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University



VAGA TRIP

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Internal Guide

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- **Abstract**
- **Functionalities**
- **Background Work**
- **Technology & Methodology**
- **Database Design**
- **UML Diagrams**

Some Facts about Travel Industry

According to the goodworklabs –

- ❖ It is the **7th** most downloaded app category
- ❖ **85%** use smart-phones to plan their travel when on leisure tours
- ❖ **72%** people will post photos about their travel on social platforms like Facebook
- ❖ **46%** check-in via their smart-phones when on holidays
- ❖ **30%** use mobile apps to find the best hotel deal
- ❖ **29%** use mobile apps to find the best flight deals
- ❖ **15%** users specifically download travel apps to plan a trip ahead

The "last-minute cancellation" of a vacation is a true issue that many of us experienced while travelling. Finding a travel companion with comparable interests and a common language is difficult and stressful for an individual. Well, this software solution will help you solve the issue. I will be working on several discussed features which will be a part of a bigger product.

- ❖ The Application is using Cloud API that helps users for faster communication between Client GUI and server.
- ❖ The Application is to be hosted in AWS Cloud, for faster optimization and Scalability
- ❖ In future our Application will be, one of Travel Social Network for tourists.



Search Destination

Search and select the destination u want to travel to.



Get Connected

When u find someone that you want to meet up with, click the connect button and start chatting with them



Find Travel Partners

Browse through the list of trips, locals and nearby user in that location



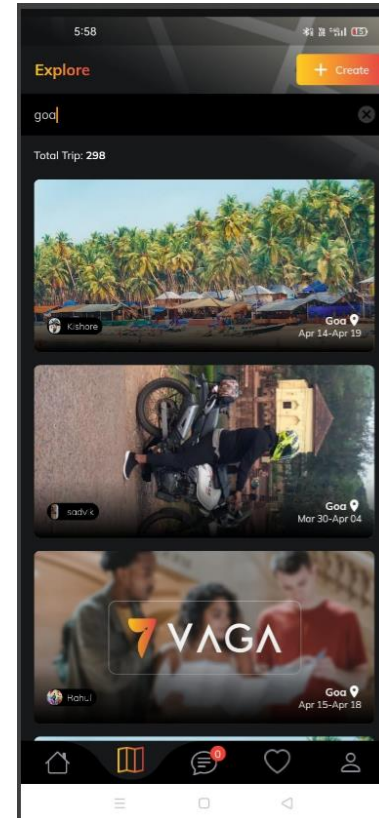
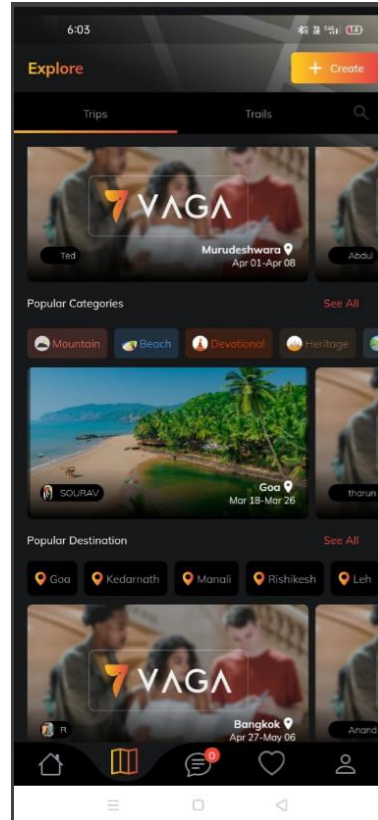
Trip Together

Plan together, Meet up with your travel companion at a pre-decided public place and travel together



Search Destination

Search and select the destination u want to travel to.

