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Telecommunication: Travel Portable Data (TPD)

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Abstract : Nowadays, most of the people have been facing the same problem which is the internet when they travel out from their local place. As a solution, our team members have created an idea that can solve internet problems for any individuals. Usually people have low internet coverage (line) to some places. And this sometimes will affect their intentions or desire from the usage of the internet.The idea is inspired by the 'powerbank' method which is often used by people to carry extra batteries for their mobile phones. But we have thought of a different idea to create a new invention that will carry internet/data (line) in the portable device or similar to powerbank. The steps are started by finding a way to transfer the internet coverage/data (line) into the device and make it portable. The size of course has a limitation (GB) and the product will surely be high in cost. This product can be a handful to a lot of people, mainly for people who committed jobs at some kind of places that are difficult to get access to the internet connection (line) such as forests, seas, rural areas and others. Advances in mobile technology are expected to create innovative experiences for consumers

Keywords: Travel Portable Data, Internet, Jobs, Mobile communication technology

1. Introduction

With the increasing popularity of fifth-generation mobile communication technology (5G), mobile technology will further change people's lifestyles and the operation mode of many industries. Among them, the influence of mobile technology on tourism is very significant [1]. Mobile technology has become a necessity for tourists. People are assisted by various mobile devices and can travel more freely and conveniently than ever before through mobile technology. Linton et al. [2] pointed out that during travel, maps or navigation apps are the most common activities that people use on their mobile devices. Moreover, people check the weather, find restaurants, look for things to do, participate in social media

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(particularly sharing photos), read restaurant recommendations, find local stores, research hotel services, and conduct booking, which are roughly the basic activities in regular travel.

In addition, Szark-Eckardt [3] believed that travel-related mobile applications generate added value through the synergy and mutual influence of a healthy lifestyle, travel passion, and modern technology. Such an added value is one of the factors that increase the attractiveness and usability of tourism. For example, with the introduction of location-based sensing functions (e.g., Global Positioning System) on mobile devices, related applications can provide tourists with customized services that meet their needs based on their current location. As a result, tourists can obtain a richer, more beneficial, and immersive experience than before. Therefore, the new development of mobile technology enables the recommendation system to combine the user's personal situation and preferences, using numerous opportunities to provide highly accurate and effective travel recommendations [4]. Mobile connections also adopt new methods to connect with social networks, gradually integrating online and offline, and tourists can interact with the Internet across space and time. This connection improves their chances of sharing in the user community of social networks [5] while extending travel to virtual spaces. The virtual reality and augmented reality (AR) devices that have been widely used in travel in recent years are mostly based on mobile technology [6].

Travel Portable Data or TPD is one new invention of wireless internet for people traveling out from their local place. Usually people have low internet coverage at some places. Besides that, sometimes it will affect the tourist's intentions or desire from the usage of the internet. This problem could minimize their satisfaction while travelling and it may be the cause of this place not to be a repeat destination for the tourist [7]. In order to solve the problem our members have created an idea that can solve this problem. Travel Portable Data is an innovation from several existing applications for users that are travelling to the rural area to encourage them to get connected with other people around the world. This innovation differs in terms of visually attractive interface, offers various options as well as it is user friendly.

2. Materials and Methods

The first method we use is observational, because we often see people who are travelling to their outbound destination usually buy a SIM local card for access data or internet connection throughout their whole trip or visit. Secondly, we use case study by doing a survey of few case studies about things that are related to data problems or the challenges that are faced to gain access to the internet in rural or forest areas. Last but not least, we use secondary data to gather all information regarding our product by using information provided from online research documents. The following illustrates our device charging to a smart phone.

