

Trails

*Submitted in the partial fulfillment for the award of
the degree of*

BACHELOR OF ENGINEERING

IN

Games and Graphics

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DISCOVER . LEARN . EMPOWER

Outline

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Introduction to Project

- The Indian travel market is a large and growing market, with over 1.2 billion people traveling domestically each year.
- There is a need for a travel planning app that is specifically designed for Indian travelers, as most existing apps are not tailored to the needs of Indian travelers.

The Trails App

- The Trails app is a mobile travel planning app that is designed specifically for Indian travelers.
- It uses recommendation systems, multimodal trip planning, and sustainable travel promotion to help users plan trips that are tailored to their individual needs and preferences.

Recommendation Systems

- The Trails app uses recommendation systems to suggest travel destinations, activities, and restaurants based on the user's travel preferences, location history, and social network connections.
- This helps users to discover new places and experiences that they might not have found on their own.

Multimodal Trip Planning

- The Trails app helps users plan trips that involve multiple modes of transportation, such as public transportation, walking, and cycling.
- This is important in India, where public transportation is often the most efficient and affordable way to travel.

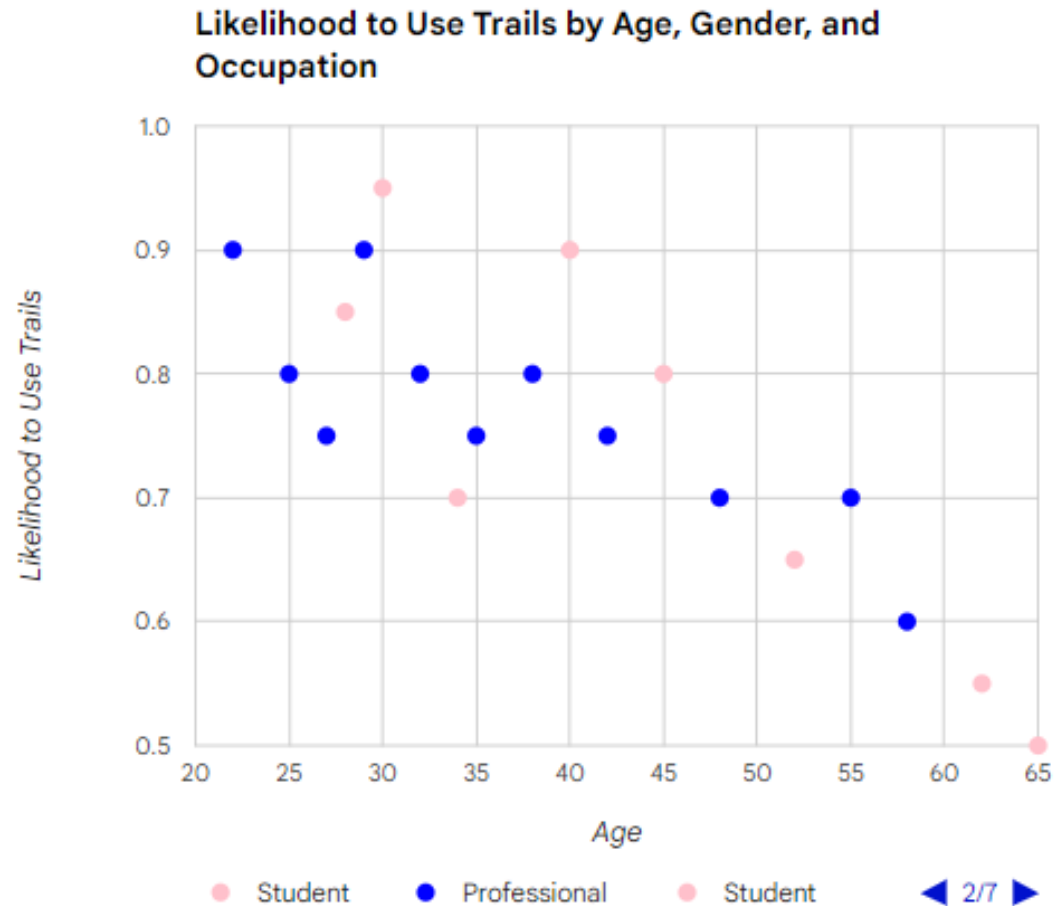
Sustainable Travel Promotion

- The Trails app promotes sustainable travel practices by providing users with information about the environmental impact of different travel options.
- The app also helps users to find sustainable travel destinations and activities.

