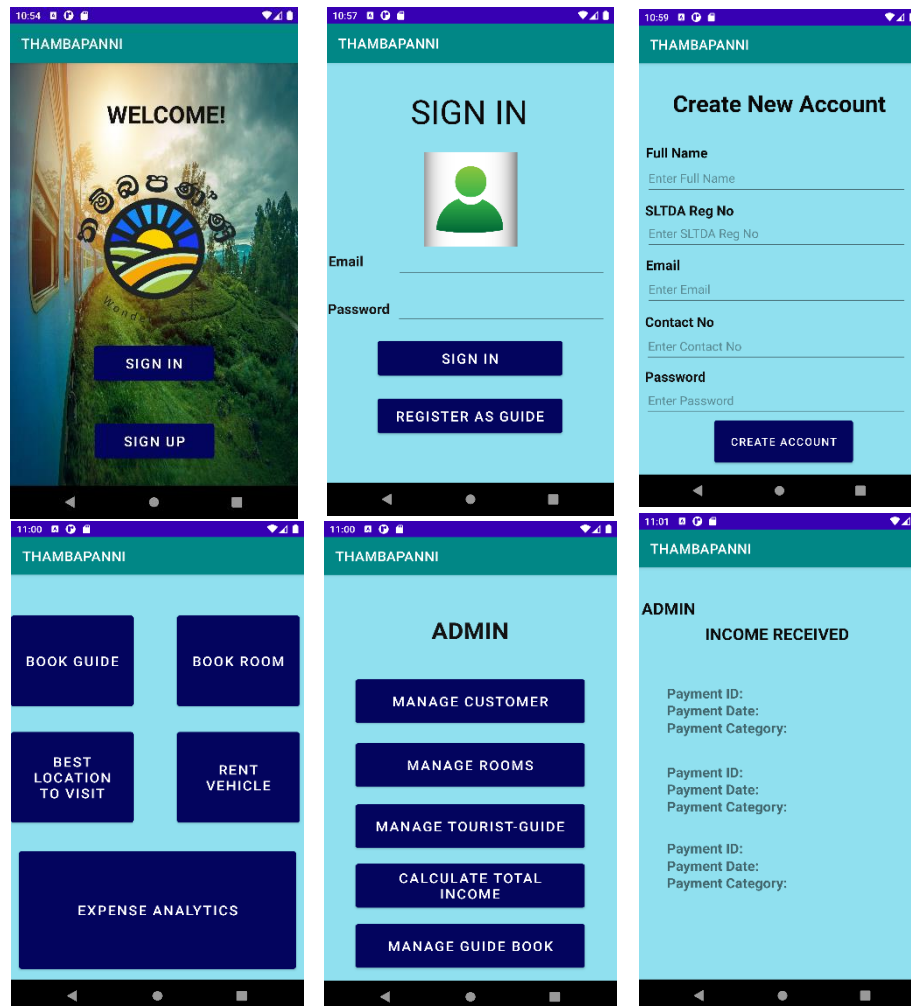
‘THAMBAPANNI’ is a mobile application that the developers started creating in thinking of supporting the tourism industry in Sri Lanka, and this application is only applicable inside the country. In the current economic crisis of Sri Lanka, one of the best income resources for our country is Tourism. But still, there are some areas that should be improved in the tourism industry in order to provide the best traveling experience inside Sri Lanka. After research, we have understood that there isn’t a proper mobile application for the tourism industry apart from a popular web application. Because of that, we have selected this topic for our mobile application development project.

Through this application, we are trying to bring different facilities into one platform that tourists need when they travel inside Sri Lanka. The facilities meant here are ‘finding accommodations and tour guides, selecting best travel destinations and their must visit locations and save them in their travel cart option that we will be provided in this application and provide a option to track their travel expenses’.

In this report, we will demonstrate only some of the facilities mentioned above. Since we are also still self-learning and try to develop some of the facilities in this app and we are hoping to implement them in the final project. This report shows the flow of events through which the activities in the application navigate throughout the application. This includes the CRUD operations and the calculations. This emphasizes the interfaces in the application with its performance and runtime implementations.

## 2. IT21025662 – Kalupahana H.N

### UI Design from Android Studio



#### Create an account

When an account page is created two buttons are available known as **Customer** and **Guide**. Anyone can log into the Create Account of Customer page by clicking on Customer button. An account for our customers can be created by adding their curriculum vitae. A **Submit** button is available under the details. First Last Names , Email and Password are mainly considered with regard to this . When the Guide button clicked on , the same procedure takes place as above. The Guide Account has to submit more information such as age price and language than that of Customer account.

#### Rating and Review

I am able to rate and review the app , in the page it displays with five stars when I log into the Main Customer Home Page. The app can be easily rated by clicking on each **star**. Here a **text box** is available to review. There is a **Submit** button next to the text box. Finally **Edit** buttons and **Delete** buttons can be used to edit or review that customer has submit.

