# Universiti Teknologi MARA

# BackPack Track: An Android Mobile Application for Backpackers' Travel Itineraries and Budget Tracking

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**Thesis submitted in fulfilment of the requirements for
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Faculty of Computer and Mathematical Sciences**

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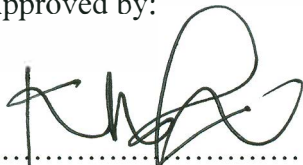
# SUPERVISOR'S APPROVAL

## BACKPACK TRACK: AN ANDROID MOBILE APPLICATION FOR BACKPACKERS' TRAVEL ITINERARIES AND BUDGET TRACKING

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This thesis was prepared under the direction of thesis supervisor, Khairulliza Binti Ahmad Salleh. It was submitted to the Faculty of Computer and Mathematical Sciences and was accepted in partial fulfilment of the requirements for the degree of Bachelor of Computer Science (Hons.).

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JANUARY 28, 2019

# DECLARATION

I certify that this report and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

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# ABSTRACT

Backpacking has become a popular travelling method in recent years because it focuses on minimising budget spending during travelling. To minimize the budget, trip itinerary planning is important. However, it is quite difficult in planning for a travel itinerary if there is insufficient information. Currently, backpackers rely on social media platforms for finding the information, but this information is usually incomplete and not structured properly. Based on the study of existing applications, it was found that these applications lack important features such as to record and track budget spending and to browse the itineraries shared by other users. Therefore, BackPack Track has been developed in order to solve these problems and fills in the gaps of existing applications. With BackPack Track, users are able to record and share their own trip itineraries. This itinerary consist of the country visited, the activities and places visited where the apps will store the GPS locations, the photographs, and most importantly is the budget spends for each activities. The application will help users to view the overall budget spending for an itinerary. Users are also able to browse itineraries shared by other users. This project has been successfully developed by using Waterfall Methodology. The project consists of a Laravel Web Based Application for the Admin Web Panel and Web API and an Android mobile application which implements Location Based Service (LBS) using Google Maps API. For future works, real-time push notifications and a chatting feature are recommended to be integrated with this application so that BackPack Track can serve as a complete trip planning platform for backpackers. In addition, this project should also become a cross-platform application so that the user base can be increased – hence reaching a wider acceptance among the backpackers community.