



IT2010 – Mobile Application Development
BSc (Hons) in Information Technology
2nd Year
Faculty of Computing
SLIIT
2023 – Assessment 01
Phase 1 Report

Description	Student ID	Name
Group Leader	IT21177514	Ransika M.R.T.
Member 2	IT20012892	Ahamed M.S.A.
Member 3	IT21193804	Weerasekara D.D.R.R.
Member 4	IT21158568	Sindujan P.

Application Topic	“Visit Sri Lanka” Mobile Application
Group Name	Sky Devs (Y2.S2.WD.IT.02.01)

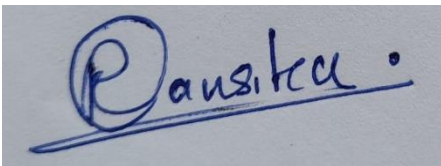
Project Declaration.

We, the members of “**Sky Devs**”, hereby declare that our group project is entirely authentic and original. We have conducted thorough research and analysis to ensure that our work is not plagiarized or copied from any other sources.

We have followed all guidelines provided by our LIC and have complied with all ethical and academic standards.

We take full responsibility for the authenticity of our work and understand the implications of academic dishonesty. We have worked collaboratively to produce this project, and each member has contributed to the best of their abilities.

We hereby affirm that our project represents our honest effort and commitment to academic integrity, and we take pride in presenting it as our own.

A handwritten signature in blue ink that reads "Ransika." with a period at the end. The signature is written in a cursive style and is underlined.

Group Leader (Signature)
Ransika M.R.T.

Description about the overall project.

The tourism industry can contribute significantly to developing a country's economy. The tourism industry mainly generates new job opportunities in various sectors, such as hotels, restaurants, transportation, and entertainment. This can lead to increased income for individuals and contribute to the country's overall economic growth and tourism can bring foreign currency into a country through expenditure by tourists on accommodation, food, shopping, and other activities. This can contribute to the country's foreign exchange reserves, which can be used for various purposes like importing petroleum, essential medicines, foodstuff, fertilizers, and auto parts, etc. As well as the tourism industry can also contribute to the government's revenue through taxes on tourism-related goods and services, such as value-added taxes and taxes on visas. This tax revenue can also be invested by the government for the well-being of the people of the country.

At present, the lack of foreign exchange (due to which, the delay in payment of foreign exchange and import of essential materials) and unemployment can be identified as some main economic problems in Sri Lanka.

Therefore, our group decided to develop a mobile application solution called “**Visit Sri Lanka**”, with the aim of increasing the amount of foreign exchange flowing into the country through foreign tourists and providing a solution to unemployment. It includes the following four main components.

01. Functionality for foreigners registration and sharing tour experiences with other users of the application.
02. Taxi Driver Management System.
03. Hotel Management System.
04. Tour Guide Registration and Selecting Tour Guides

These four main components are implemented by the members of group.

The member-wise description on what is their contribution.

IT21177514 – Foreigners Registration and Share Tour Experiences with other Users.

My contribution to developing the Visit Sri Lanka mobile application can be divided into 3 main components.

01. Tourist Registration

Foreigners who like to visit Sri Lanka can be registered in the application. When they registered to the app, they need to submit their own name, email address, contact number, country, a photo as a profile picture, and a strong password. If the submitted data are valid, they can successfully be registered to the application.

02. Tourist Account

After successful Registration, a tourist account is automatically created. It includes functions to display, edit, delete account credentials, share own experiences, and visit other tourists' experiences, check hotels, taxi drivers, and suggestions.

03. Share tour experiences and visit other tourists' experiences in Sri Lanka.

Registered tourists can share their tour experiences by sharing posts including brief descriptions and multiple photographs. Then other users of the app can see their posts and get ideas about different destinations. This functionality can promote different destinations in Sri Lanka. It can be a reason to increase foreign tourist attraction and contribute to foreign exchange reserves.

IT20012892– Driver Management System

The driver management system is designed to simplify the process of connecting drivers with tourists. It provides drivers with the ability to register and login to the app, and edit their profile as needed. Tourists can then use the app to easily search for and book drivers based on their preferences and availability. By streamlining the booking process and offering a user-friendly interface, the app aims to make it easier for drivers to find work and for tourists to get the transportation services they need. Overall, the app offers a convenient and efficient solution for both drivers and tourists alike.

IT21193804 – Hotel Management System

A hotel management system would allow tourists to search and book hotels directly from their mobile devices. The system databases will provide a comprehensive list of available hotels, their prices, and other relevant information such as location, amenities, and ratings.

Hotel management will be able to create an account and add the hotels to the system. Once logged in user will be able to edit information, pricing of their hotels

Tourist would be able to filter their search results-based location, hotel type, and amenities. The system would also allow users to view photos and reviews of the hotels to make informed decisions about their choices.

Once a user selects a hotel, the system would facilitate the booking process. Based on the selectins system will give a price point for the reservation.

IT21158568– Tour Guide Registration and Selecting Guides

In Sri Lanka after the covid-19, Sri Lanka's major employment sector tourism is totally down, so in this app, we focus on increasing the number of tourist guides in Sri Lanka and helping tourist to explore Sri Lanka with them. Tourists as a user can select a guide and explore with them the way where can they go around Sri Lanka depending on bus route numbers(ex: Kollupitiya to Kaduwalla means the route number is 177 so tourists select the route guide and explore the whole area with them)

An admin can see guides and users so he or she can manage the total number of users and give feedback and secure unauthorized guides from Sri Lanka. The user can select guides depending on their wishes and needs, guides can accept their reservation depending on their time slot and free time.

So this part can help to move the Sri Lankan tourist sector to high-level secure and demand jobs around Sri Lanka. May it resolve the problems like a lack of guides and, the tourist does not need to keep always navigator with them.

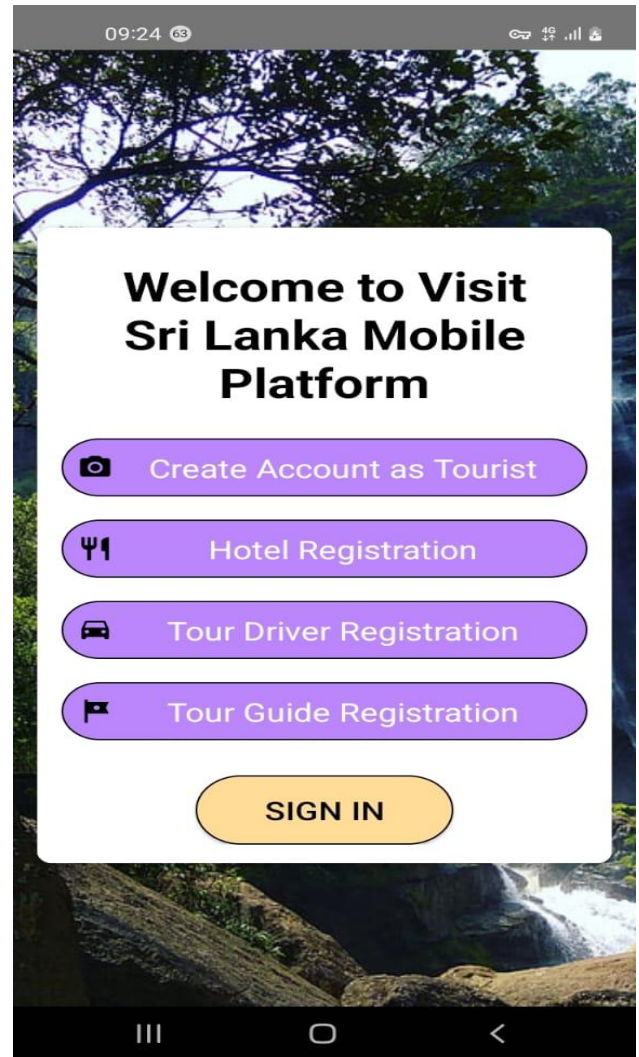
Screenshots of the all-user interfaces.

IT21177514 – Foreigners Registration and Share Tour Experiences with other Users.

