

## **Project Title = Smart Travel Checklist + Expense Splitter**

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**Project definition :-** "Smart Travel Checklist + Expense Splitter is a mobile application that helps users create packing checklists for their trips, track all travel-related expenses, and manage expense sharing among group participants. The app makes trip preparation, cost management, and organized travel planning simple and efficient."

Project panel :- User panel

Project Module :-

### **1. Authentication Module:**

- User Registration
- User Login
- Forgot Password

### **2. Trip Management Module:**

- Add new trip (name, destination, dates)
- View all trips in list
- Edit/delete trip

### **3. Travel Checklist Module:**

- Create Trip Checklist
- Add Packing Items
- Mark Items as Done / Pending
- Edit / Delete Items
- Prioritize Items
- Auto-progress indicator (%)

### **4. Group Members Module:**

- Add member name, contact
- Edit/delete members
- Member list linked to trip

## **5. Expense Management Module:**

- Add expenses with:
  - Title
  - Amount
  - Paid By (select member)
  - Category (Food, Travel, Stay, Shopping)
  - Store expenses per trip
- View all expenses in list
- Edit/delete expenses

## **6. Expense Splitter Module:**

- Auto-calculate each member's share:  
$$\text{Individual Share} = \text{Total Expense} \div \text{Total Members}$$
- Amount paid by each
- Amount each should pay
- Final balance: who should pay/receive
- Simplified settlement view

## **7. Reports & Summary Module:**

- Checklist completion percentage
- Member list
- Expense breakdown by category
- Total trip cost

## **8. PDF Export Module:**

- Trip details
- Checklist progress
- Members
- Full expense export
- Settlement Calculation
- Save PDF Locally

## **Abstraction:-**

- Smart Travel Checklist + Expense Splitter is a mobile application developed using Kotlin in Android Studio.
- Helps users create packing checklists for trips.
- Tracks all travel-related expenses efficiently.
- Allows users to add, edit, and delete trip participants.
- Uses Expense Splitting Module to automatically share each member's expenses.
- Features an Expense Tracker, Checklist Tracker, and Progress Dashboard.
- Monitors member contributions, owed amounts, and reimbursements.
- Firebase Authentication secures user login.
- MYSQL Database stores user credentials and trip data safely.
- Dashboard shows total trip expenses, per-member shares, checklist completion, and category-wise expense reports with visual graphs and charts.
- Ensures organized trip preparation, transparent expense management, and a smooth travel planning experience.