Student Travel App

Group 9

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Abstract

Majority of the students in IIT live quite far away from campus. More often than not, when they plan a trip to their home, they do it alone. Moreover, it is quite difficult to plan trips together due to all the work involved - research on destination, cost and reaching consensus. We propose a seamless solution to this problem: a framework using which journeys can be collated and trips can be planned. Our system makes collaboration in travel planning as simple as it gets.

Key Functionality

- Journey Planning - create journeys and find similar ones so as to travel together
- Trip Planning - help users collaborate and reach consensus in chalking out the details for a trip

Modules

- Journey Planner
- Overlap Calculator
- Search Module
- Trip Planner
- Notifications
- Authentication

Technology Used

- Server and DB - Django Python and SQLite
- Android - Java and YAML
- Web Front End - HTML/CSS/Bootstrap/Django Templates
- External API - Google Maps

Implementation Status

- Web Application - Completed
- Lines of Code - 3.5k if auto generated code is excluded, 20k with it
- Android Application - About 80% completed
- Lines of Code - 4k lines of code excluding auto-generated code, 21k with it

Future Plans

- Finish the android application.
- Include group-chat/broadcast feature for trip planning.
- Add support for maintaining balance of payments between users.
- Host the website on a public server. Currently the website is hosted on a machine on IIT intranet.
- Release the app on google play store for students to download and use.