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**UHMT1012-30 GRADUATE SUCCESS  
ATTRIBUTES**

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**FINAL PROJECT REPORT**

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SECTION : 30-1SECR

COURSE NAME : BACHELOR OF COMPUTER SCIENCE  
(COMPUTER NETWORK & SECURITY)

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DATE OF SUBMISSION : 5<sup>th</sup> December 2019

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## Introduction

Sustainable Development Goals (SDGs) are the blueprint adopted by the United Nations Member States in 2015 to achieve a better sustainable life in the future. There are about 17 SDGs all interconnected and needed to be achieved in 2030. Some examples of SDGs are 'No Poverty', 'Gender Inequality', 'Climate Action' and others. These SDGs are integrated which mean different countries take the actions to achieve the goals together and make sure there is no one left behind. Among the 17 Sustainable Development Goals, we choose 'Reduced Inequalities' as our topic and we focus on the disabled people in this project. The reason why we choose this topic is that discrimination or inequalities towards disabled people still exists. We must clear about the fact that disabled people also belong to a part of our community, and they should be equally treated just like normal people. Hence, we decide to investigate this sustainable development and come out with a prototype that can solve the problem encountered in these SDGs. Our final aim is to minimize the boundary between them and normal people and promote a caring society in the future.

## Problem background

Disabled people are the people who have the physical or mental impairment in long-term adverse effect and they are unable to do the daily routines normally. According to the World Health Organization (WHO), most of the disabled people are women, old folks, children and poor adults. Most of them cannot afford health care because of a lack of health care provider's skills and it is twice harder than normal people to get health treatment. Besides, the employment rate for disabled people is lower compared to normal people which are 53% and 20% for disabled men and disabled women while 65% and 30% for non-disabled men and non-disabled women. Moreover, in Organization for Economic Co-operation and Development (OECD) countries, non-disabled people (75%) were almost twice to disabled people in job employment. Next, the government will give allowances to disabled people to reduce their burden but some of them do not apply the allowances that offered by the government because they do not get the information, do not know how to apply it or perhaps feel ashamed to apply for financial assistance. Other than that, some public transports in Malaysia are still not friendly-user, especially for disabled people. Some bus or train do not provide facilities and services for the disabled people. Hence the public facilities have to be improved to make them live a better lifestyle.

## Research and Review

We had created a Google Form about disabled people and let 30 people (5 disabled and 25 non-disabled) to fill-up the form. The google form consists of only 4 questions and those questions are related to interviewee's knowledge about disability benefits. From the google form, we found that 12 people (40%) know that the company will offer job opportunities to the disabled people but 18 people (60%) do not. The next question is about parking especially for disabled people and 28 people know that and 2 people are not sure about it. After that, 25 people know that transports such as monorail, train, bus provide seats for disabled people but 5 people do not. The last question about the government gives the allowances to disabled people to help them and 8 people (26.67%) choose 'yes', 15 people (50%) choose 'no', and 7 people (23.33%) choose 'maybe'.

From the survey, we can conclude that more than half of the people do not know that companies will offer jobs to disabled people and the government gives the allowances to disabled people. Most probably people know the things that can be seen but do not know the information related to disabled people like jobs employment and allowances otherwise they are disabled people.

The questions in the Google Form can be shown at Appendix page.

## Proposed solution:

As a concern towards the fact that disability benefits are not commonly well known in Malaysia, here we are going to propose our solution as an initiative steps to reduce inequalities towards disabled people. Our product is a mobile application called “I-AM-ABLE” that can aid disabled people in their daily life. Five main functions are included in this application, which are:

- Able Job
- Able Parking
- Able Discount
- Able Allowance
- Able Transport. (The functionalities will be discussed later.)

When we design the application, 3 main concepts are applied to let the application become more user-friendly. The concepts are:

1. Keep the graphical user interface (GUI) simple but not dull

We want our users to pick this application up easily. Complex design will make the application looks to be dazzled and we don't want this to happen.

2. Informative

We will filter out irrelevant contents and show only the useful ones to our users. We ensure that users can get precise information as this is what they expect to obtain.

3. Multilingual

The translation is made to provide a better understanding for the user as our application target are disabled people no matter what races they are. Simple vocabularies are used to avoid misunderstanding as well.

## What should do?

To use this application, one must first register him or herself as our application's user. The two registration steps are as follow:

1. Fill in their full name exactly like what it was written on their identity card.
2. Enter their own unique disabled card registration number and identity card number.

To prevent any misusing of our application by normal people, we obtain the government support to get the database from Department of Social Welfare Malaysia and detect the validity of every disabled card registration number and identity card number entered by the user. Only when the name, identity card number and disabled registration number are all matches, then only the registration steps can be done. At the same time, we guarantee that we would not abuse the information obtain from the database in any form.

When the users have completed their registration procedure, the application will:

1. Ask users to set location mode to high accuracy on their smartphone.

This is a crucial step for the application to determine the location of the user and the application will suggest suitable to be displayed. For example, Able Job will show nearby job available from users' location to the users based on the location detected.

2. Request users to fill in their personal information on their profile page.

The information that is compulsory to be filled is their date of birth, gender and contact number. Vehicle plate number is highly recommended to be filled if users have their vehicle to be used in Able Parking later.

3. Ask user to upload their profile picture.

It is a safety measure that we made and we require user to change it once a fortnight regularly. Correct and precise personal information is useful for the functions to be worked well in Able Job and Able Allowance.

We will also ensure the personal information and profile picture obtained is highly confidential and secured.

## How it works?

The users can use these functions easily as we have made the interface simple and easy to understand in order for them to get used to this application faster. All the functions have the exact same meaning as their name. Notice that all application interfaces are shown at Appendix page.