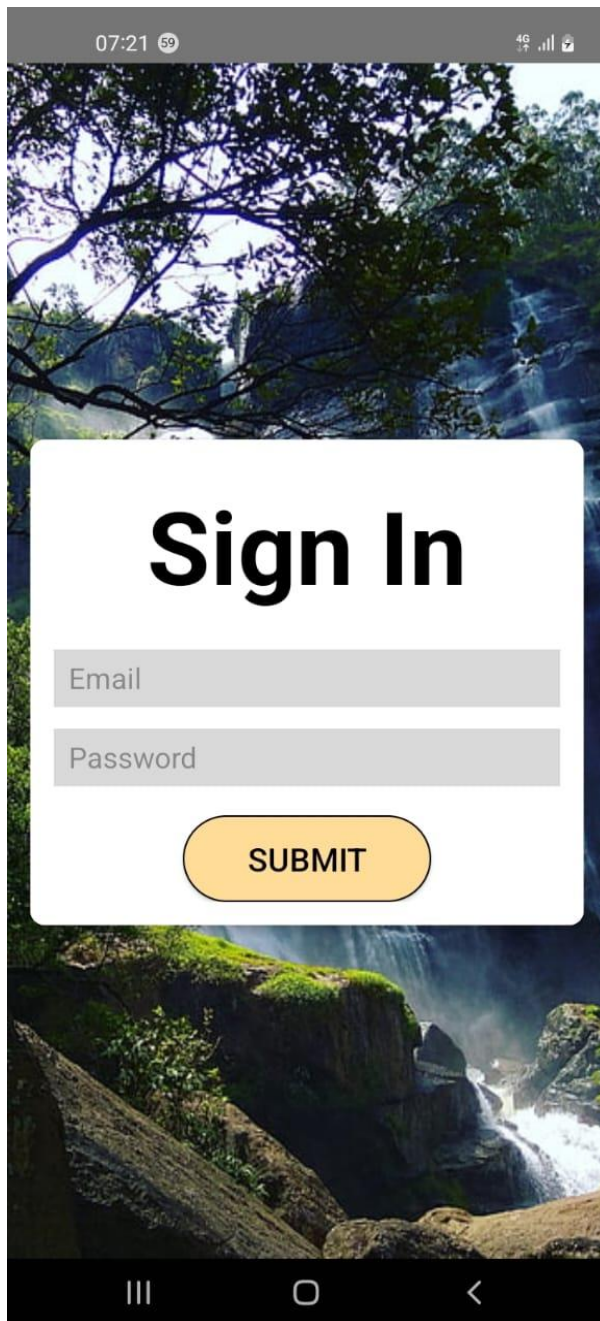
01. MainActivity



02. MainNavigationPageActivity



03.SignInActivity



07:21 59 4G

Sign In

Email

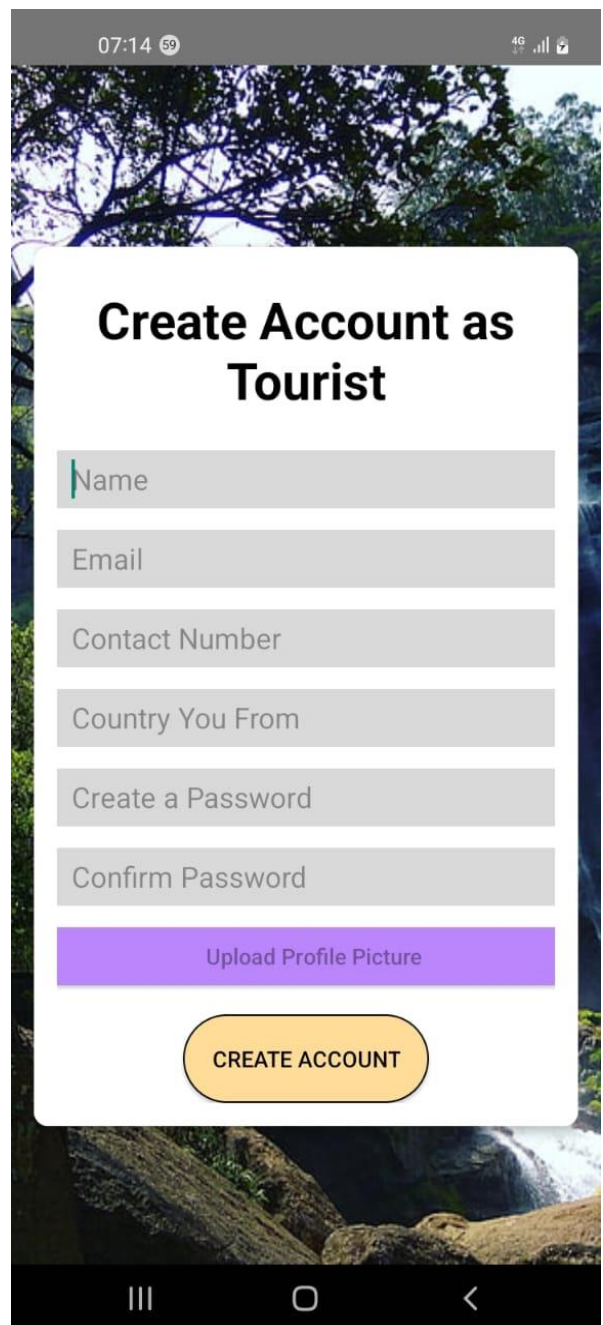
Password

SUBMIT

III O <

This screenshot shows the 'Sign In' screen of a mobile application. The background is a scenic image of a waterfall. A white card is centered on the screen, containing the title 'Sign In' in large black font. Below the title are two input fields for 'Email' and 'Password'. At the bottom of the card is a yellow rounded button labeled 'SUBMIT'. The top status bar shows the time as 07:21, a battery level of 59%, and 4G connectivity. The bottom navigation bar has three icons: a list icon, a home icon, and a back icon.

04.CreateAccountAsTouristActivity



07:14 59 4G

Create Account as Tourist

Name

Email

Contact Number

Country You From

Create a Password

Confirm Password

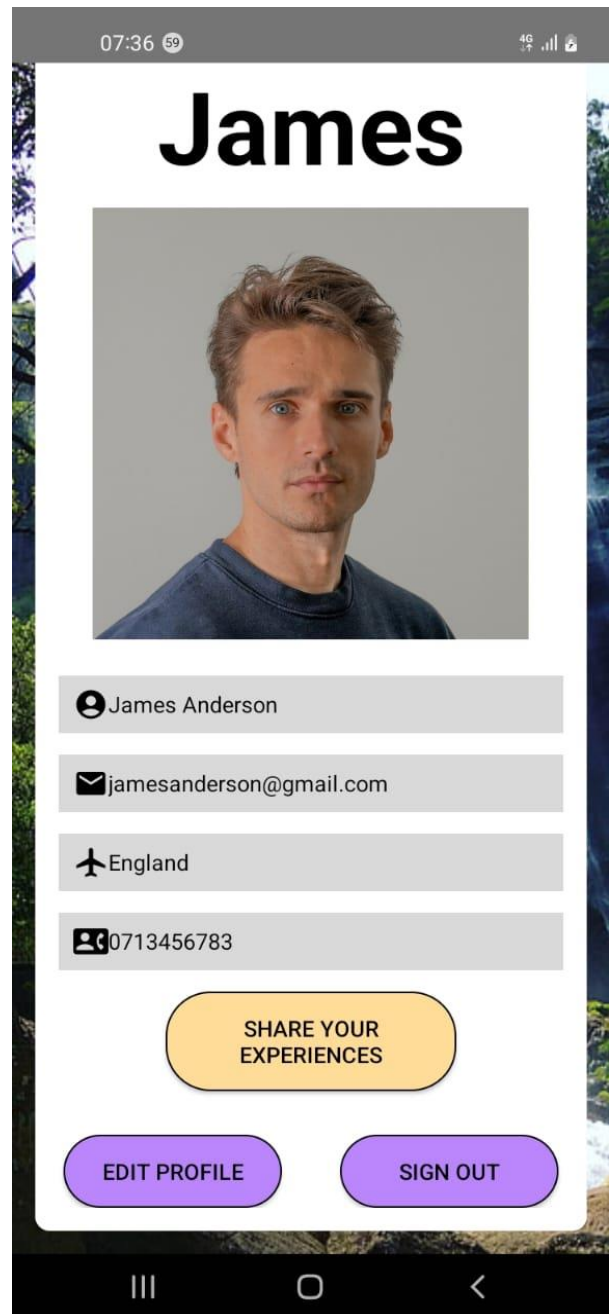
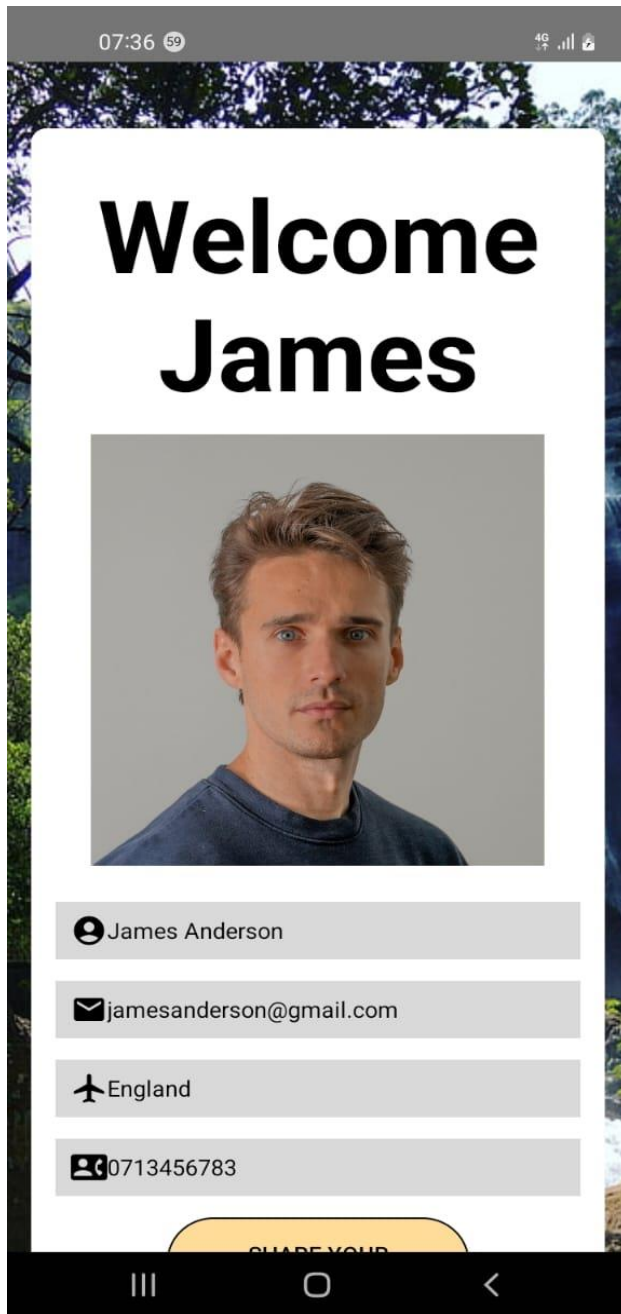
Upload Profile Picture

CREATE ACCOUNT

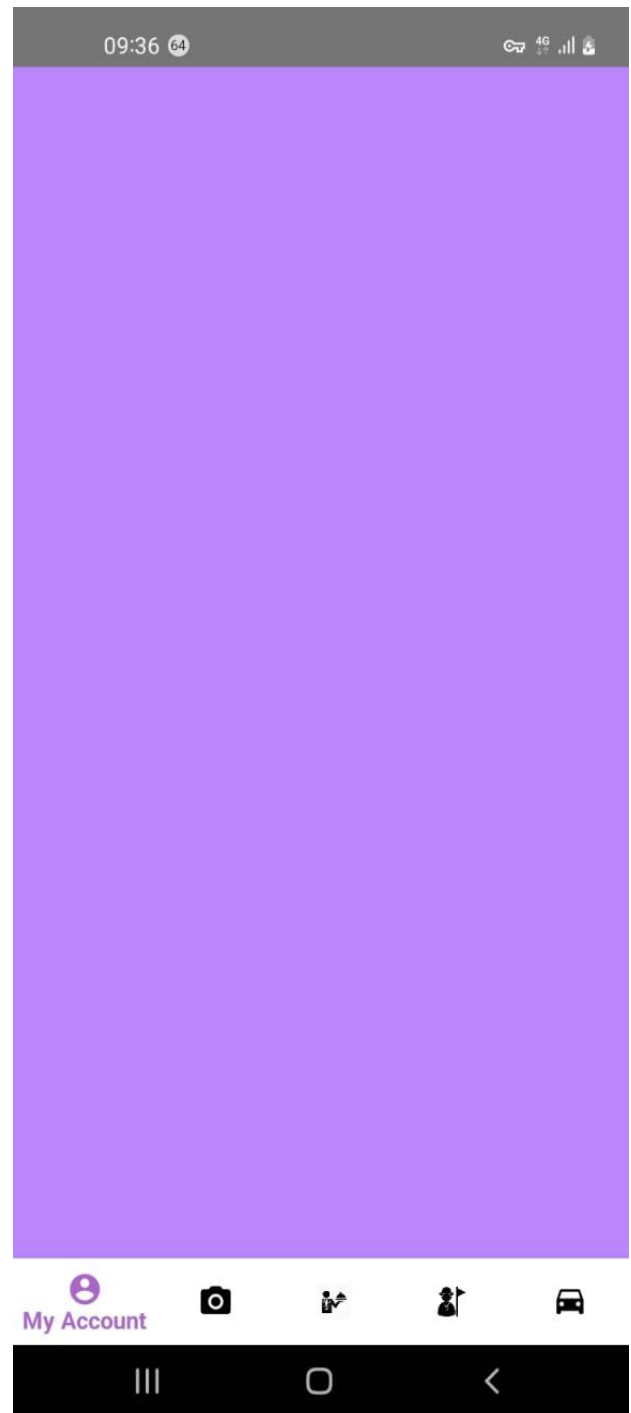
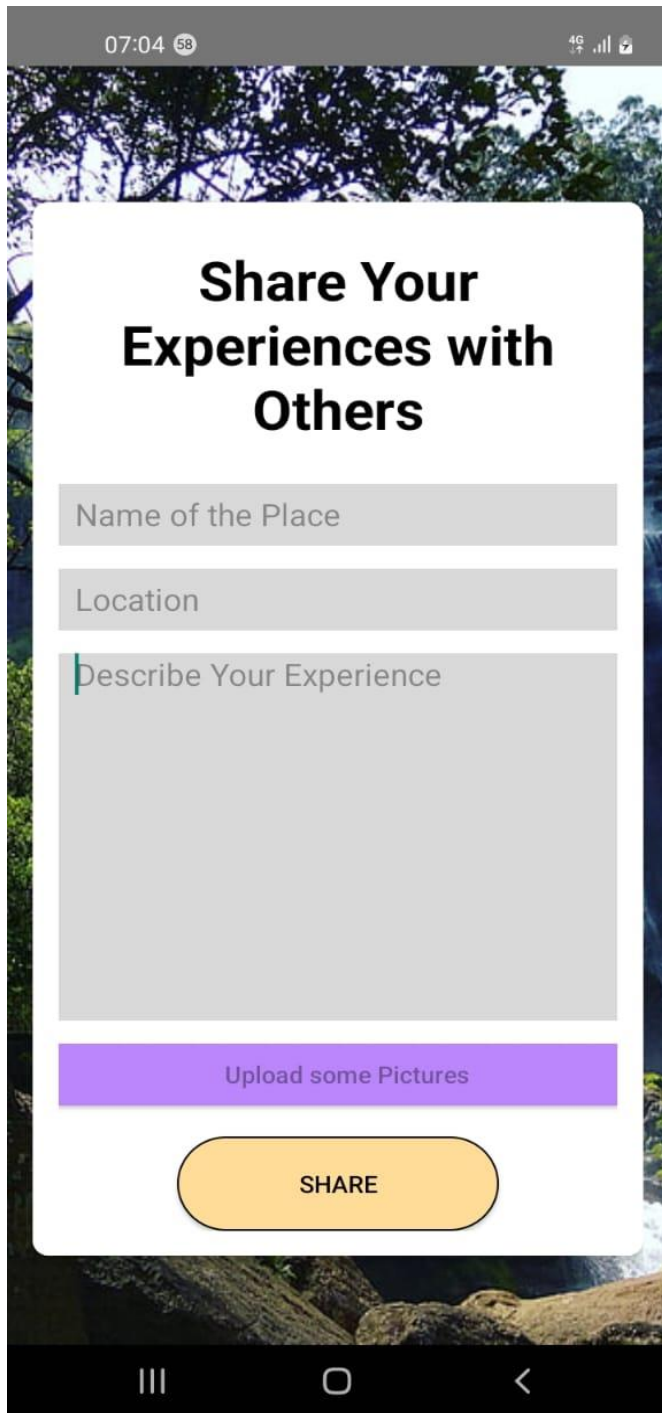
III O <

