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Kampus Sungai Petani

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EZ-TRAIN MOBILE APP

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ABSTRACT

"Ez-Train Mobile App" is an application which is specially created for train users such as KTM, LRT, MRT and Monorail. Ez-Train's objectives are to introduce an E-wallet system for consumers to purchase the ticket online and scan the QR code to enter the train, facilitate consumers to find the closest station around them, and ease consumers to arrange their time accordingly the train's schedule. The most significant novelty is that no one has yet created such an application for the use of train users that can gain a variety of uses. This is because up until now, there is still no use for an application for the train users that are multi-purposes like this mobile application. This application special criteria, as what we have mentioned above it is not just can be used by users who only want to use KTM, in fact it can also be used for the LRT, MRT and Monorail services. The usefulness of the Ez-Train's is the top-up can be done by using online banking system that will be linked with this application where you can put an amount of money. Plus, when they top-up their account, they will collect loyalty points and discounts. Other than that, users can track the train through the map and they will get all the information about the train's location live, including the tracking number on which the train is arriving, the scheduled arrival times, the expected departure times, next upcoming stop, the train's intended destination and all intermediate station updates. Users also can check the availability of the train's seat and choose their seat. This product specification allows new users to register and sign in with multiple social media such as Facebook, Instagram, Twitter and Email.

Keywords: Ez-Train, E-wallet, E-digital, E-app, E-pay

EZ-TRAIN MOBILE APPLICATION

"Ez-Train Mobile App" is an application that can be downloaded from Apple and Android users. This mobile app is specially made for the train users who will likely use the train as their primary public transportation wherever they go. We named this mobile application as "Ez-Train Mobile App" because of its ability to provide an online ticket booking service for various types of trains available in the Klang Valley district. The word for 'Ez' is referring to the word 'easy', which means this mobile app can ease the users to catch any trains via this application.

The creation of Ez-Train Mobile App would make the train users ease their purchase of train's ticket pass only by using the E-wallet because, up until now there is still no such application that can be an E-wallet service for the train consumers who wanted to use various types of train services in Klang Valley district such as KTM, LRT, MRT and Monorail. KTM stands for Keretapi Tanah Melayu, LRT stands for Light Rapid Transit, while MRT is known as Metro Rail Transit. The top-up for the E-wallet can be done by using an online banking system, where it will link with this application and users can put such amount of money to top-up. Users can also use their credit and debit card to top-up the E-wallet.

Ez-Train aims to facilitate the train users by providing all the information about the train that they want to use. This is where the services contained in this application is not only an E-wallet, in fact, it also includes other services. For example, there will be the features of the services such as to track the train's route, to know the train's schedule, to check for the seat availability, to look into their booking history and allows the users to connect this application with their social media account.

Hence, Ez-Train Mobile App is indeed a multi-purpose application that specially created for the train users who use train services as their main public transportation for various purposes. In addition, the services provided by this application may also facilitate tourists who want to travel and explore the beauty in Malaysia while using the train service in the Klang Valley district.

OBJECTIVES

- 1) To introduce an E-wallet system for consumers to purchase the ticket via online and scan the QR code to enter the train.
- 2) To facilitate consumers in finding the closest station around them.
- 3) To ease consumers in arranging their time accordingly the train's schedule.

THE NOVELTY OF EZ-TRAIN MOBILE APP

Before we go further with our innovation product which is the 'Ez-Train Mobile App' for train users for KTM, LRT, MRT and Monorail, it is not enough to just do something right in order to be considered innovative. It is just a matter of doing things in a new way. Often the variations are minor, but other times they are massive, with innovations of Ez-Train Mobile App and developments that are entirely different from those that come before or access to available trains seat availability for any location to help the users prevent any last-minute inconveniences. The important thing is it allows the users to arrange or book train tickets with ease.

By using Ez-Train Mobile App allows new users to register or sign up with multiple applications where they can connect the main KTM, LRT, MRT and Monorail social media to secure user's account. Certain apps ask people to register before using the app, while others do not require signing up. By doing so, users could see the many capabilities that an app provides, which allows them more aware of the services that can become accessible after registering (Wallwood, 2019).





THE IMPACT ON THE COMMUNITY AND ECONOMY

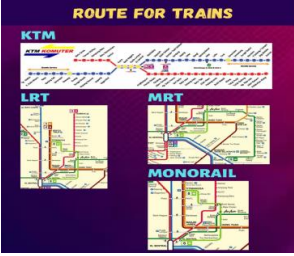



The primary impact of this app is that the users can use Ez-Train Mobile App to reduce their wait time. For example, they can use Ez-Train Mobile App to know the time of their walk to a stop or station. According to Brakewood (2021), the more people can get to those multi-modal, real-time transportation apps, the better informed the user will be and the better choice they can make. So, by using Ez-Train Mobile App, people can choose their better journey transportation by selecting which transportation station they would use and allows to purchase the ticket via online and also the users just need to scan the QR code to enter the train.

