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1. INTRODUCTION

Welcome to our Personalized Travel Planning and Tracking App! Our app is designed to provide you with a seamless and personalized travel experience, helping you plan and track your trips with ease. Whether you're a frequent traveler or planning a one-time trip, our app is your ultimate travel companion, offering a range of features to make your journey more convenient, enjoyable, and tailored to your preferences.

With our app, you can create and customize your travel itinerary, track your trips in real-time, connect with fellow travelers, access up-to-date travel information and services, prioritize travel security, and personalize your travel experience based on your interests and preferences. Our app aims to make your travel planning and tracking process efficient, organized, and personalized, so you can have a stress-free and enjoyable trip.

Key Features:

Itinerary Planning: Plan your trip with ease using our app's itinerary planning feature. You can create a personalized travel itinerary, including flights, accommodation, transportation, and activities, tailored to your interests and preferences. You can set reminders and notifications for important events, ensuring you stay on track during your trip.

Trip Tracking: Our app allows you to track your trips in real-time, providing you with accurate information about your flight, train, or bus schedules. You can view your travel history, including past trips and upcoming bookings, all in one place, making it easy to stay organized and informed.

Traveler Connectivity: Stay connected with your fellow travelers using our app's builtin social features. You can create travel groups, chat with your travel companions, and share your travel plans and experiences, fostering a sense of community and enhancing your travel experience. Travel Information and Services: Our app provides you with up-to-date travel information and services, such as local weather, currency exchange rates, and travel advisories. You can also book local tours, activities, and transportation services directly from the app, saving you time and effort.

Travel Security: We prioritize your travel security, and our app offers features such as storing important travel documents securely, and emergency features like SOS alerts and location sharing for added safety during your trip.

Personalization: Our app is designed to be personalized to your preferences and interests. You can set up your profile, including your travel preferences, interests, and loyalty programs, to receive personalized recommendations, offers, and promotions, making your travel experience tailored to your individual preferences.

Our Personalized Travel Planning and Tracking App is your go-to travel companion, offering a range of features and services to make your trip organized, efficient, and personalized. Download our app now and embark on your next adventure with confidence!

1.1 Overview:

Our personalized travel planning and tracking app is designed to offer a seamless and convenient travel experience for users. With a range of features and functionalities, our app aims to simplify trip planning, enhance trip tracking, foster traveler connectivity, provide travel information and services, prioritize travel security, and offer personalization options. Users can create and customize their travel itinerary, track their trips in real-time, stay connected with fellow travelers, access up-to-date travel information, store important travel documents securely, and receive personalized recommendations and offers based on their preferences. Our app is the ultimate travel companion for travelers seeking a personalized and hassle-free travel experience.

1.2 Purpose:

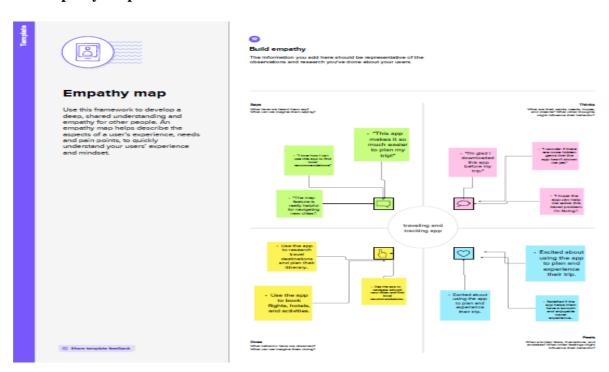
The purpose of our personalized travel planning and tracking app is to provide travelers with a comprehensive and convenient tool to plan, organize, and track their trips in a personalized way. The app aims to enhance the travel experience by offering features that simplify trip planning, provide real-time trip tracking, facilitate traveler connectivity, offer travel information and services, prioritize travel security, and allow for personalization based on individual preferences and interests.

The app is designed to cater to the needs of various types of travelers, including frequent travelers, occasional travelers, solo travelers, group travelers, and families. It aims to streamline the travel planning process, provide up-to-date information, facilitate communication and connection among travelers, offer convenient access to essential travel services, prioritize travel security, and provide personalized recommendations and offers based on user profiles.