- Able Job

“Able Job” is a platform at which the users can find a job (which is specifically for disabled people only) nearby to their location. Users are free to view all the employer information, the working requirement, job description and estimated salary given by the employer. The users can apply their desirable job to the employer and wait for further notice. Hence, the accuracy of the information of the user’s profile is important as misleading information may cause the failure of getting a job. The employer will have a video call as an online interview with users.

At the same time, if the user cannot find a job that suits him or her, the user can reserve his or her desirable job field, expected salary preferred working hours on “Job Booking” interface. Once a new job which is related to the user’s requirement is available, the user will then be noticed.

This can help the disabled to gain confidence as they will feel they are still being needed by society and lead them towards successful live. Thus, with this feature provided by ‘I-AM-ABLE’ application, they are able to develop some new skills and able to live by themselves without depending on anyone.

- Able Parking

If the users are driving a vehicle and arrive at their destination, sometimes they might have difficulty to find a parking place. Hence, the “Able Parking” feature can solve this problem. “Able Parking” can show the correct path of going to the disabled person parking place. What the users have to do is just follow the route given and they can find a parking place to park their vehicle. When the user is nearby to the location of parking slot, 3 different icons be viewed on the interface (Please refers to Appendix page – “Able Parking”). If the disabled person parking place is being occupied by other vehicles, the user can press the icon to check whether the owner of the vehicle is registered as I-AM-ABLE user or not, as vehicle plate number is requested when the user first using the application. For your information, when the users found a parking slot and park their vehicle, the application will automatically assume that the users already park their vehicle when the moving speed is 0 km per hour. Then, the application will remove the availability of the parking slot and use the vehicle plate number entered by the user as the vehicle plate number that parked the slot.

If the users found that a normal person misused the disabled person parking place, the users can report to the person in charge by sending a message through our application directly. This function not only can help the disabled people to find parking easily but also prevent the people from misusing the parking slot provided for the disabled people.



- Able Pay

“Able Pay” is basically a simple interface with just an e-wallet icon, and another icon to show all available promotions. An amount of 10% discount will be given if users spend money at some restaurants, hotels, shopping mall or other available units that showed in the list based on the location detected. The payment procedure is very simple, the users just have to scan the QR code given by the shops and that’s it. We encourage our user to pay their bill using this function as we are promoting our society towards cashless payment, and furthermore most payment can be made through Able Pay.

- Able Allowance

“Able Allowance” is a page at which the I-AM-ABLE users can find the allowance given or provided by government agency or non-government agency. The users can apply for the allowance if they fulfil the requirement set by those agencies. This function can help the disabled people to apply for allowance whenever they have financial issues. Another benefit of using I-AM-ABLE app is the users don’t have to personally go to the agency which they apply the allowance from to hand in the application form. The agency will then investigate the application and if they found any suspicious information about the profile of the user, they can have a video call to that particular person to clarify it.

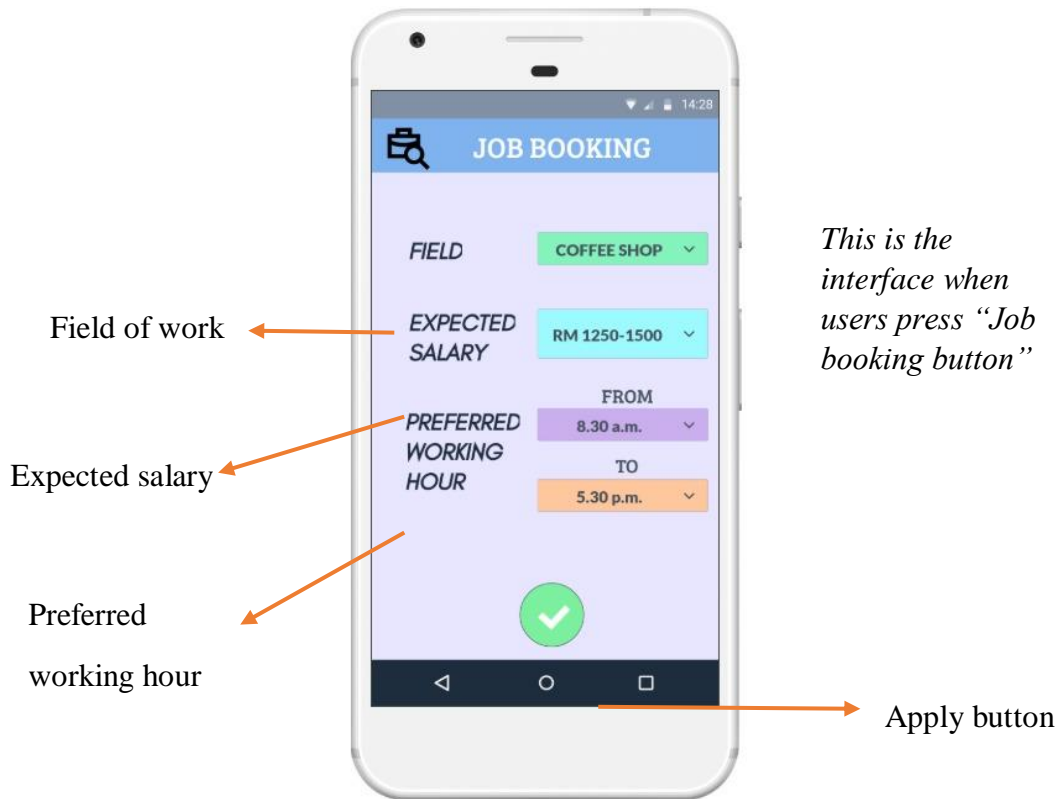
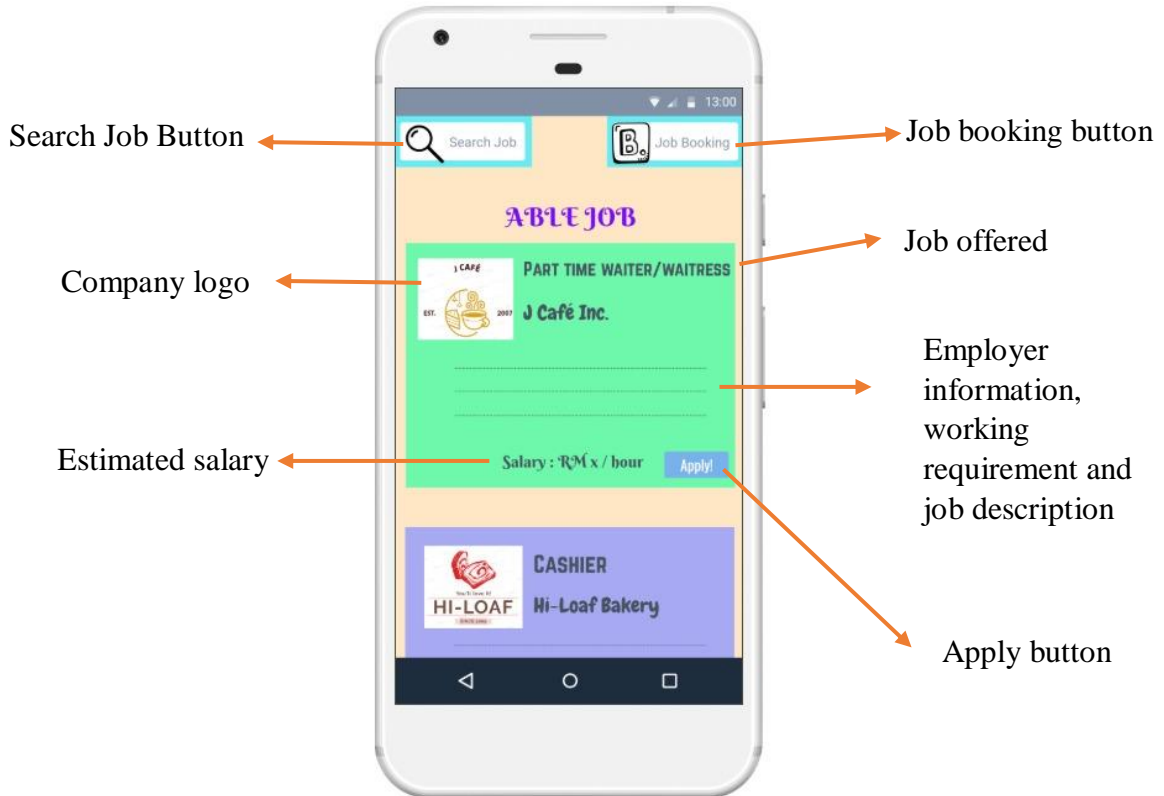
If the users had successfully apply for the allowance, the allowance will directly be transferred into the e-Wallet of I-AM-ABLE application and the users can use this allowance for the other functions of this application. The user is free to transfer the money from the e-wallet to their saving account anytime also. Thus, this function can definitely help the disabled and reduce the inequality within and among the countries.