#### Payment Received

All the details can be collected and sorted out in to main categories known as Customer and Guide , after successfully logging to the Payment Received Page. Finally I can calculate the summary of the received payment and it can be displayed in the main display.



## Resources

```
themes.xml
1 <resources xmlns:tools="http://schemas.android.com/tools">
2   <!-- Base application theme. -->
3   <style name="Theme.THAMBAPANNI" parent="Theme.MaterialComponents.DayNight.DarkActionBar">
4     <!-- Primary brand color. -->
5     <item name="colorPrimary">@color/purple_500</item>
6     <item name="colorPrimaryVariant">@color/purple_700</item>
7     <item name="colorOnPrimary">@color/white</item>
8     <!-- Secondary brand color. -->
9     <item name="colorSecondary">@color/teal_200</item>
10    <item name="colorSecondaryVariant">@color/teal_700</item>
11    <item name="colorOnSecondary">@color/black</item>
12    <!-- Status bar color. -->
13    <item name="android:statusBarColor" tools:targetApi="l">?attr/colorPrimaryVariant</item>
14    <!-- Customize your theme here. -->
15  </style>
16 </resources>
```

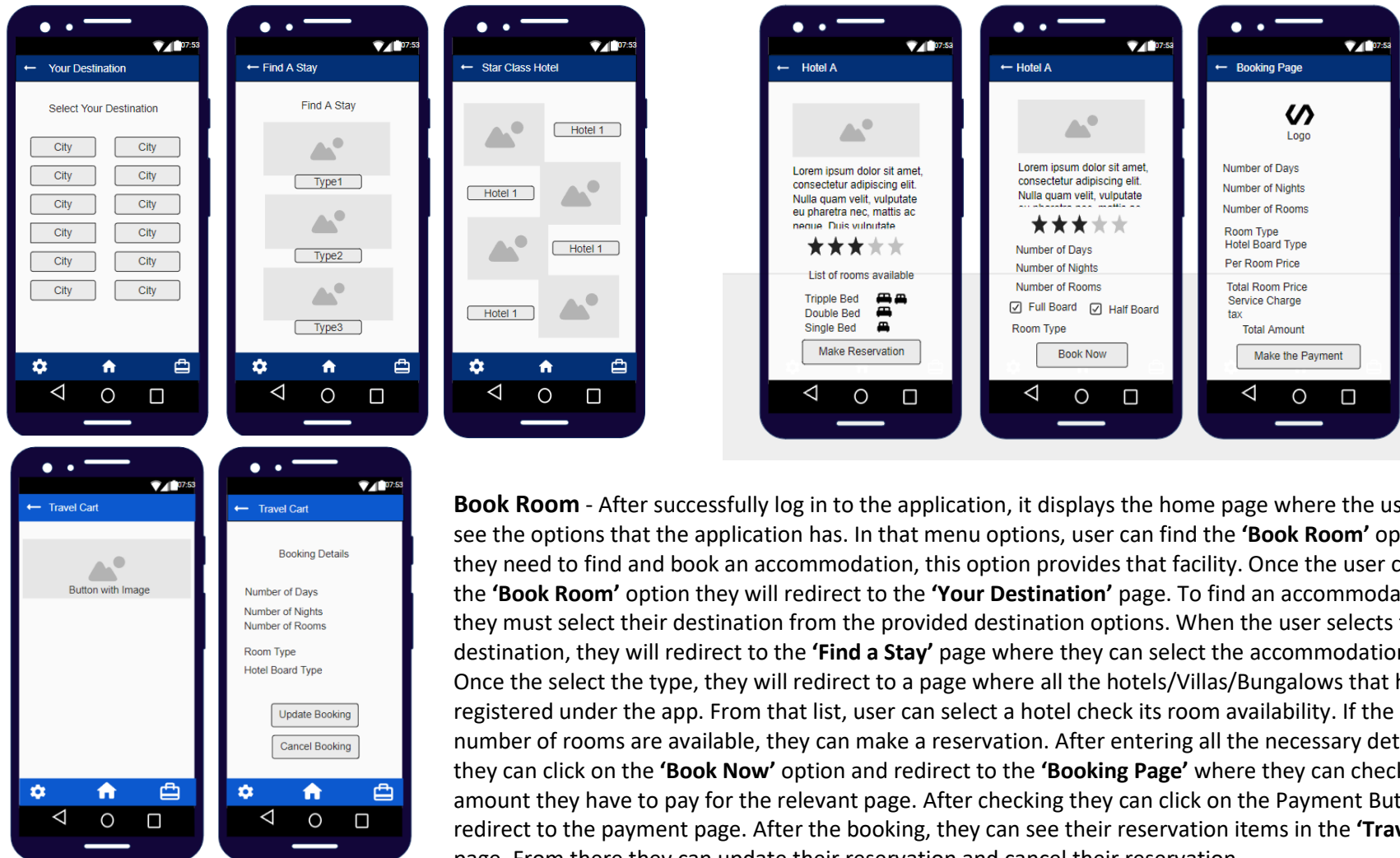
```
Edit translations for all locales in the translations editor.
1 <resources>
2   <string name="app_name">THAMBAPANNI</string>
3   <string name="btn_sign_in">SIGN IN</string>
4   <string name="btn_sign_up">SIGN UP</string>
5   <string name="btn_register_guide">REGISTER AS GUIDE</string>
6   <string name="btn_create_account">CREATE ACCOUNT</string>
7   <string name="btn_book_guide">BOOK GUIDE</string>
8   <string name="btn_book_room">BOOK ROOM</string>
9   <string name="btn_best_location_to_visit">BEST LOCATION TO VISIT</string>
10  <string name="btn_rent_vehicle">RENT VEHICLE</string>
11  <string name="btn_expense_analytics">EXPENSE ANALYTICS</string>
12  <string name="btn_manage_customer">MANAGE CUSTOMER</string>
13  <string name="btn_manage_rooms">MANAGE ROOMS</string>
14  <string name="btn_manage_tourist_guide">MANAGE TOURIST GUIDE</string>
15  <string name="btn_calculate_total_income">CALCULATE TOTAL INCOME</string>
16  <string name="btn_manage_guide_book">MANAGE GUIDE BOOK</string>
17
18
19
20 </resources>
```

```
inActivity.java × guide.xml × admin.xml × income.xml × colors.xml × strings.xml
Edit translations for all locales in the translations editor.
1 <resources>
2   <string name="app_name">THAMBAPANNI</string>
3 </resources>
```

```
activity.java × guide.xml × admin.xml × income.xml × colors.xml × strings.xml × signin.xml × values/themes.xml
1 <?xml version="1.0" encoding="utf-8"?>
2 <resources>
3   <color name="purple_200">#FFB886FC</color>
4   <color name="purple_500">#FF6200EE</color>
5   <color name="purple_700">#FF3700B3</color>
6   <color name="teal_200">#FF03DAC5</color>
7   <color name="teal_700">#FF018786</color>
8   <color name="black">#FF000000</color>
9   <color name="white">#FFFFFF</color>
10 </resources>
```