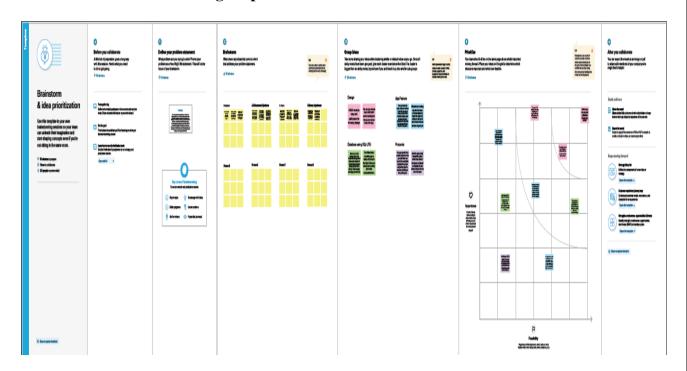
Overall, the purpose of our personalized travel planning and tracking app is to empower travelers with a comprehensive and personalized tool that enhances their travel experience, makes trip planning and tracking more efficient, and offers convenient access to essential travel services, while prioritizing travel security and personalization based on individual preferences and interests.

2 PROBLEM DEFINITION & DESIGN THINKING

2.1 Empathy Map:



2.2.Ideation & Brainstorming Map:



3. RESULT

Final Output of the Application:

Login Page:



Login

Username

Password

Login

Register

Forget password?

RegisterPage:



Username

Email

Password

Register

Have an account? Log in

MainPage:

Wanderlust Travel



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



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



Singapore

Location Page:

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.

Take in the stunning views of the ocean and cliffs.

Enjoy a sunset dinner at one of the many restaurants near the temples.

4. ADVANTAGES & DISADVANTAGES

Advantages of a Personalized Travel Planning and Tracking App:

Customized Itineraries: A personalized travel planning and tracking app allows users to create and customize their travel itineraries based on their preferences, interests, and travel style. This ensures that the trip is tailored to the individual traveler's needs, providing a more personalized and enjoyable experience.

Real-time Trip Tracking: With a travel tracking app, users can track their trips in real-time, providing accurate information about flight, train, or bus schedules, and any changes or delays. This helps travelers stay updated and plan their itinerary accordingly, minimizing disruptions and ensuring smoother travel.

Traveler Connectivity: Many personalized travel planning and tracking apps come with social features that allow users to connect with fellow travelers, create travel groups, chat, and share plans and experiences. This fosters a sense of community and enables travelers to connect with like-minded individuals or travel companions.

Access to Travel Information and Services: These apps provide access to up-to-date travel information such as weather, currency exchange rates, and travel advisories, helping users make informed decisions during their trip. Additionally, they often offer booking services for local tours, activities, and transportation, providing convenience and saving time for travelers.

Enhanced Travel Security: Personalized travel planning and tracking apps often include security features such as storing important travel documents securely, emergency alerts, and location sharing, which can help travelers stay safe during their trip and provide peace of mind.

Disadvantages of a Personalized Travel Planning and Tracking App:

Reliance on Technology: Personalized travel planning and tracking apps heavily rely on technology and internet connectivity. In case of technical glitches, app crashes, or poor internet connectivity, the functionality and reliability of the app may be compromised, leading to inconvenience for travelers.

Privacy Concerns: These apps may require users to share personal information, such as travel plans, preferences, and loyalty program details, which may raise privacy concerns for some users. It's important for users to review the app's privacy policy and understand how their data is collected, stored, and used.

App Compatibility: Not all personalized travel planning and tracking apps may be compatible with all devices or operating systems. Some apps may only be available on certain platforms or require specific hardware or software specifications, limiting their accessibility for some users.

Cost: While some personalized travel planning and tracking apps may be free to download and use, others may come with subscription fees or in-app purchases for premium features. This may add to the overall cost of travel for users on a budget.

User Learning Curve: Personalized travel planning and tracking apps may have a learning curve for users who are not familiar with technology or may not be tech-savvy. Users may need to invest time in learning how to use the app effectively, which may be a disadvantage for some travelers.

5. APPLICATIONS

The personalized travel planning and tracking app can be applied in various areas to cater to different types of travelers and travel needs. Some of the areas where this solution can be applied include:

Individual Travelers: The app can be used by individual travelers who are planning their trips and want to track their itinerary in a personalized way. It allows them to create and customize their travel plans, track their trips in real-time, and access relevant travel information and services, all in one app.

Group Travelers: The app is also ideal for group travelers who want to stay connected and organized during their trip. It enables them to create travel groups, chat with fellow travelers, share itineraries and experiences, and plan activities together.

Business Travelers: Business travelers can benefit from the app's itinerary planning and tracking features to manage their work-related trips efficiently. They can track their flights, accommodation, and transportation, set reminders for important events, and access essential travel information on the go.

Adventure Travelers: Adventure travelers who are looking for personalized travel experiences can use the app to plan and track their adventure trips. They can customize their itineraries based on their interests, book local tours and activities, and stay connected with other adventure travelers.

Family Travelers: The app can be used by families to plan and track their trips in a personalized way. They can create a family travel itinerary, share plans and experiences, and use the app's safety features for added security during their travels.