User Testing and Evaluation

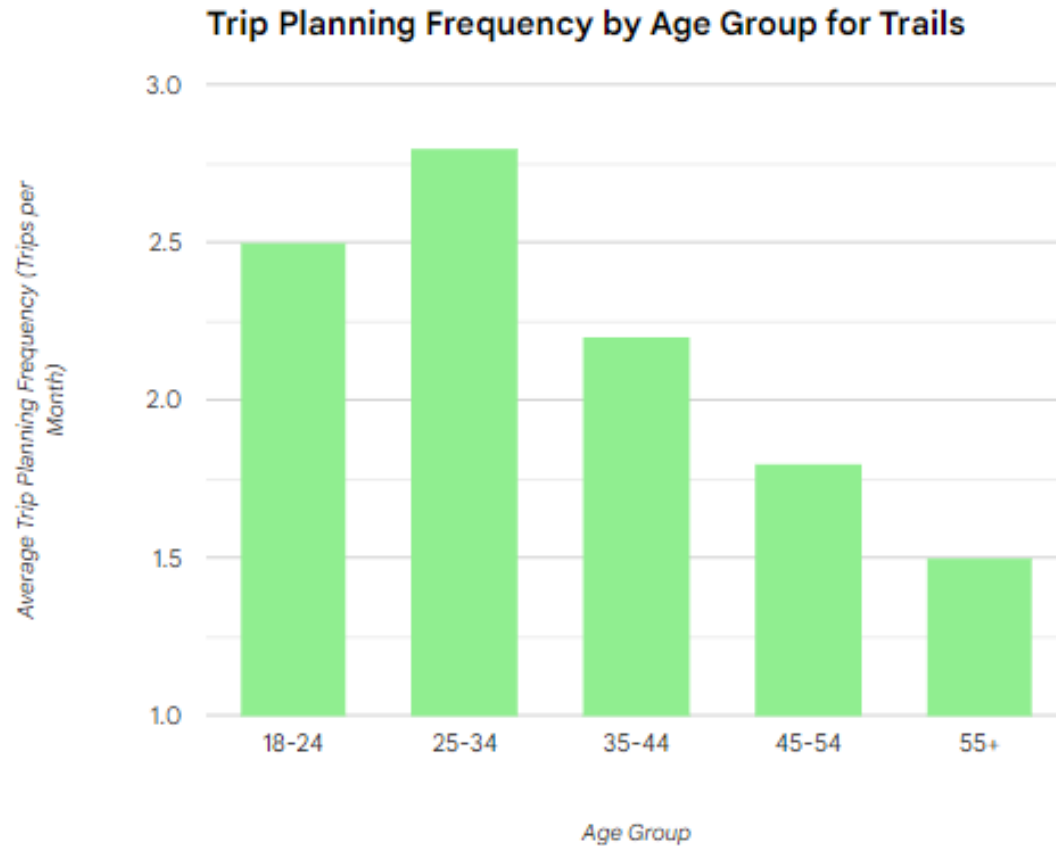
- The Trails app was evaluated through a user testing process that involved a group of Indian travelers.
- The results of the user testing were positive, with users finding the app to be easy to use and helpful in planning their trips.