This screenshot shows the 'Create Account as Tourist' screen of a mobile application. The background is the same scenic waterfall image. A white card is centered on the screen, containing the title 'Create Account as Tourist' in large black font. Below the title are several input fields: 'Name', 'Email', 'Contact Number', 'Country You From', 'Create a Password', and 'Confirm Password'. There is also a purple button labeled 'Upload Profile Picture'. At the bottom of the card is a yellow rounded button labeled 'CREATE ACCOUNT'. The top status bar shows the time as 07:14, a battery level of 59%, and 4G connectivity. The bottom navigation bar has three icons: a list icon, a home icon, and a back icon.

05.MyTouristAccountActivity

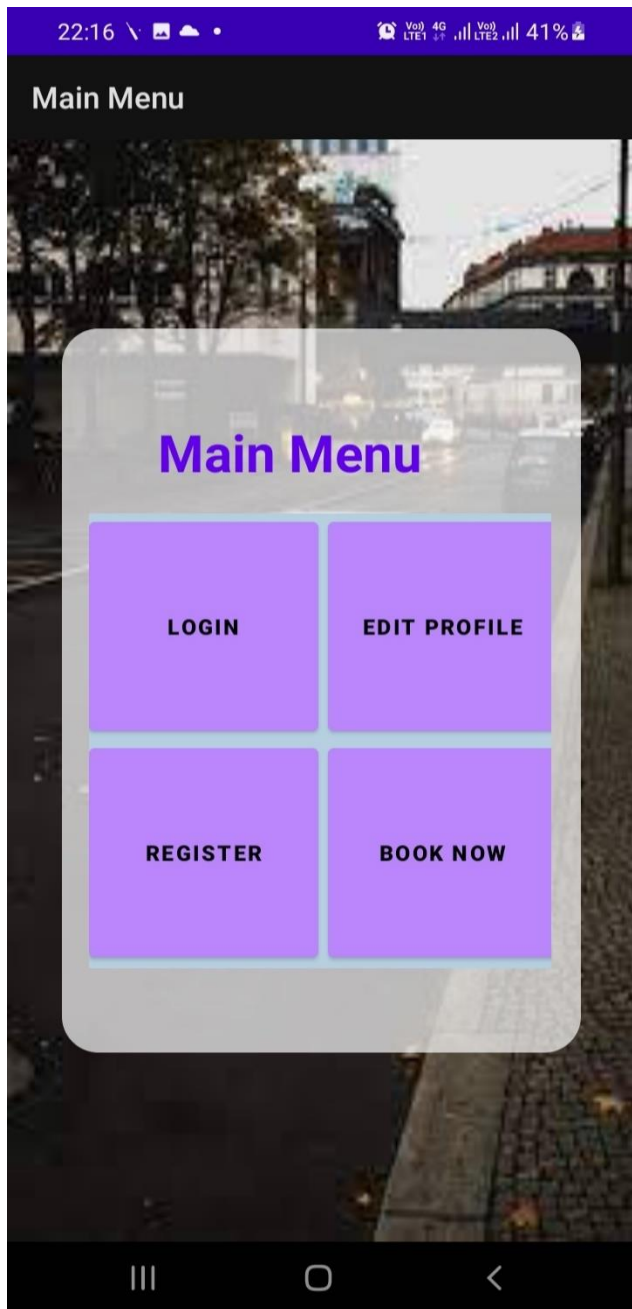


06.ShareYourExperiencesWithOthersActivity 07. Bottom Navigation Bar

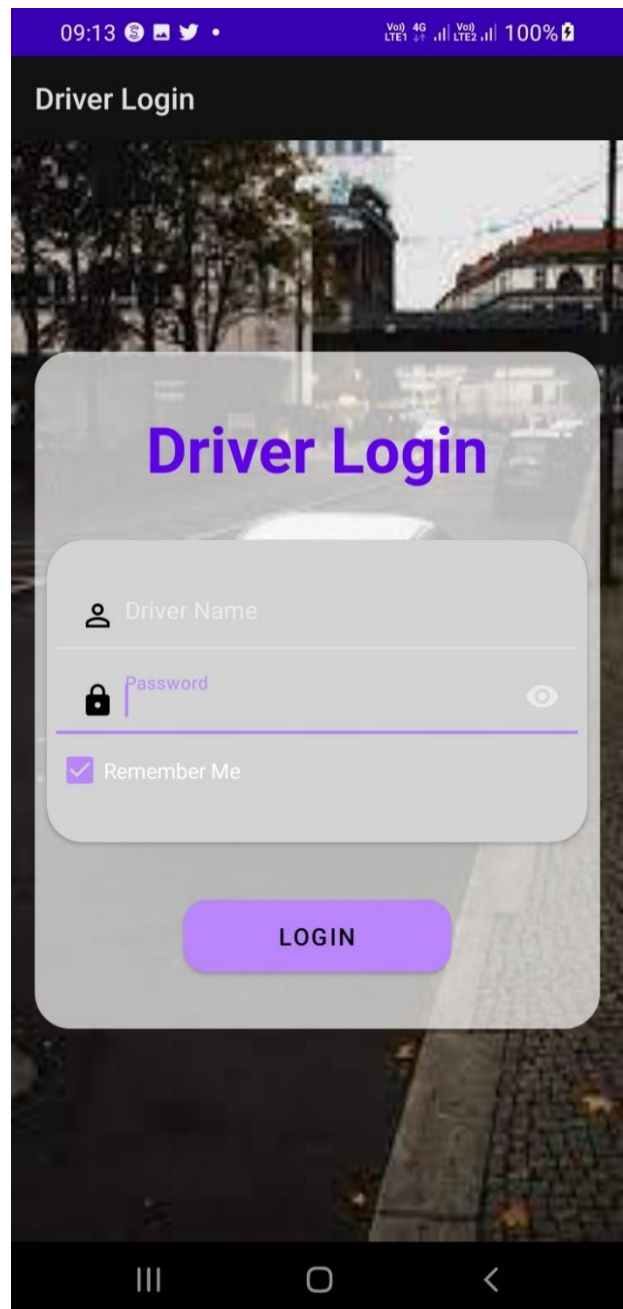


IT20012892– Driver Management System

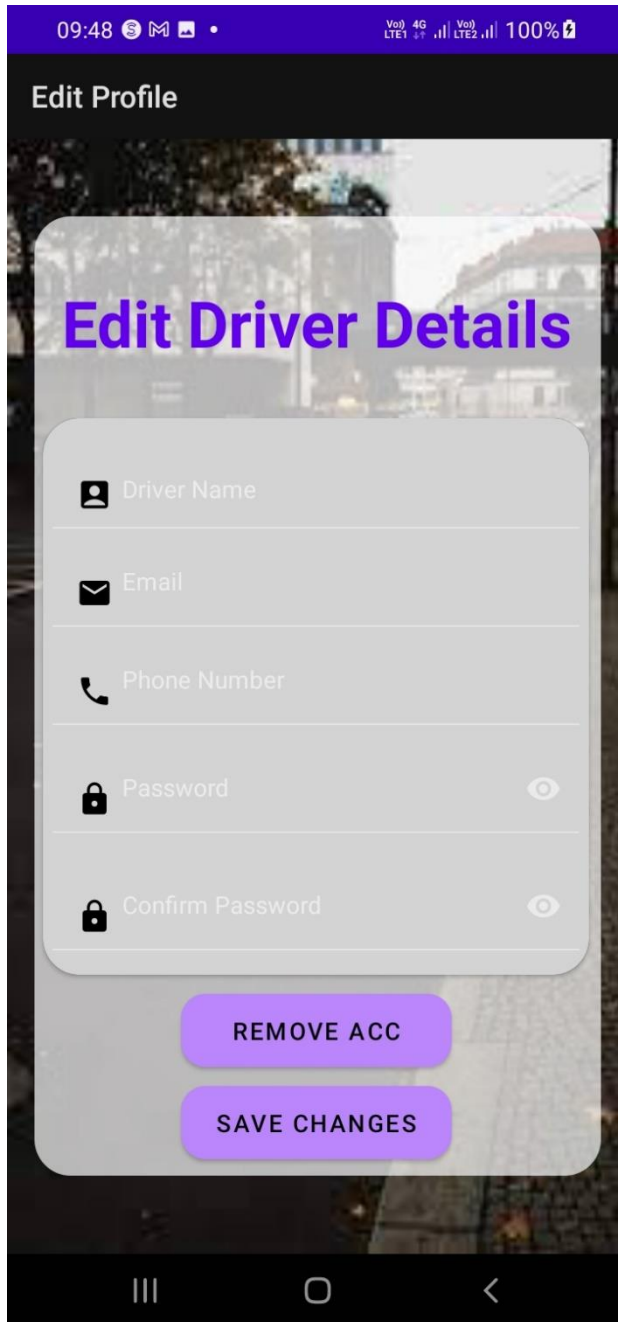
01.Menu Page



02. Driver Login Page



03.Edit Driver Details Page



The screenshot shows the 'Edit Profile' screen with a title bar 'Edit Profile'. The main heading is 'Edit Driver Details'. Below it, there are five input fields: 'Driver Name', 'Email', 'Phone Number', 'Password', and 'Confirm Password'. Each field has a corresponding icon (person, envelope, phone, lock) and a toggle eye icon for the password fields. At the bottom, there are two buttons: 'REMOVE ACC' and 'SAVE CHANGES'.

