## A Personalized Travel Planning and Tracking App

#### 1.INTRODUCTION

#### **Overview**

A personalized travel planning and tracking app developed in Android Studio is a mobile application that helps travellers plan and track their trips according to their preferences and needs. The app is designed to provide users with a personalized and seamless travel experience by offering a range of features that enable them to plan, book, and manage their trips all in one place.

The app enables users to plan their trips by setting up travel itineraries, selecting destinations, and creating a schedule. Users can also add details such as flights, accommodation, activities, and transportation to their itinerary. The app allows users to book their flights, hotels, and activities directly from the app. Users can also make payments through the app, making it a convenient and secure way to book and manage travel arrangements.

The app provides users with real-time updates on their travel plans, including flight delays, cancellations, and gate changes. Users can also track their luggage and receive alerts if their bags are delayed or misplaced. The app can be personalized according to users' preferences and needs. For example, users can customize their itineraries based on their budget, interests, and travel style.

The app enables users to share their travel plans and experiences with friends and family on social media. Users can also connect with other travellers and share tips and recommendations.

#### **Purpose**

The purpose of a personalized travel planning and tracking app developed in Android Studio is to provide users with a convenient and personalized tool for planning, managing, and tracking their travels. The app is designed to help users streamline the travel planning process and ensure a smooth and stress-free travel experience. The app enables users to plan their trips quickly and efficiently by providing tools and resources for itinerary planning, flight and hotel booking, transportation, and activity scheduling.

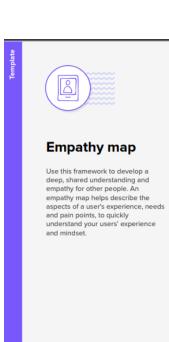
The app allows users to customize their travel plans based on their preferences and interests, ensuring that they have a personalized and enjoyable travel experience. The app provides users with real-time updates on their travel plans, including flight delays, cancellations, gate changes, and baggage tracking.

The app provides a secure platform for users to book their flights, hotels, and activities and make payments directly through the app, minimizing the risk of fraud and ensuring a hassle-free booking process.

The app allows users to track their travel plans, including flight and hotel reservations, transportation, and activities, providing a centralized and easy-to-access source of information.

# 2. Problem Definition & Design Thinking

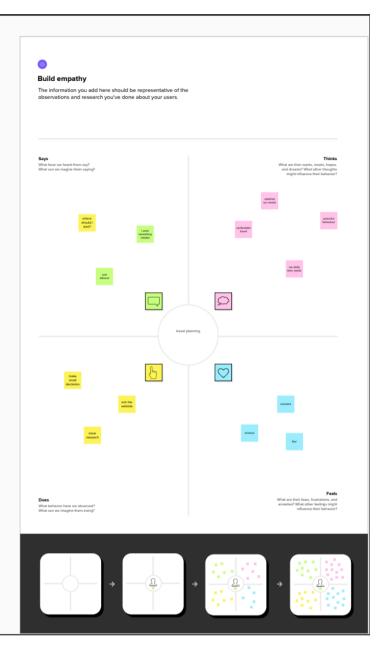
#### 2.1 Empathy Map



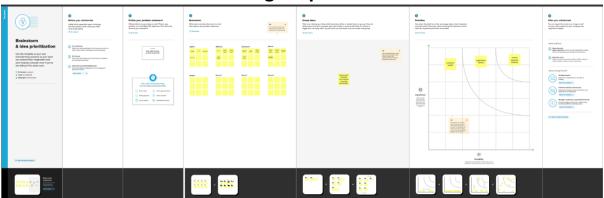
Need some Inspiration?
See a finished current of the temperate to backland your work.

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Share template feedback



## 2.2 Ideation and Brainstorming Map



# **RESULT**



# Register

Username pradheesh

Email pradheeshpv03@gmail.com

Password ....

Register

Have an account? Log in



# Login

Username pradheesh

Password .....

Login

Register Forget password?

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# Wanderlust Travel



Bali
Super saver pack with less than \$10000
7days/2persons



Paris
Super saver pack with less than \$10000
7days/2persons





#### Bali

Super saver pack with less than \$10000 7days/2persons



**Paris** 

Super saver pack with less than \$10000 7days/2persons



Singapore

Super saver pack with less than \$10000 7days/2persons

# Bali



Day 1: Arrival and Relaxation
Arrive in Bali and check into your hotel or
accommodation.
Spend the day relaxing and getting
acclimated to the island.
If you have time, explore the nearby area or
head to the beach.

Day 2: Ubud Tour Start your day early and head to Ubud, a cultural and artistic hub in Bali. Visit the Monkey Forest and the Ubud Palace.

Take a tour of the Tegalalang Rice Terrace, a beautiful UNESCO World Heritage Site. End your day with a traditional Balinese dance performance.

Day 3: Temple Hopping Visit some of Bali's most famous temples, such as Tanah Lot and Uluwatu.

# Paris



Day 1: Arrival and Introduction
Check into your accommodation and freshen
up
Take a stroll around the neighborhood to get
acquainted
Visit the Eiffel Tower, preferably in the
evening when it is lit up
Have a relaxing dinner at a nearby restaurant

Day 2: Art and History
Visit the Louvre Museum to see some of the
world's most famous art pieces
Stroll through the Tuileries Garden and the
Place de la Concorde
Visit the Orsay Museum, which houses a
large collection of impressionist art
Have dinner at a local French restaurant

Day 3: French Culture and Food Visit the Montmartre neighborhood to see the famous Basilique du Sacré-Cœur and 10:14 ★ انا 87

# Singapore



#### Day 1:

Morning: Visit Gardens by the Bay and marvel at the Supertree Grove and the Flower Dome and Cloud Forest conservatories.

