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MyConvenient Travel Application

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Abstract

Abstract— Nowadays, the population of disabled people has increased, raising awareness about their right to use public services, including those in the tourism industry. Although these disabled people are often overlooked, they are still a part of society. Disabled people typically receive less attention in the tourism industry, thus the MyConvenient Travel application can assist them if they intend to travel and this can contribute to higher satisfaction level. The main objective of this application is to help disabled people to search for places of interest that provides facilities for disabled people hence make the trip easier. This is since most places in our country are not accessible to the disabled. Furthermore, the government should take appropriate action in ensuring the disabled have access to these places without feeling hampered. The second objective is to provides up-to-date, accurate, and dependable accessibility information for tourist attractions. In some ways, this application could be used to assist people with disabilities with their travel itinerary. Finally, this application reduces the social exclusion of people with disabilities in society. With this application, it shows to the people with disabilities that they are not being ignored but appreciated by the society

Keywords—disabilities, guide me, handicapped, disabled tourist, incapacitate

I. INTRODUCTION

Mobile application and technology have increase and growth rapidly since the early year of 2012 (Parker, 2019). Mobile application is essential to all people including the disabilities people. There are many things that can be done using a mobile device such as education, games streaming and many more. According to Techopedia (2020), Mobile application consists of software or a set of programs that runs on a mobile device and perform certain task for the user. Advances in technology and mobile applications should be shared equally to the people with disabilities because they are still part of this world. People with disability is prominent in our society and it is very important that other people live and work in communities that are inclusive to those with limitations and provide necessary supports to them in various sector including tourism sector. Therefore, there is an application for the disabled people called MyConvenient Travel application.

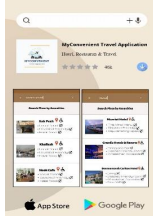
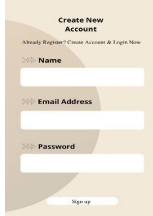


The uses of this application on the disabilities users can help them to do many things that they cannot afford to do by themselves. There are many reasons why MyConvenient Travel application should be applied to people with disabilities. According to the Department of Statistics Malaysia (2018), the number of disabilities people registered estimated to 453 258 persons. These special peoples will get more benefits if they use this application especially when they want to travel and search the places that can suits them well. In addition, the government also should take appropriate action on this matter to ensuring the disabled people have access to the places without feeling hampered. Moreover, this application also makes travelling easier for people with disabilities because there are various places of interest with the facilities provided. Besides providing much information about the destination, this app also provides a guide to assist the journey of disabled people.

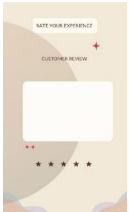

II. OBJECTIVE

- i. To reduce the social exclusion of people with disabilities in society
- ii. To provide up-to-date, accurate, and dependable accessibility information for tourist attraction
- iii. To help disabled people to search for places of interest which provide facilities for disabled people

III. METHODS

MyConvenient Travel Application is an application that can assist disabled people in making their journey. This application provides many benefits to disabled people, such as providing more information about the destination. Besides that, MyConvenient Travel Application also provides a guide to assist the journey of disabled people. The table below shows the interfaces design of MyConvenient Travel Application.

Interface design	Description	Interface design	Description
 <p>STEP 1</p>	Download MyConvenient Travel Application in your Android or iOS	 <p>STEP 2</p>	Create your account
 <p>STEP 3</p>	Select your type of disabilities	 <p>STEP 4</p>	After you select the type of disabilities, the application will suggest the suitable hotel, restaurant and service for you

 <p style="text-align: center;">STEP 5</p>	<p>Next, you can request a guide to help you during the journey and pay them</p>	 <p style="text-align: center;">STEP 6</p>	<p>After the request and payment have been made, you have to wait for the guide to arrive at your destination to pick you up</p>
 <p style="text-align: center;">STEP 7</p>	<p>Rate the service and application</p>	 <p style="text-align: center;">STEP 8</p>	<p>Thank you for using our service. Enjoy your journey. Please have a pleasant one.</p>