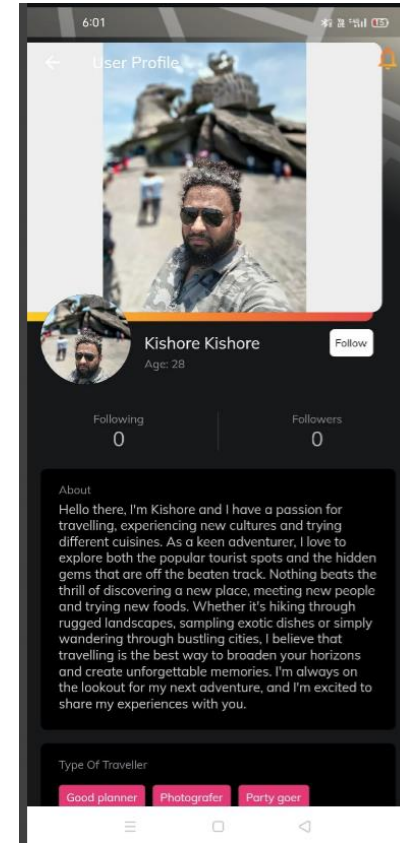


Functionalities



Find Travel Partners

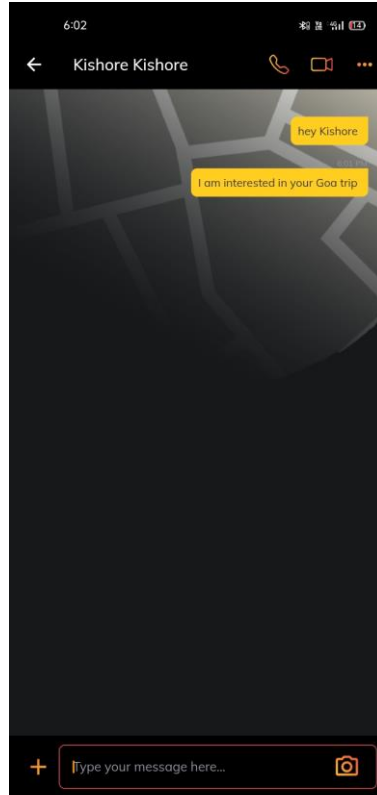
Browse through the list of trips, locals and nearby user in that location





Get Connected

When u find someone that you want to meet up with, click the connect button and start chatting with them



In Message Box
User can communicate via

- ❖ Text
- ❖ Image Media
- ❖ Video Media
- ❖ Audio Media

Also can share audio,
video, image and text

Also user can perform

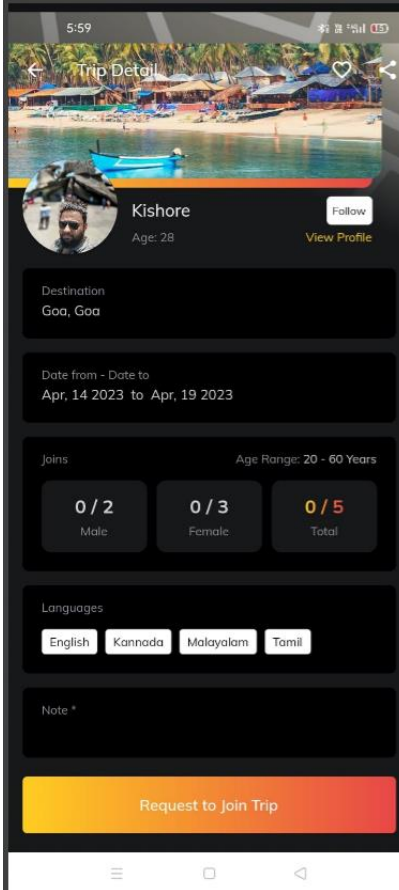
- ❖ voice call
- ❖ Video call

Functionalities



Trip Together

Plan together, Meet up with your travel companion at a pre-decided public place and travel together



The screenshot shows a mobile app interface for a trip planning feature. At the top, there's a status bar with the time 5:59 and battery level. Below it, a header bar shows a back arrow, the text "Trip Detail", a heart icon, and a share icon. The main content area features a large image of a tropical beach with huts and a blue boat. Below the image is a profile card for "Kishore" with a circular profile picture, age "28", a "Follow" button, and a "View Profile" link. The trip details section includes "Destination: Goa, Goa", "Date from - Date to: Apr, 14 2023 to Apr, 19 2023", and "Joins: Age Range: 20 - 60 Years". There are three buttons for joining: "0 / 2 Male", "0 / 3 Female", and "0 / 5 Total". Below these are "Languages" buttons for "English", "Kannada", "Malayalam", and "Tamil". A "Note *" field is present. At the bottom is a large orange button labeled "Request to Join Trip".

1. “Design plays an important role in development”

Design plays a crucial role in the development of a user-friendly app. The design of an app affects the user's first impression, engagement, and overall experience with the app[2]. A well-designed app should be intuitive, easy to navigate, visually appealing, and accessible to all users.