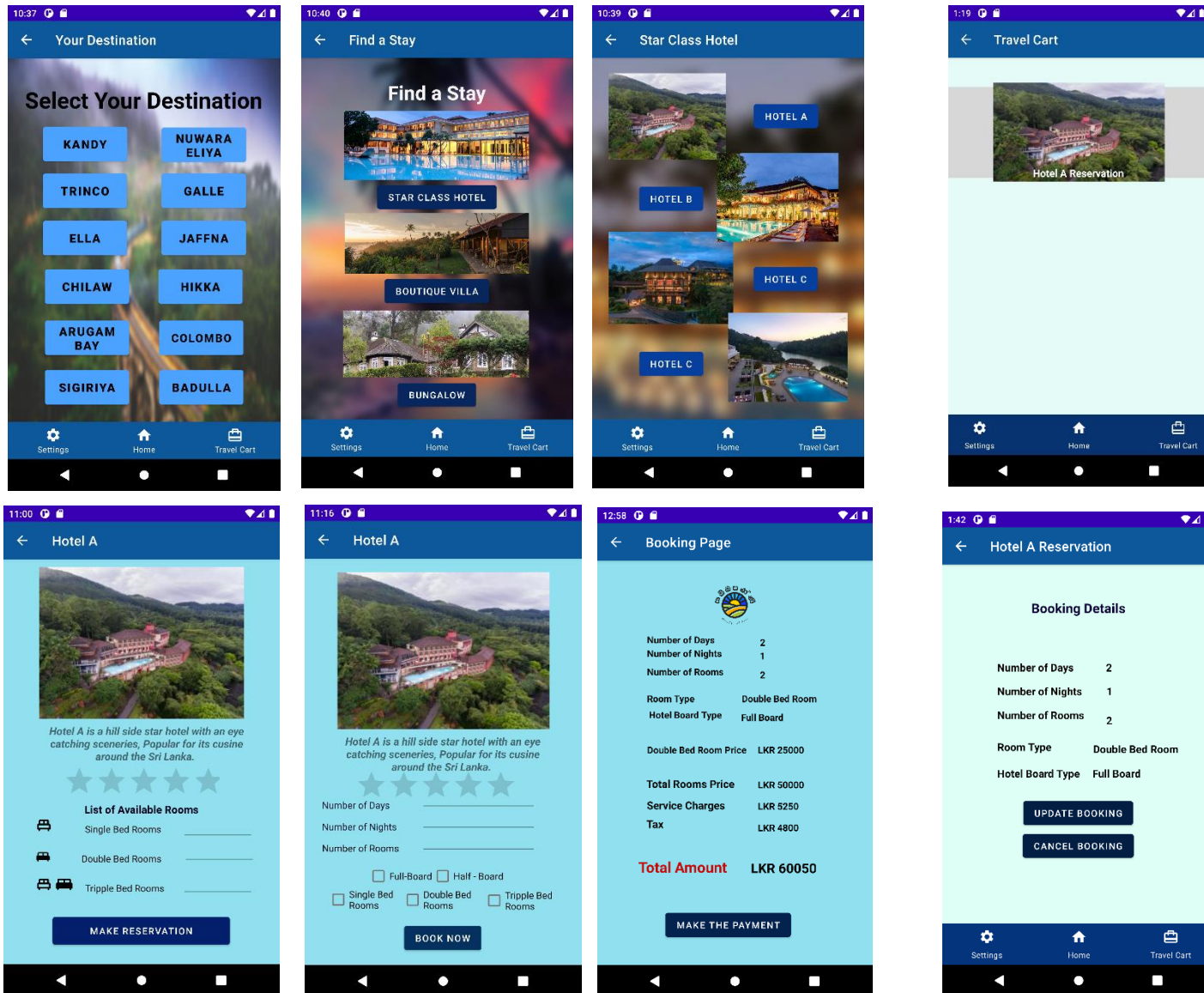
### 3. IT21029868 – Hettiarachchi B.D.A.D