Afternoon: Explore the Marina Bay Sands complex, which includes a casino, luxury shopping mall, and observation deck with a stunning view of the city.

#### Day 2:

Morning: Explore the historic district of Chinatown, including the Buddha Tooth Relic Temple and Museum and the Sri Mariamman Temple.

Afternoon: Visit the nearby Clarke Quay for lunch and to explore its waterfront restaurants, bars, and shops.

#### Day 3:

Morning: Take a tour of the UNESCO-listed

#### ADVANTAGES & DISADVANTAGES

### **Advantages**

- Customized travel plans: The app can help users create personalized travel plans based on their preferences, interests, and budget. It can suggest destinations, flights, hotels, and activities, and help users make informed decisions about their trip.
- Real-time updates: The app can provide real-time information about flights, weather, traffic, and other factors that can affect travel plans. Users can receive alerts and notifications about delays, cancellations, or other changes, and adjust their itinerary accordingly.
- Interactive maps: The app can offer interactive maps that allow users to explore their destination, find nearby attractions, and plan their routes. It can also provide directions and recommendations for restaurants, shops, and other places of interest.
- Social sharing: The app can allow users to share their travel experiences with friends and family through social media. It can also provide an opportunity for users to connect with other travellers and exchange tips and advice.

## **Disadvantages**

- Limited Device Compatibility: The app developed in Android Studio may not be compatible with all devices, limiting the number of people who can use the app. This may also affect the user experience of those who are able to use it if the app does not function properly on their device.
- Technical Issues: Any app developed in Android Studio may have technical issues such as bugs, crashes, and slow loading times. These issues can impact the user experience and make the app frustrating to use.
- Privacy Concerns: The app may require users to provide personal information such as their location, travel itinerary, and personal preferences in order to provide personalized recommendations. This may raise privacy concerns for some users who are not comfortable sharing this information.
- Dependence on Internet Connection: The app may require an internet connection to function properly, which could be problematic if the user is traveling to areas with limited or no internet access.
- Lack of Personal Touch: While the app can provide personalized recommendations based on the user's preferences and travel history, it may lack the personal touch and human interaction that some travellers prefer when planning their trips.

#### **APPLICATIONS**

- Customized Travel Planning: With a personalized travel planning app, users can create custom travel itineraries that cater to their preferences and interests. Users can input details about their budget, preferred activities, and travel dates, and the app will provide recommendations for accommodations, attractions, restaurants, and other activities that suit their interests.
- Real-time Tracking: Travelers can use the app to track their itinerary, monitor flight or train schedules, and receive real-time updates about changes or delays. This can help them stay on schedule and make necessary adjustments on the go.
- Location-based Recommendations: The app can use location data to provide personalized recommendations for nearby attractions, restaurants, and events. This feature can help travellers discover new places and experiences they may not have otherwise known about.
- Social Sharing: Users can share their travel plans, experiences, and recommendations with friends and family through social media or within the app. This can help build a community of travellers and provide useful insights and tips for others planning similar trips.

In conclusion, a Personalized Travel Planning and Tracking App developed in android studio can offer a wide range of benefits for both travellers and tourism industry professionals. With features such as customized travel planning, real-time tracking, location-based recommendations, social sharing, and analytics, the app can help users create personalized itineraries that cater to their interests and preferences, while also providing valuable insights for tourism industry professionals. As more people turn to technology for travel planning and organization, the development of such apps is likely to become increasingly important in the tourism industry.

#### **FUTURE SCOPE**

- Artificial Intelligence and Machine Learning: Integrating AI and machine learning capabilities into the app could allow it to learn from user behaviour and provide even more personalized recommendations and travel plans.
- Virtual Reality and Augmented Reality: Incorporating VR and AR technologies into the app could allow users to experience destinations and attractions virtually before they arrive, helping them make more informed travel decisions.
- Blockchain Technology: Implementing blockchain technology could help enhance the security and privacy of user data and transactions, which is especially important in the travel industry.
- Smart City Integration: Integrating with smart city technologies could allow the app to provide even more detailed and accurate recommendations based on real-time data about traffic, weather, and other factors.

• Sustainability and Responsible Tourism: As more travellers become conscious of the impact of their travel on the environment and local communities, the app could integrate features that promote sustainable and responsible tourism practices, such as eco-friendly accommodations and tours.

Overall, the future scope of a Personalized Travel Planning and Tracking App developed in android studio is vast, and there are many opportunities to continue enhancing and improving the app to meet the evolving needs of travellers and the tourism industry.