Good design also helps in making an app more functional by ensuring that users can easily find and access the features they need. The use of consistent design elements such as color schemes, typography, and layouts can create a sense of familiarity and ease of use for users.

In addition, user testing during the design process can help identify usability issues and allow for improvements to be made before the app is launched. Ultimately, a user-friendly app can lead to higher user engagement, retention, and satisfaction, which can contribute to the success of the app.

2. “Always uptime” by AWS Cloud hosting

Amazon Web Services (AWS) provides a highly reliable cloud infrastructure that supports high levels of uptime for applications and services. AWS offers multiple availability zones (AZs) within each region, which are isolated data centers with their own power, cooling, and networking infrastructure. This architecture allows for redundancy and fault tolerance, ensuring that if one AZ experiences an outage, other AZs can continue to operate without interruption.[5]

In addition to AZs, AWS also offers a range of services and features that can help ensure high levels of uptime. For example, AWS Elastic Load Balancing automatically distributes incoming traffic across multiple instances to prevent overloading and improve availability. Overall, AWS provides a highly reliable cloud infrastructure that can help ensure uptime for applications and services.[5] By utilizing features such as multiple AZs, load balancing, auto scaling, and monitoring, developers can build highly available applications that are able to withstand unexpected events and maintain high levels of uptime.

3. “Faster optimization with API”

Node.js is a runtime environment that allows developers to build scalable and high-performance applications using JavaScript. Node.js also provides a built-in API that developers can use to create web servers, which can handle incoming requests and return responses. One reason why Node.js API can be faster than other traditional server-side technologies is its non-blocking I/O model. Node.js uses an event-driven architecture that allows it to handle many simultaneous connections without blocking the main thread of execution.[6] This means that requests can be processed more quickly and efficiently, leading to faster response times and overall performance. Additionally, Node.js API benefits from the ability to leverage JavaScript's asynchronous programming capabilities. By using asynchronous programming techniques, Node.js can handle multiple requests simultaneously without waiting for each request to complete before moving on to the next one[6]. This approach allows Node.js API to make more efficient use of server resources, resulting in faster and more responsive applications.



