**ASSIGNMENT 2 FRONT SHEET**

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| **Qualification** | **BTEC Level 5 HND Diploma in Computing** | | |
| **Unit number and title** | Unit 13:Computing Research Project | | |
| **Submission date** | 17/12/2022 | **Date Received 1st submission** |  |
| **Re-submission Date** |  | **Date Received 2nd submission** |  |
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| **Student declaration**  I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice. | | | |
|  |  | **Student’s signature** |  |

**Grading grid**

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| P6 | P7 | M4 | D3 |
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| **❒ Summative Feedback: ❒ Resubmission Feedback:** | | |
| **Grade:** | **Assessor Signature:** | **Date:** |
| **Internal Verifier’s Comments:** | | |
| **Signature & Date:** | | |

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# Introduction

Research paper on "Wearable Medical Devices impact on human life and environment" has been completed in previous report. My research has yielded useful and accurate information. But beyond that, it's still not perfect. During my research, I have learned from mistakes and lessons from them. In addition, I also have more experience in researching, organizing, and collecting information to answer the questions of this topic. In this second report I will review what I have researched. Experience will be drawn and evaluated. Minor mistakes will also be drawn so that they can be learned and improved in the future.

# I. Reflect on the effectiveness of research methods in this research project

## 1. Research proposal

With the topic of digital transformation, the researcher found this to be a very broad topic. After considering various topics, the researcher chooses a medical related topic. Wearable electronic devices were selected by the researcher as a representative for research. With sequential research, I had a very clear strategy to achieve my goal. Research really becomes easier when steps are laid out in advance. The trade-off is flexibility, but sequential research helps me to cover the issue in the best way without missing any stage.

To study about "Wearable Medical Devices impact on human life and environment ", the researcher posed the following questions:

* What is wearable medical device?
* What are wearable medical devices used for?
* What advantages do wearable medical devices offer?
* Should people use wearable medical devices?
* Do wearable medical devices have bad impact on environment?
* How can we recycle wearable medical devices?

Researcher started by looking at what wearable medical devices are. These devices have sensors that can accurately measure the indicators of our body. The basic stats that these devices can measure such as heart rate, steps, body temperature, etc. In addition, these devices can also send this information to experts for analysis. health to study. Researcher also researches and shows examples of different types of wearable medical devices. These types of equipment are hot products on the market in recent years.

To talk about the benefits of wearable medical devices, the researcher has a very clear analysis in the research paper. These devices are very user-friendly. Those who own these devices, with the advantage of background health diagnosis, users can detect diseases early without having to worry about constant health checks at the hospital. Speaking of regular check-ups, these devices monitor users' health continuously, so that helps them reduce the number of health checkups in a year. It also helps them feel more confident about their health. It is not only normal healthy people who can take advantage of wearable medical devices, but patients or elderly people also make the best use of them. With the help of such devices, doctors can easily monitor the health of many patients. The doctor can know the patient is in need of help just through the screen, and can respond to them immediately. The elderly are similar, if a bad turn occurs, these devices will send an emergency signal to their loved ones to promptly help them.

Finally, the researcher points out why we need to recycle these devices and how to recycle them simply. And at the same time, researchers also interview and survey people to find out how they feel about wearable medical devices. Researcher has collected user experiences as well as people's thoughts on how these devices affect the environment.

## 2. Literature review

A literature review looks at books, scholarly articles, and papers on the subject of wearable medical devices and provides an overview, summary, and critical assessment of these works in light of the study I was looking into. The literature review in research proposals aims to summarise the current state of knowledge on a subject and to outline the anticipated contribution of the proposed research to knowledge. The literature review gives me an overview of the sources I used to research the effects of wearable medical device. A literature review will also demonstrate to readers how your research fits into a larger body of knowledge. A literature review isn't always just a list of key sources, especially in the social sciences.

We have collected a lot of data through quantitative research and quantitative research. They help me highlight the convenience and importance of wearable medical devices. Especially when we use interviews and surveys, we also know how people feel about the impact these devices have on the environment. In addition, we learned the importance of recycling those devices through everyone's understanding of the issue.

## 3. Research method

### 3.1. Secondary reseach

Through our research, we have gathered a lot of information. This information helps us orient and broaden our understanding of this topic.

Wearable medical devices are sensors that can accurately measure the indicators of our body. These devices can measure such as heart rate, steps, body temperature, etc. In addition, these devices can also send this information to experts for analysis. These types of equipment are hot products on the market in recent years.