#### A. Source code

#### AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools">
  <application
    android:allowBackup="true"
    android:dataExtractionRules="@xml/data extraction rules"
    android:fullBackupContent="@xml/backup rules"
    android:icon="@mipmap/ic launcher"
    android:label="@string/app name"
    android:supportsRtl="true"
    android:theme="@style/Theme.TravelApp"
    tools:targetApi="31">
    <activity
       android:name=".RegisterActivity"
       android:exported="false"
       android:label="RegisterActivity"
       android:theme="@style/Theme.TravelApp" />
    <activity
       android:name=".SingaporeActivity"
       android:exported="false"
```

```
android:label="@string/title_activity_singapore"
  android:theme="@style/Theme.TravelApp" />
<activity
  android:name=".ParisActivity"
  android:exported="false"
  android:label="@string/title activity paris"
  android:theme="@style/Theme.TravelApp" />
<activity
  android:name=".BaliActivity"
  android:exported="false"
  android:label="@string/title activity bali"
  android:theme="@style/Theme.TravelApp" />
<activity
  android:name=".MainActivity"
  android:exported="true"
  android:label="@string/app name"
  android:theme="@style/Theme.TravelApp"/>
<activity
  android:name=".LoginActivity"
  android:exported="true"
  android:label="@string/app name"
  android:theme="@style/Theme.TravelApp">
  <intent-filter>
    <action android:name="android.intent.action.MAIN" />
```

#### BaliActivity.kt

package com.example.travelapp

import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.\*
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.verticalScroll
import androidx.compose.material.MaterialTheme
import androidx.compose.material.Surface
import androidx.compose.material.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier

```
import androidx.compose.ui.draw.scale
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.res.stringResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import com.example.travelapp.ui.theme.TravelAppTheme
class BaliActivity : ComponentActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContent {
       TravelAppTheme {
         // A surface container using the 'background' color from the
theme
         Surface(
           modifier = Modifier.fillMaxSize(),
           color = MaterialTheme.colors.background
         ) {
           PlaceOne()
```

```
}
@Composable
fun PlaceOne() {
  Column(modifier = Modifier.background(color = Color.White)
    .padding(20.dp)
    .verticalScroll(rememberScrollState())
  ) {
    Text(
       fontSize = 40.sp,
       color = Color(android.graphics.Color.rgb(120, 40, 251)),
       fontFamily = FontFamily.Cursive,
       text = stringResource(id = R.string.place_1),
    )
    Image(
       painterResource(id = R.drawable.bali), contentDescription =
       modifier = Modifier
         .padding(16.dp)
         .fillMaxWidth()
         .height(200.dp)
         .scale(scaleX = 1.2F, scaleY = 1F)
    )
    Text(
       color=Color.Black,
       text = "Day 1: Arrival and Relaxation\n" +
```

"Arrive in Bali and check into your hotel or accommodation.\n" +

"Spend the day relaxing and getting acclimated to the island. $\n'' +$ 

"If you have time, explore the nearby area or head to the beach. $\n'' +$ 

"\n" +

"Day 2: Ubud Tour\n" +

"Start your day early and head to Ubud, a cultural and artistic hub in Bali.\n" +

"Visit the Monkey Forest and the Ubud Palace.\n" +

"Take a tour of the Tegalalang Rice Terrace, a beautiful UNESCO World Heritage Site.\n" +

"End your day with a traditional Balinese dance performance.\n" +

"\n" +

"Day 3: Temple Hopping\n" +

"Visit some of Bali's most famous temples, such as Tanah Lot and Uluwatu.\n" +

"Take in the stunning views of the ocean and cliffs.\n" +

"Enjoy a sunset dinner at one of the many restaurants near the temples. $\n''$  +

"\n" +

"Day 4: Waterfalls and Beaches\n" +

"Take a day trip to Bali's beautiful waterfalls, such as Tegenungan or Gitgit.\n" +

"Spend the afternoon at one of Bali's world-renowned beaches, like Seminyak or Nusa Dua.\n" +

```
"\n" +
```

"Day 5: Island Hopping\n" +

"Take a day trip to one of Bali's neighboring islands, such as Nusa Lembongan or Gili Islands.\n" +

"Snorkel or scuba dive in the clear waters and relax on the beach.\n" +

"\n" +

"Day 6: Cultural Activities\n" +

"Visit a traditional Balinese village and learn about the island.\n" +

"\n" +

"Day 7: Departure\n" +

"Explore the surrounding area and take in the stunning sunset views.\n" +

"Have dinner at a local restaurant before returning to your accommodation."

)

}

### LoginActivity.kt

package com.example.travelapp

import android.content.Context import android.content.Intent import android.os.Bundle import androidx.activity.ComponentActivity import androidx.activity.compose.setContent import androidx.compose.foundation.Image import androidx.compose.foundation.background import androidx.compose.foundation.layout.\* import androidx.compose.material.\* import androidx.compose.runtime.\* import androidx.compose.ui.Alignment import androidx.compose.ui.Modifier import androidx.compose.ui.graphics.Color import androidx.compose.ui.layout.ContentScale import androidx.compose.ui.res.painterResource import androidx.compose.ui.text.font.FontFamily import androidx.compose.ui.text.font.FontWeight import androidx.compose.ui.text.input.PasswordVisualTransformation import androidx.compose.ui.tooling.preview.Preview import androidx.compose.ui.unit.dp import androidx.compose.ui.unit.sp