- Able Transport

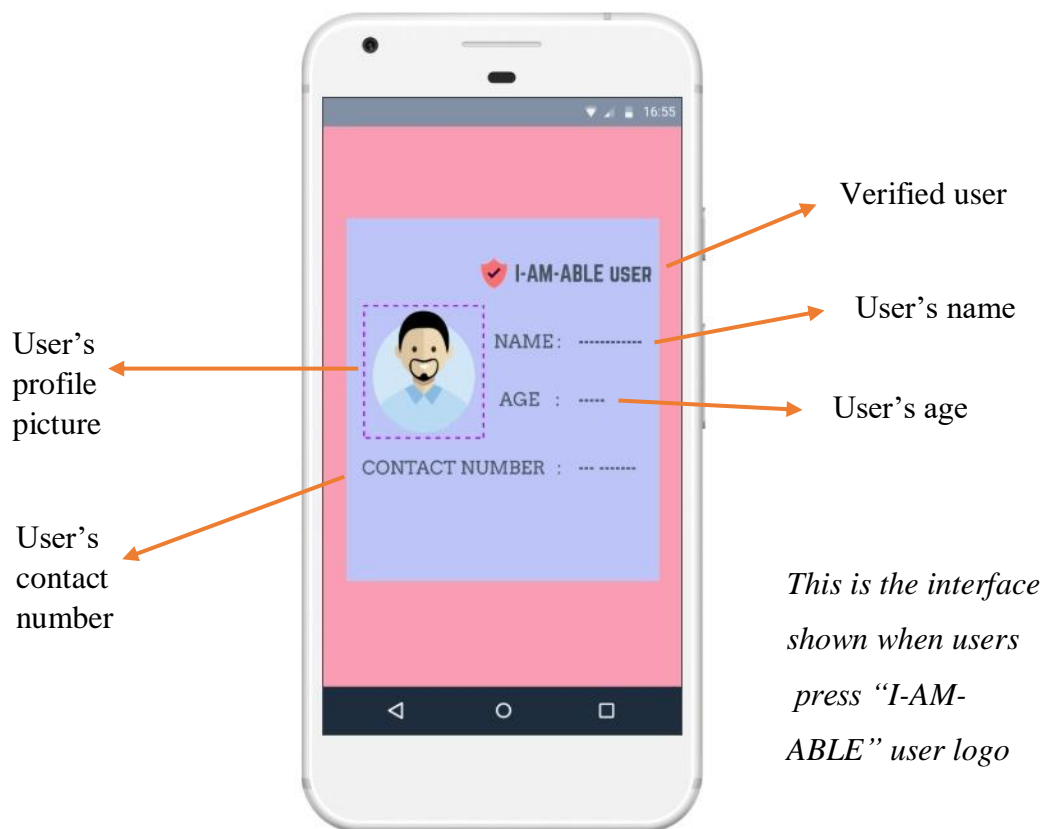
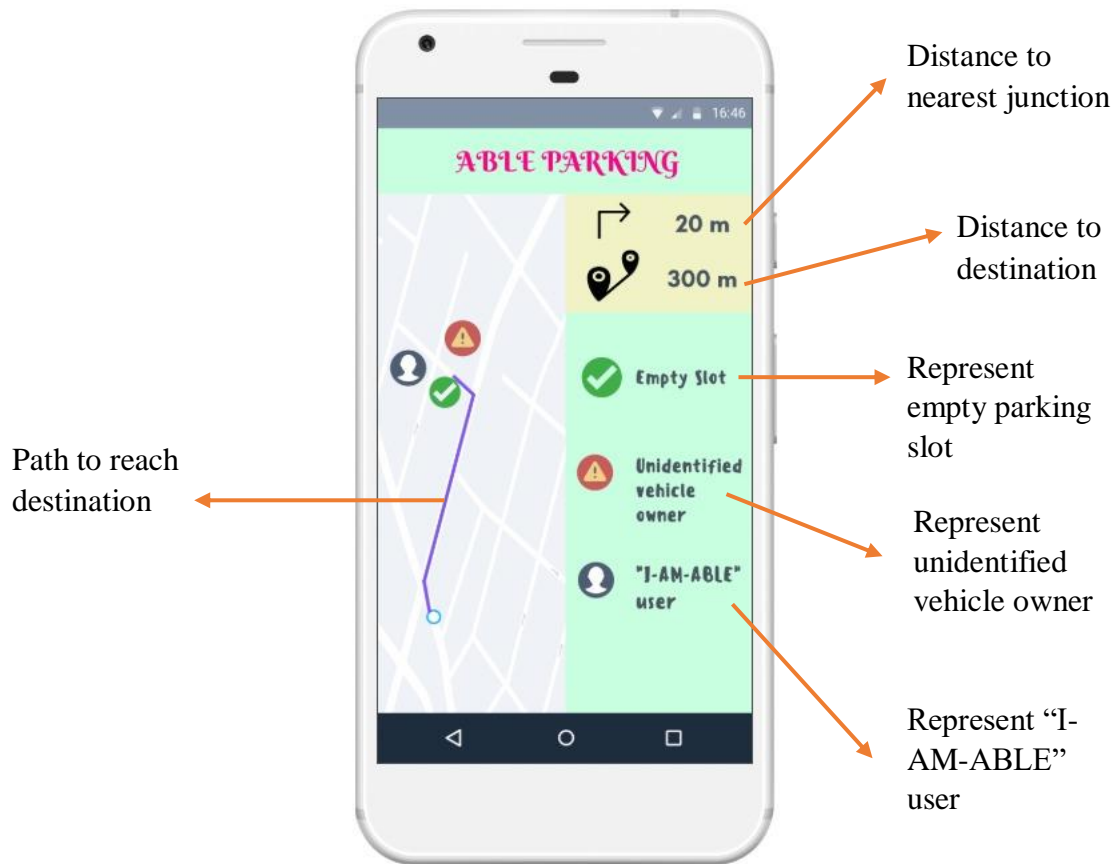
“Able Transport” is a feature for the users to use public transportations such as bus, train, taxi and so on with cheaper fees. With the collaboration with the agencies that are willing to provide cheap transportation fees, there are many packages provided for the users to choose and the prices of all the packages are affordable and reasonable. For example, the users can buy a bus package with as low as RM 10 and RM 100 for train package, based on the decision made by the company that offered the package. All the payment must be made through the e-Wallet of ‘I-AM-ABLE’ as it is a convenient way to make transaction. Afterwards, the user can take the vehicle of package bought without paying the money within the period set by the agency that provided that package. At the same time, certain limitation such as distance per trip will be determined by the company offered. By introducing this function, we hope that disabled person can be socially active and tends to keep in touch with the world outside, and not be pessimistic and practice self-isolation.