Wearable medical devices are very user-friendly and have the advantage of background health diagnosis. Users can detect diseases early without having to worry about constant health checks at the hospital. Devices monitor users' health continuously, so that helps them reduce the number of health checkups in a year. It also helps them feel more confident about their health.

With the help of wearable medical devices, doctors can easily monitor the health of many patients. The elderly are similar, if a bad turn occurs, these devices will send an emergency signal to their loved ones to promptly help them. The doctor can know the patient is in need of help just through the screen, and can respond to them immediately.

Finally, the researcher points out why we need to recycle these devices and how to recycle them.

### 3.2. Primary research

**Interview**

I decided to interview students who are enrolled in Hanoi-area universities for my audience. They are people who can easily adapt to new technological devices at this age, in my opinion. especially now that wearable medical technology is so popular. Seven to ten randomly selected students will be interviewed.

We received the most accurate information from the interviews. Participants' interest was evident when they discussed how they used wearable medical technology. Numerous apps have been released, including those that count steps, measure heart rate, remind users to drink water, etc. Through these devices, participants can also identify their habits. They can safely check in when they feel unwell thanks to devices like these, even though continuous monitoring isn't always possible.

The target demographic is young, making them a very active group. Wearable medical devices, according to them, should be available to everyone. These tools also assist the elderly and sick in alerting family members or hospitals so they can receive prompt assistance.

We got very unexpected answers when we probed further about how these electronic devices affect the environment. Few people who believe college-age students really consider it. To save on emissions and natural resources, they also contend that electromagnetic waste needs to be recycled. The participants were also eager to convey important information regarding how e-waste recycling affects not only their family members but also the neighborhood. This actually contradicts our predictor.

**Survey**

Survey research is the most crucial tool for all quantitative outcome research methodologies and studies. Several methods, including online polls, online surveys, paper questionnaires, web-intercept surveys, etc., were used to collect data from a sample of respondents. A survey is defined as a research method used to collect data from a pre-selected group of respondents in order to learn more and acquire fresh viewpoints on a variety of fascinating topics. Due to its ease of use and the enormous number of people it can reach depending on the research time and objective, survey distribution is one of the most important aspects of conducting quantitative outcome research.

At Greenwich University in Hanoi, we'll restrict the pool, and everyone will complete the survey. To carry out this activity, we used a Google form online. The best way for me to gather quantitative results is through a survey.

Both interview and survey result has been present in the result. To gather the most accurate and up-to-date data possible, a combination of both interview and survey methods were employed.

## **4. Role of the tutor in research**

This is the second research paper I've written. Not a lot, but I still have a lot to learn. He is honest with students and responds to their inquiries right away. The study could not have an aim if our tutor did not approve my topic. Our tutor assisted us with our research questions for interviews, surveys, etc., and we are grateful for the knowledge we have obtained.

# II. Mistake, Lesson learnt and improvement

## Mistake and lesson learnt

It's a pity we only took a short time to prepare for this project, but if we could get more data,   
then everything would be more accurate. Despite the short amount of time we had to prepare for this project, I still feel that I learned a lot.

In addition, if possible, we would like to exploit more types of information. We can expand the survey more. For example, by taking the time to interview older generations, we can gain a better understanding of the subject matter and develop our project further. Despite the limited time we had to prepare for this project, I still feel that I learned a great deal and grew both professionally and personally

If possible, we also want to interview experts in both health and technology to learn more from them about their experiences and research. That helps our research have deeper development directions and exploit more of this topic. By interviewing experts from both the health and technology fields, we gain invaluable insight into how the topic is viewed by those with expertise in their respective fields. We can then use this data to draw more informed conclusions about our project and gain a better understanding of the subject matter, allowing us to develop our project even further.

## Improvements

We should go to hospitals where we can directly observe doctors taking care of patients through wearable medical devices. Actual observations will give us an overview of what these devices bring to the medical field. Through direct observation of these devices, we can gain an even better understanding of the nuances and complexities involved in their use. By going to the hospitals and observing directly, we can further our understanding of the subject matter and draw even more informed conclusions.

One thing that I need to improve is my time management skills to do primary research. If that skill is better then I will be able to study more subjects and make the amount of data more accurate. Finally, increase the persuasiveness of my personal research papers.

# Conclusion

Through this report, I have reviewed the research of Wearable Medical Devices impact on human life and environment. I have introduced research process, research methodologies, suggestion,… After this research project, I learned a lot and I hope I can improve my skill and use it on future project.