**Higher Nationals in Computing**

**UNIT 13**

Computing Research Project

ASSIGNMENT

No.2

Learner’s name: Nguyễn Thành Phát

Assessor name: Hồ Nguyễn Phú Bảo

Class: GCS0704B

Learner’s ID: GCS18681

Subject’s ID: 1639

Assignment due: Dec 19, 2020

Assignment submitted: Dec 12, 2020

**ASSIGNMENT 1 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** | Dec 19, 2020 | **Date Received 1st submission** |  |
| **Re-submission Date** |  | **Date Received 2nd submission** |  |
| **Student Name** | Nguyễn Thành Phát | **Student ID** | GCS18681 |
| **Class** | GCS0704B | **Assessor name** | Hồ Nguyễn Phú Bảo |
| **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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| P1 | P2 | P3 | P4 | P5 | M1 | M2 | M3 | D1 | D2 |
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| **❒ Summative Feedback: ❒ Resubmission Feedback:** | | |
| **Grade:** | **Assessor Signature:** | **Date:** |
| **Internal Verifier’s Comments:** | | |
| **Signature & Date:** | | |

**ASSIGNMENT 2 BRIEF**

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| **Qualification** | **BTEC Level 5 HND Diploma in Computing** | | |
| **Unit number** | UNIT 13: Computing Research Project | | |
| **Assignment title** | Doing reflection on your project | | |
| **Academic Year** | 2020 | | |
| **Unit Tutor** | Ho Nguyen Phu Bao | | |
| **Issue date** |  | **Submission date** | 19/12/2020 |
| **IV name and date** |  | | |

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| **Submission Format:** |
| *Format:* The submission is in the form of 1 document  You must use font *Calibri size 12, set number of the pages and use multiple line spacing at 1.3. Margins must be: left: 1.25 cm; right: 1 cm; top: 1 cm and bottom: 1 cm.* The reference follows Harvard referencing system.  *Submission* Students are compulsory to submit the assignment in due date and in a way requested by the Tutors. The form of submission will be a soft copy posted on <http://cms.greenwich.edu.vn/>  *Note:* The Assignment *must* be your own work, and not copied by or from another student or from  books etc. If you use ideas, quotes or data (such as diagrams) from books, journals or other sources, you must reference your sources, using the Harvard style. Make sure that you know how to reference properly, and that understand the guidelines on plagiarism. *If you do not, you definitely get failed* |
| **Unit Learning Outcomes:** |
| **LO4** Reflect on the application of research methodologies and concepts |
| **Assignment Brief and Guidance:** |
| **Scenario**  As you have completed your research project now it is time to look back and learn some lessons from your work. You need to prepare a report to describe your personal development. **Remember to write your own experience, thoughts and it is specific to YOU NOT explaining the general concepts**.  Here are some suggestions which you can put in the report:   * Project’s proposal, the research process (sequential example) how it helped you completed your research * Reflection on the merits, limitations and potential pitfalls of the chosen methods: examples qualitative research, secondary research; the relationship between the two in your research * The roles of Literature **review in your** project * How did you create project plan and how often you did you update it? Why you need you need to update the plan * How often did you meet the tutor and how the tutor helped you to create more effective research? * How did you choose participations (sample types, sizes) and the importance of it? * How did you present your research result? * **Consider other research approach** and improvements in future research * …..   **P6**: All or most previous questions are answered  **P7**: Mistakes, lessons learnt, improvements will have in future researches  **M4**: Discussed all previous concerns in a logical way, with good evidence  **D4**: Critically discuss all previous concerns and recommend changes in research process (from creating research proposal to conclusion after primary research), planning, carry out primary research in as systematic way. Suggesting different research process which may work out. |

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| Learning Outcomes and Assessment Criteria | | |
| Pass | Merit | Distinction |
| **LO4** Reflect on the application of research methodologies and concepts | | **D3** Demonstrate reflection and engagement in the resource process  leading to recommended actions  for future improvement. |
| **P6** Reflect on the effectiveness of research methods applied for meeting objectives of the computing research project.  **P7** Consider alternative research methodologies and lessons learnt in view of the outcomes. | **M4** Provide critical reflection and insight that results in recommended  Actions for improvements and future research considerations. |

ASSIGNMENT 2 ANSWER

Project proposal and research process have helped me a lot in this research topic. I will first mention that creating a project proposal requires many factors that a researcher needs to define. My research based on my suggestion included seven parts:

* Part one: A brief introduction to digital welfare
* Part two: Literature review
* Part three: Primary research
* Part four: Analysis of initial study results
* Part five: Approved project proposal-appendix
* Part six: Project approved project plan-appendix
* Part seven: Ethical form
* For part one, I consider digital wellbeing and its importance to human life and the problem solving that I am interested in and researching right now is a smart wristwatch monitor the beat. Heart, blood pressure, O2 level in the blood and measures calories consumed through activity.
* For part two, I summarize many of the resources that I need in my project. In order to research the project in a sensible way to reach users through this, I have improved some of the things that were missing in my project.
* For the third, I ask questions to prepare the survey for my research.
* For part four, I analyzed the results I surveyed to see if my work was suitable for the user.
* For Thursday I put on my project proposal.
* Part six I plan what the project needs to do in the right timeframe to get it done on time.
* Part seven I cover the Ethical form in my post.