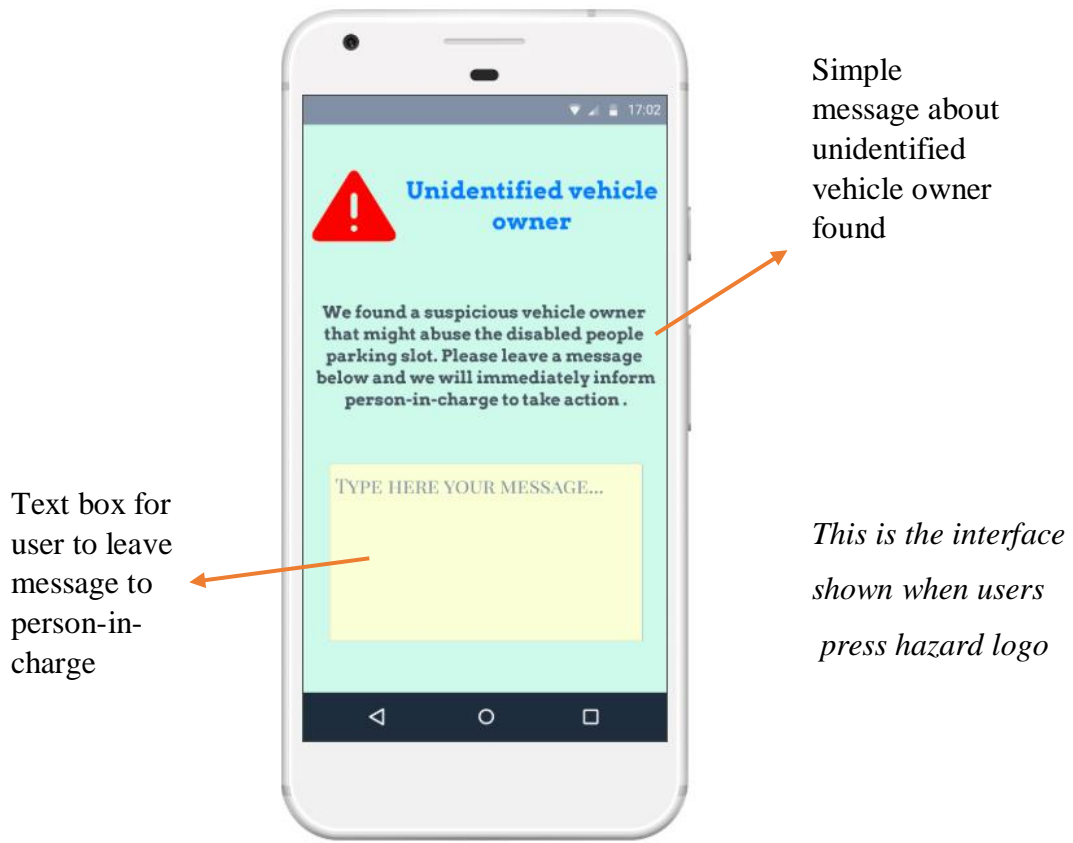
# Appendix

(a) Able Job



(b) Able Parking

