Student Travel App

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THE PROBLEM

Majority of students in IIT have their home in distant places. In our stay at IIT we have observed that two people even if they want to travel to the same place, travel separately, sometimes to meet coincidentally on the way.

IDEA

Coordinate the journeys of people based on the time of journey and destination so that students can travel together to make for a safer and more enjoyable journey.
We plan to tackle two use cases:

- Students travelling to their hometowns and back.
- Students Planning a trip together to some tourist location.

COMPONENTS

- **User Profile** : The user will create his/her profile on the app. The user will provide information such as his hometown, contact number, link to facebook profile - on the app while creating his profile on the app
- **Journey** : The user can post a journey schedule. In the schedule, the user will provide the following information in the app:
  - The tentative date/time of journey
  - The destination
  - The preferred means of transport
  - Willingness to journey together with someone
- **Trip destinaitons**(meant for the the trip part) - Includes the rating, reviews about the destination.

GENERAL FLOW - Journey Planning

- User posts a new journey
- Overlap with other journeys is checked based on the the route and preference for the means of transport
- Depending on overlaps with other planned trips
    - If an overlapping journey already exists(where the other party has agreed to travel together), the user will get the contact details of the other student(s)
    - If no overlapping journey exists, the user will get a notification when another student feeds in his journey details, if the journey of the two students overlap
- After the trip is done, the user marks the journey as completed, and rate, etc

GENERAL FLOW - Trip Organisation

- Trip organisation/scheduling : Trips can be organised in two phases:
    - Planning/Intent of trip : The user will post on the app, his/her intent to undertake a trip and provide the following info:
        - Preferred destination for the trip
        - Preferred date/time of the trip
        - Budget range estimate - transportation/food, etc
    - Finalisation/Review/Invitation - Based on the trip intent posted by users, groups will be formed where they can discuss further details and post a planned trip on the app if they want more people to join in, to arrive at the:
        - Location of the trip
        - Exact timeline of the trip - start/end/travel times
        - Exact cost of the trip with details
- At this point non-member user can now join the trip(whose details are made public), but can't negotiate to change the details. Last date for joining can be specified by the trip organisers
- On the due date, the trip changes status to ongoing, and after safe return organisers can mark as finished and rate it

FEATURES

Aside from a simple sharing of contacts between users, the following features are planned -

- Coordination of payment : The payment details can be shared, and the costs be split amongst the participants of the journey. Keep track of who paid how much for what

- Notifications : If any user is posting journey schedule on a particular route, overlapping with that of the user, the user will get notification that "Some user has posted a journey on your route". The user can choose to join if he wishes
- Travel companion Rating : Can give anonymous pair wise personal rating
- Cancellations/Re-organisations - to allow for a journey member to pull out of the journey, given the consent of the other participants. Keep a track of such cases and display cancellation count to other users if required, in the future
- Rating/reviews of trip destination : the users can give rating to the trip destination based on time of the year. And can also give additional comments/suggestions in the reviews
- Under consideration - Suggestions for trips/journeys that are highest rated/most economical for users planning new trips by using past data
- Under consideration - Arrangement for shared accomodation - can suggest based on existing apps like oyo rooms.

External APIs

- Google maps API to show the locations
- eRail.in API to get train journey details