09:48 4G LTE1 100%

Edit Driver Details

Driver Name

Email

Phone Number

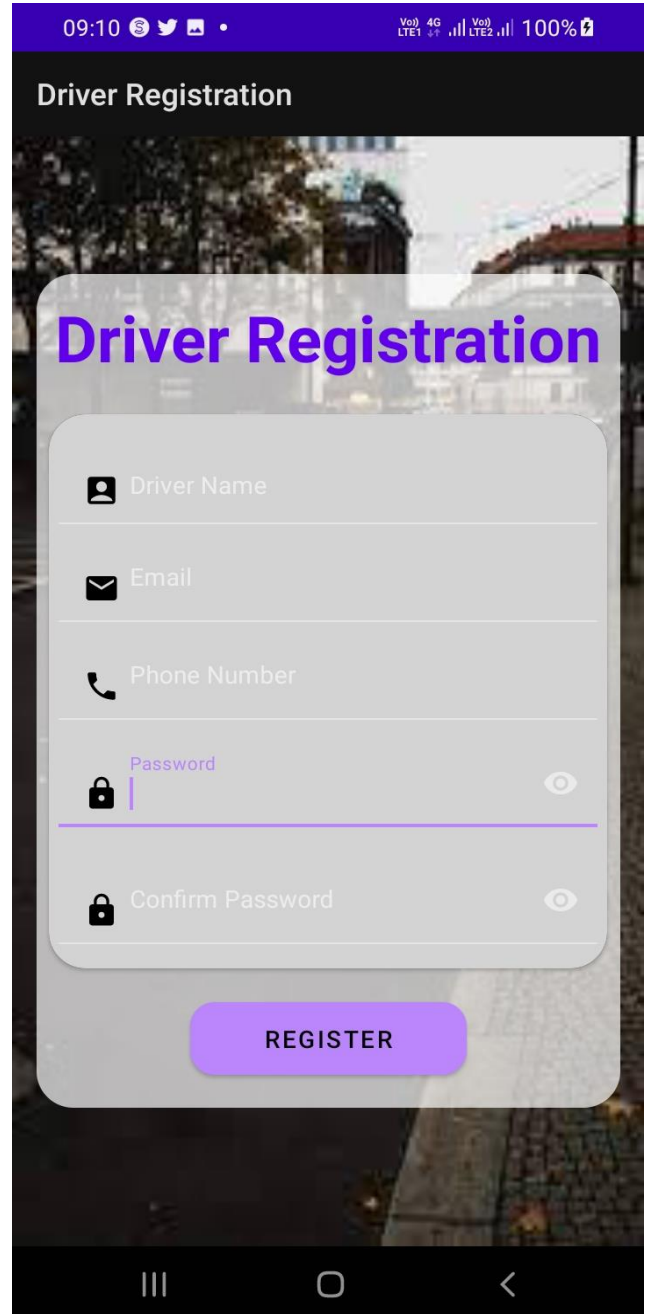
Password

Confirm Password

REMOVE ACC

SAVE CHANGES

04. Driver Registration Page



The screenshot shows the 'Driver Registration' screen with a title bar 'Driver Registration'. The main heading is 'Driver Registration'. Below it, there are five input fields: 'Driver Name', 'Email', 'Phone Number', 'Password', and 'Confirm Password'. Each field has a corresponding icon (person, envelope, phone, lock) and a toggle eye icon for the password fields. At the bottom, there is a single button: 'REGISTER'.

09:10 4G LTE1 100%

Driver Registration

Driver Name

Email

Phone Number

Password

Confirm Password

REGISTER

05.Make Reservation Page

09:05 VoD LTE1 4G VoD LTE2 100%

Book Now

Make Reservation

Date

Time

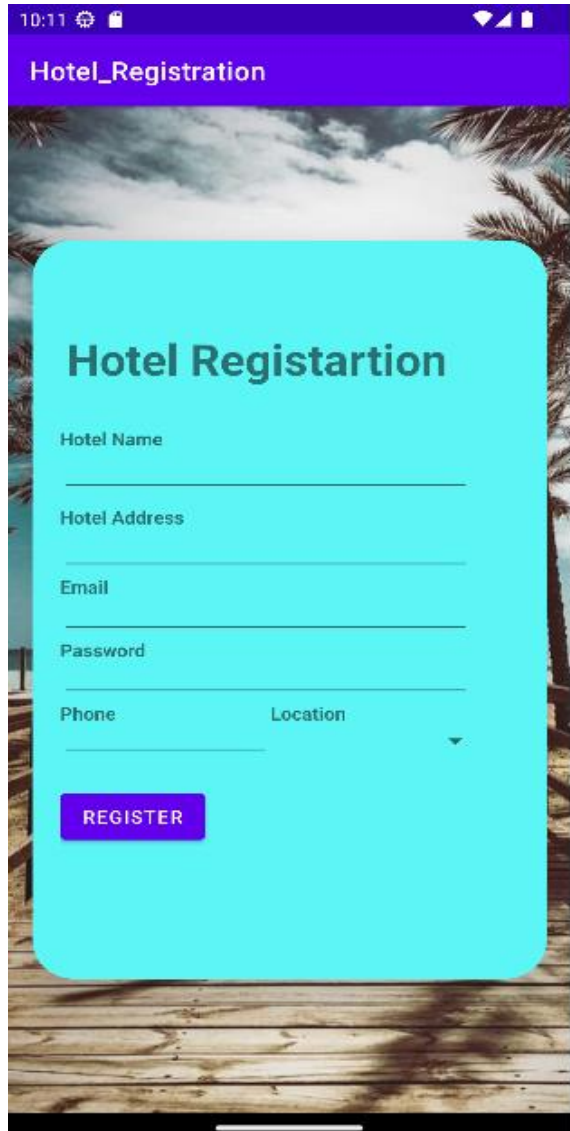
Phone Number

Pick-up location

Drop-off location

BOOK NOW

IT21193804 – Hotel Management System



10:11

Hotel_Registration

Hotel Registartion

Hotel Name

Hotel Address

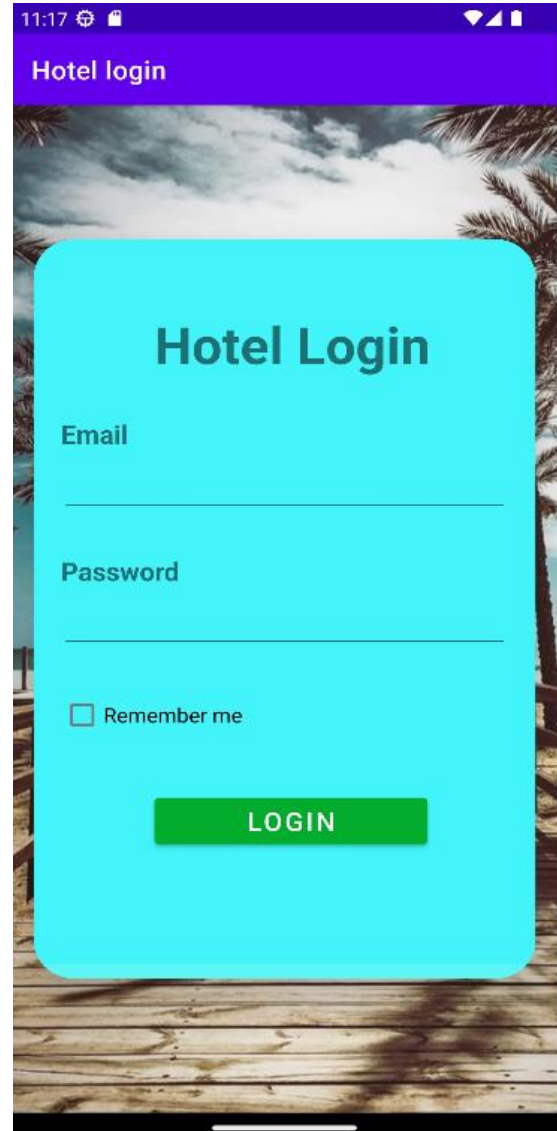
Email

Password

Phone Location

REGISTER

The registration screen features a purple header with the title 'Hotel_Registration'. Below the header is a light blue rounded rectangle containing the registration form. The form includes input fields for 'Hotel Name', 'Hotel Address', 'Email', and 'Password'. Below these is a row with 'Phone' and 'Location' (which has a dropdown arrow). At the bottom of the form is a red 'REGISTER' button. The background of the app is a tropical beach scene with palm trees and a wooden boardwalk.



11:17

Hotel login

Hotel Login

Email

Password

☐ Remember me

LOGIN

The login screen features a purple header with the title 'Hotel login'. Below the header is a light blue rounded rectangle containing the login form. The form includes input fields for 'Email' and 'Password'. Below these is a checkbox labeled 'Remember me'. At the bottom of the form is a red 'LOGIN' button. The background of the app is a tropical beach scene with palm trees and a wooden boardwalk.