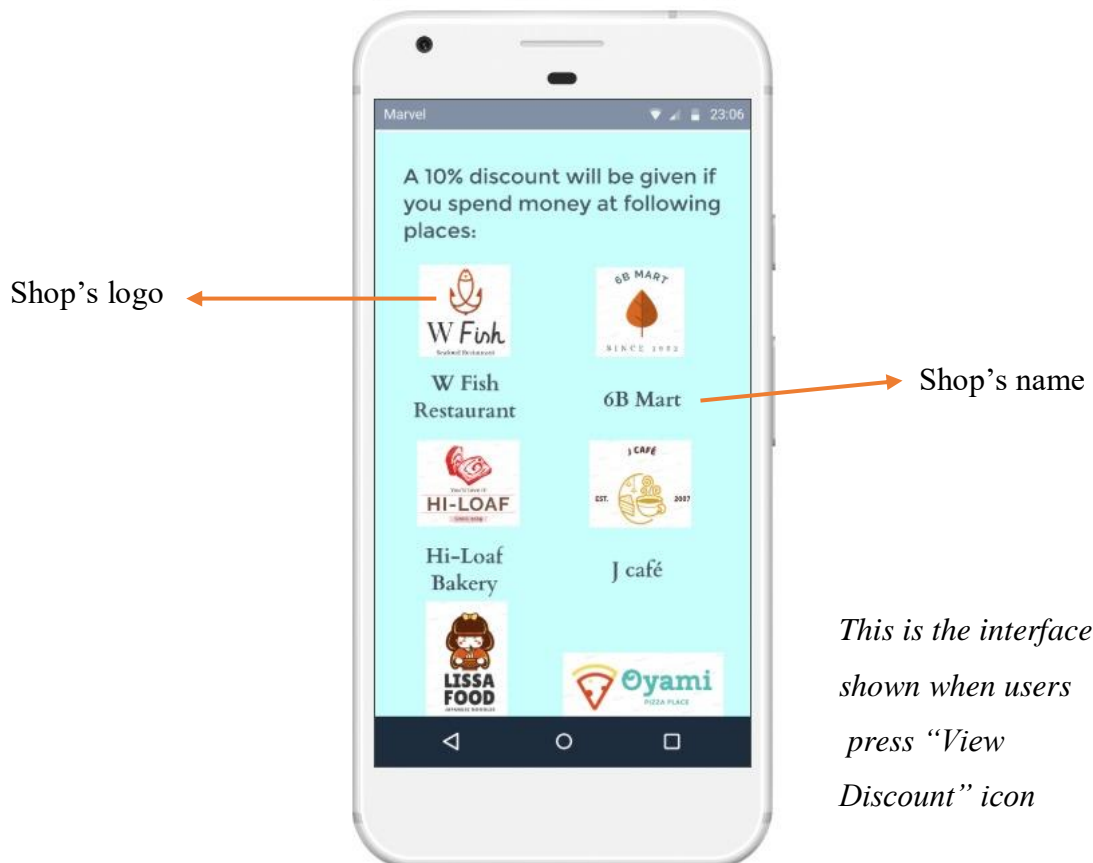
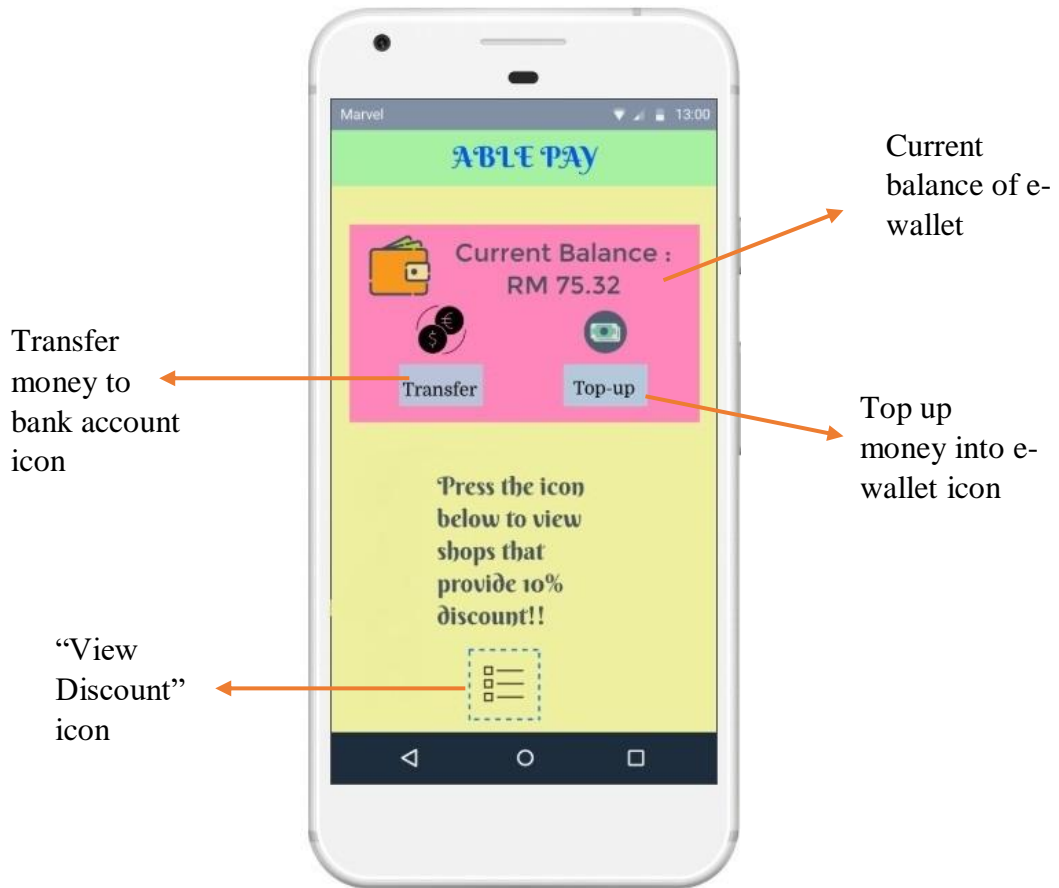




