

ABSTRACT

Tourism has become an important sector that has an impact on development of country's economy. The main benefits of tourism are income creation and generation of jobs. Bagan is the most famous place in Myanmar. Not only local visitors but also tourists come to Bagan. To be convenient for visitors in Bagan, there needs to save cost and resources. Nowadays, people use mobile devices. Using Google maps help people to reach destination in the most efficient way. This system will calculate the distance based on the current location using Haversine Fourmula. The Haversine Fourmula determines the great-circle distance between two points on a sphere given their longitudes and latitudes. There are many algorithms to find the shortest route such as Floyd's algorithm, Dijkstra's algorithm, Travelling Salesman Problem, etc. Among them, Travelling Salesman Problem (TSP) is used to find the shortest route in a shorter time. This system provides the nearest restaurants based on the current location. If the user chooses the pagodas, this system calculates the distance from the current location to the selected pagodas' locations from the database and find the shortest route. Moreover, the user can view the hotel lists and e-bike rental lists in Bagan.