11:00

Hotel Booking

Hotel Booking

Name

Email

Phone

District

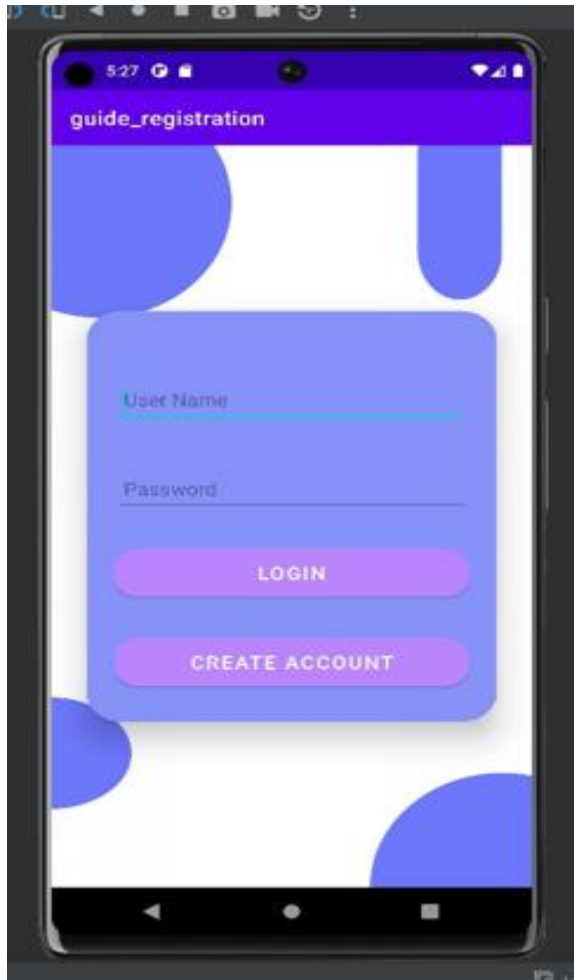
Hotel

Days

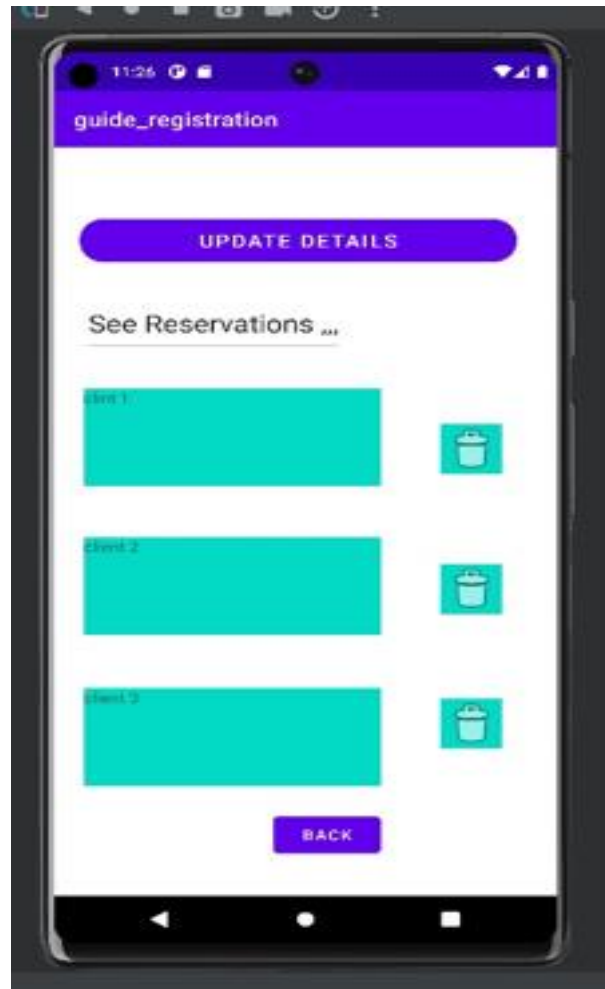
MAKE RESERVATION

IT21158568– Guide Registration and Selecting Guides

01. Guide Login Page



02. Home Page for Reservation



03. Guide Details Update Page

view_page_curd

User Name

Full Name

Password

.....

Contact Number

076 xxxxxxxx

Address

Address

NIC number

Type your NIC here

Area can cover :

Route

UPDATE ACCOUNT

DELETE ACCOUNT

04. Guide Save Details Page

guide_registration

User Name

Full Name

Password

.....

Contact Number

076 xxxxxxxx

Address

Address

NIC number

Type your NIC here

Area can cover :

Route

SAVE DETAILS

05.Admin Page for Control Guides



06. User Page for Reserve Guides



Screenshots of the usages of resources (String, colors, dimensions, ...)

IT21177514 – Foreigners Registration and Share Tour Experiences with other Users.

01.Colors

```
<?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="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>

    <!--Visit Sri Lanka Mobile Application-->
    <!--My Interfaces(IT21177514)-->
    <color name="mrtMainBackgroundColor">#FFDD99</color>
    <color name="mrtSubMainBackgroundColor">#FFFFFFFF</color>
    <color name="mrtInputFieldColor">#D9D9D9</color>
    <color name="mrtFontColor">#000000</color>
    <color name="mrtSubmitButtonColor">#d9d9d9</color>
</resources>
```

02. Strings

```
<resources>

    <string name="app_name">Visit Sri Lanka</string>

    <!--Create Account As Tourist Activity(cat)-->
    <string name="catHeading">Create Account as Tourist</string>
    <string name="catNameField">Name</string>
    <string name="catContactNumberField">Contact Number</string>
    <string name="catEmailField">Email</string>
    <string name="catCountryYouFromField">Country You From</string>
    <string name="catCreatePassword">Create a Password</string>
    <string name="catConfirmPassword">Confirm Password</string>
    <string name="catUploadProfilePictureButton">Upload Profile Picture</string>
    <string name="catCreateAccountButton">Create Account</string>

    <!--Sign In Activity(si)-->
    <string name="siHeading">Sign In</string>
    <string name="siEmailField">Email</string>
    <string name="siPassword">Password</string>
    <string name="siSubmitButton">Submit</string>

    <!--Share Your Experiences with Others Activity(syeo)-->
    <string name="syeHeading">Share Your Experiences with Others</string>
    <string name="syeNameField">Name of the Place</string>
    <string name="syeLocationField">Location</string>
    <string name="syeExperienceField">Describe Your Experience</string>
    <string name="syeUploadSomeImagesButton">Upload some Pictures</string>
    <string name="syeShareButton">Share</string>

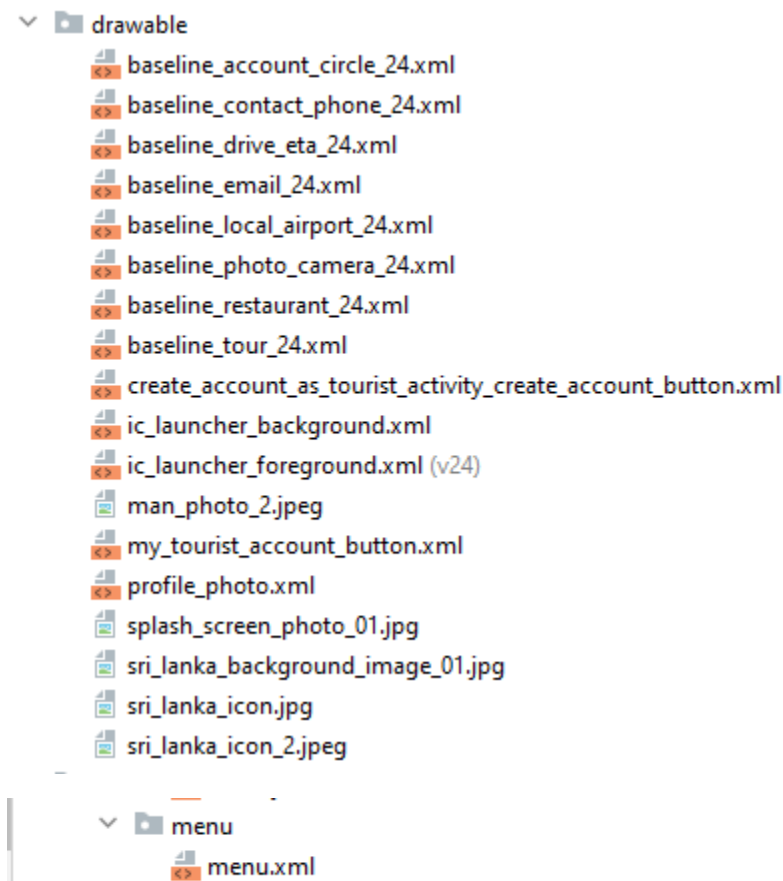
    <!--My Tourist Account Activity(mta)-->
    <string name="mtaWelcomeHeading">Welcome James</string>
    <string name="mtaTouristName">James Anderson</string>
    <string name="mtaTouristEmail">jamesanderson@gmail.com</string>
    <string name="mtaTouristContactNumber">0713456783</string>
    <string name="mtaTouristCountry">England</string>
    <string name="mtaShareYourExperiences">Share Your Experiences</string>
    <string name="mtaEditProfileButton">Edit Profile</string>
    <string name="mtaSignOutButton">Sign Out</string>
```

```

<!--Main Navigation Page Activity(mnp)-->
<string name="mnpWelcomeHeading">Welcome to Visit Sri Lanka Mobile Platform</string>
<string name="mnpCreateAccountAsTouristButton">Create Account as Tourist</string>
<string name="mnpHotelRegistrationButton">Hotel Registration</string>
<string name="mnpTourGuideRegistrationButton">Tour Guide Registration</string>
<string name="mnpTourDriverRegistrationButton">Tour Driver Registration</string>
<string name="mnpSignInButton">Sign In</string>
</resources>

```

03.Drawables



04.Dimensions

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <dimen name="background_padding">16dp</dimen>
    <dimen name="CardViewCornerRadius">10dp</dimen>
    <dimen name="CardViewElevation">5dp</dimen>
    <dimen name="CardViewMarginTop">30dp</dimen>

    <!--create account as tourist activity(cat)-->
    <dimen name="catHeadingSize">32sp</dimen>
    <dimen name="catHeadingMarginTop">10dp</dimen>
    <dimen name="catEditTextHeight">40dp</dimen>
    <dimen name="catEditTextPaddingLeft">10dp</dimen>
    <dimen name="catEditTextMarginTop">15dp</dimen>
    <dimen name="catUploadProfilePictureButtonHeight">40dp</dimen>
    <dimen name="catUploadProfilePictureButtonPaddingLeft">10dp</dimen>
    <dimen name="catUploadProfilePictureButtonMarginTop">15dp</dimen>
    <dimen name="catCreateAccountButtonElevation">5dp</dimen>
    <dimen name="catCreateAccountButtonMarginTop">20dp</dimen>
    <dimen name="catCreateAccountButtonPadding">20dp</dimen>
```

```

<!--sign in activity(si)-->
<dimen name="siHeadingSize">64sp</dimen>
<dimen name="siHeadingMarginTop">10dp</dimen>
<dimen name="siEditTextPaddingLeft">10dp</dimen>
<dimen name="siEditTextMarginTop">15dp</dimen>
<dimen name="siSubmitButtonElevation">5dp</dimen>
<dimen name="siSubmitButtonMarginTop">20dp</dimen>
<dimen name="siSubmitButtonPadding">15dp</dimen>
<dimen name="siSubmitButtonWidth">170dp</dimen>

<!--share your experiences with others activity(syeo)-->
<dimen name="syeoHeadingSize">64sp</dimen>
<dimen name="syeoHeadingMarginTop">10dp</dimen>
<dimen name="syeoEditTextPaddingLeft">10dp</dimen>
<dimen name="syeoEditTextMarginTop">15dp</dimen>
<dimen name="syeoEditTextHeight">40dp</dimen>
<dimen name="syeoUploadSomePictureButtonHeight">40dp</dimen>
<dimen name="syeoUploadSomePictureButtonPaddingLeft">10dp</dimen>
<dimen name="syeoUploadSomePictureButtonMarginTop">15dp</dimen>
<dimen name="syeoshareButtonElevation">5dp</dimen>
<dimen name="syeoshareButtonMarginTop">20dp</dimen>
<dimen name="syeoshareButtonPadding">20dp</dimen>
<dimen name="syeoshareButtonWidth">200dp</dimen>

