TravelApp

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Introduction

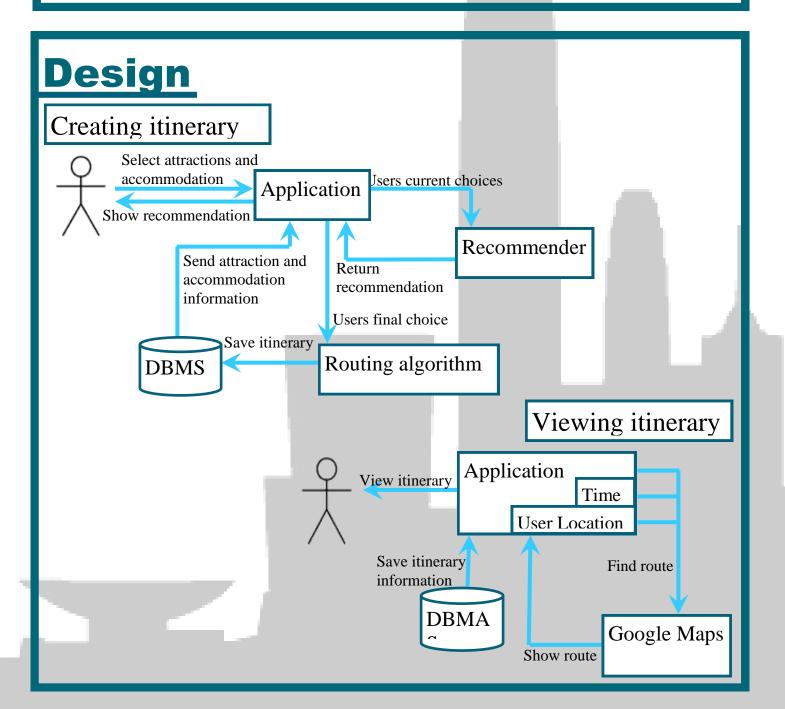
It has been found that there are no applications that create itineraries for users. Applications available are split to providing attraction information as a data storage application or a timetabling application that the user fills in themselves.

TravelApp consists of 3 focal points:

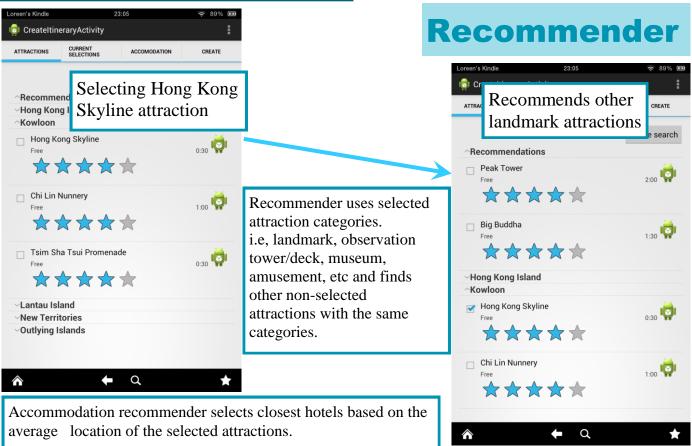
Recommender: Recommends attractions and accommodations based on attractions the user has already selected

Itinerary Creation: Creates itinerary visiting as many attractions as possible while reducing travel time

Itinerary View: Allows the user to view the itinerary and see the attractions they have/will visit on a map.



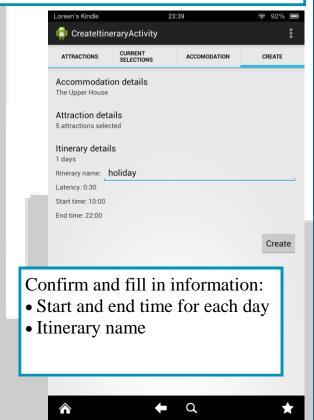
Implementation

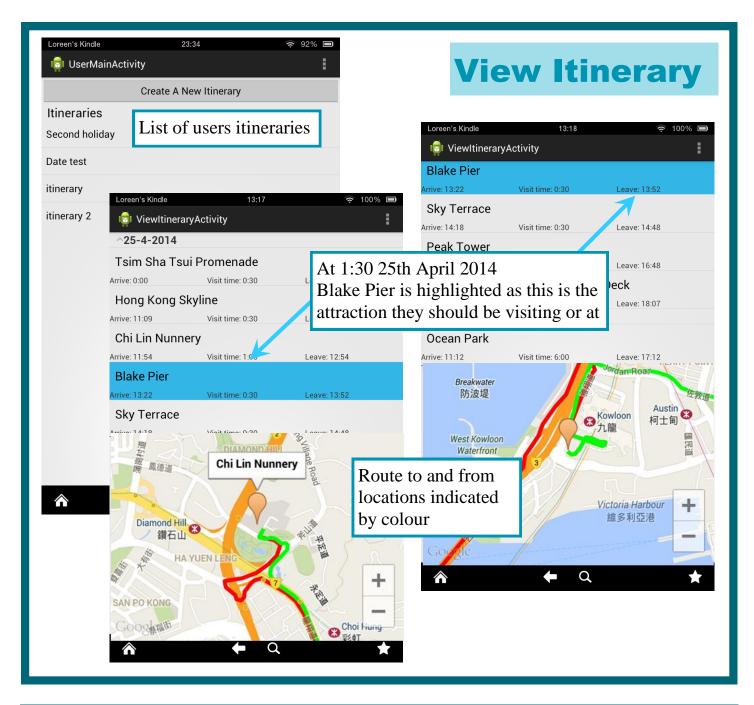


Itinerary creation

💼 CreateltineraryActivity CURRENT ATTRACTIONS ACCOMODATION CREATE Please adjust the rating bar to your prefered preference, the higher the preference will be more likely to be included in the itinerary before lower preferences. The rating bar to the right is other peoples ratings of that attraction for your reference Hong Kong Island Sky100 Hong Kong Observatid Specify how much the x x x x user wants to visit Peak Tower specific attractions \Rightarrow \Rightarrow \Rightarrow \Rightarrow \Rightarrow Ocean Park User rating \star \star \star \star \star \star \star \star \star Kowloon Tsim Sha Tsui Promenade User rating \Rightarrow \Rightarrow \Rightarrow \Rightarrow \Rightarrow \Rightarrow \Rightarrow \Rightarrow \Rightarrow ~Lantau Island Big Buddha User rating \Rightarrow \Rightarrow \Rightarrow \Rightarrow 53 Q $\widehat{}$

Bin sort sorts from an ordered list of attractions based on user preference. Each bin is a day with weighted attractions based on the attraction visit time. Another weight is added which is the travel time between attraction and the previous location.





Conclusion

During this project, a unique android application has been created to help tourists create their own personalised itineraries which they can carry with them during their travels.

Further improvements:

- Use of data mining to collect data sensibly for the application
- Adding meal breaks in the itinerary, account for users needing to eat during the day
- Recommend restaurants similar to accommodation but based on user location

TravalApp Future Possibilities

If this application were to continue to develop, in the future it would allow travel worldwide and include multiple methods of transport including flights. An itinerary could have multiple accommodation selections and allow the user to travel to multiple countries in one itinerary.