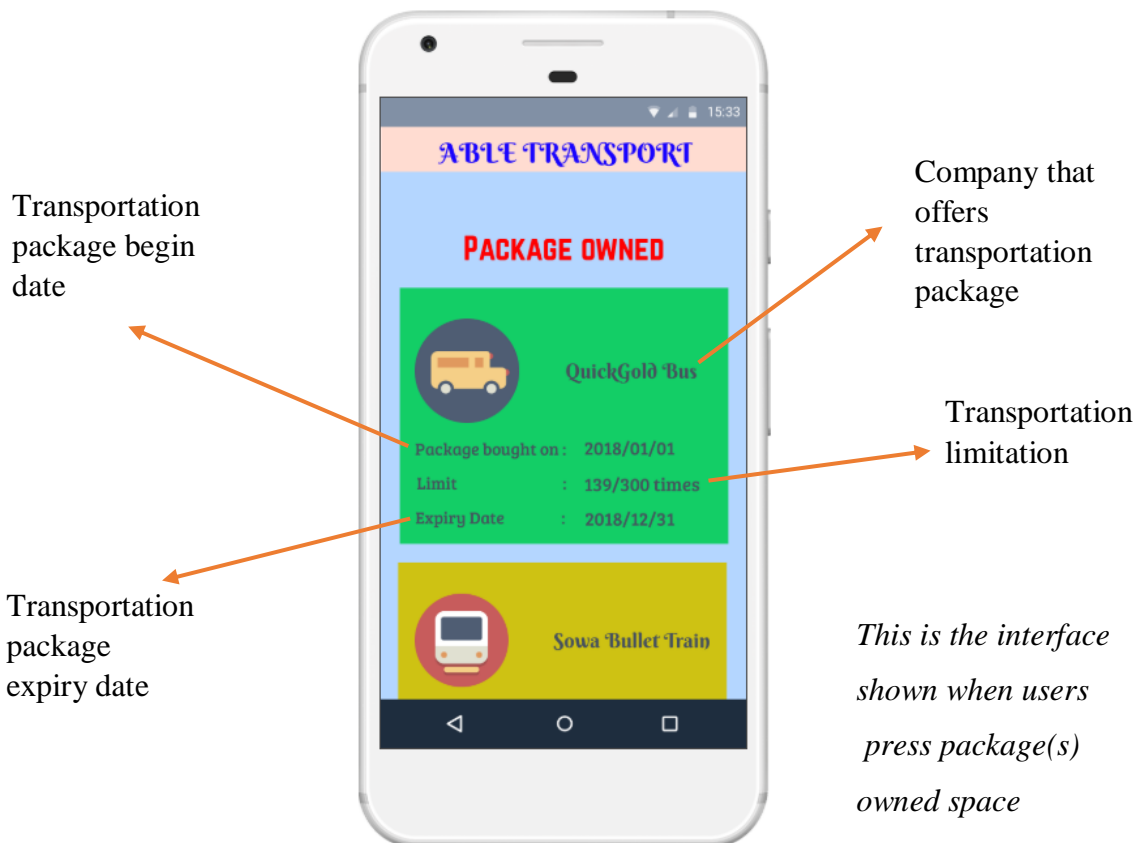
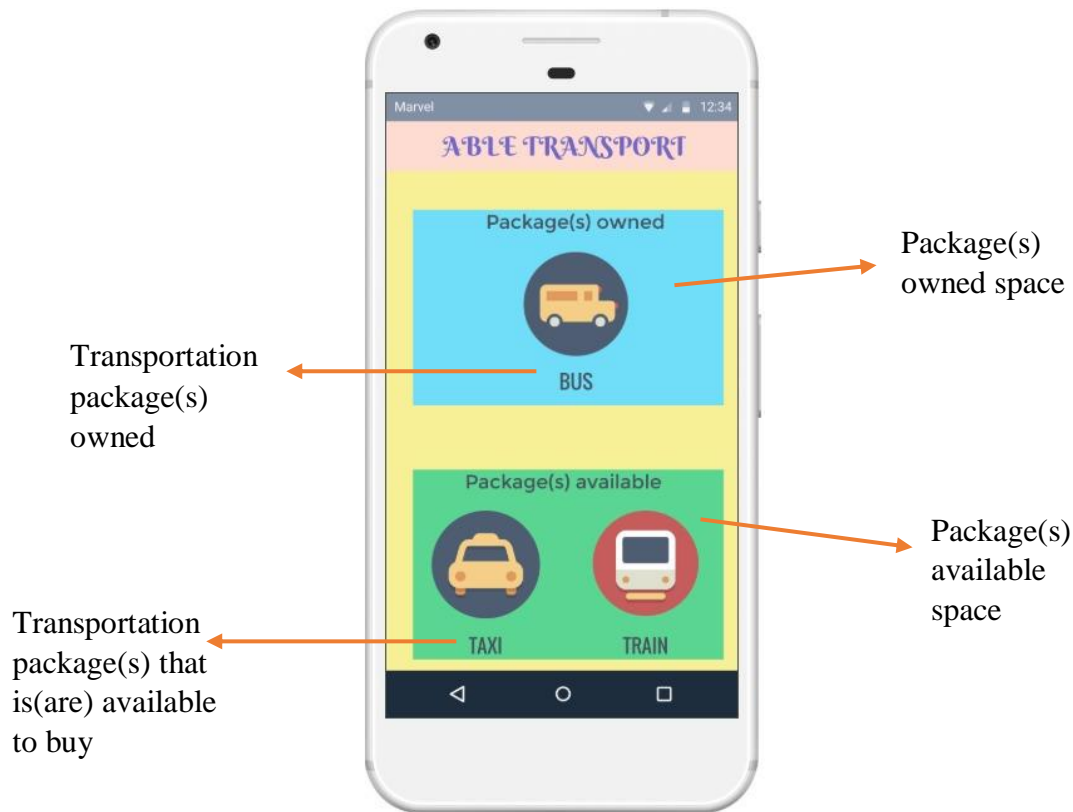
(c) Able Allowance