Solo Travelers: Solo travelers can benefit from the app's tracking and connectivity features, providing them with a sense of security and convenience during their solo trips. They can track their trips, connect with fellow travelers, and access relevant travel information in one place.

Loyalty Program Members: The app can cater to travelers who are members of loyalty programs, allowing them to store and access their loyalty program information, receive personalized offers, and manage their loyalty points within the app.

Travel Service Providers: The app can also be used by travel service providers, such as tour operators, hotels, and transportation companies, to offer personalized itineraries, services, and promotions to their customers, enhancing their travel experience.

Overall, the personalized travel planning and tracking app can be applied in various areas to cater to the diverse needs of travelers, providing them with a convenient, enjoyable, and personalized travel experience.

6. CONCLUSION

In conclusion, our personalized travel planning and tracking app is designed to provide travelers with a comprehensive and convenient tool for managing their trips. From trip tracking and itinerary planning to traveler connectivity, travel information and services, travel security, and personalization, our app offers a range of features that cater to the needs and preferences of modern travelers.

The app allows users to easily track their trips in real-time, plan their itineraries with flexibility, stay connected with fellow travelers, access up-to-date travel information, and avail essential services such as booking tours and activities. It also prioritizes travel security by offering features like storing important travel documents securely and emergency alerts.

Moreover, the app offers personalization options that allow users to customize their travel preferences, interests, and loyalty programs, providing personalized recommendations and offers. This makes the app adaptable to individual travel styles and enhances the overall travel experience.

In conclusion, our personalized travel planning and tracking app is a comprehensive travel companion that aims to make travel planning, tracking, and management seamless, enjoyable, and secure. With its user-friendly interface and robust features, our app is a valuable tool for modern travelers to enhance their travel experience. Download our app today and embark on your next adventure with confidence!

7. FUTURE SCOPE

The field of travel planning and tracking apps is constantly evolving, and there are several potential enhancements that can be made in the future to further improve the user experience. Some potential future scope enhancements for a personalized travel planning and tracking app could include:

Artificial Intelligence (AI) and Machine Learning (ML) Integration: Leveraging AI and ML technologies to provide more personalized and intelligent recommendations for travel planning, such as tailored travel itineraries, customized recommendations for activities and attractions based on user preferences, and predictive analytics for flight delays or cancellations.

Augmented Reality (AR) and Virtual Reality (VR) Integration: Integrating AR and VR technologies to offer immersive experiences for travel planning and exploration. For example, using AR to provide virtual tours of destinations or using VR to allow users to virtually experience accommodations before booking.

Enhanced Social Features: Expanding the social features of the app to facilitate more seamless and interactive communication among travelers, such as real-time language translation for multilingual conversations, group trip planning and booking, and collaborative travel itinerary creation.

Sustainability and Eco-Friendly Travel: Incorporating features that promote sustainable travel practices, such as information on eco-friendly accommodations, carbon footprint tracking, and tips for reducing environmental impact during travel, to cater to the increasing demand for sustainable and responsible travel options.

Integration with Smart Devices: Integrating with smart devices and Internet of Things (IoT) technologies to enhance the overall travel experience, such as smart luggage tracking, smart

hotel room controls, and personalized recommendations based on location and user preferences.

Enhanced Travel Security Features: Continuously improving travel security features, such as advanced biometric authentication for secure document storage, real-time safety alerts, and emergency assistance services, to ensure the safety and security of travelers.

Personalized Travel Budgeting and Expense Tracking: Incorporating features that allow users to set and manage their travel budgets, track expenses, and receive personalized recommendations for cost-effective travel options, helping users better manage their travel finances.

Integration with Travel Providers and Booking Platforms: Strengthening partnerships and integrations with travel providers, airlines, hotels, and booking platforms to offer seamless booking and reservation experiences within the app, making it a one-stop-shop for all travel needs.

Enhanced Data Privacy and Security: Continuously improving data privacy and security measures to protect user information and ensure compliance with data protection regulations, such as GDPR and CCPA.

As technology advances and user needs evolve, there are endless possibilities for future enhancements in personalized travel planning and tracking apps. These enhancements have the potential to revolutionize the way travelers plan, track, and experience their trips, providing them with more convenience, personalization, and satisfaction in their travel journeys.

8. APPENDIX

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\ and roid x. compose. ui. text. input. Password V isual 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 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),
    horizontal Alignment = Alignment. Center Horizontally, \\
    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)
}
```

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 V isual 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.fill Max Size ().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)
)
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() && email.isNotEmpty()) {
       val user = User(
         id = null,
         firstName = username,
```

```
lastName = null,
         email = email,
         password = password
       database Helper.insert User (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)

}
```

MainActivity.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.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)
         . vertical Scroll (remember Scroll State ()) \\
    ) {
       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))
}
```

}