Figma & Flutter for Frontend UI



NodeJS and ExpressJS for API and Server

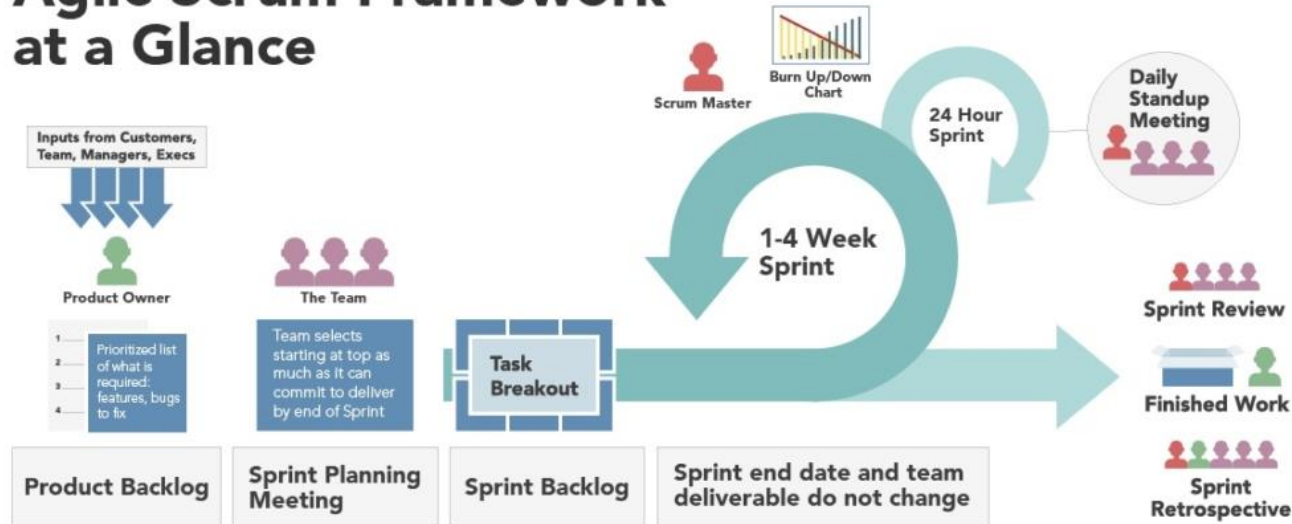


Database will be stored in MySQL

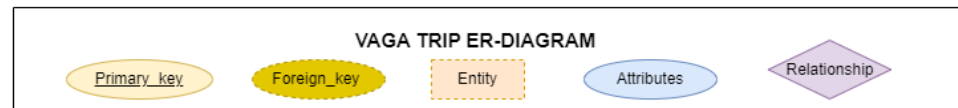
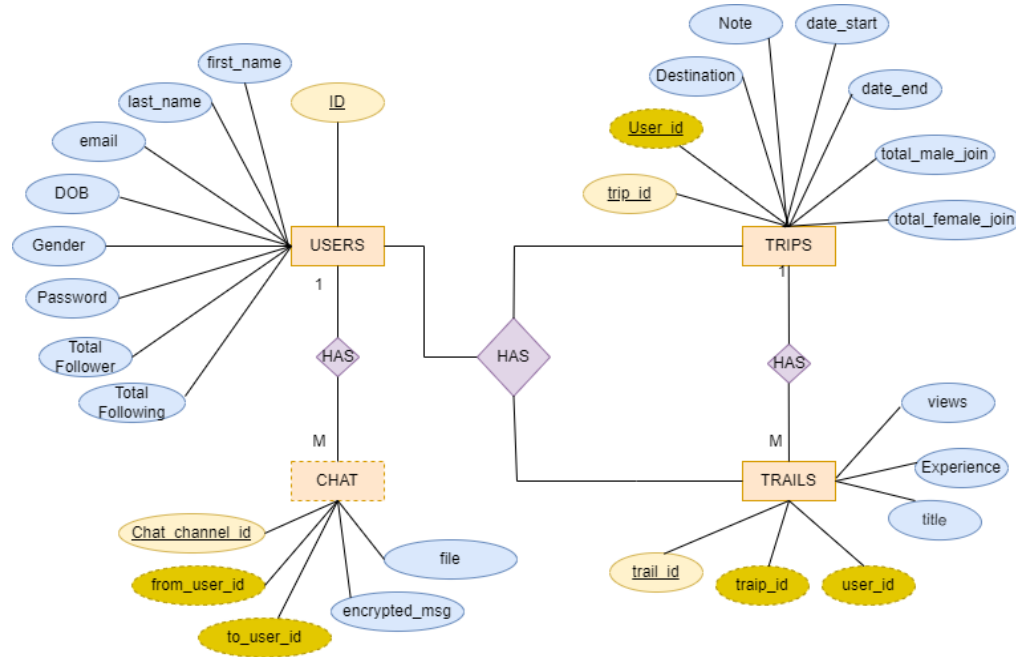


