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Go Travel Application

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Abstract— Finding a certified Halal restaurant and a Muslim-friendly accommodation when traveling may sometimes be difficult as this information is not usually publicized or available online. As such, traveling to unfamiliar destinations may be troublesome for many novices' Muslim travelers. Go Travel application is a mobile app that provides all the information needed by Muslim travelers when traveling for holidays or on a business trip. Nowadays, most application need users to turn on their location setting on their devices if they want to find any information that are related to destinations and it can be inconvenience for them to turn it on and off at most time. Therefore, our application only needs an active internet connection to operate. This ensures that the users can use our application without any problems. Other than that, our users can find all information that they need in one application only, hence this can save their time and energy. Detailed information concerning certified Halal restaurants, the location of the nearest mosque and surau, prayer time, and Muslim-friendly accommodations are loaded in this mobile app. Similar to other mobile travel apps, Go Travel application also allows users to compare prices, make reservations and payments, as well as plan and manage their travel itinerary. This can save time and energy for the travelers as they only need to click on the application to plan for their next trip. This user-friendly mobile application is designed to ensure Muslim travelers are able to travel with ease to any destinations worldwide.

Keywords— mobile application, Muslim travelers, foods, travel app, Halal

I. INTRODUCTION

Travel is defined as an act of moving from one place to another place for purposes such as leisure, medical purposes, or for work purposes [1]. People often travel using various types of transportations, either air transportation, water transportation or land transportation. People often travel during holidays, but sometimes they also travel when they have some free time. Travellers are usually travelling to a place that is a little bit far from their home most of the time.

The technology has been widely used since 2000 [2]. This leads to various mobile applications being developed for people to use whenever they want. Most importantly, there are quite a number of mobile applications that are designed to help people to plan their travel itinerary. Some examples of travel mobile applications are such as Trivago, Traveloka, Booking.com and more. All of these mentioned mobile applications give travellers information regarding their travel plans such as the attractions, the accommodations, the transportation and the lists goes on. Travel-based mobile applications are the 7th most downloaded application category and it is used by 60% of the smartphone users while planning for their trips [3].

However, although there are lots of travel application that can be used, there are no travel applications that fulfil the needs and wants of the Muslim travelers when they are traveling. There are approximately 160 million Muslim travelers around the world in 2019 [4]. Muslim travelers need information regarding the destinations that the travelers want to visit, but these

information are difficult to get especially on the travel application and thus makes it hard for the Muslim travelers to travel with confident. Fortunately, Go Travel application provides these information for Muslim travelers such as lists of certified Halal restaurants, lists of Muslim-friendly accommodations, prayer time, nearest mosque at the countries that they want to visit. Based on these, Go Travel application are developed in order to help Muslim travelers to travel with ease and confidence especially when they are visiting new countries that they are not familiar with.

II. MATERIALS

A. Mobile Application

Mobile application is a flexible, easy-to-use, portable and dynamic information application. The application offers a range of services for Muslim tourists through their Smartphone's or similar Smartphone. Mobile application also can help Muslim tourists easily get the necessary information before traveling. This fully integrated all-in-one app not only helps Muslims with their everyday faith bases requirements, but also assists in planning the ideal Muslim-friendly trip. Therefore, the mobile app, commonly referred to as the app, is a type of application software designed to run on a mobile device, such as a Smartphone or tablet. Mobile phone applications often provide users with services similar to those that are accessed on a personal computer.

B. Muslim travelers

The number of Muslim travellers is growing in size and value, attracting the attention of the tourism industry around the world. Global Muslim Travel Index (GMTI) showed that in Figure 1. Before the Covid-19 pandemic struck, halal tourism was experiencing exponential growth. Close to 160 million Muslim tourists traveled in 2019. In 2020 this dropped down to 42 million. Over 90% of the 42 million traveled in the first three months of 2020 before most countries closed their borders. Forecasts that by 2023, halal tourism will have covered 80% of the departures recorded in 2019, before the pandemic calamity.

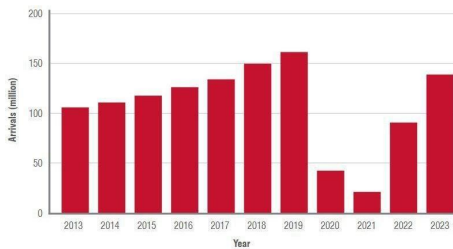


Fig. 1. The growth of the Muslim travel market.
(Source: Global Muslim Travel Index 2021.)