User Testing and Evaluation



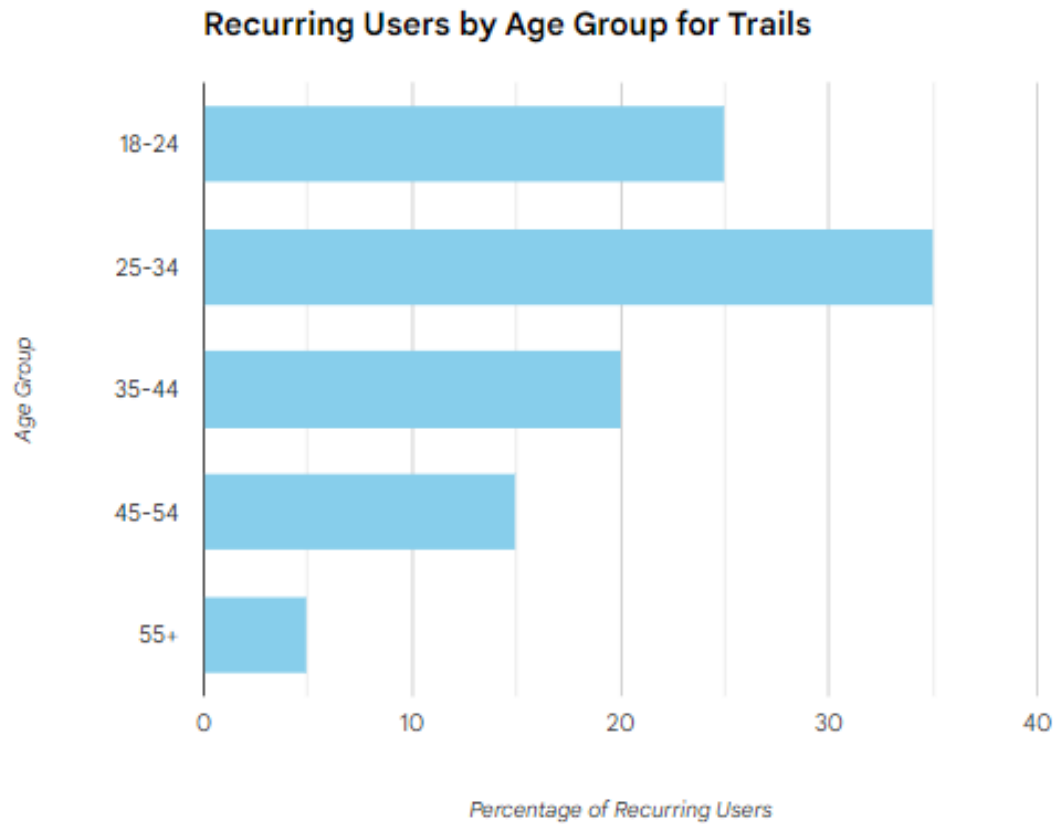
Recurring Users by age group for Trails Likelihood to use Trails by Age, Gender, and Occupation

User Testing and Evaluation



Trip Planning Frequency by age group for Trails

User Testing and Evaluation



Recurring Users by age group for Trails

Methodology Used

User-centered design approach:

- Conducted user research to understand the needs and preferences of Indian travelers.
- Created personas to represent the different types of Indian travelers who would use the app.
- Developed an information architecture to ensure that the app is easy to use and navigate.

Cross-platform development:

- Used Flutter to develop the Trails app, allowing it to run on both Android and iOS devices.

Rigorous testing:

- Conducted internal and user testing to ensure that the app is stable and bug-free.
- Gathered feedback from Indian travelers to refine the app's usability and effectiveness.

App Development code Screenshot

Flutter

```

1 import '/flutter_flow/flutter_flow_theme.dart';
2 import '/flutter_flow/flutter_flow_util.dart';
3 import 'package:flutter/material.dart';
4 import 'package:google_fonts/google_fonts.dart';
5 import 'package:provider/provider.dart';
6
7 import 'page2_model.dart';
8 export 'page2_model.dart';
9
10 class Page2Widget extends StatefulWidget {
11   const Page2Widget({Key? key}) : super(key: key);
12
13   @override
14   _Page2WidgetState createState() => _Page2WidgetState();
15 }
16
17 class _Page2WidgetState extends State<Page2Widget> {
18   late Page2Model _model;
19
20   final scaffoldKey = GlobalKey<ScaffoldState>();
21
22   @override
23   void initState() {
24     super.initState();
25     _model = createModel(context, () => Page2Model());
26   }
27
28   @override
29   void dispose() {
30     _model.dispose();
31
32     super.dispose();
33   }
34
35   @override