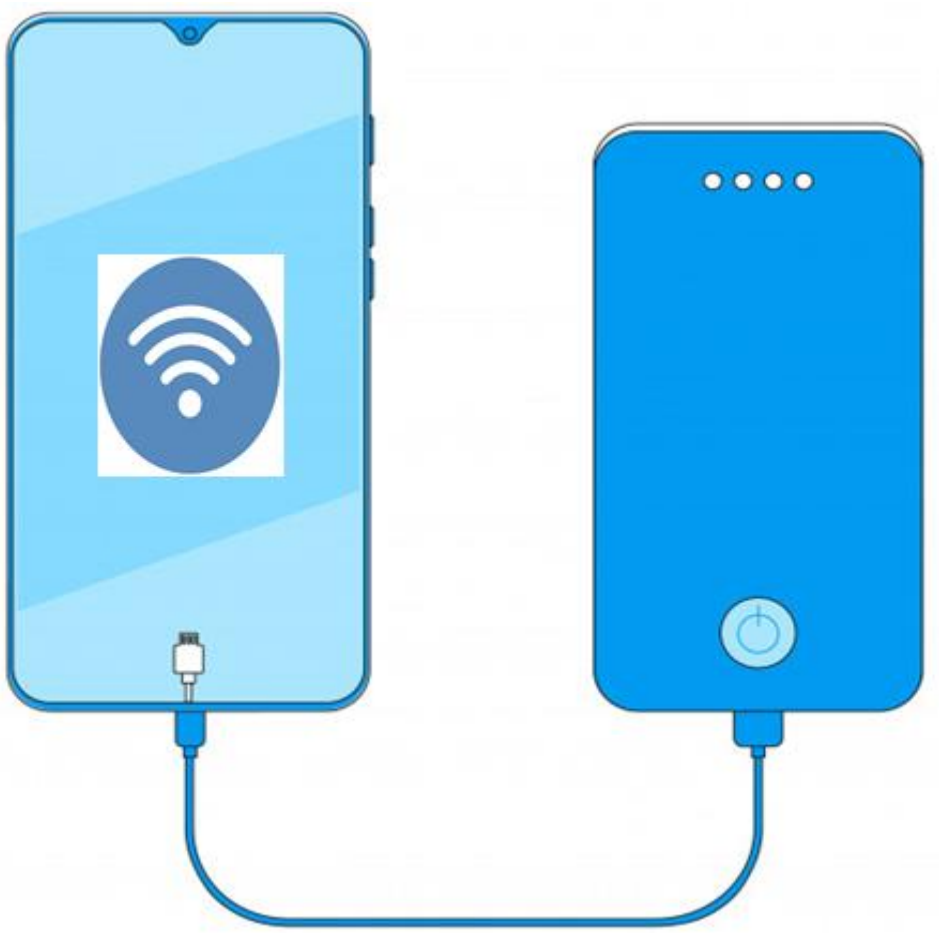

Figure 1: TPD charging to a smart phone

2. Discussion and Conclusion

TPD is a very important tool to bring along when you travel. When your mobile phone or other gadget runs out of batteries and you are nowhere near an electric socket, simply plug them to a power bank. The importance of having this tool are many includes its portability. TPD are lightweight and they are so small that it can even be carried around with you. Some of this innovation are unique and come in much smaller designs, but no matter what they look like, they are very useful wherever your destination may be. Second, it contains multiple sockets. This is very convenient, especially for traveling families who need all their cell phones charged all at once. It is also very useful for the traveling businessman with multiple gadgets, that needs to be powered up before a meeting. Thirdly, compatibility. TPD is a universal charging tool that works well with different types of brands. It is designed to not only cover power mobile phones, but also different types of gadgets like the iPad, digital cameras, mp3s, mp4s and iPod. Fourth, it consumes energy minimally. Its greatest feature is its ability to power your gadgets for several hours or until it lasts, while consuming only a small amount of energy when its charging. It attaches to a USB port so it can be recharged through a laptop or a car charger. Finally, this innovation is inexpensive. They are so affordable that there is no excuse of not owning one. It is a very useful tool that does not require any high investment.

However, this innovation has some limitations such as may have the tendency to make batteries of gadgets run shorter, whenever it has been charged excessively or charging it even though the battery

has not drained completely. They have a short cord, which can be hard to carry, especially when there's a phone attached.

Nevertheless, TPD is an innovative device that brings potential to every phone/laptop owner. With TPB, you're rest assured that your devices will not go off abruptly due to low battery and the fact that they are also super affordable and easy to carry around. Data or internet access is not a problem when you have TDP in your grasp.

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