



SMART INDIA  
HACKATHON  
2022

# Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation: **Ministry of Electronics and Information Technology (MEITY).**

PS Code: **PK836**

Problem Statement Title: **Mobile Operator Booking Platform.**  
Team Name: **SHARK**

Team Leader Name: **Rishabh Gupta**

Institute Code: **1-3688291241**

Institute Name: **Thapar Institute of Engineering and technology**

Theme Name: **Software**

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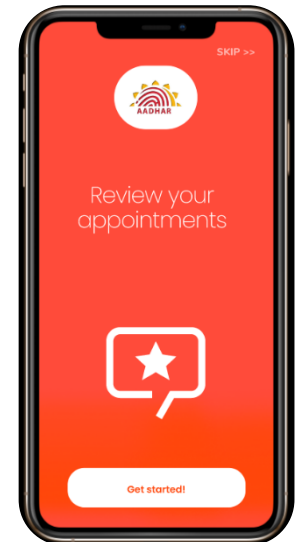
# Idea/Approach Details

## Idea/Solution/Prototype

Aadhaar has onboarded mobile operators to undertake enrolment and update of the residents demographics and biometric data. Our operators move from door step to door step to perform enrolment and update activity. Each of our operators is equipped with a Tab or mobile device to perform update and enrolment activity. We have decided to make an app which displays the location and information of all Aadhar mobile operators nearby, thus enabling customers to book them and make them visit their home for Aadhar Enrollment/Updation.

We have a custom design algorithm which minimizes the travel time and cost of the mobile operators. The algorithm logic is directly proportional to total number of operators and the largest spread they need to cover.

Customer will book nearest operator and he will be able to track him while he is on his way to his location. He/she can even book time slots for his/her flexibility, track the status, review the operators and many more. There will be an app for operator too which will show him nearby customers.