Application is hosted using AWS cloud

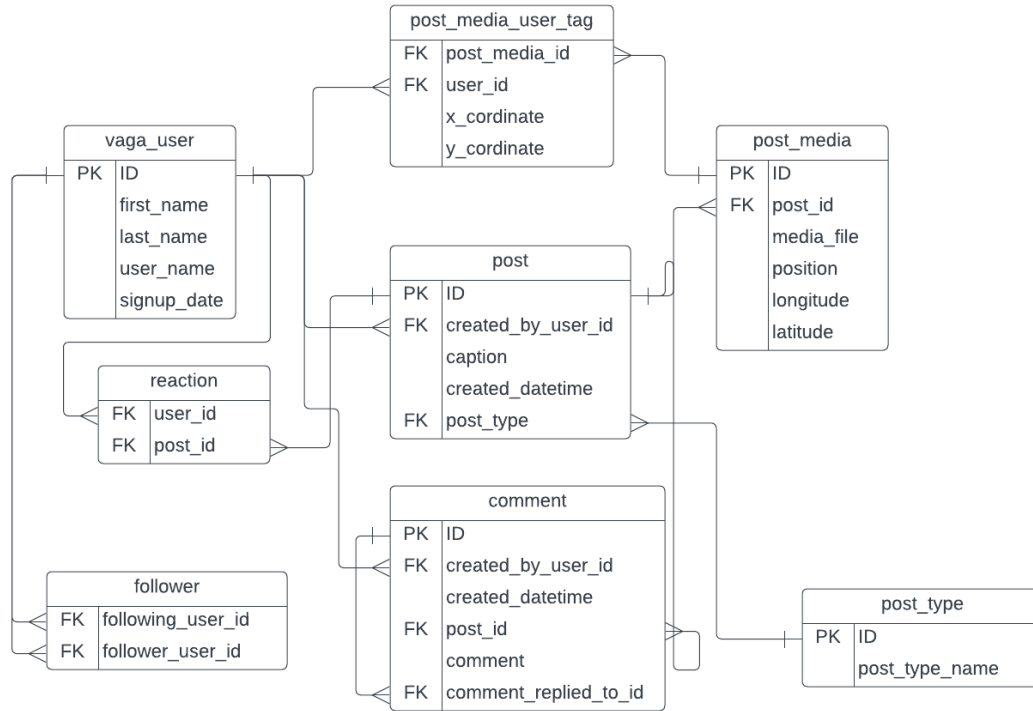
Agile Scrum Framework at a Glance



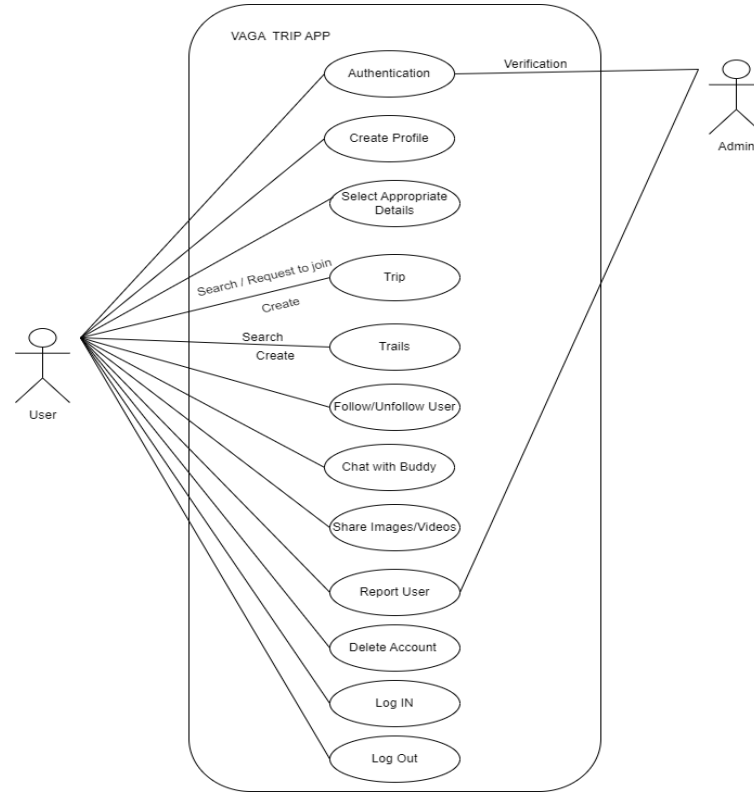
Database Design



New Feature Database design “Post-Integration”