#### Wireframes



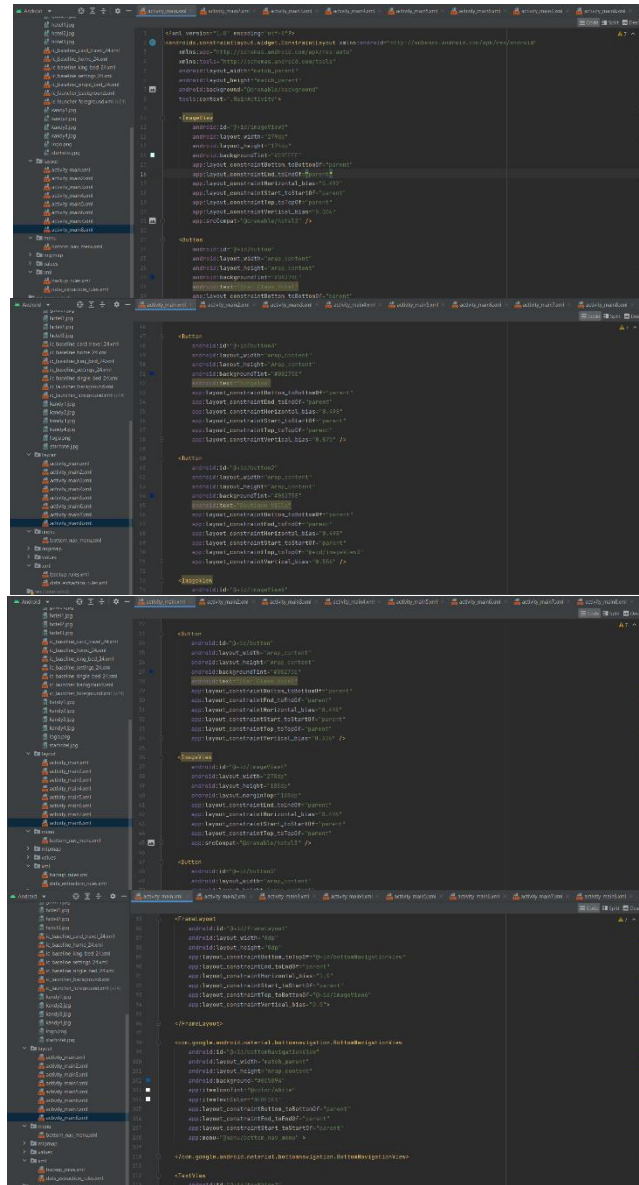
**Book Room** - After successfully log in to the application, it displays the home page where the user can see the options that the application has. In that menu options, user can find the **'Book Room'** option. If they need to find and book an accommodation, this option provides that facility. Once the user clicks on the **'Book Room'** option they will redirect to the **'Your Destination'** page. To find an accommodation, they must select their destination from the provided destination options. When the user selects their destination, they will redirect to the **'Find a Stay'** page where they can select the accommodation type. Once the select the type, they will redirect to a page where all the hotels/Villas/Bungalows that have registered under the app. From that list, user can select a hotel check its room availability. If the needed number of rooms are available, they can make a reservation. After entering all the necessary details, they can click on the **'Book Now'** option and redirect to the **'Booking Page'** where they can check the amount they have to pay for the relevant page. After checking they can click on the Payment Button and redirect to the payment page. After the booking, they can see their reservation items in the **'Travel Cart'** page. From there they can update their reservation and cancel their reservation.