```

Widget

Model



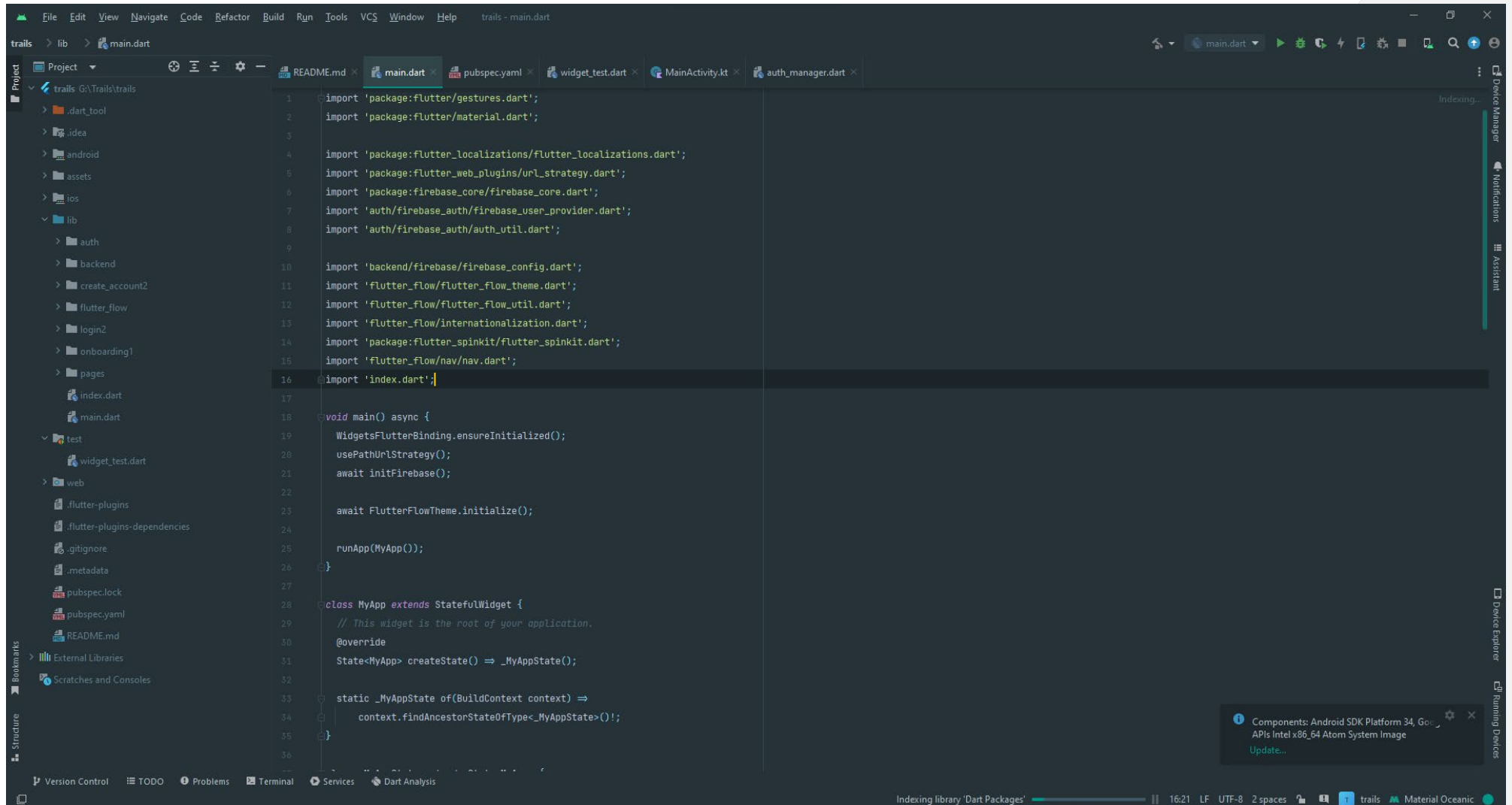
Page Title



Drag Elements