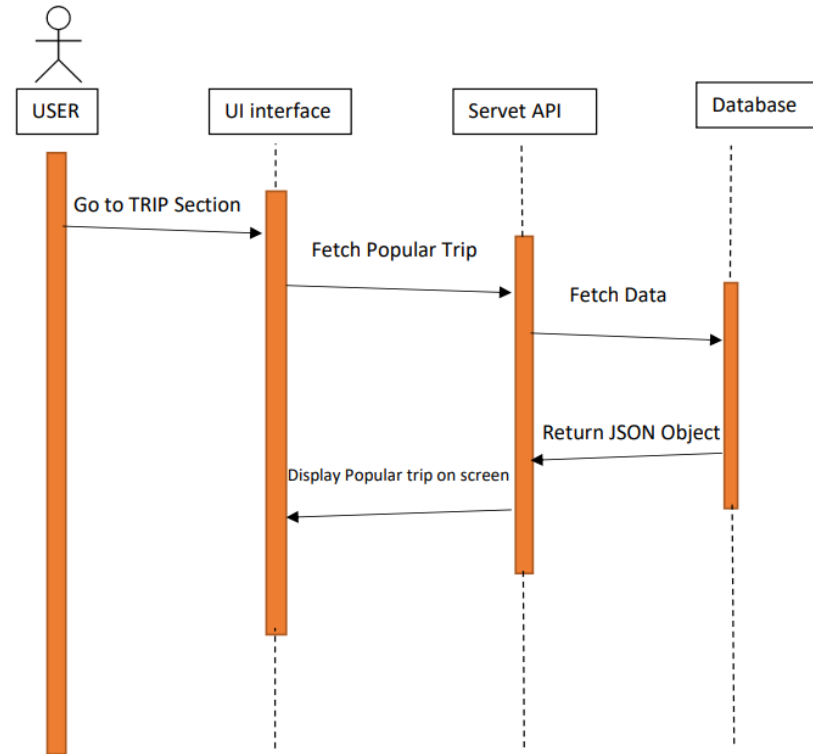


UML diagram

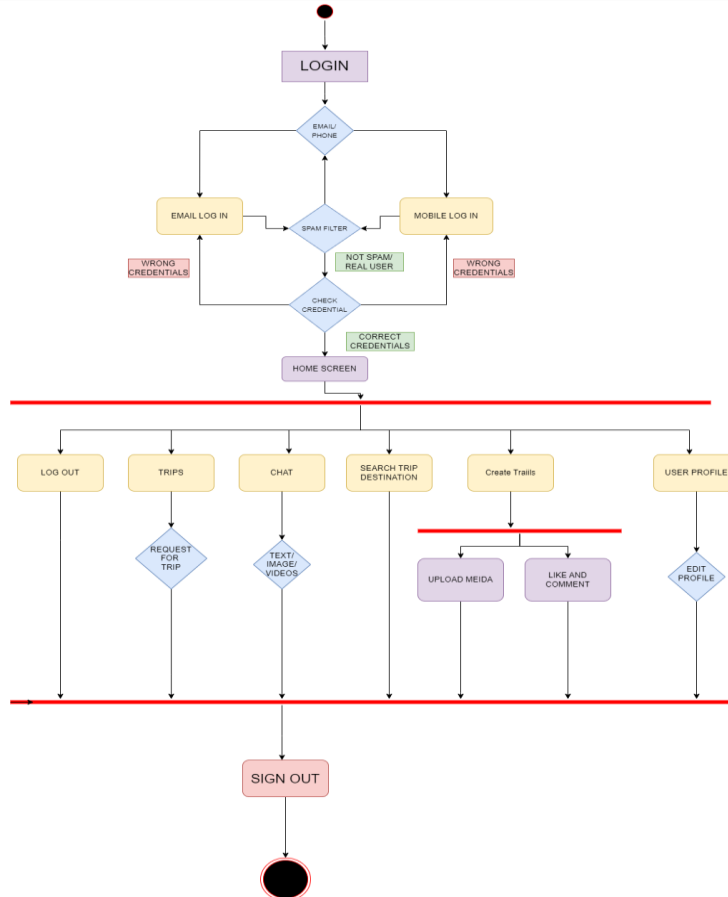


UML diagram is visually representing a Travel system along with its main actors, roles, actions, artifacts or classes.

Sequence Diagram



Activity Diagram



Review 2

Suggestion Update

Comments:

1. Authentication
2. Registration

1. Authentication

Authentication in an app refers to the process of verifying the identity of a user who is trying to access the app or its resources.

This is typically done by requiring the user to provide some form of credentials, such as a username and password, or by using biometric factors like fingerprint or face recognition.