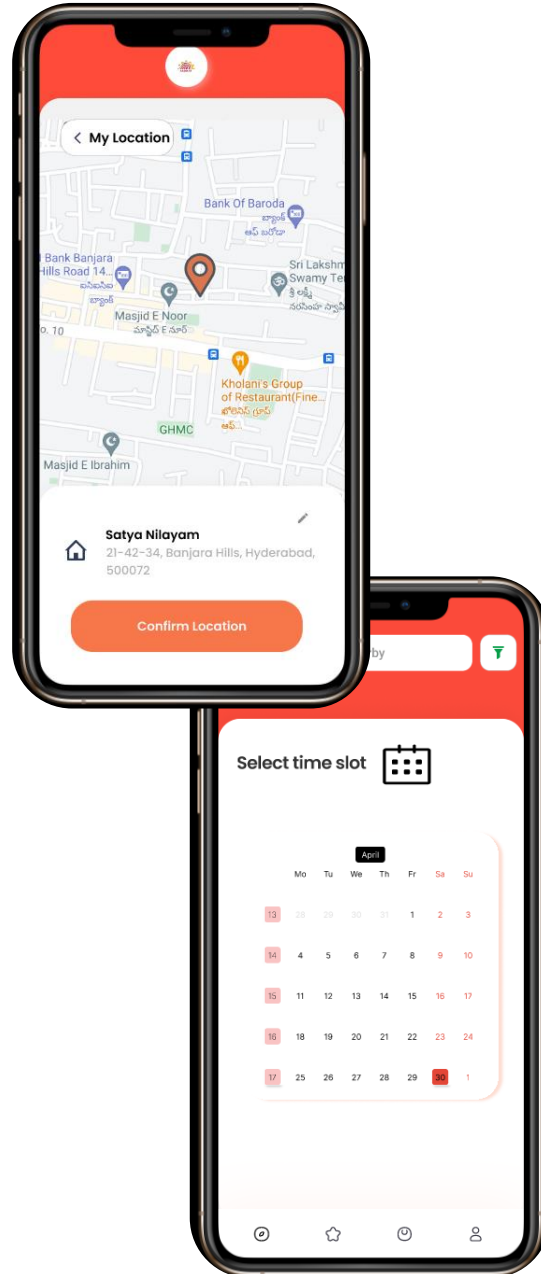


# Idea/Approach Details

## Use Cases

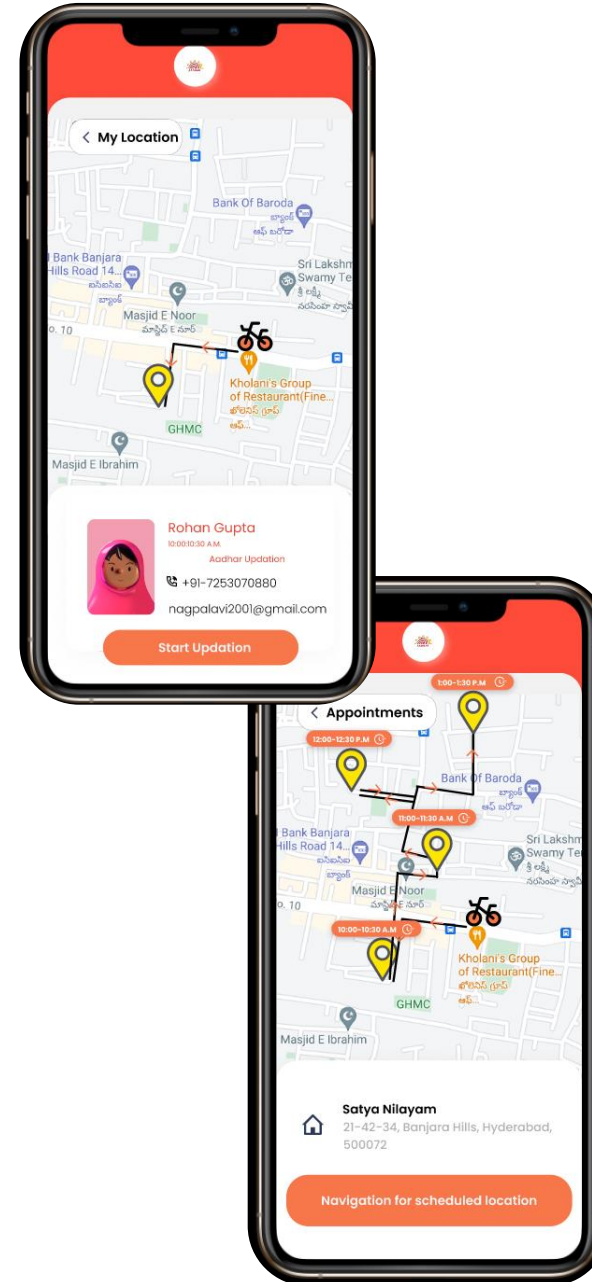
### USER

- Location based appointment system.
- We have time and slot booking system for the user.
- We also have a review panel at the end of the process.
- We provide updation of a prebooked appointment, as in some cases user might have some problem.



### Operator

- Operator can select the time slots when he/she is free.
- Operator can access his/her route for the appointments.
- Operator can monitor the total distance throughout his/her working hours.