## UI Design from Android Studio





# Resources



```
<?xml version="1.0" encoding="utf-8"?>

<resources>

    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="lightblue">#00C8E8</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>

</resources>
```

```
1 <resources>
2   <string name="app_name">Book a Hotel</string>
3 </resources>
```

```
<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->
    <style name="Theme.BookAHotel" parent="Theme.MaterialComponents.DayNight.DarkActionBar">
        <!-- Primary brand color. -->
        <item name="colorPrimary">@color/purple_500</item>
        <item name="colorPrimaryVariant">@color/purple_700</item>
        <item name="colorOnPrimary">@color/white</item>
        <!-- Secondary brand color. -->
        <item name="colorSecondary">@color/teal_200</item>
        <item name="colorSecondaryVariant">@color/teal_700</item>
        <item name="colorOnSecondary">@color/black</item>
        <!-- Status bar color. -->
        <item name="android:statusBarColor" tools:targetApi="L">@attr/colorPrimaryVariant</item>
        <!-- Customize your theme here. -->
    </style>
</resources>
```

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">

    <item android:title="Settings"
          android:icon="@drawable/ic_baseline_settings_24"
          android:id="@+id/settings"/>

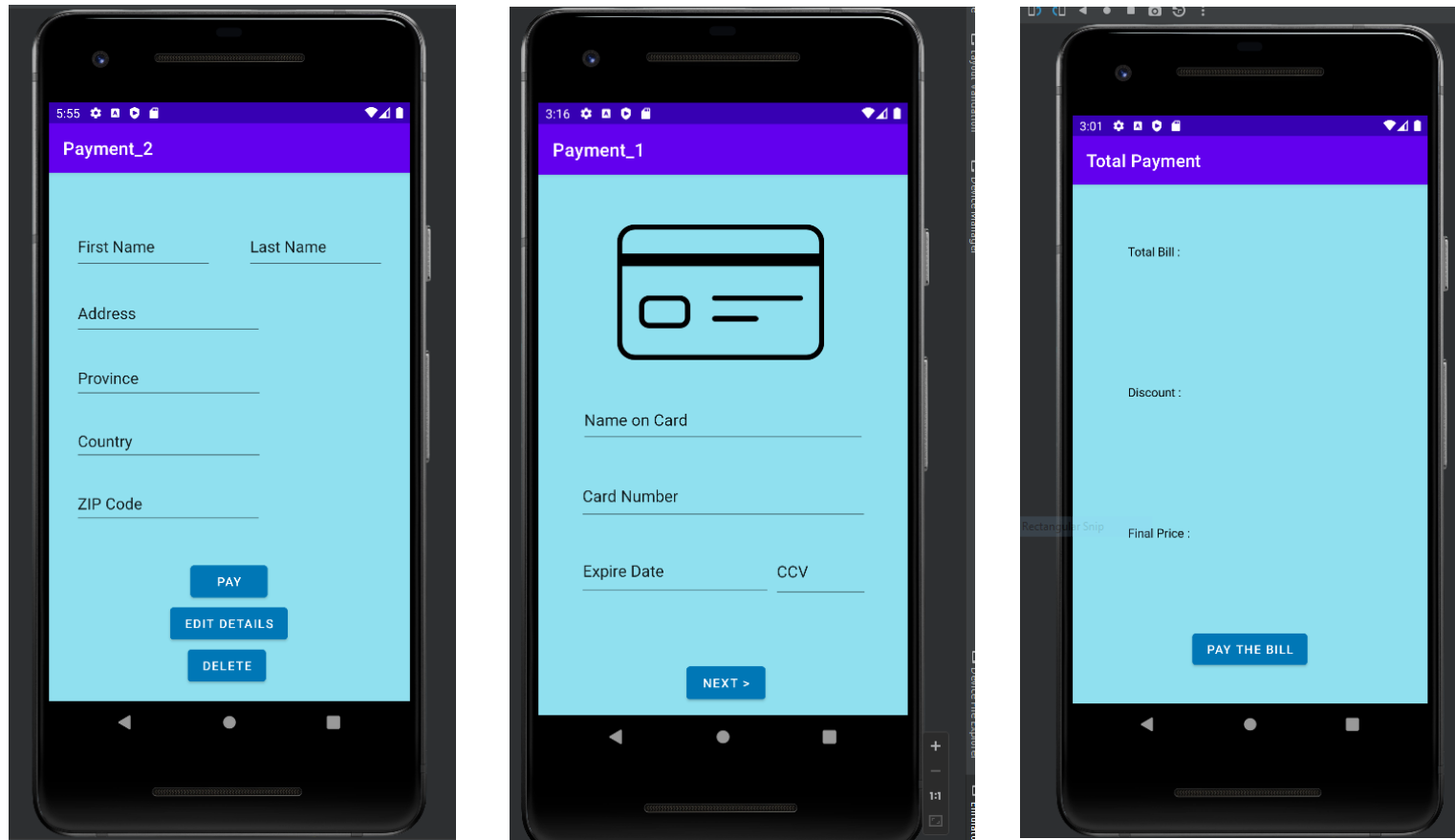
    <item android:title="Home"
          android:icon="@drawable/ic_baseline_home_24"
          android:id="@+id/home"/>