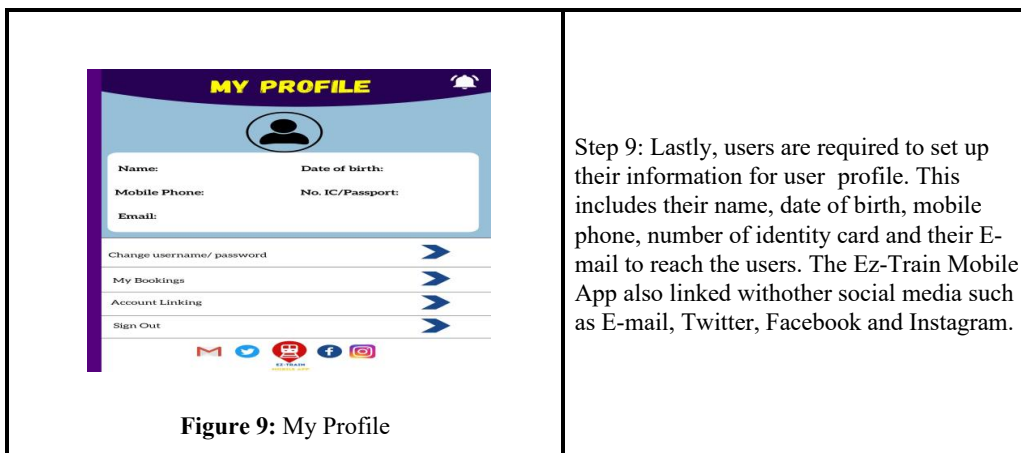
Other than that, mobile apps have played a more serious role in economic growth as well. Economists and other researchers have been discussing this for the last few years, an application in the economy driven by the surge of mobile applications and their role in growth. Therefore, by having Ez-Train Mobile App, it can generate a lot of money for the developers. When people are aware of the development of this innovation and the uniqueness of Ez-Train Mobile App that it has to offer, it will attract people to download this application.

PROCESS OF USING EZ-TRAIN MOBILE APP

Table 1. Ez-Train Mobile App Process

Process of using Ez-Train Mobile App	Description
 <p>Figure 1: Register</p>	<p>Step 1: Firstly, users need to install the mobile application. Ez-Train Mobile App can be download by android or Apple users. Then, users can sign up and log in using their social media sites such as Facebook, Twitter, Instagram or through their Gmail.</p>
 <p>Figure 2: Service Types</p>	<p>Step 2: Secondly, after completing the registration, user will proceed with this page. This is where the user will be able to see the services provided in this application.</p>
 <p>Figure 3: Schedule</p>	<p>Step 3: Thirdly, after the users select buy ticket, users will go to this page where they can select a ticket and manage their train schedule.</p>
 <p>Figure 4: Select A Seat</p>	<p>Step 4: Fourthly, Ez-Train Mobile App will ask the user to select a seat. Users are free to choose the coach and select any seat they want depends on the seat availability.</p>

 <p>ROUTE FOR TRAINS</p> <p>KTM LRT MRT MONORAIL</p>	<p>Step 5: Fifth step, after completing the schedule page, users can identify the route they will take based on the train that they will use. This also allows users to know which station is the closest to them.</p>
 <p>Close</p> <p>QR CODE</p> <p>SCAN FOR ACCESS</p>	<p>Step 6: The sixth step, this is the QR code page where users need to scan the QR code at the gate counter to have access entering the train. This can make it easier for users not to have to queue long if they only use cash to buy tickets.</p>
 <p>E-WALLET (TOP-UP)</p> <p>(1) Enter Your Preferred Amount</p> <p>Minimum RM 10</p> <p>RM 50 RM 100 RM 200</p> <p>(2) Select Payment Method</p> <p>FPX Online Banking</p> <p>Credit/Debit Card</p>	<p>Step 7: The next step is E-wallet (top-up). In this part, users can top-up their E-Wallet with any amount they prefer, which is the minimum of RM 10 or RM50, RM 100 until RM 200. For the payment method, there are two methods that user can use, which is via online banking or credit/debit card.</p>
 <p>NOTIFICATIONS</p> <p>Booking History</p> <p>E-wallet Updates</p> <p>Ez-Train Updates</p>	<p>Step 8: The Ez-Train Mobile Apps will notify the users to keep them in their minds and enhance their experiences and add value to the services they used. The mobile apps include Booking History, E-wallet updates and Ez-Train Updates.</p>



Step 9: Lastly, users are required to set up their information for user profile. This includes their name, date of birth, mobile phone, number of identity card and their E-mail to reach the users. The Ez-Train Mobile App also linked with other social media such as E-mail, Twitter, Facebook and Instagram.

Figure 9: My Profile

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