C. Food

Food is easy to find if using this application because can help the Muslim Travelers finding halal restaurant at any place or country. This application can detect a halal status of the products and give knowledge of awareness to have confident in order to choose the halal product.

D. Travel App

Travel application will have all the information needed by the Muslim Travelers to travel in one application only. Some of the information that are available in this travel applications such as prayer time, lists of certified Halal restaurant, Muslim-friendly accommodations and more.

E. Halal

Halal logo is very important to Muslim consumers as sign that the products can be consumed. The mobile apps may help those companies or organisation in doing halal audits as part of the preparation and inspection phase to make the process of applying for the halal certificate easier. Muslim travelers can find any restaurant that are certified Halal with the end of their fingers [5]. They only need to have an internet connection to use the application.

III. METHODS

Using a modified waterfall model process, the Go Travel mobile application will be developed successfully. The original waterfall model has been changed to better fit the application development process[6]. The requirements collection and analysis phase, design phase, and implementation phase are the phases of the modified waterfall model that were borrowed from Govardhan's original waterfall model. To go on to the next step, each of the phases must be finished. This is so that the outcome of one phase can serve as a sequential reference for the subsequent phase. All potential system specifications that need to be generated are gathered and recorded in a configuration specification document during the requirements collection and analysis process. The system's design is being created in the second phase, which is design, while the requirements specifications from the first phase are being analysed. During the design phase, the system's general architecture will be established. The application has been created in accordance with the design from the design phase and is now in the implementation phase.

Because it emphasises consistency and thoroughness in documentation, waterfall has been chosen as the technique for creating the mobile application. The waterfall technique will even provide a step-by-step approach for the developers; this will result in precise and understandable instructions for building a fully working mobile application. In addition, the waterfall model's several stages each have unique deliverables and evaluation procedures. Last but not least, the phases of the modified waterfall are explicitly described to make them simpler to comprehend and put into practise.

Our application is designed carefully so that it is easy to use by our users and can help our customers in finding halal restaurants, accommodation muslim friendly and mosque at any place or country that they plan to visit in the future. They only need to have an internet connection to use the application, sign-in or log in into the application and start searching for the locations that they are planning to visit in the future.

IV. RESULTS AND FINDINGS

The result of the project is the "Go Travel" Mobile Application. The main feature of Go Travel is we are focusing in fulfilling the Muslims travelers needs and users can create their own itinerary.

Figure 2 shows an app sign -in search. Users and administrators have the same interface. This interface allows users and admins to log in to the app and the app can show a page to find halal food. This will solve the first problem of spending too much time looking for a certified Halal restaurant.

Figure 3 shows selecting their country Users and administrators have the same interface. This interface allows users and administrators to search the location of their place to find halal food and the app will only display nearby restaurants based on the selected location. This is the solution to the second problem statement which is to have a hard time searching for information regarding the destination because with this application simplifies their affairs quickly.

Figure 4 shows choosing their restaurant. administrators to find the restaurant you're looking for. The preparation and application will only show halal restaurants in the area based on the type of food selected. Finally, this will address the third problem statement, which is to be able to find halal restaurant nearby by placing the selected area.

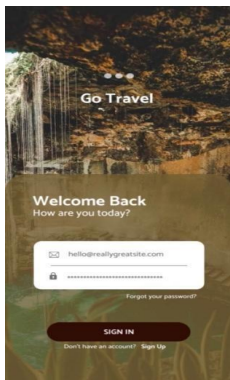


Fig. 2. Sign Up or Log In



Fig. 3. Choose their country

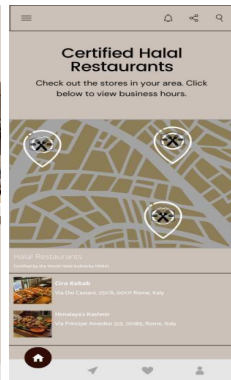


Fig. 4. Choose Restaurant

V. CONCLUSIONS

To conclude, Go Travel application can help Muslim travellers to travel without any doubt to another country as Go Travel application provides all necessary informations that are related to the needs and wants of the Muslim Travelers.

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