

Wanderlust: A Personalized Travel Planning and Tracking App

Abstract:

The Wanderlust App is designed to be a comprehensive travel planning and tracking tool, particularly beneficial for digital nomads and frequent travelers.

Key feature of Wanderlust include:

- **Personalized Recommendations:** Get tailored suggestions for destinations, activities, and accommodations based on your travel preferences and style.
- **Effortless Planning:** Simplify your trip planning with curated recommendations and itineraries, saving you time and effort.
- **Real-Time Assistance:** Benefit from an AI travel assistant that offers real-time support throughout your journey, ensuring you don't miss out on must-see attractions and hidden gems.
- **Travel Tracking:** Use the virtual passport feature to keep track of all the places you've visited.
- **Community and Sharing:** Connect with other travelers, share your experiences, and get insider tips from locals.

Introduction:

A Personalized Travel Planning and Tracking App is designed to revolutionize the way you plan and experience your travels. This app leverages advanced AI technology to provide personalized recommendations, streamline the planning process, and offer real-time assistance throughout your journey. Whether you're a seasoned traveler or planning your first big adventure, Wanderlust aims to make your travel experiences more enjoyable, efficient, and memorable.

Project Description:

A Personalized Travel Planning and Tracking App is designed to enhance the travel experience by leveraging advanced AI technology.

Objectives

- **Enhance User Experience:** Make travel planning more intuitive and enjoyable.
- **Increase Efficiency:** Reduce the time and effort required to plan trips.
- **Provide Real-Time Support:** Ensure users have access to helpful information and assistance throughout their travels.
- **Foster Community:** Create a platform for travelers to connect and share experiences.

Target Audience

- **Digital Nomads:** Individuals who work remotely and travel frequently.
- **Frequent Travelers:** People who travel often for leisure or business.
- **First-Time Travelers:** Individuals planning their first major trip who need guidance and support.

Technology Stack

- **AI and Machine Learning:** For personalized recommendations and real-time assistance.
- **Mobile Development:** Native app development for iOS and Android platforms.
- **Cloud Services:** For data storage, user authentication, and real-time updates.

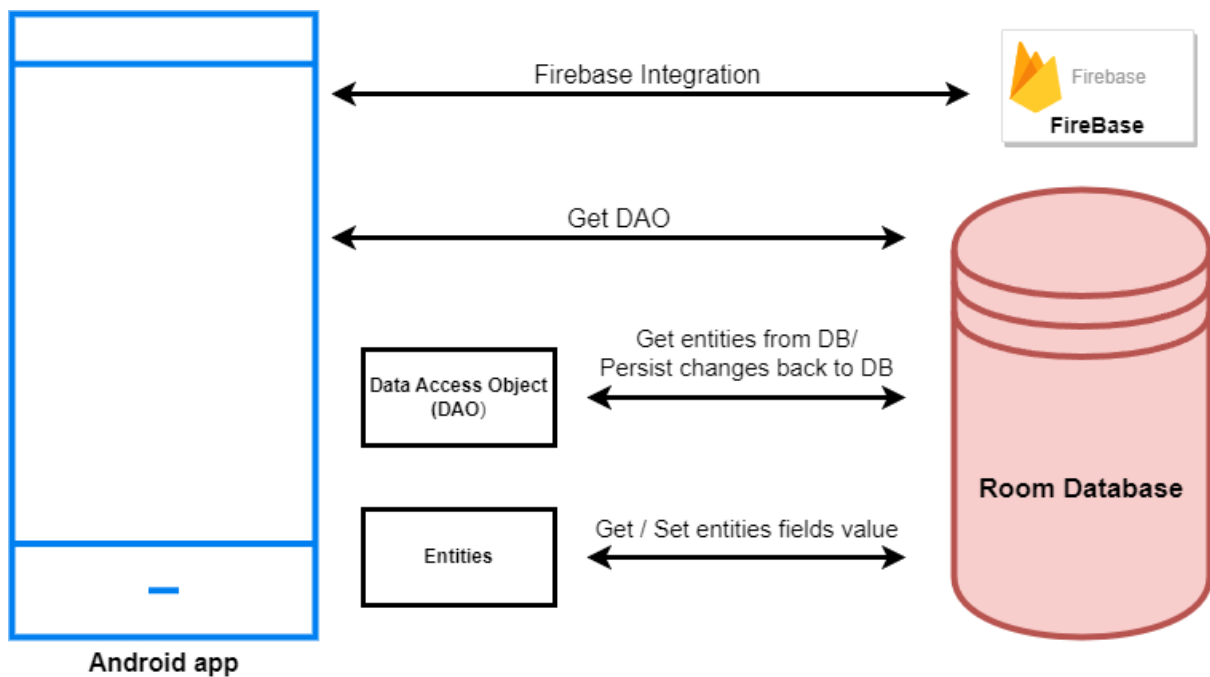
System Requirements:

- **Operating System:** Android-7 or later
- **Ram:**1Gb (Minimum)
- **Rom:**20Mb (Minimum)
- Internet connection

Tools Used:

- Android Studio
- Firebase
- Kotlin

Architecture:



Tasks:

1. .Required initial steps
2. Creating a new project
3. Integrating Firebase and Authentication
4. .Creating UI files
5. Running the application.

Program:

User.kt

```
package com.example.travelapp

import androidx.room.ColumnInfo
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?,

)
```

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
        }
    }
}

```

Output:

Wanderlust Travel



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



Password
●●●|

Login

[Forget password?](#)

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.

Day 4: Waterfalls and Beaches

Take a day trip to Bali's beautiful waterfalls, such as Tegenungan or Gitgit.
Spend the afternoon at one of Bali's world-renowned beaches, like Seminyak or Nusa Dua.

Day 5: Island Hopping

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



Register

Username

Email

Password

Register

Have an account? [Log in](#)

Conclusion:

Wanderlust is designed to be a comprehensive travel companion, making the process of planning and experiencing travel more seamless and enjoyable. By leveraging AI and fostering a community of travelers, the app aims to transform the way people explore the world.

Future Scope:

1. **Augmented Reality (AR) Integration:** Implement AR features to provide interactive guides and immersive experiences at travel destinations.
2. **Advanced AI Personalization:** Enhance AI algorithms to offer even more precise and personalized travel recommendations based on user behavior and preferences.
3. **Multi-Language Support:** Expand language options to cater to a global audience, making the app accessible to non-English speakers.
4. **Offline Mode:** Develop offline capabilities to ensure users can access essential information and itineraries without an internet connection.
5. **Sustainability Features:** Introduce eco-friendly travel options and tips to promote sustainable tourism practices.