Universiti Teknologi MARA

Context Aware Recommendation for Personal Tour Guide on Perhentian Island

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ABSTRACT

Tour Guide is a responsible of a person that has a good knowledge and experience of a certain places. As people made mistake, sometimes people may not alert to a certain activity around. Therefore, this paper presents a recommendation for personal tour guide system, which is use a mobile application that suggesting and notify the activity to the user on Perhentian Island. The aim of the project is to assist user by listing the list of activities can be done on the island based on the user preferences and help user navigate to the recommended activity. The prototype will be deal with the positioning technology on mobile device called Global Positioning System(GPS) and a context aware recommendation based on user preferences. The project need to understanding the requirement of the technique use which is a context aware recommendation system and mobile application environment. The project acquired the activity coordinate on the island to be use with the user coordinate for filtering. The prototype use a simple interface for user to easily to understand. The finding of this project is illustrated as a conceptual framework that consist of the project structure with context aware process. This prototype is the first application that use the context aware approach for Perhentian Island. The evaluation is conducted and focused on the functionality of the prototype. The prototype will help the user to be alert with their surrounding as soon as reach to the nearest activity based on user current location and the user context set at the beginning of the prototype interface. This prototype also able to support Ministry of Tourism and Culture for State of Terengganu in attraction of tourist to visit Perhentian Island. The prototype only displays a few activities on the island. For future works, the scope of user context, more preferences of activity, and context of places such as landmark, restaurants and shops, improve the user the interface, enhanced the accuracy of the places to make it more flexible and informative.

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