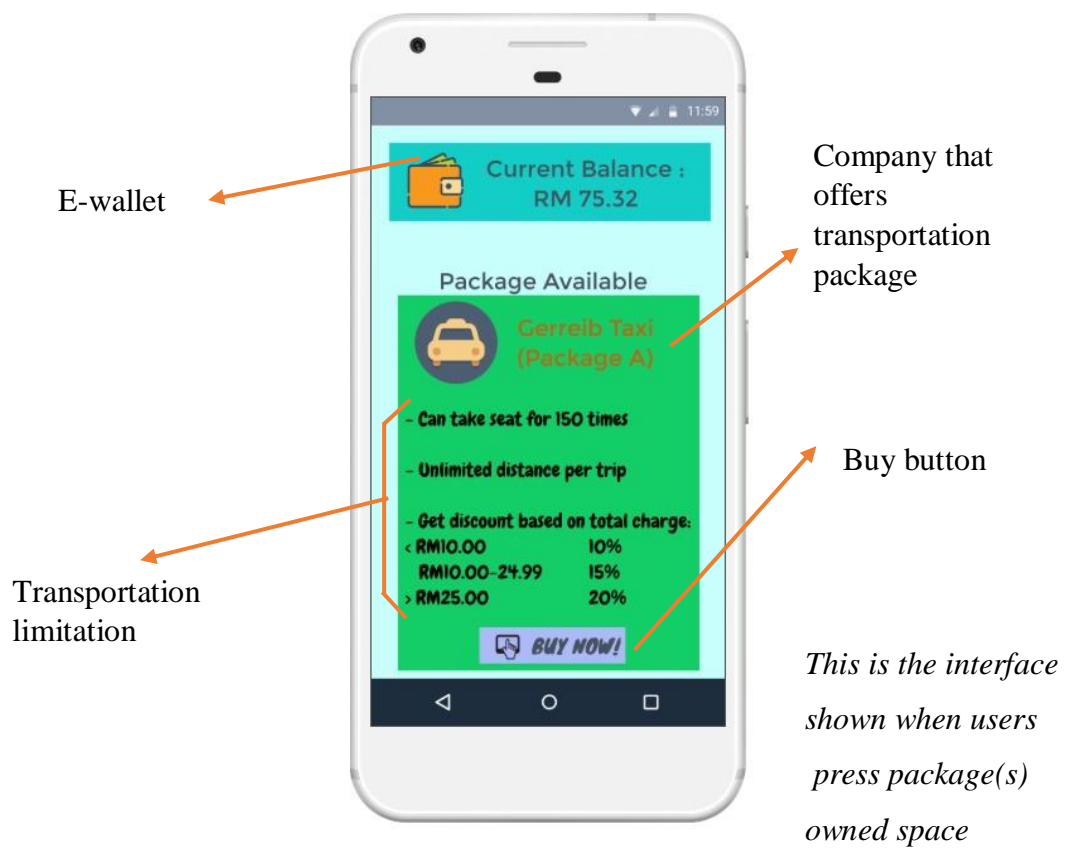


(d) Able Pay



(e) Able Transport







(f) Google Form questionnaire's questions

## Assignment GSA about Disabled People

for disabled people

Did you know that the public transport such as train,monorail,bus provide special site for disable people?

Yes

No

Did you know that the company offer job oppurtunity to disabled people?

Yes

No

Did you know that there's parking especially for disabled people?

Yes

No

Maybe

Did you know that the government will give the allowance to disabled people?

