

# **MOBILE DEVELOPMENT LAB– PROJECT SYNOPSIS**

## **Journey Genie: Travel Planning Application**

### **Objective:**

To develop a comprehensive travel planning and management application tailored for Android users, focusing on advanced user accessibility features.

### **Scope:**

The scope of the project encompasses the following key areas:

#### Key Features and Functionalities:

- User-friendly Interface
- Trip Planning Module
- Real-time Weather Updates
- Interactive Maps Integration
- Location Specific Suggestions
- Database Management
- Itinerary Management
- Backend Integration
- Accessibility Features

#### Constraints:

- Compatibility with Android platform.
- Utilization of Kotlin programming language.
- Integration with designated APIs for weather and maps.

#### Assumptions:

- Availability of necessary APIs for weather and maps integration.
- Access to required development tools and technologies.
- Target users will have smartphones running Android OS.

#### Exclusions:

- Integration with platforms other than Android.
- Development in languages other than Kotlin/Java.
- Inclusion of features not directly related to travel planning and management.

### Dependencies:

- Availability and reliability of external APIs.
- Timely completion of backend development for seamless integration.
- Accessibility guidelines and standards for implementing accessibility features.

### Acceptance Criteria:

- Successful implementation of all key features.
- Error-free functionality across different Android devices.

### Risks and Uncertainties:

- Technical challenges in integrating third-party APIs.
- Potential security vulnerabilities in the app's database management.

## **Project Description:**

Our project, the Journey Genie app, endeavors to deliver a feature-rich travel planning and management solution tailored exclusively for Android users. Our primary goal is to ensure a seamless experience for travelers by offering intuitive trip planning tools, access to diverse travel-related information, and efficient itinerary management capabilities.

Journey Genie boasts a user-friendly interface and advanced accessibility features, catering to travelers of all abilities. Our focus lies in providing an inclusive experience that empowers users to plan their trips effortlessly. Through Journey Genie, users can not only plan their itineraries but also access real-time weather updates and explore destinations using interactive maps. Additionally, they can discover various activities and attractions tailored to their preferences.

Key functionalities of Journey Genie include comprehensive trip planning tools, efficient itinerary management features, and seamless integration with backend services for real-time weather updates and database management. Developed using Kotlin, the Journey Genie app ensures compatibility with the Android platform while leveraging APIs for weather and maps to deliver accurate and up-to-date information to users.

With Journey Genie, our aim is to revolutionize travel planning for Android users, offering a holistic solution that caters to their diverse needs and preferences. Through continuous improvement and innovation, Journey Genie strives to elevate the travel experience, making it more accessible, convenient, and enjoyable for users worldwide.

## **Software Requirements:**

Language: Kotlin

Database: Firebase

## Submitted by

Name	Registration number	Roll Number	Semester & Branch	Section
Joshita Bolisetty	210953070	10	VI (CCE)	A
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## Individual Responsibilities:

**Snigdha Shambhavi Jha**: Frontend and design of all facets of the mobile application

**Shubhanshu Verma**: API integration (APIs for weather and maps)

**Joshita Bolisetty**: Backend implementation, database design and integration of the components