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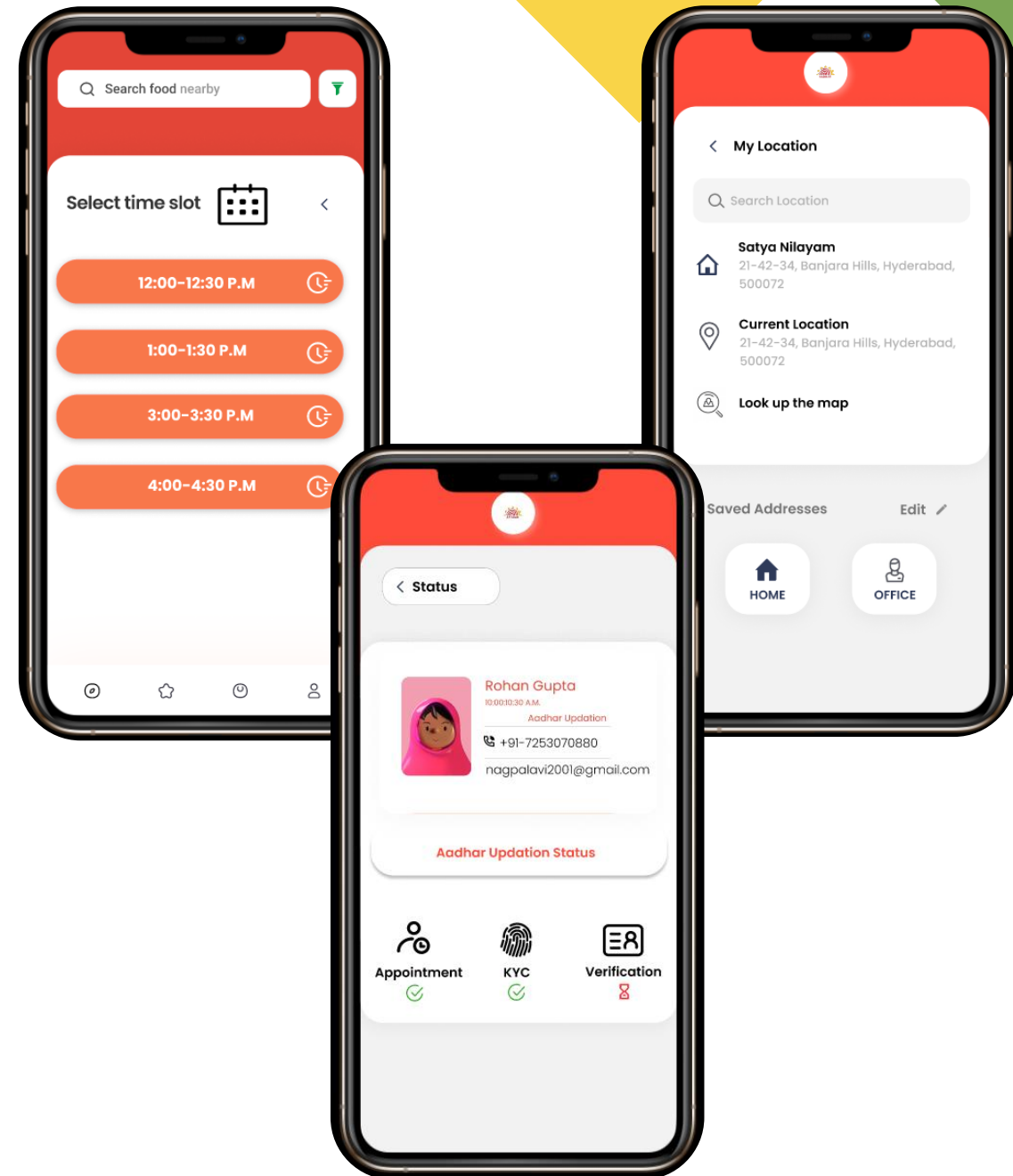
## Dependencies / Show stopper

### Dependencies

- Realtime location data of operators and one time addresses of user.
- Aadhar authentication APIs.
- Availability of internet connection for both operators and users.
- Availability of adequate operators in all the areas.

### Show stopper






- Aadhar enrollment and updation at the comfort of your homes.
- Slot booking flexibility.
- Contact support in case of any discrepancy.
- Call the assigned operator prior to appointment.
- Status tracking of booking.