    <item android:title="Travel Cart"
          android:icon="@drawable/ic_baseline_card_travel_24"
          android:id="@+id/cart"/>

</menu>
```

## 4. IT21017742 – Rathnakumara M.D.B

### UI Design from Android Studio



After booking the hotels, the user can enter to the payment gate way, First the user can see the total bill for the booking, the discount if there any, and the final bill, click on pay button, the user have to enter the name on card, card number, expire date and ccv number, then the user have to enter the personal details, then he can pay, or edit card details or delete the details by clicking respective buttons.



## Resources

```

1 <resources xmlns:tools="http://schemas.android.com/tools">
2     <!-- Base application theme. -->
3     <style name="Theme.Payment_1" parent="Theme.MaterialComponents.DayNight.DarkActionBar">
4         <!-- Primary brand color. -->
5         <item name="colorPrimary">@color/purple_500</item>
6         <item name="colorPrimaryVariant">@color/purple_700</item>
7         <item name="colorOnPrimary">@color/white</item>
8         <!-- Secondary brand color. -->
9         <item name="colorSecondary">@color/teal_200</item>
10        <item name="colorSecondaryVariant">@color/teal_700</item>
11        <item name="colorOnSecondary">@color/black</item>
12        <!-- Status bar color. -->
13        <item name="android:statusBarColor" tools:targetApi="l">?attr/colorPrimaryVariant</item>
14        <!-- Customize your theme here. -->
15    </style>
16 </resources>

```

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <resources>
3     <color name="purple_200">#FFBB86FC</color>
4     <color name="purple_500">#FF6200EE</color>
5     <color name="purple_700">#FF3700B3</color>
6     <color name="teal_200">#FF03DAC5</color>
7     <color name="teal_700">#FF018786</color>
8     <color name="black">#FF000000</color>
9     <color name="white">#FFFFFFFF</color>
10 </resources>

```

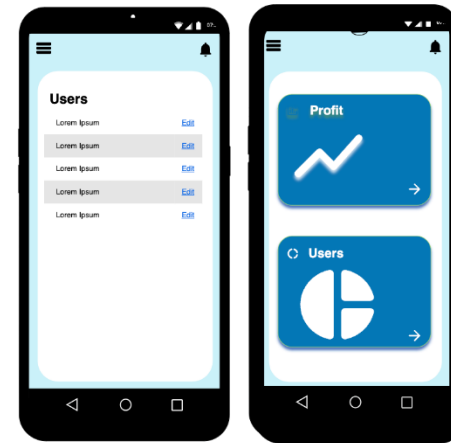
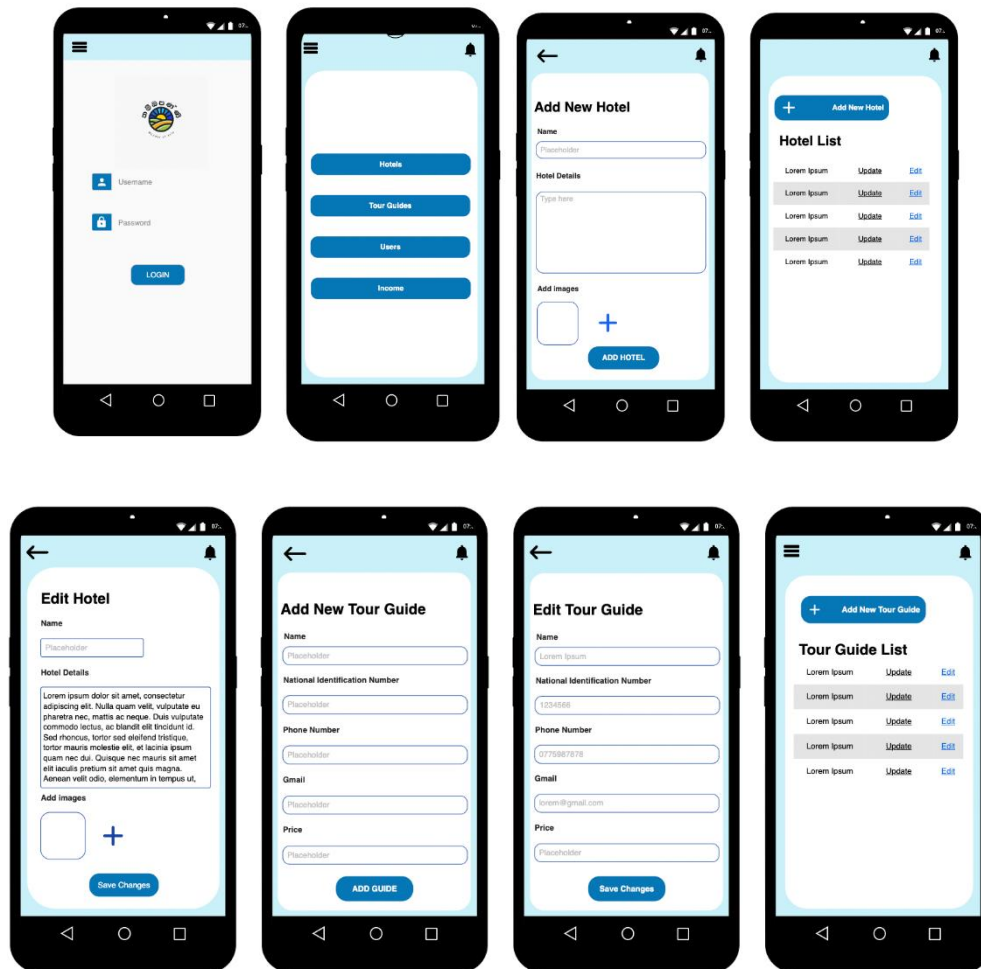
```

<resources>
    <string name="app_name">Payment_1</string>
</resources>