```
class LoginActivity : ComponentActivity() {
  private lateinit var databaseHelper: UserDatabaseHelper
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    databaseHelper = UserDatabaseHelper(this)
    setContent {
       LoginScreen(this, databaseHelper)
  }
@Composable
fun LoginScreen(context: Context, databaseHelper:
UserDatabaseHelper) {
  var username by remember { mutableStateOf("") }
  var password by remember { mutableStateOf("") }
  var error by remember { mutableStateOf("") }
  Column(
    modifier = Modifier.fillMaxSize().background(Color.White),
    horizontalAlignment = Alignment.CenterHorizontally,
    verticalArrangement = Arrangement.Center
  ) {
```

```
Image(painterResource(id = R.drawable.trav),
contentDescription = "")
    Text(
       fontSize = 36.sp,
       fontWeight = FontWeight.ExtraBold,
       fontFamily = FontFamily.Cursive,
       text = "Login"
    )
    Spacer(modifier = Modifier.height(10.dp))
    TextField(
       value = username,
       onValueChange = { username = it },
       label = { Text("Username") },
       modifier = Modifier.padding(10.dp)
         .width(280.dp)
    )
    TextField(
       value = password,
       onValueChange = { password = it },
       label = { Text("Password") },
       visualTransformation = PasswordVisualTransformation(),
       modifier = Modifier.padding(10.dp)
         .width(280.dp)
```

```
)
    if (error.isNotEmpty()) {
       Text(
         text = error,
         color = MaterialTheme.colors.error,
         modifier = Modifier.padding(vertical = 16.dp)
       )
     }
    Button(
       onClick = {
         if (username.isNotEmpty() && password.isNotEmpty()) {
            val user =
databaseHelper.getUserByUsername(username)
            if (user != null && user.password == password) {
              error = "Successfully log in"
              context.startActivity(
                 Intent(
                   context,
                   MainActivity::class.java
                 )
              //onLoginSuccess()
            else {
```

```
error = "Invalid username or password"
       }
     } else {
       error = "Please fill all fields"
     }
  },
  modifier = Modifier.padding(top = 16.dp)
) {
  Text(text = "Login")
}
Row {
  TextButton(onClick = {context.startActivity(
     Intent(
       context,
       RegisterActivity::class.java
     )
  )}
  { Text(text = "Register") }
  TextButton(onClick = {
  })
  {
     Spacer(modifier = Modifier.width(60.dp))
```

```
Text(text = "Forget password?")
}

private fun startMainPage(context: Context) {
  val intent = Intent(context, MainActivity::class.java)
  ContextCompat.startActivity(context, intent, null)
}
```

## MainActivity.kt

package com.example.travelapp

import android.content.Intent
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.\*
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.verticalScroll
import androidx.compose.material.Card
import androidx.compose.material.Text

import androidx.compose.runtime.Composable import androidx.compose.ui.Alignment import androidx.compose.ui.Modifier import androidx.compose.ui.draw.scale import androidx.compose.ui.graphics.Color import androidx.compose.ui.res.painterResource import androidx.compose.ui.res.stringResource import androidx.compose.ui.text.font.FontFamily import androidx.compose.ui.text.font.FontWeight import androidx.compose.ui.text.style.TextAlign import androidx.compose.ui.unit.dp import androidx.compose.ui.unit.sp class MainActivity : ComponentActivity() { override fun onCreate(savedInstanceState: Bundle?) { super.onCreate(savedInstanceState) setContent { TravelApp(this)

```
@Composable
fun TravelApp(context: Context) {
   Column(
```

```
modifier = Modifier
     .padding(20.dp)
     .verticalScroll(rememberScrollState())
) {
  Text(
     fontSize = 40.sp,
     color = Color(android.graphics.Color.rgb(120, 40, 251)),
     fontFamily = FontFamily.Cursive,
     text = "Wanderlust Travel"
  )
  Spacer(modifier = Modifier.height(20.dp))
  // 01
  Card(
     modifier = Modifier
       .fillMaxWidth()
       .height(250.dp)
       .clickable {
       context.startActivity(
          Intent(context, BaliActivity::class.java)
       )
```

```
},
         elevation = 8.dp
       )
         Column(
            horizontalAlignment = Alignment.CenterHorizontally
         ) {
            Image(
              painterResource(id = R.drawable.bali),
contentDescription = "",
              modifier = Modifier
                 .height(150.dp)
                 .scale(scaleX = 1.2F, scaleY = 1F)
            )
            Text(
              text = stringResource(id = R.string.place_1),
              fontSize = 18.sp
            )
            Text(
              text = stringResource(id = R.string.description),
              fontWeight = FontWeight.Light,
              fontSize = 16.sp,
              textAlign = TextAlign.Center,
```

```
)
            Text(
               text = stringResource(id = R.string.plan), color =
Color.Gray,
               fontSize = 16.sp
       }
       Spacer(modifier = Modifier.height(20.dp))
       //02
       Card(
          modifier = Modifier
            .fillMaxWidth()
            .height(250.dp)
            .clickable {
            context.startActivity(
               Intent(context, ParisActivity::class.java)
          elevation = 8.dp
       )
```

```
{
         Column(
            horizontalAlignment = Alignment.CenterHorizontally
         ) {
            Image(
              painterResource(id = R.drawable.paris),
contentDescription = "",
              modifier = Modifier
                 .height(150.dp)
                 .scale(scaleX = 1.2F, scaleY = 1F)
            )
            Text(
              text = stringResource(id = R.string.place 2),
              fontSize = 18.sp
            )
            Text(
              text = stringResource(id = R.string.description),
              fontWeight = FontWeight.Light,
              fontSize = 16.sp,
              textAlign = TextAlign.Center,
            )
            Text(
```