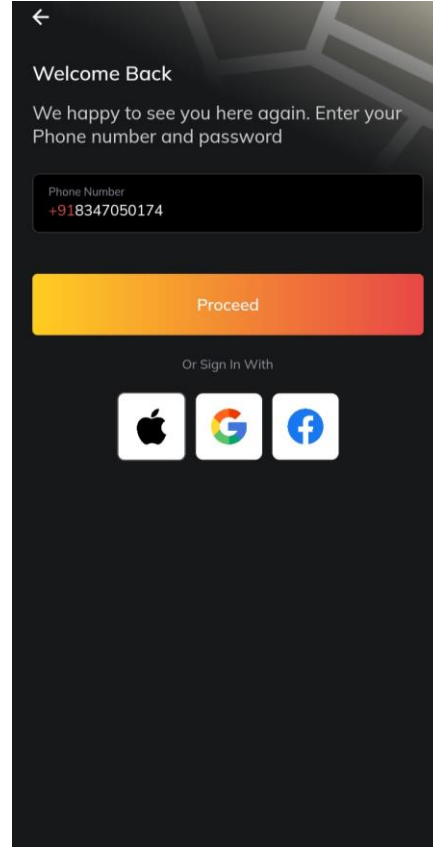
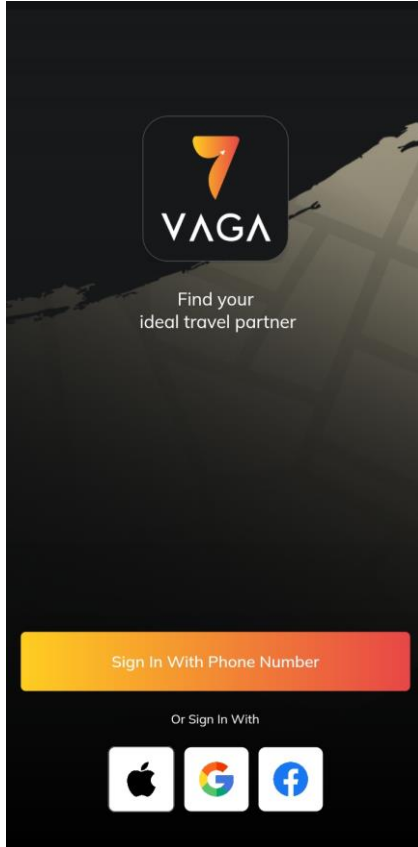
To have Authentication in our app, we have used four ways of Authentication which are

1. Mobile number (OTP based) WhatsApp, SMS
2. Google Account username and password credentials,
3. Facebook Account username and password credentials,
4. Apple Account username and password credentials,

By using this credentials, we can do Authentication of user in our app

Soon, In next update we have integrated biometric factors like fingerprint for Authentication process

1. Authentication



2. Registration

Registration in an app refers to the process by which a user creates an account or profile within the app.

This typically involves providing some personal information, such as a username, email address, and password, which will be used to identify and authenticate the user.

Steps to Register yourself as VAGA User in app

1. My profile
2. Verify my Profile
3. Upload document
4. Upload selfie
5. Enter proper Data as per documents
6. Verify email and number
7. Done
8. Soon you will get orange tick on profile

2. Registration

2:43


← Verify Account

Select Country
Select Country ↓

Select Document Type

☒ Passport

☐ Driving License


Click here to upload
Driving License / Passport

Submit to Review


← Verify Account

Select Country
India ↓

Select Document Type

☐ Passport

☒ Driving License



Submit to Review

2:47


Keep your face within oval

Take Selfie

2. Registration

← Verify Account

Full name as per document
Utsav Dharmendrabhai Gohel

Phone No
+918347050174

Email Address
utsavgohel.ug@gmail.com

Proceed

← OTP Verification

Enter the code sent to your phone
+918347050174

9 0 2 4 0 8

Don't received any code?
[Resend Code](#)


Enter the code sent to your email
utsavgohel.ug@gmail.com

9 9 2 9 7 5


Don't received any code?
[Resend Code](#)


Submit


My Profile


 **Utsav**
View My Profile


Edit Profile


 **Invite**
Refer a friend & get rewarded

 **Verify Account** In Review
Pending verify account


 **Privacy Settings** ▼


 **Membership** View Plans

 **Notifications**

 **Settings** ▼

Help

 **Feedback**

 **Contact Us**

Home Bookmarks Messages Heart Profile

2. Registration

VAGA

Dashboard

USER MANAGEMENT

Users

Verifications

Memberships

Trip Categories

MORE

Landing

Search..

Administrator

Search..

#	NAME	EMAIL	PHONE	STATUS	CREATED AT	ACTIONS
3	<div>Nishit Patel</div> <div>View Document</div> <div>View Picture</div>	stallion1211@gmail.com		Verified	09-Feb-23	<div>✓</div> <div>✕</div>
2	<div>parth patel</div> <div>View Document</div> <div>View Picture</div>	+919909333390@vagatrip.com	+919909333390	Failed to verify	09-Feb-23	<div>✓</div> <div>✕</div>
1	<div>Prashanth shetty</div> <div>View Document</div> <div>View Picture</div>	+919731005423@vagatrip.com	+919731005423	Failed to verify	08-Feb-23	<div>✓</div> <div>✕</div>

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Find Buddy