```

## 5. IT21023132 – Peries S.H

### Wireframes and About the Function



After successfully login to the system by entering username and password, admin can view hotels, tour guides, users and reports. Admin can enter new hotels by clicking on “add new hotel” button and adding necessary details. All the hotels in the system are displayed in the hotel list and admin can either edit hotel details or delete by clicking on the respective button. Edited hotel details are saved to the system by clicking the “save changes” button. Admin can add tour guides to the system by clicking the “add new tour guide” button and filling details. And by clicking on the respective buttons, we can either delete or edit tour guides. And after editing the new information admin can save changes by clicking the “save changes button”. Admin can also delete unnecessary users in the system by clicking the delete button Infront of the username. System will calculate the total monthly incomes of the system. Admin can view the total income of the company monthly or yearly by clicking on the report button.

## Resources

```

1  <resources>
2    <string name="app_name">Admin</string>
3    <string name="logo">Photo</string>
4    <string name="btn_login">Login</string>
5    <string name="btn_back">Back</string>
6    <string name="btn_menuBar">Bar</string>
7    <string name="btn_viewHotel">Hotel</string>
8    <string name="btn_viewTourGuide">Tour Guides</string>
9    <string name="btn_viewUsers">Users</string>
10   <string name="btn_reports">Income</string>
11   <string name="btn_addNewHotel">Add New Hotel</string>
12   <string name="btn_addHotel">Add Hotel</string>
13   <string name="btn_editHotel">Edit Hotel</string>
14   <string name="btn_deleteHotel">Delete Hotel</string>
15   <string name="btn_addTourGuide">Add New Guide</string>
16   <string name="btn_addGuide">Add Guide</string>
17   <string name="btn_editGuide">Edit Guide</string>
18   <string name="btn_deleteGuide">Delete Guide</string>
19   <string name="btn_deleteUser">Delete User</string>
20   <string name="btn_saveHotel">Save Changes</string>
21   <string name="btn_tourGuide">Save Changes</string>
22 </resources>

```

```

<resources xmlns:tools="http://schemas.android.com/tools">
  <style name="Button.White" parent="ThemeOverlay.AppCompat">
    <item name="colorAccent">@android:color/white</item>
  </style>

  <style name="CustomFontStyle">
    <item name="android:layout_width">fill_parent</item>
    <item name="android:layout_height">wrap_content</item>
    <item name="android:capitalize">characters</item>
    <item name="android:typeface">monospace</item>
    <item name="android:textSize">12pt</item>
    <item name="android:textColor">#00FF00</item>/>
  </style>

  <style name="MyCustomTheme">
    <item name="android:windowBackground">@color/lightergreen</item>
    <item name="android:colorBackgroundCacheHint">@color/lightergreen</item>
  </style>
</resources>

```

```

<resources xmlns:tools="http://schemas.android.com/tools">
  <style name="Button.White" parent="ThemeOverlay.AppCompat">
    <item name="colorAccent">@android:color/white</item>
  </style>
</resources>

```

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <resources>
3    <color name="lightgreen">#8EA685</color>
4    <color name="green">#B4DAB9</color>
5    <color name="lightergreen">#CFEFC4</color>
6    <color name="darkgreen2">#739A73</color>
7    <color name="darkgreen1">#28550B</color>
8    <color name="black">#FF000000</color>
9    <color name="white">#FFFFFF</color>
10 </resources>

```