```
text = stringResource(id = R.string.plan), color =
Color.Gray,
              fontSize = 16.sp
       }
       Spacer(modifier = Modifier.height(20.dp))
       //03
       Card(
         modifier = Modifier
            .fillMaxWidth()
            .height(250.dp)
            .clickable {
            context.startActivity(
              Intent(context, SingaporeActivity::class.java)
            )
         elevation = 8.dp
       )
         Column(
            horizontalAlignment = Alignment.CenterHorizontally
         ) {
```

```
Image(
              painterResource(id = R.drawable.singapore),
contentDescription = "",
              modifier = Modifier
                 .height(150.dp)
                 .scale(scaleX = 1.2F, scaleY = 1F)
            )
            Text(
              text = stringResource(id = R.string.place 3),
              fontSize = 18.sp
            )
            Text(
              text = stringResource(id = R.string.description),
              fontWeight = FontWeight.Light,
              fontSize = 16.sp,
              textAlign = TextAlign.Center,
            )
            Text(
              text = stringResource(id = R.string.plan), color =
Color.Gray,
              fontSize = 16.sp
```

```
}
}
Spacer(modifier = Modifier.height(20.dp))
}
}
```

### ParisActivity.kt

package com.example.travelapp

import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.\*
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.verticalScroll
import androidx.compose.material.MaterialTheme
import androidx.compose.material.Surface
import androidx.compose.material.Text
import androidx.compose.material.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier

```
import androidx.compose.ui.draw.scale
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.res.stringResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import com.example.travelapp.ui.theme.TravelAppTheme
class ParisActivity : ComponentActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContent {
       TravelAppTheme {
         // A surface container using the 'background' color from the
theme
         Surface(
           modifier = Modifier.fillMaxSize(),
           color = MaterialTheme.colors.background
         ) {
           Greeting()
```

```
}
@Composable
fun Greeting() {
  Column(
    modifier = Modifier.background(color = Color.White)
       .padding(20.dp)
       .verticalScroll(rememberScrollState())
  ) {
    Text(
       fontSize = 40.sp,
       color = Color(android.graphics.Color.rgb(120, 40, 251)),
       fontFamily = FontFamily.Cursive,
       text = stringResource(id = R.string.place 2),
    )
    Image(
       painterResource(id = R.drawable.paris), contentDescription =
       modifier = Modifier
         .padding(16.dp)
         .fillMaxWidth()
         .height(200.dp)
         .scale(scaleX = 1.2F, scaleY = 1F)
    Text(
```

color=Color.Black,
text = "Day 1: Arrival and Introduction\n" +

"Check into your accommodation and freshen up\n" +

"Take a stroll around the neighborhood to get acquainted\n" +

"Visit the Eiffel Tower, preferably in the evening when it is lit up\n" +

"Have a relaxing dinner at a nearby restaurant\n" +

"\n" +

"Day 2: Art and History\n" +

"Visit the Louvre Museum to see some of the world's most famous art pieces\n" +

"Stroll through the Tuileries Garden and the Place de la Concorde\n" +

"Visit the Orsay Museum, which houses a large collection of impressionist art\n" +

"Have dinner at a local French restaurant\n" +

"\n" +

"Day 3: French Culture and Food\n" +

"Visit the Montmartre neighborhood to see the famous Basilique du Sacré-Cœur and Place du Tertre\n" +

"Explore the historic neighborhood of Le Marais\n" +

"Try some delicious French pastries at a local bakery\n" +

"Have dinner at a brasserie to taste some classic French
cuisine\n" +

"\n" +

"Day 4: Architecture and Gardens\n" +

"Visit the Palace of Versailles, a UNESCO World Heritage site, and explore its beautiful gardens\n" +

"Walk along the Champs-Elysées and stop at the Arc de Triomphe\n" +

"Visit the Sainte-Chapelle, a beautiful Gothic chapel with stunning stained-glass windows\n" +

"Have dinner at a local restaurant in the 7th arrondissement\n" +

"\n" +

"Day 5: Shopping and Sightseeing\n" +

"Visit the Notre-Dame Cathedral and climb up to the top for a stunning view of the city\n" +

"Explore the Latin Quarter and visit the Panthéon\n" +

"Go shopping at the famous Galeries Lafayette or Printemps department stores\n" +

"Have dinner at a local bistro\n" +

"\n" +

```
"Day 6: Parisian Parks and Museums\n" +
```

"Visit the Musée Rodin and explore its beautiful gardens\n" +

"Stroll through the Luxembourg Gardens and visit the Luxembourg Palace\n" +

"Visit the Centre Pompidou, a modern art museum in the Marais neighborhood\n" +

"Have dinner at a local restaurant in the Latin Quarter\n" +

"\n" +

"Day 7: River Cruise and Farewell\n" +

"Take a boat cruise along the Seine River to see the city from a different perspective\n" +

"Visit the Musée de l'Orangerie, which houses Monet's famous water lilies paintings\n" +

"Have a farewell dinner at a Michelin-starred restaurant"
)
}

# RegisterActivity.kt

package com.example.travelapp

}

import android.content.Context import android.content.Intent