IV. RESULT AND FINDINGS

MyConvenient Travel Application is essential for people with disabilities. According to Carole (2022), they need to find business locations, parking spots, and even restrooms that are easily accessible to them. Thus, MyConvenient Travel Application is one of the applications designed to assist disabled people in their travel. People with disabilities face a variety of barriers, according to Burgstahler (2012). However, technology is assisting in reducing many of these barriers, such as the MyConvenient Travel Application, which aids in the journey of people with disabilities. Next, travelling can be stressful, but travelling with a disability significantly raises the stakes (Cherednichenko, 2018). Fortunately, the MyConvenient Travel Application will be able to alleviate the burden placed on people with disabilities while travelling. According to Anuprayaas (2021), an application is accessible if it meets specific specialised standards and can be used by all people with disabilities. As a result, with the MyConvenient Travel app, it can help people with disabilities access the information they need specifically to help their journey while travelling run smoothly. The primary function of this application is to provide a guider who assist the disabled people in reaching their desired destination, which will alleviate some of the burdens on the disabled. Furthermore, their desire to visit exciting tourist destinations will be satisfied by this application. According to Nor Mohd (2022), holidays for the disabled always present difficulties and opportunities for innovation. Therefore, the presence of MyConvenient Travel Application will help people with disabilities to enjoy their vacation more comfortably. The application also provides information about exciting vacation spots and facilities for the disabled at the destination.

V. CONCLUSIONS

In conclusion, the desire of people with disabilities to travel grows year after year. The idea of designing an app for the disabled was probably daunting ten years ago (Cherednichenko, 2018). However, with today's technological advancements, the options for people with disabilities are vast, diverse, and uniquely designed. The advancement of technologies can help the disabled population integrate more smoothly into society. MyConvenient Travel Application was created to allow their desire to visit exciting places to be fulfilled. According to the research, many disabled people want to travel but lack the confidence to interact with others while doing so. Furthermore, many disabled people require an application to help them in their everyday routines. As a result, MyConvenient Travel Application needs to add more trials in the future to get a better result on this topic.

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REFERENCES

- [1] Department of Statistic Malaysia Official Portal. (2018). Social Statistics Bulletin Malaysia 2018. https://www.dosm.gov.my/v1/index.php?r=column/c%20themeByCat&cat=152&bul_id=NU5hZTRkOS0RvZwRytTRE5zSitLUT09&menu_id=U3VPMldoYUxzVzFaYmNkWXZeGduZz09
- [2] Parker, J. (2019, August 28). 10 years of growth of Mobile App Market - Blog | Knowband. Knowband Blog | Ecommerce Modules. <https://www.knowband.com/blog/mobile-app/growth-of-mobile-app-market/>
- [3] Techopedia. (2020, August 7). Mobile Application (Mobile App). Techopedia.Com. <https://www.techopedia.com/definition/2953/mobileapplication-mobile-app>
- [4] Dagang News. (2021, December 31). Orang Kurang Upaya perlu lebih bersuara di tahun 2022. <https://dagangnews.com/orang-kurang-upaya-perlu-lebih-bersuara-di-tahun-2022-11807>
- [5] Martinez, C. (2022, March 9). 9 Must-Have Apps for People with Physical Disabilities in 2022. Inclusive City Maker. <https://www.inclusivecitymaker.com/apps-people-physical-disabilities/>
- [6] Burgstahler. (2012). Working together: People with disabilities and computer technology. UW. <https://www.washington.edu/doiit/working-together-people-disabilities-and-computer-technology>
- [7] Anuprayaas. (2021, October 7). Accessibility apps features for people with disabilities. Anuprayaas - Making India Accessible. <https://anuprayaas.org/some-features-accessibility-apps-must-have-for-the-people-with-disabilities/>
- [8] Cherednichenko, S. (2021, July 15). Top 4 most popular types of applications for disabled people. Mobindustry. <https://www.mobindustry.net/blog/top-4-most-popular-types-of-applications-for-disabled-people/>