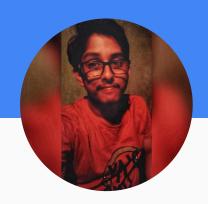


## team.



**SANJIBAN SENGUPTA** 

/kahanikaar



**DEBRUP DUTTA** 



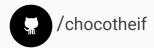


**SOURAV KUNDA** 





SIVA LALITHA CHIKKALA



### **Problem Statement**

Post-Lockdown, it will be risky to allow the public transportation without proper mechanism to maintain the social distancing, especially the frequency of buses, trains and metros shall be managed properly to utilize the capacity with social distancing criteria. The transport authorities must integrate together to maintain the system properly.

**Enter Bravel!** 



An Advanced smart mobile application for scheduling and reservation of travel journeys.

Has numerous features such as crowd prediction alerts, a unique delivery chain system, bulk travel manageement.



All in one Bravel providea a complete solution for post lockdown travel management considering both ease and safety Has miscellaneous facilities such as social distancing reminder, authorities reporting, support for injourney sellers.

## Architecture

Miscellenous facilties for enhanced safety with ease of use

Providing group travel facilities for bulk travel journeys in a safe and checked manner

Crowd sources delivery process thus decreasing crowd interactions leading to making a revolutionary process.



Smart scheduling and reserve seats for current or future jourey with cashless credit based payment facility.

Crowd prediction using daily social networking updates and GPS/GPRS data thus predicting best route.

# TFCHSTACK

**Technologies** 

77 Frameworks

) | APIs

- IBM Watson NLP Classifier
- IBM Watson Tone Analyzer
- IBM Watson Assistant
- Google Sheets
- ReactJS
- React Native
- NodeJS
- MongoDB
- Google Driver Framework
- Twitter Standard Search APi
- Twitter Steaming API
- Google Sheets API
- Google Maps API
- Reverse Geolocation API



# UI/UX

The mobile application was developed by the crossplatform framework React Native with the backend supported by NodeJS and ExpressJS, while the database was manageds using MongoDB. The whole project was developed keeping in mind the essentials of ease of end user with simple and easy to use interface. The chatbot was developed using the IBM Watson Assistant and was integrated for a making an easy to use platform for the end users to make use of all the features. We also aim to make a notification based telephony system for people witrhout smart phones to still use the application with use of IBM Watson studio.

# thank you.