Yes

No

Maybe

## Meeting minutes (1)

**Date:** 11/11/2019

**Time:** 8.00p.m. – 9.00p.m.

**Venue:** KTDI student's room

**Attendance:** Siah Weng Tze, Chua Kek An, Eyu Si Xiong and Low Wei Chieh

## Meeting agenda

Item	Meeting agenda	Results, Action taken, PIC
1	Choose the topic among 17 Sustainable Development Goals	Choose 3 topics that relate to our course
2	Choose the best topic among the 3 topics(Zero Hunger, Good Health and Well-Being, Clean Water and Sanitation)	'Zero Hunger' as our topic
3	Discuss the idea and separate the work	Idea: Weng Tze Presentation(mahjong paper): Wei Chieh, Kek An, Si Xiong

## Meeting minutes (2)

**Date:** 13/11/19

**Time:** 9.15am-10.30am

**Venue:** KTDI Student's Room

**Attendance:** Siah Weng Tze, Chua Kek An, Eyu Si Xiong and Low Wei Chieh

## Meeting agenda

Item	Meeting agenda	Results, Action taken, PIC
1	Discuss the points to be written on the mahjong paper	
2	Start writing and decorate the mahjong paper	Mahjong paper is completed
3	Present our idea to lecturer at 11.00am class	
4	Send the picture of mahjong paper through e-learning	Sender: Wei Chieh

### Meeting minutes (3)

**Date:** 18/11/2019

**Time:** 7.30pm-9.00pm

**Venue:** KTDI student's room

**Attendance:** Siah Weng Tze, Chua Kek An, Eyu Si Xiong and Low Wei Chieh

### Meeting agenda

Item	Meeting agenda	Results, Action taken, PIC
1	Idea has been rejected and need to think a new idea	
2	Start to brainstorm, each person thought one idea and picked the best	Wei Chieh's idea has been chosen Topic: Reduced inequality (disabled people)
3	Discuss the topic and separate the word	PIC: Interface and presentation slide: Wei Chieh Design: Weng Tze Report: Kek An Si Xiong
4	End of meeting	

## Meeting minutes(4)

**Date: 26/11/2019**

**Time: 4.00pm-5.00pm**

**Venue: KTDI student's room**

**Attendance:** Siah Weng Tze, Chua Kek An, Eyu Si Xiong and Low Wei Chieh

## Meeting agenda

<b>Item</b>	<b>Meeting agenda</b>	<b>Results, Action taken, PIC</b>
1	Discuss on how to modify the project become better	
2	The progress of each group member	Interface and Presentation slide (completed): Wei Chieh Design(completed) Weng Tze Report and marketing strategy: Kek An, Si Xiong
3	End of meeting	

## Belbin Team Role Circle

<b>NAME</b>	<b>TEAM ROLE</b>	<b>REASON</b>
WEI CHIEH	Specialist  Resource Investigator	<ul style="list-style-type: none"> <li>- I always think deeply how to make our application runs well and find the loopholes.</li> <li>- I have the passion to make our solution better and better. I do not stop leading the team finding out the bugs or the problem maybe appear in our solution and solve it with our team members.</li> </ul>
SI XIONG	Team-worker  Shaper	<ul style="list-style-type: none"> <li>- I always listen and obey to my team members and follow the instructions.</li> <li>- I always think positive and can works well under pressure. I do not start my task earlier but always manage to finish it nicely before our due date.</li> </ul>
KEK AN	Shaper  Team-worker	<ul style="list-style-type: none"> <li>- I have positive mindset and I always encourage my members whenever they face difficulty finishing their task.</li> <li>- I give fully cooperation in the project and fully support the decision made by our team and follow the instruction well.</li> </ul>
WENG TZE	Plant  Team-worker	<ul style="list-style-type: none"> <li>- Because I can come out with creative ideas but sometimes are not the useful one.</li> <li>- I am willing to finish my task nicely that been distributed to me and I also willing to cooperate and communicate with members to complete our project nicely.</li> </ul>

## Levin & Kent Checklist

<p><b>1. We all show equal commitment to our objective.</b>  <b>Reason:</b> Every one of us handle different task based on our strengths.</p>	√
<p><b>2. We all take part in deciding how work should be allocated.</b>  <b>Reason:</b> Before we make any decision, we tend to have a meeting first and make the decision after listened to all members' opinions.</p>	√
<p><b>3. We are committed to helping each other learn.</b>  <b>Reason:</b> We tend to share with each other what reference we refer to for ourselves to complete our task, and when there is question, we help each other to solve it.</p>	√
<p><b>4. We acknowledge good contributions from team members.</b>  <b>Reason:</b> We manage to done each task within the time limit and every one of us take up the responsibility to done our tasks nicely.</p>	√
<p><b>5. We handle disagreements and conflicts constructively within the team.</b>  <b>Reason:</b> We stay calm and listen to different opinion when there is disagreements and conflicts. We do not reject any ideas right away but bring it to consideration and figure how whether it works or not.</p>	√
<p><b>6. We are able to give constructive criticism to one another and to accept it ourselves.</b>  <b>Reason:</b> We are not use to comment and give advice to each other.</p>	
<p><b>7. We all turn up to meetings and stay to the end.</b>  <b>Reason:</b> Everyone is giving full cooperation.</p>	√
<p><b>8. We are good at making sure that everyone knows what's going on.</b>  <b>Reason:</b> We did the meeting minutes for each meeting and also update what we have done time to time in our WhatsApp group.</p>	√
<p><b>9. When one of us is under pressure, others offer to help him or her.</b>  <b>Reason:</b> We did not know whether anyone of us is under pressure or not.</p>	
<p><b>10. We trust each other.</b>  <b>Reason:</b> We trust each other and do not limit each other in completing our own tasks.</p>	√
<p><b>11. We remain united even when we disagree.</b>  <b>Reason:</b> We do not have conflict and we understand that our main goal is make this project a success. Hence, we always have good communication when there is disagreement shows up.</p>	√
<p><b>12. We support each other to outsiders.</b>  <b>Reason:</b> We do not really get any bad reviews from outsiders.</p>	
<p><b>13. We feel comfortable and relaxed with one another.</b>  <b>Reason:</b> We enjoy cooperate with each other and we always done our tasks nicely.</p>	√

## Reference

- Ford, L. (2015, Jan 19). *Sustainable development goals: all you need to know*. Retrieved from <https://www.theguardian.com/global-development/2015/jan/19/sustainable-development-goals-united-nations>
- Hollar, D. (Ed.). (2018). *Advances in Exercise and Health for People with Mobility Limitations*. Springer.
- Oliver, M., & Sapey, B. (1999). *Social work with disabled people*. Macmillan International Higher Education.