Qualitative and quantitative research. Is the method I used this time because it was really suitable for my research? Slack compensates for each other's strengths and weaknesses. Both of these approaches help me collect and manage information and data as best as possible. More personal qualitative research with in-depth surveys, quantitative research provides me with digital data.

For primary research, I choose qualitatively, there are a few limitations on dealing with that are many volunteers but there are some who give ambiguous and misleading information about the project. Furthermore, there are other questions that arise but the interviewer is not of their expertise and therefore cannot be answered. Therefore, it is necessary to systematize the questions so that they are reasonable for ordinary people and easily accessible.

For secondary research, I choose a quantitative research method because there are method features that have been gathered from information about the organization and the company to give direction for the qualitative research method. However, there are also limitations: data collection is hindered by many sources of knowledge material that need to be filtered out. Knowledge and materials are difficult to refer to because there are too many terms in a field that require a specific understanding of the field you need to study and research. Therefore, we need people with field knowledge to participate in the research.

The role of literature review in research. Through this research I have learned how popular applications and devices are known collectively as digital well-being it is on a strong growth momentum and has a tendency to become an industry leading. Digital wellbeing is having a lot of success, but it still has its drawbacks, but it still performs all of the essential features for users.

The professions are specifically planned to perform the projects in the most effective and efficient way. For my research project too, I have a specific plan on what to do, vision, labor issues and budget to serve the project. My project has certain requirements to be met and I am always clearly updated when I have a certain plan in the project research completed.

Below is a plan of my project research:

|  |
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| Scope |
| The project is studied for 3 months from the project start date. Research focuses on cardiovascular diseases and blood pressure. Moreover, the device also has integrated health monitoring functions such as measuring sleep, oxygen concentration and calories consumed in a day. I surveyed 20 people around Binh Thanh district to better understand user needs before scaling up and contacted several people who used the device to check the accuracy of the device bring and improve the device for the better one. |
| Time |
| The project will be delivered within 3 months from the date of start of the project |
| Cost |
| This project 30.000US we invest, we must complete the project within 3 months. Salary per employee was 600 US 1 month and the rest are costs incurred in the implementation process. |
| Quality |
| Standard   * Precision tools and techniques. * Measurement capacity. * Conclusion after completing the project   Planning   * Estimate the scope of the project * Determine and divide the tasks to be performed. * Methods and approaches to conducting research. |
| Resource Requirements |
| Financial resources   * Includes machinery equipment for equipment design * Capital money to spend the necessary things   Human resources   * Technical team * Construction team * Human Resource Management * Accounting department |
| Risk |
| Personal information may be exposed  The user's current location is connected to the internet  Personal camera hacking is possible |

In order to be able to research correctly and successfully beside me, there is always a tutor to guide me in the right direction, always helping me when I fail when there are complications occurring in the project and helping me. I find out what is missing in the project to add the most accurate results to the system.

My project is about digital wellbeing, so the participants in my project must be either indirect or direct users of the device and application. Thanks to the user I can tell that my device is well developed. How and what shortcomings need to be addressed.

When I complete my research, I will bring the instructor and other researchers with expertise together to evaluate and give accurate results. Considering that, the initial requirements have been met so that later additional control can be lacking. Finally, save the research paper and develop it for example

In short, research has shown what we need. Also, the data and methods provided are ineffective to reach the developmental stage as healthcare for everyone is always the first solution. To ensure the health of human society increasingly develops, Analysis of experts is always important to gather will help bring more research evidence. Self-employed researchers Insufficient experience in analyzing the data collected from primary and secondary studies. Researchers have not yet been able to accurately standardize documents into a current best practice methodology. Therefore, in the coming time, the project will be researched in depth, focusing on understanding knowledge and promoting the best, minimizing the viewing of references to avoid unnecessary knowledge redundancy. Identify the elements required for the best product for human safety and convenience. Avoid possible restrictions on existing technology applications and improve the well-being of everyone in general and ourselves in particular.