

# Short Proposal of Project

Candidate Topic: Travelling route generation system

**Abstract:** With the development of the economy, people's demand for tourism is growing. However, it is very difficult to plan a reasonable, economic and specific travel route in a short period of time. So this system provides a convenient and fast way to plan the travel route for the user. The user only needs to input multiple destinations and the total travelling time and then the system recommends the best travel route based on the comprehensive consideration of the travel route cost (cost consists of tickets' price between destinations, travelling time and distance, etc.). In addition, the system will also plan the detailed route between the attractions in the city.

**Functions:**

1. The user only needs to enter multiple destinations and total travel time, and the system will plan the complete route.
  - 1.1 Planning the route between cities - based on the cost of transportation between destinations, time consuming
  - 1.2 Planning the route of the tourist attractions inside the city - selection of attractions is based on the online users' travelling diaries to extract the hot spots of the attractions.
  - 1.3 Displaying attractions' basic information
2. The user could modify the route and system rearrange the recommended route accordingly
  - 2.1 Users can remove or increase the attractions recommended for them - update the attractions rankings and re-plan the route.