```

<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android">
  <corners android:radius="20dp"/>
</shape>

```

## Color Resources

### 24

#### SHADES OF BLUE

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**REPRESENTS**  
LOYALTY, TRUST, INTEGRITY, RELIABILITY, RESPONSIBILITY, AUTHORITY, KNOWLEDGE, POWER, PROFESSIONALISM, COOLNESS.

Royal HEX #1155CC RGB 17 85 204	Space HEX #002060 RGB 0 32 96	Prussian HEX #003366 RGB 0 51 102
Navy HEX #000080 RGB 0 0 128	Yale HEX #004080 RGB 0 64 128	Egyptian HEX #0044AA RGB 0 68 176
Azure HEX #007FFF RGB 0 127 255	Sapphire HEX #0070C0 RGB 0 112 192	Olympic HEX #0080C0 RGB 0 128 192
Cornflower HEX #6699FF RGB 102 153 255	Independence HEX #4C5C8A RGB 76 92 138	Teal HEX #008080 RGB 0 128 128
Maya HEX #77CCFF RGB 119 204 255	Pigeon HEX #77B3FF RGB 119 179 255	Turkish Blue HEX #4682B4 RGB 70 131 182
Carolina HEX #4DB6AC RGB 77 182 211	Steel HEX #4682B4 RGB 70 131 182	Tiffany HEX #483D8B RGB 72 61 139
Baby Blue HEX #ADD8E6 RGB 170 204 255	Air Force HEX #5E9BD5 RGB 94 157 213	Electric HEX #00FFFF RGB 0 255 255
Sky HEX #87CEEB RGB 135 206 250	Powder HEX #B0E0E6 RGB 176 224 224	Turquoise HEX #40E0D0 RGB 64 224 208

### 24

#### SHADES OF YELLOW

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**REPRESENTS**  
CREATIVE, FUN, CHEERFULNESS, OPTIMISM, ENTHUSIASM, IMPULSIVE, HAPPINESS, CLARITY, ENERGY, ENLIGHTENMENT.

Mellow HEX #F0E68C RGB 240 230 140	Royal HEX #FFD700 RGB 255 215 0	Gold HEX #FFA500 RGB 255 165 0
Cyber HEX #FFD700 RGB 255 215 0	Trombone HEX #D2B48C RGB 210 180 140	Khaki HEX #F0E68C RGB 240 230 140
Goldenrod HEX #DAA520 RGB 218 165 32	Banana HEX #FFD700 RGB 255 215 0	Tuscany HEX #FFD700 RGB 255 215 0
Honey HEX #FFD700 RGB 255 215 0	Dijon HEX #FFD700 RGB 255 215 0	Bumblebee HEX #FFD700 RGB 255 215 0
Fire HEX #FF4500 RGB 255 69 0	Ochre HEX #FFD700 RGB 255 215 0	Amber HEX #FFD700 RGB 255 215 0
Flax HEX #FFD700 RGB 255 215 0	Cream HEX #FFFACD RGB 255 255 204	Beige HEX #F5F5DC RGB 245 245 220
Peach HEX #FFDAB9 RGB 255 220 180	Lemon HEX #FFD700 RGB 255 215 0	Laguna HEX #FFD700 RGB 255 215 0
Mustard HEX #FFD700 RGB 255 215 0	Navajo HEX #FFDAB9 RGB 255 220 180	Ecu HEX #F5F5DC RGB 245 245 220

### 24

#### SHADES OF GREEN

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**REPRESENTS**  
CALMNESS, BALANCE, GROWTH, VITALITY, RELIABILITY, PRACTICAL, NURTURING, LOYAL, ADAPTABLE, HARMONY, FRESHNESS, SAFETY, FERTILITY, ENVIRONMENT, FINANCE, AMBITION, ENDURANCE.

Forest HEX #228B22 RGB 34 139 34	Sage HEX #8FBC8F RGB 143 188 143	Olive HEX #8FBC8F RGB 143 188 143
Lime HEX #32CD32 RGB 50 205 50	Hunter HEX #3CB371 RGB 60 180 112	Jade HEX #3CB371 RGB 60 180 112
Artichoke HEX #90EE90 RGB 146 238 134	Fern HEX #3CB371 RGB 60 180 112	Jungle HEX #3CB371 RGB 60 180 112
Laurel HEX #90EE90 RGB 146 238 134	Moss HEX #3CB371 RGB 60 180 112	Mint HEX #3CB371 RGB 60 180 112
Pine HEX #3CB371 RGB 60 180 112	Tea HEX #3CB371 RGB 60 180 112	Persian HEX #3CB371 RGB 60 180 112
Army HEX #3CB371 RGB 60 180 112	Emerald HEX #3CB371 RGB 60 180 112	Kelly HEX #3CB371 RGB 60 180 112
Neon HEX #3CB371 RGB 60 180 112	Uniform HEX #3CB371 RGB 60 180 112	Sacramento HEX #3CB371 RGB 60 180 112
Russian HEX #3CB371 RGB 60 180 112	Sea HEX #3CB371 RGB 60 180 112	Paris HEX #3CB371 RGB 60 180 112

When creating the user interface, the developers always should give attention to the colors that they use for the application. Since our application is about traveling, we should select the colors that go with the travelers' mind set. Sri Lanka is a greenery island that surrounds from the blue sea and embraces the sunlight though out the year. The application should have a more welcoming and cheerful background, that is why we have used blue, green, and yellow colors to design the UIs of this application. Strategically using color and texture, interaction design, and visual design are some of the UI design concepts that we had been focused on at this stage of application development.