```
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.*
import androidx.compose.material.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import\ and roid x. compose. ui. text. input. Password Visual Transformation
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.core.content.ContextCompat
class RegisterActivity : ComponentActivity() {
  private lateinit var databaseHelper: UserDatabaseHelper
  override fun onCreate(savedInstanceState: Bundle?) {
```

super.onCreate(savedInstanceState)

```
databaseHelper = UserDatabaseHelper(this)
    setContent {
       RegistrationScreen(this, databaseHelper)
    }
  }
}
@Composable
fun RegistrationScreen(context: Context, databaseHelper:
UserDatabaseHelper) {
  var username by remember { mutableStateOf("") }
  var password by remember { mutableStateOf("") }
  var email by remember { mutableStateOf("") }
  var error by remember { mutableStateOf("") }
  Column(
    modifier = Modifier.fillMaxSize().background(Color.White),
    horizontalAlignment = Alignment.CenterHorizontally,
    verticalArrangement = Arrangement.Center
  ) {
    Image(painterResource(id = R.drawable.tra), contentDescription
= "")
    Text(
```

```
fontSize = 36.sp,
  fontWeight = FontWeight.ExtraBold,
  fontFamily = FontFamily.Cursive,
  text = "Register"
)
Spacer(modifier = Modifier.height(10.dp))
TextField(
  value = username,
  onValueChange = { username = it },
  label = { Text("Username") },
  modifier = Modifier
    .padding(10.dp)
    .width(280.dp)
)
TextField(
  value = email,
  onValueChange = { email = it },
  label = { Text("Email") },
  modifier = Modifier
    .padding(10.dp)
    .width(280.dp)
)
```

```
value = password,
       onValueChange = { password = it },
       label = { Text("Password") },
       visualTransformation = PasswordVisualTransformation(),
       modifier = Modifier
         .padding(10.dp)
         .width(280.dp)
    )
    if (error.isNotEmpty()) {
       Text(
         text = error,
         color = MaterialTheme.colors.error,
         modifier = Modifier.padding(vertical = 16.dp)
     }
    Button(
       onClick = {
         if (username.isNotEmpty() && password.isNotEmpty() &&
email.isNotEmpty()) {
            val user = User(
              id = null,
```

TextField(

```
firstName = username,
          lastName = null,
          email = email,
          password = password
       )
       databaseHelper.insertUser(user)
       error = "User registered successfully"
       // Start LoginActivity using the current context
       context.startActivity(
          Intent(
            context,
            LoginActivity::class.java
          )
     } else {
       error = "Please fill all fields"
  },
  modifier = Modifier.padding(top = 16.dp)
) {
  Text(text = "Register")
Spacer(modifier = Modifier.width(10.dp))
Spacer(modifier = Modifier.height(10.dp))
```

```
Row() {
       Text(
          modifier = Modifier.padding(top = 14.dp), text = "Have an
account?"
       )
       TextButton(onClick = {
          context.startActivity(
            Intent(
               context,
              LoginActivity::class.java
       })
          Spacer(modifier = Modifier.width(10.dp))
          Text(text = "Log in")
       }
private fun startLoginActivity(context: Context) {
  val intent = Intent(context, LoginActivity::class.java)
  ContextCompat.startActivity(context, intent, null)
}
```

## SingaporeActivity.kt

package com.example.travelapp

import android.os.Bundle import androidx.activity.ComponentActivity import androidx.activity.compose.setContent import androidx.compose.foundation.Image import androidx.compose.foundation.background import androidx.compose.foundation.layout.\* import androidx.compose.foundation.rememberScrollState import androidx.compose.foundation.verticalScroll import androidx.compose.material.MaterialTheme import androidx.compose.material.Surface import androidx.compose.material.Text import androidx.compose.runtime.Composable import androidx.compose.ui.Modifier import androidx.compose.ui.draw.scale import androidx.compose.ui.graphics.Color import androidx.compose.ui.res.painterResource import androidx.compose.ui.res.stringResource import androidx.compose.ui.text.font.FontFamily import androidx.compose.ui.tooling.preview.Preview import androidx.compose.ui.unit.dp import androidx.compose.ui.unit.sp

import com.example.travelapp.ui.theme.TravelAppTheme

```
class SingaporeActivity : ComponentActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContent {
       TravelAppTheme {
         // A surface container using the 'background' color from the
theme
         Surface(
           modifier = Modifier.fillMaxSize(),
           color = MaterialTheme.colors.background
         ) {
           Greeting2()
}
@Composable
fun Greeting2() {
  Column(
    modifier = Modifier.background(color = Color.White)
       .padding(20.dp)
```

