UNDER THE PATRONAGE OF

Indian National Commission for Co-operation with UNESCO

United Nations Educational, Scientific and Cultural Organisation

MINDSPARK'17

TOWARDS TECHNO-UTOPIA

MindSpark'17: Hackathon 2.0

MIT-Pune.

Ronish Zadode, Adesh Tajane,Anand Wani

22ND, 23RD & 24TH SEPTEMBER 2017

UNDER THE PATRONAGE OF

Indian National Commission for Co-operation with UNESCO

United Nations Educational, Scientific and Cultural Organisation

MINDSPARK'17

TOWARDS TECHNO-UTOPIA

Problem Statement

- Localities from CoEP need pick-ups to get to college .Hectic Pune traffic takes a heavy toll on students. Find a way for students in a particular locality to come to college together without having hassle. Consider all possible factors.

Our Solution

- Back End: Python (for data manipulation and result making .)
- Database and Result format : JSON .
- Front End: Android.

Grouping.

- First of all we take input in JSON file which includes users location and destination college, distance and mode of transport of the student .
- Then, we divide the total area in different blocks .
- Groups of students are formed within this blocks as per their mode of transport and destination and time.

Result: Route and Time

- According to the groups formed and traffic analysis on the route to college, the group of students is assigned the time and result is displayed .
- Result Format: final result consists of JSON file, in which data is documented using group id and all related details.

Front END:

- In user's android application, firstly user enters his details like name, location, destination college, mode of transport, distance.
- Then this data is send to the Back end . The result received from back end includes the group id and details of the group.
- Based on the JSON file the user is shown the time to journey, time start journey and information of other group members. All this is shown using GOOGlE MAP'S API.

Real Time Application

- Further to grouping we provide the journey tracking as well as real time journey re-scheduling or re-planning in the google map's API .
- User can choose other options if a group member is dropped or left or if some changes in traffic or mode of transport.
- Also, user is provided with detailed information of other group members