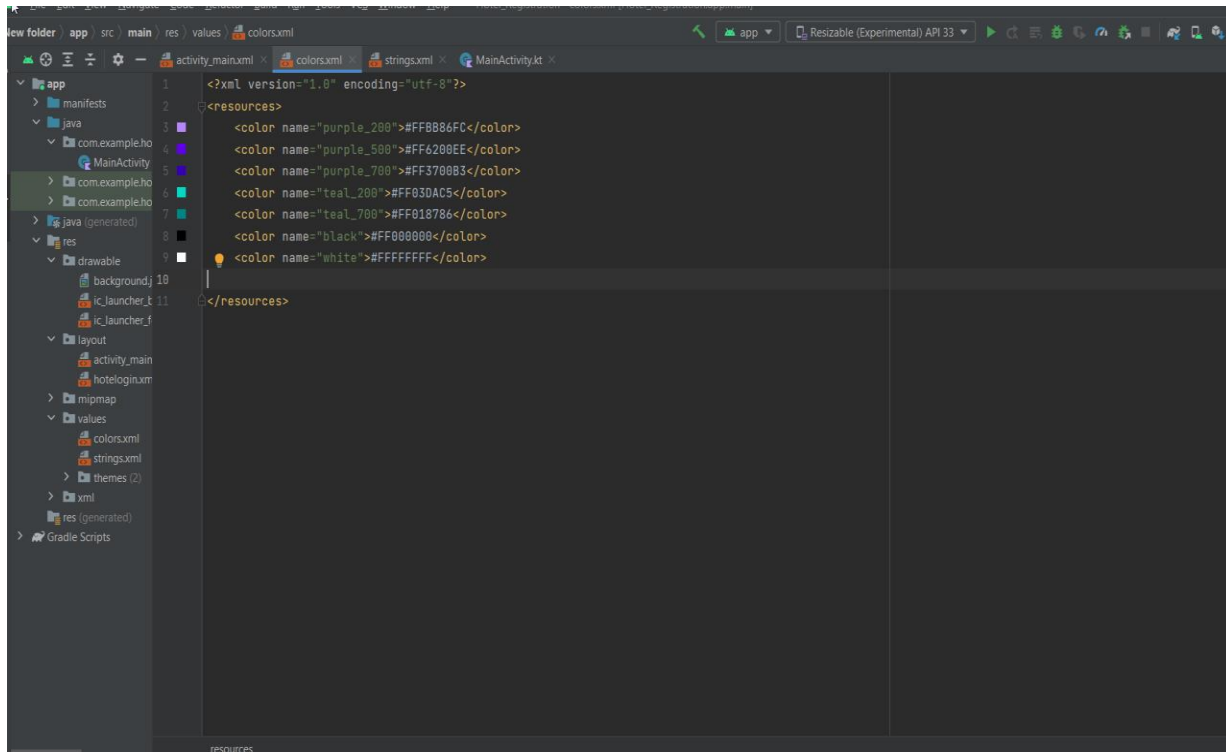
```

```
<!--my tourist account activity(mta)-->
<dimen name="mtaHeadingSize">64sp</dimen>
<dimen name="mtaImageViewWidth">300dp</dimen>
<dimen name="mtaImageViewHeight">300dp</dimen>
<dimen name="mtaImageViewMarginTop">10dp</dimen>
<dimen name="mtaTextViewHeight">40dp</dimen>
<dimen name="mtaTextViewMarginTop">15dp</dimen>
<dimen name="mtaTextViewPaddingLeft">10dp</dimen>
<dimen name="mtaShareButtonMarginTop">15dp</dimen>