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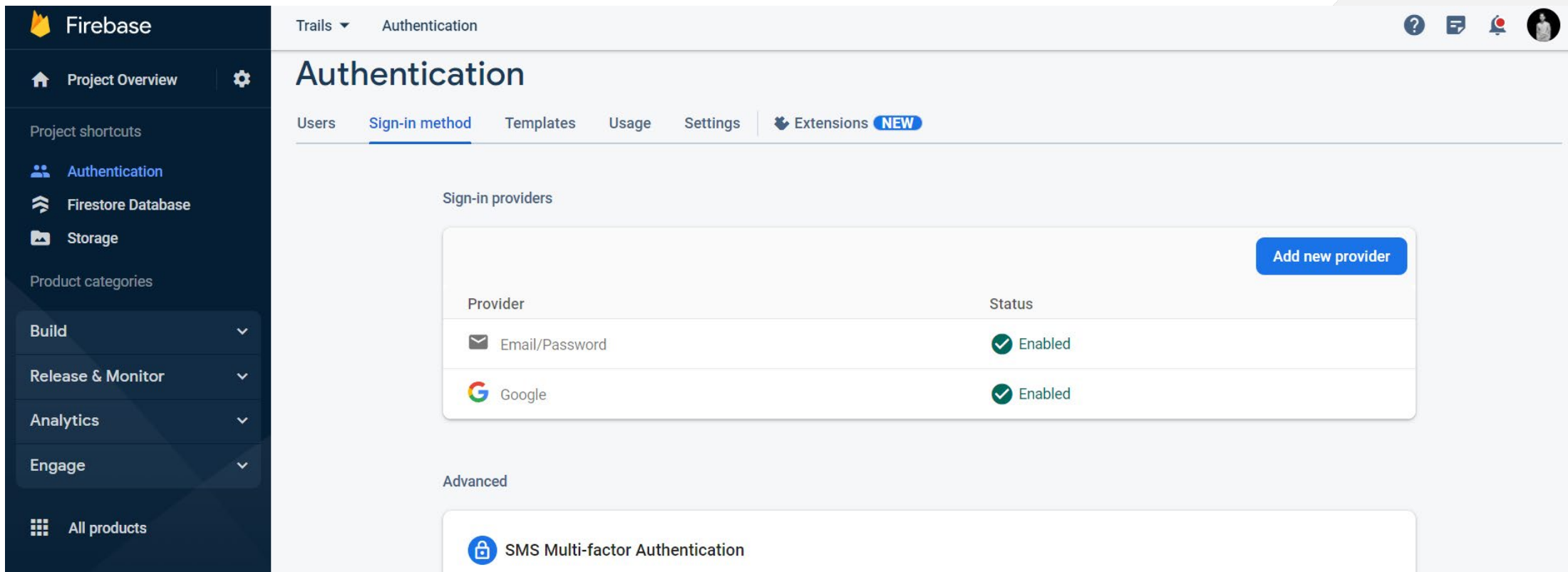