```
.verticalScroll(rememberScrollState())
  ) {
     Text(
       fontSize = 40.sp,
       color = Color(android.graphics.Color.rgb(120, 40, 251)),
       fontFamily = FontFamily.Cursive,
       text = stringResource(id = R.string.place 3),
     )
     Image(
       painterResource(id = R.drawable.singapore),
contentDescription = "",
       modifier = Modifier
          .padding(16.dp)
          .fillMaxWidth()
          .height(200.dp)
          .scale(scaleX = 1.2F, scaleY = 1F)
     )
     Text(
       color = Color.Black,
       text = "Day 1: n" +
```

"Morning: Visit Gardens by the Bay and marvel at the Supertree Grove and the Flower Dome and Cloud Forest conservatories.\n" +

"Afternoon: Explore the Marina Bay Sands complex, which includes a casino, luxury shopping mall, and observation deck with a stunning view of the city.\n" +

"Morning: Explore the historic district of Chinatown, including the Buddha Tooth Relic Temple and Museum and the Sri Mariamman Temple.\n" +

"Afternoon: Visit the nearby Clarke Quay for lunch and to explore its waterfront restaurants, bars, and shops.\n" +

"Morning: Take a tour of the UNESCO-listed Botanic Gardens, one of the world's most famous and significant tropical gardens.\n" +

"Afternoon: Head over to the National Museum of Singapore, which houses a vast collection of historical and cultural artifacts.\n" +

"Morning: Visit the Singapore Zoo and admire the wildlife, including orangutans, tigers, and elephants.\n" +

"Afternoon: Head over to Sentosa Island and relax at one of its many beaches or try some of the many attractions such as Universal Studios Singapore or Adventure Cove Waterpark.\n" +

"Morning: Go on a nature walk at MacRitchie Reservoir, which offers hiking trails and stunning views of the city skyline.\n" +

"Afternoon: Visit Little India, a vibrant and colorful neighborhood, and explore the shops, temples, and food stalls.\n" +

```
"\n" +
"Day 6:\n" +
```

"Morning: Explore the trendy neighborhood of Tiong Bahru, known for its hip cafes and boutiques, as well as its Art Deco architecture.\n" +

"Afternoon: Visit the National Gallery Singapore, which houses the largest public collection of modern art in Singapore and Southeast Asia.\n" +

```
"\n" +
"Day 7:\n" +
```

"Morning: Take a day trip to the nearby island of Pulau Ubin, where you can rent a "

```
)
}
}
```

#### User.kt

package com.example.travelapp

```
import androidx.room.Entity
import androidx.room.PrimaryKey
@Entity(tableName = "user table")
data class User(
  @PrimaryKey(autoGenerate = true) val id: Int?,
  @ColumnInfo(name = "first name") val firstName: String?,
  @ColumnInfo(name = "last name") val lastName: String?,
  @ColumnInfo(name = "email") val email: String?,
  @ColumnInfo(name = "password") val password: String?,
  )
                          UserDao.kt
package com.example.travelapp
import androidx.room.*
@Dao
interface UserDao {
  @Query("SELECT * FROM user table WHERE email = :email")
```

suspend fun getUserByEmail(email: String): User?

import androidx.room.ColumnInfo

```
@Insert(onConflict = OnConflictStrategy.REPLACE)
suspend fun insertUser(user: User)

@Update
suspend fun updateUser(user: User)

@Delete
suspend fun deleteUser(user: User)
}

UserDatabase.kt

package com.example.travelapp
```

```
import android.content.Context
import androidx.room.Database
import androidx.room.Room
import androidx.room.RoomDatabase

@Database(entities = [User::class], version = 1)
abstract class UserDatabase : RoomDatabase() {
   abstract fun userDao(): UserDao
```

```
companion object {
    @Volatile
    private var instance: UserDatabase? = null
    fun getDatabase(context: Context): UserDatabase {
       return instance ?: synchronized(this) {
         val newInstance = Room.databaseBuilder(
            context.applicationContext,
            UserDatabase::class.java,
            "user database"
         ).build()
         instance = newInstance
         newInstance
}
```

# UserDatabaseHelper.kt

package com.example.travelapp

import android.annotation.SuppressLint import android.content.ContentValues

```
import android.content.Context
import android.database.Cursor
import android.database.sqlite.SQLiteDatabase
import android.database.sqlite.SQLiteOpenHelper
class UserDatabaseHelper(context: Context):
  SQLiteOpenHelper(context, DATABASE NAME, null,
DATABASE VERSION) {
  companion object {
    private const val DATABASE VERSION = 1
    private const val DATABASE NAME = "UserDatabase.db"
    private const val TABLE NAME = "user table"
    private const val COLUMN ID = "id"
    private const val COLUMN FIRST NAME = "first name"
    private const val COLUMN LAST NAME = "last name"
    private const val COLUMN EMAIL = "email"
    private const val COLUMN PASSWORD = "password"
  }
  override fun onCreate(db: SQLiteDatabase?) {
    val createTable = "CREATE TABLE $TABLE NAME (" +
        "$COLUMN ID INTEGER PRIMARY KEY
AUTOINCREMENT, "+
        "$COLUMN FIRST NAME TEXT, "+
```

```
"$COLUMN LAST NAME TEXT, "+
        "$COLUMN EMAIL TEXT, " +
        "$COLUMN PASSWORD TEXT" +
        ")"
    db?.execSQL(createTable)
  }
  override fun on Upgrade (db: SQLiteDatabase?, oldVersion: Int,
newVersion: Int) {
    db?.execSQL("DROP TABLE IF EXISTS $TABLE NAME")
    onCreate(db)
  }
  fun insertUser(user: User) {
    val db = writableDatabase
    val values = ContentValues()
    values.put(COLUMN FIRST NAME, user.firstName)
    values.put(COLUMN LAST NAME, user.lastName)
    values.put(COLUMN EMAIL, user.email)
    values.put(COLUMN PASSWORD, user.password)
    db.insert(TABLE NAME, null, values)
    db.close()
  }
  @SuppressLint("Range")
```