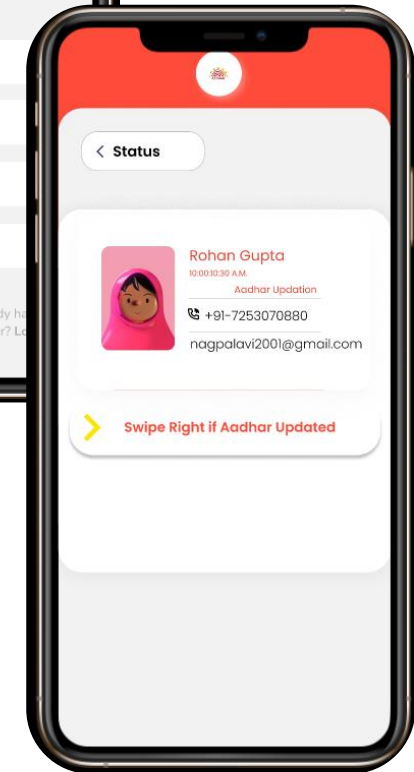
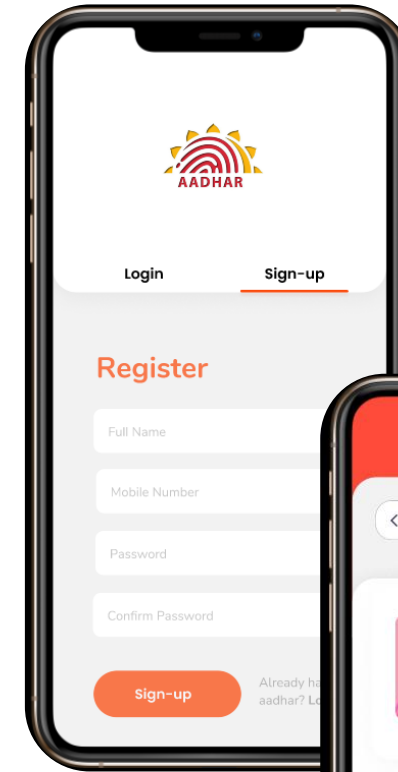
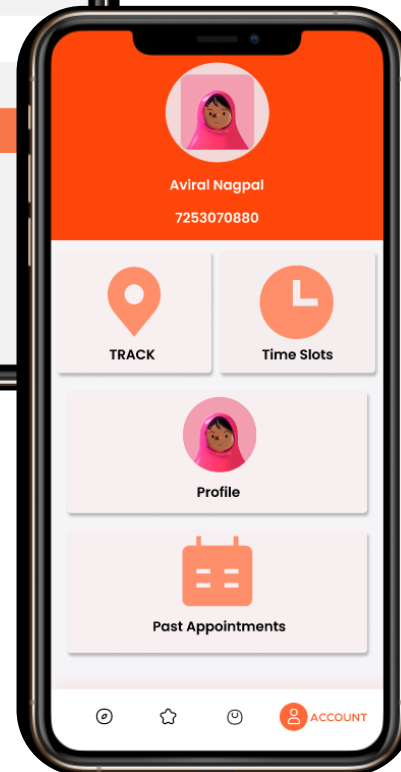
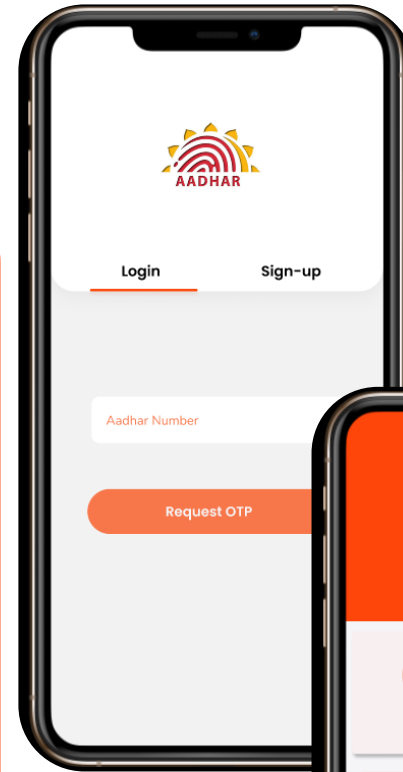


# Idea/Approach Details

## Tech Stack

### Tech Stack

-  Flutter
-  Firebase
- Google Maps API 
- Aadhaar validation API 
-  React



# Team Member Details

Team Leader Name: **Rishabh Gupta**

Branch (Btech/Mtech/PhD etc): **BE**

Stream (ECE, CSE etc): **COE**

Year (I,II,III,IV): **II**

Team Member 1 Name: **Kamalpreet Singh**

Branch (Btech/Mtech/PhD etc): **BE**

Stream (ECE, CSE etc): **COE**

Year (I,II,III,IV): **II**

Team Member 2 Name: **Harishankar Kumar**

Branch (Btech/Mtech/PhD etc): **BE**

Stream (ECE, CSE etc): **COE**

Year (I,II,III,IV): **II**

Team Member 3 Name: **Aviral Nagpal**

Branch (Btech/Mtech/PhD etc): **BE**

Stream (ECE, CSE etc): **CSBS**

Year (I,II,III,IV): **II**

Team Member 4 Name: **Rohan Gupta**

Branch (Btech/Mtech/PhD etc): **BE**

Stream (ECE, CSE etc): **CSBS**

Year (I,II,III,IV): **II**

Team Member 5 Name: **Surabhi Mishra**

Branch (Btech/Mtech/PhD etc): **BE**

Stream (ECE, CSE etc): **CSBS**

Year (I,II,III,IV): **II**