Android Studio Screenshot



Backend Screenshot

Firebase Console



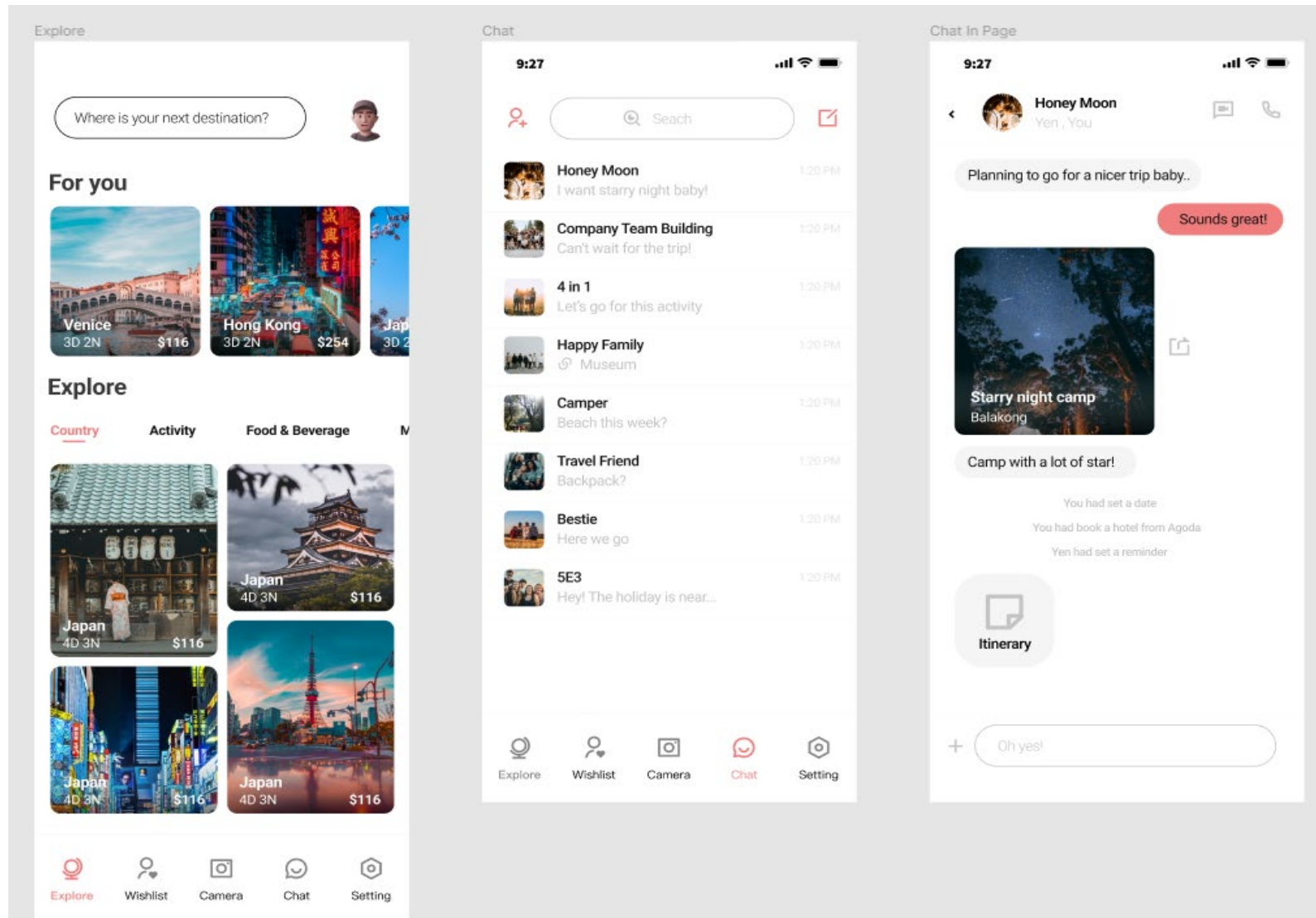
The screenshot displays the Firebase Authentication console. The left sidebar shows the Firebase logo and navigation options: Project Overview, Authentication (selected), Firestore Database, and Storage. Below these are product categories: Build, Release & Monitor, Analytics, Engage, and All products. The main content area is titled 'Authentication' and includes tabs for Users, Sign-in method (selected), Templates, Usage, Settings, and Extensions (marked as NEW). Under the 'Sign-in providers' section, a table lists two providers: Email/Password and Google, both with a status of 'Enabled'. An 'Add new provider' button is located in the top right of this section. The 'Advanced' section below shows 'SMS Multi-factor Authentication' with a lock icon.