<dimen name="mtaShareButtonPadding">15dp</dimen>
<dimen name="mtaShareButtonWidth">200dp</dimen>
<dimen name="mtaEditButtonMarginTop">15dp</dimen>
<dimen name="mtaEditButtonPadding">15dp</dimen>
<dimen name="mtaEditButtonWidth">150dp</dimen>
<dimen name="mtaSignOutButtonMarginLeft">40dp</dimen>
```

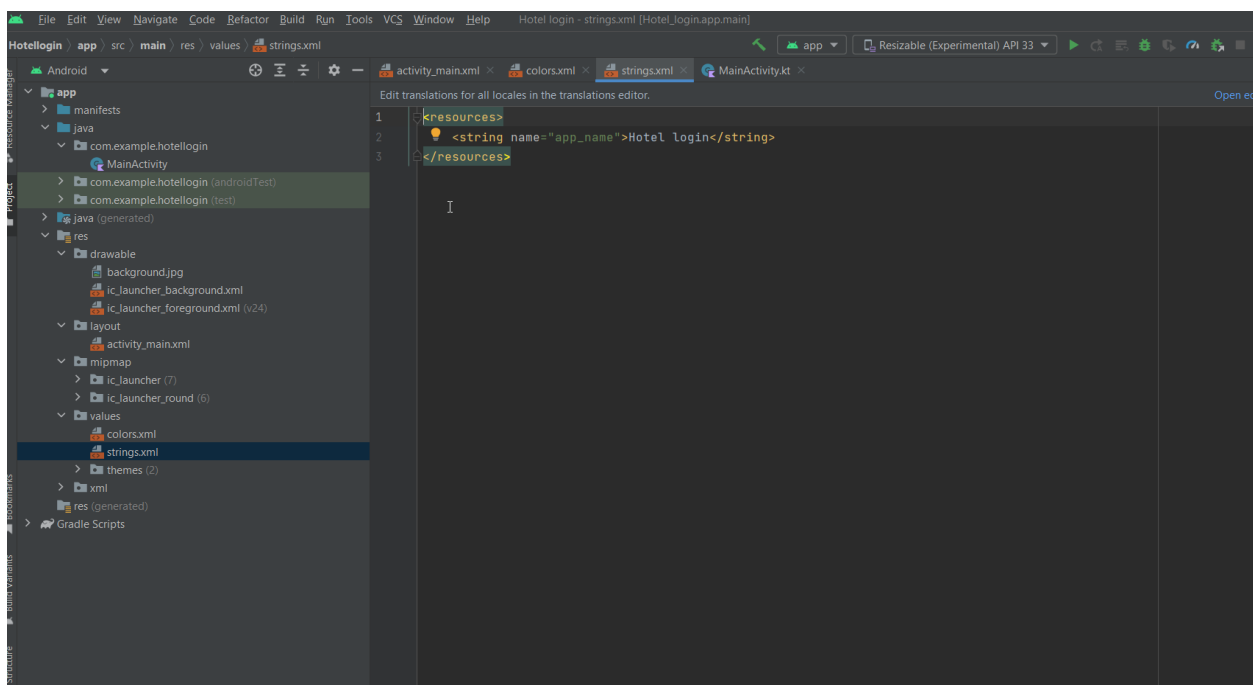
</resources>

IT21193804 – Hotel Management System

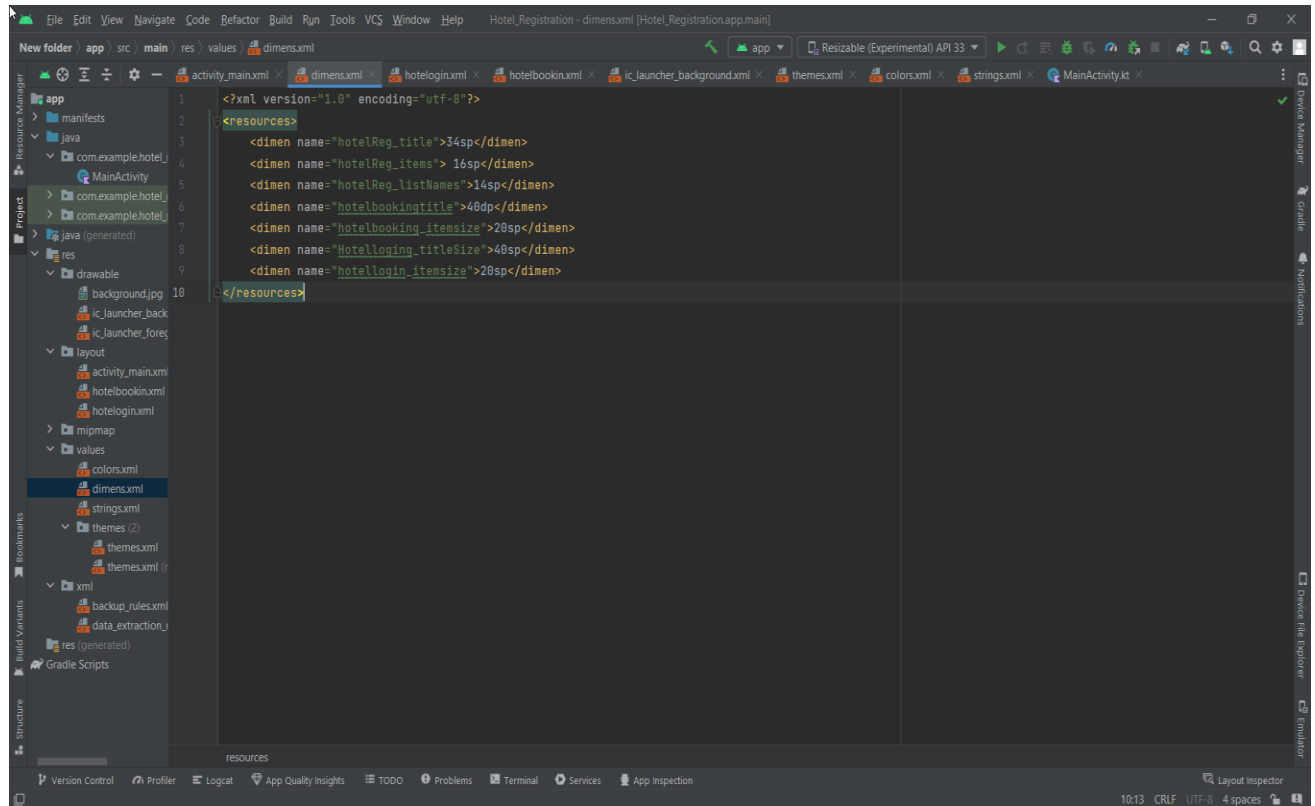
01.Colors



02.Strings