```
fun getUserByUsername(username: String): User? {
    val db = readableDatabase
    val cursor: Cursor = db.rawQuery("SELECT * FROM
$TABLE NAME WHERE $COLUMN FIRST NAME = ?",
arrayOf(username))
    var user: User? = null
    if (cursor.moveToFirst()) {
      user = User(
        id = cursor.getInt(cursor.getColumnIndex(COLUMN ID)),
         firstName =
cursor.getString(cursor.getColumnIndex(COLUMN FIRST NAME))
         lastName =
cursor.getString(cursor.getColumnIndex(COLUMN LAST NAME)),
         email =
cursor.getString(cursor.getColumnIndex(COLUMN EMAIL)),
        password =
cursor.getString(cursor.getColumnIndex(COLUMN PASSWORD)),
      )
    }
    cursor.close()
    db.close()
    return user
  }
  @SuppressLint("Range")
  fun getUserById(id: Int): User? {
    val db = readableDatabase
```

```
val cursor: Cursor = db.rawQuery("SELECT * FROM
$TABLE NAME WHERE $COLUMN ID = ?",
arrayOf(id.toString()))
    var user: User? = null
    if (cursor.moveToFirst()) {
      user = User(
        id = cursor.getInt(cursor.getColumnIndex(COLUMN ID)),
         firstName =
cursor.getString(cursor.getColumnIndex(COLUMN FIRST NAME))
         lastName =
cursor.getString(cursor.getColumnIndex(COLUMN LAST NAME)),
         email =
cursor.getString(cursor.getColumnIndex(COLUMN EMAIL)),
        password =
cursor.getString(cursor.getColumnIndex(COLUMN PASSWORD)),
    }
    cursor.close()
    db.close()
    return user
  }
  @SuppressLint("Range")
  fun getAllUsers(): List<User> {
    val users = mutableListOf<User>()
    val db = readableDatabase
```

```
val cursor: Cursor = db.rawQuery("SELECT * FROM
$TABLE NAME", null)
    if (cursor.moveToFirst()) {
      do {
        val user = User(
           id =
cursor.getInt(cursor.getColumnIndex(COLUMN ID)),
           firstName =
cursor.getString(cursor.getColumnIndex(COLUMN FIRST NAME))
           lastName =
cursor.getString(cursor.getColumnIndex(COLUMN LAST NAME)),
           email =
cursor.getString(cursor.getColumnIndex(COLUMN EMAIL)),
           password =
cursor.getString(cursor.getColumnIndex(COLUMN PASSWORD)),
        users.add(user)
      } while (cursor.moveToNext())
    }
    cursor.close()
    db.close()
    return users
  }
}
```

#### Color.kt

```
package com.example.travelapp.ui.theme
import androidx.compose.ui.graphics.Color
val Purple200 = Color(0xFFBB86FC)
val Purple500 = Color(0xFF6200EE)
val Purple700 = Color(0xFF3700B3)
val Teal 200 = Color(0xFF03DAC5)
                            Shape.kt
package com.example.travelapp.ui.theme
import\ and roid x. compose. foundation. shape. Rounded Corner Shape
import androidx.compose.material.Shapes
import androidx.compose.ui.unit.dp
val Shapes = Shapes(
  small = RoundedCornerShape(4.dp),
  medium = RoundedCornerShape(4.dp),
  large = RoundedCornerShape(0.dp)
)
```

### Theme.kt

package com.example.travelapp.ui.theme

```
import androidx.compose.foundation.isSystemInDarkTheme
import androidx.compose.material.MaterialTheme
import androidx.compose.material.darkColors
import androidx.compose.material.lightColors
import androidx.compose.runtime.Composable
private val DarkColorPalette = darkColors(
  primary = Purple200,
  primaryVariant = Purple700,
  secondary = Teal 200
)
private val LightColorPalette = lightColors(
  primary = Purple500,
  primaryVariant = Purple700,
  secondary = Teal 200
  /* Other default colors to override
  background = Color. White,
  surface = Color. White,
```

onPrimary = Color. White,

```
onSecondary = Color.Black,
  onBackground = Color.Black,
  onSurface = Color.Black,
  */
)
@Composable
fun TravelAppTheme(darkTheme: Boolean =
isSystemInDarkTheme(), content: @Composable () -> Unit) {
  val colors = if (darkTheme) {
    DarkColorPalette
  } else {
    LightColorPalette
  }
  MaterialTheme(
    colors = colors,
    typography = Typography,
    shapes = Shapes,
    content = content
  )
}
```

Type.kt

package com.example.travelapp.ui.theme

import androidx.compose.material.Typography import androidx.compose.ui.text.TextStyle import androidx.compose.ui.text.font.FontFamily import androidx.compose.ui.text.font.FontWeight import androidx.compose.ui.unit.sp

```
// Set of Material typography styles to start with
val Typography = Typography(
  body1 = TextStyle(
    fontFamily = FontFamily.Default,
    fontWeight = FontWeight.Normal,
    fontSize = 16.sp
  /* Other default text styles to override
  button = TextStyle(
    fontFamily = FontFamily.Default,
    fontWeight = FontWeight. W500,
    fontSize = 14.sp
  ),
  caption = TextStyle(
    fontFamily = FontFamily.Default,
    fontWeight = FontWeight.Normal,
    fontSize = 12.sp
```

) \*/ )