Provider	Status
Email/Password	Enabled
Google	Enabled

Advanced

- SMS Multi-factor Authentication

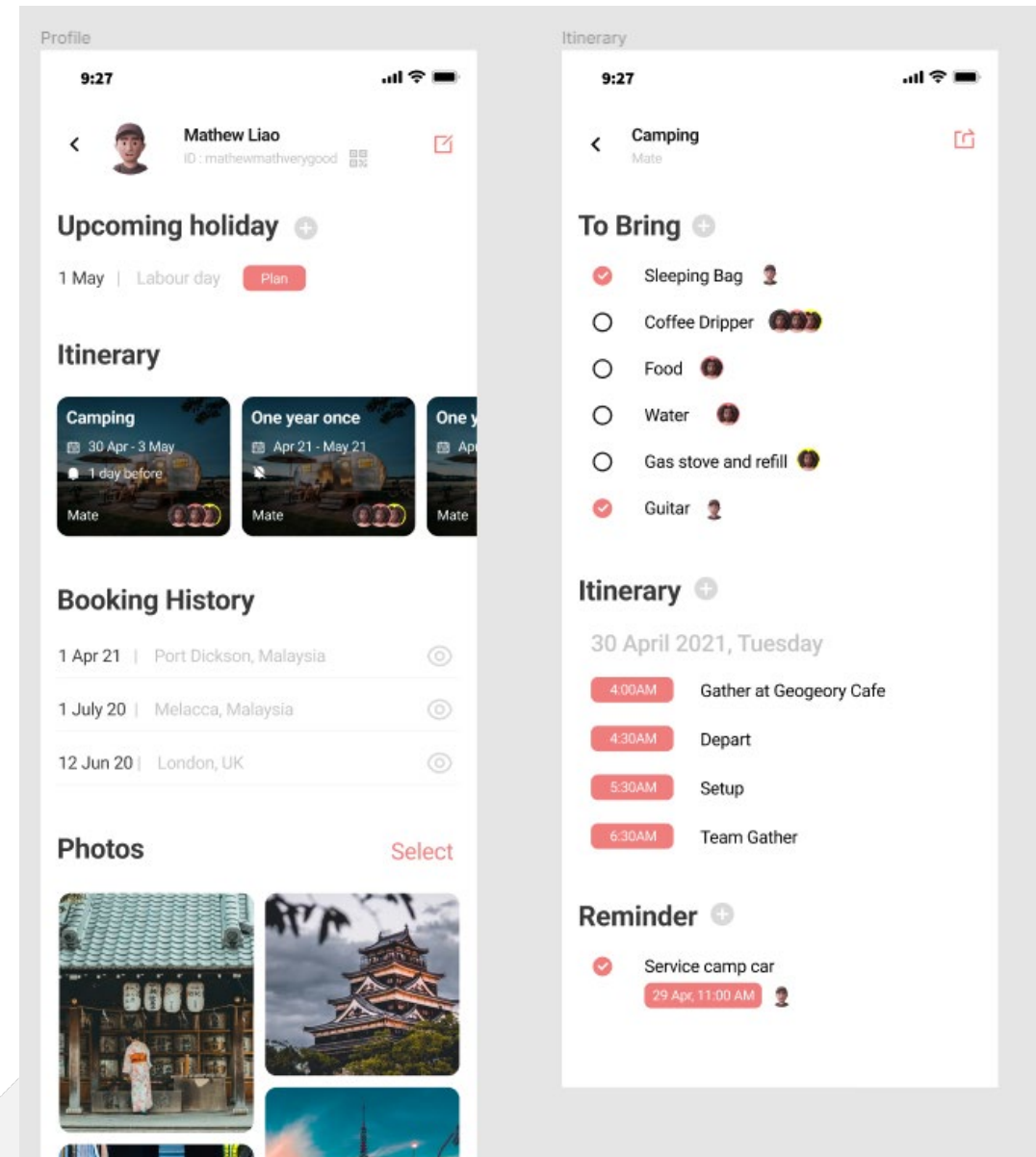
Results and Outputs



Homepage and Group
Chat page of the app.

Results and Outputs

Travel Planner Page and Itinerary manager Page of the app.



Conclusion

- By embracing a user-centric design approach, we have meticulously crafted the Trails app to cater to the specific needs and preferences of Indian travelers.
- We are confident that this approach has resulted in a valuable tool that will enhance the travel experience for Indian travelers.

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