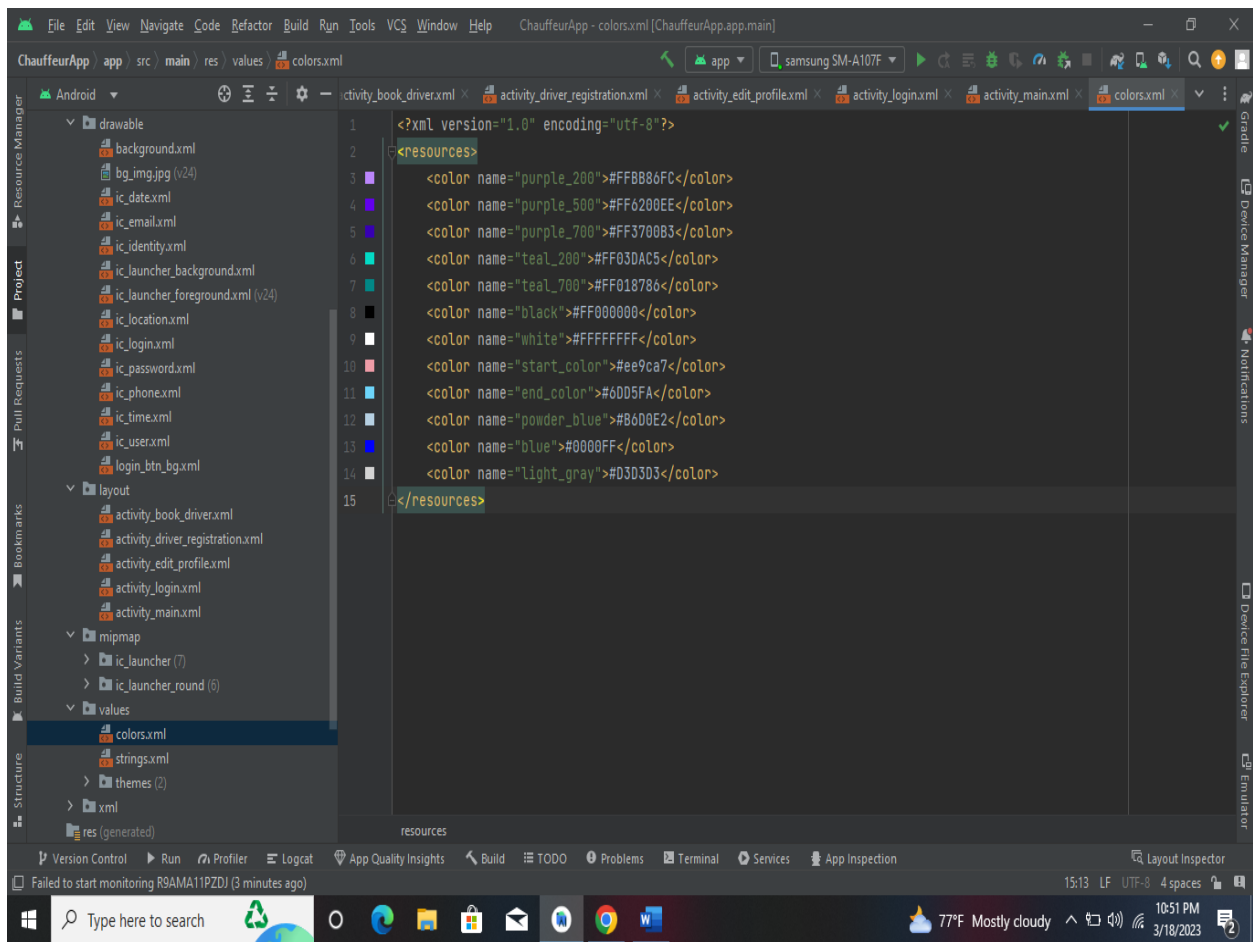


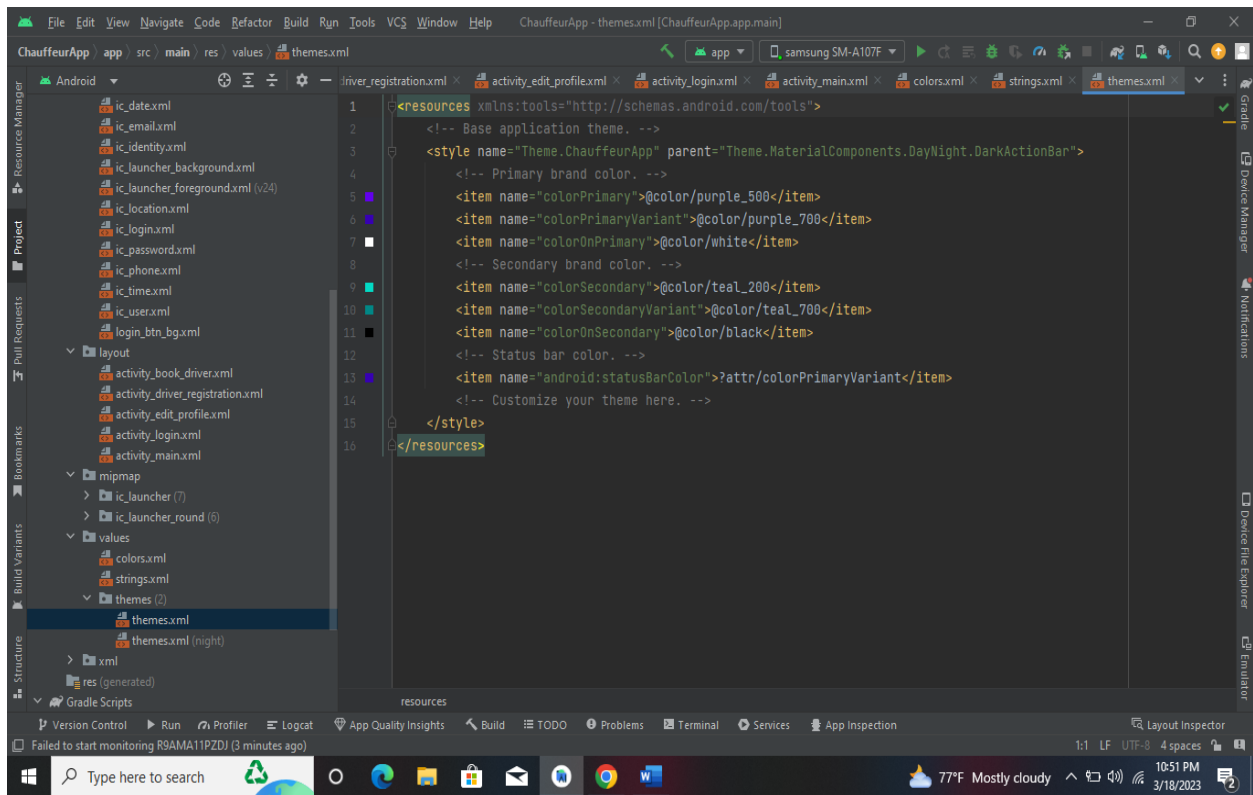
03.Dimensions



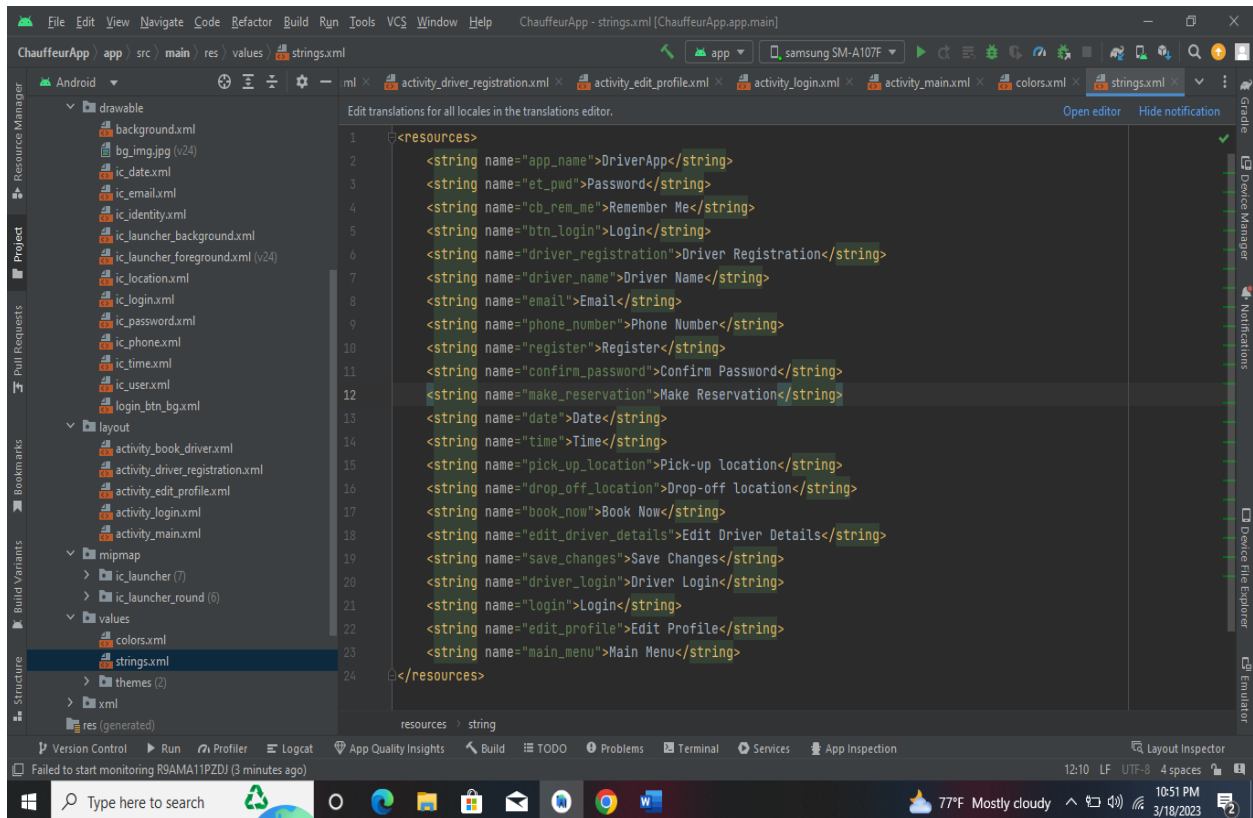
IT20012892– Driver Management System

01.Colors



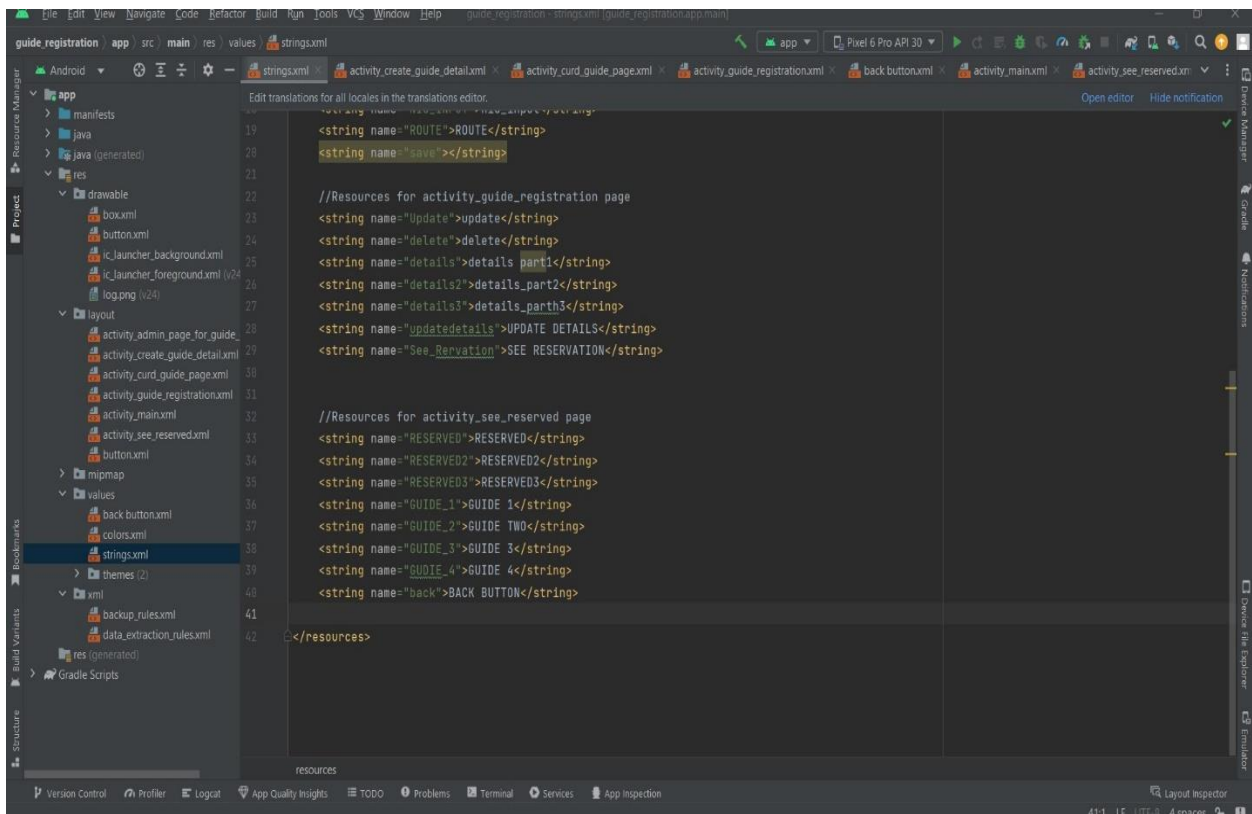
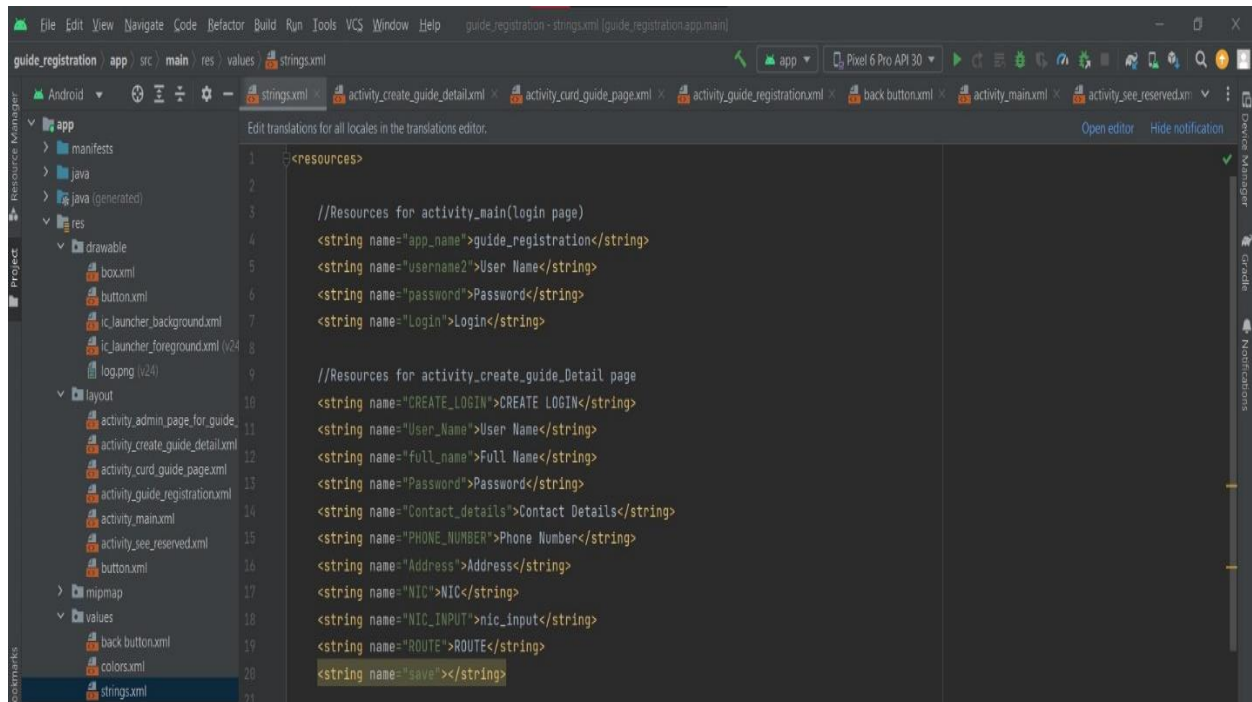


02.Strings

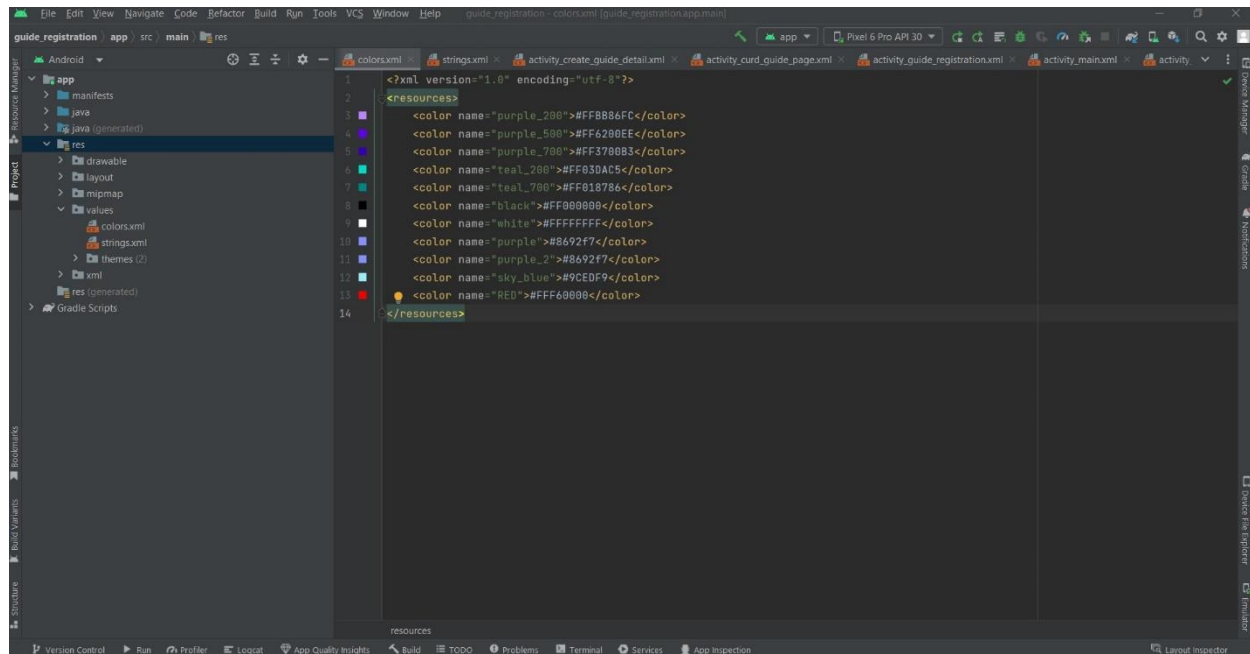


IT21158568– Guide Registration and Selecting Guides

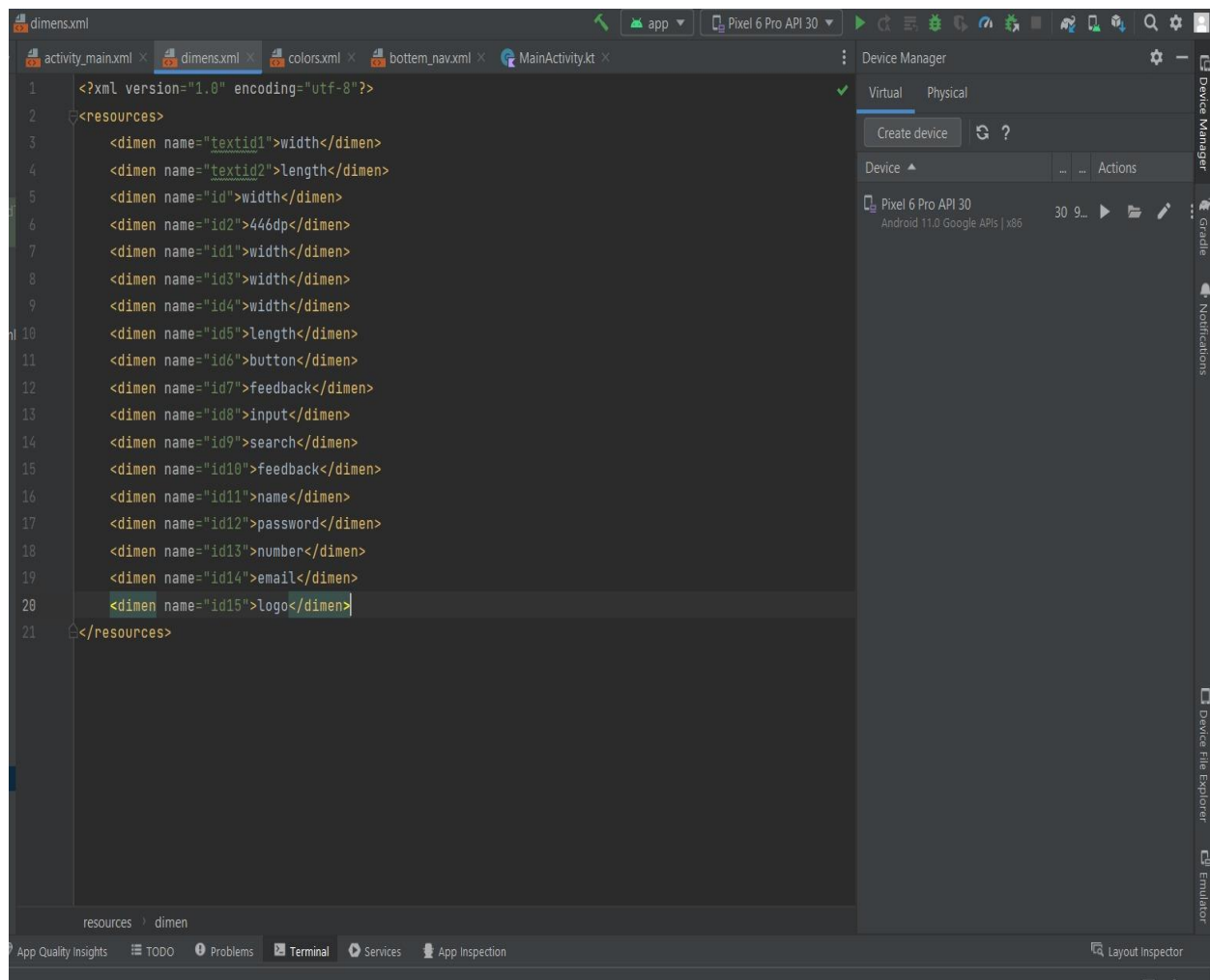
01.Strings



02. Colors



03.Dimensions



The End