

# BSC203 Project Management Portfolio

## Part 1

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## Table of content

**Tutorial 2- Activity 3** P3-4

**Tutorial 3 Activity 3** P5-6

**Tutorial 4 Activity 4** P6

**Tutorial 5 Activity 3** P7-9

## Tutorial 2- Activity 3

# Scope Statement

**Project Title:** Fitness smartwatch

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### **Project Justification:**

Obesity is a major issue in Australia with more than a one third of adult Australians suffering from it [1]. An individual gains weight when they consume more calories than they burn in a day. The smartwatch aims to track the daily calories consumed and calories burned in hopes of guiding individuals to weight loss.

### **Major Deliverables:**

There are many different deliverables that will be produced. The first is a prototype of the smartwatch. A database to store the daily calories consumed and calories burned so the individual can reflect on their past calories consumption. A working inbuilt smartwatch camera to take pictures of the food. A working GPS tracking system and smartwatch with a compatible operating system. The smartwatch should then be able connect to an app on any Android or iPhone which will open up additional features on application. These features include weekly calories gained and loss

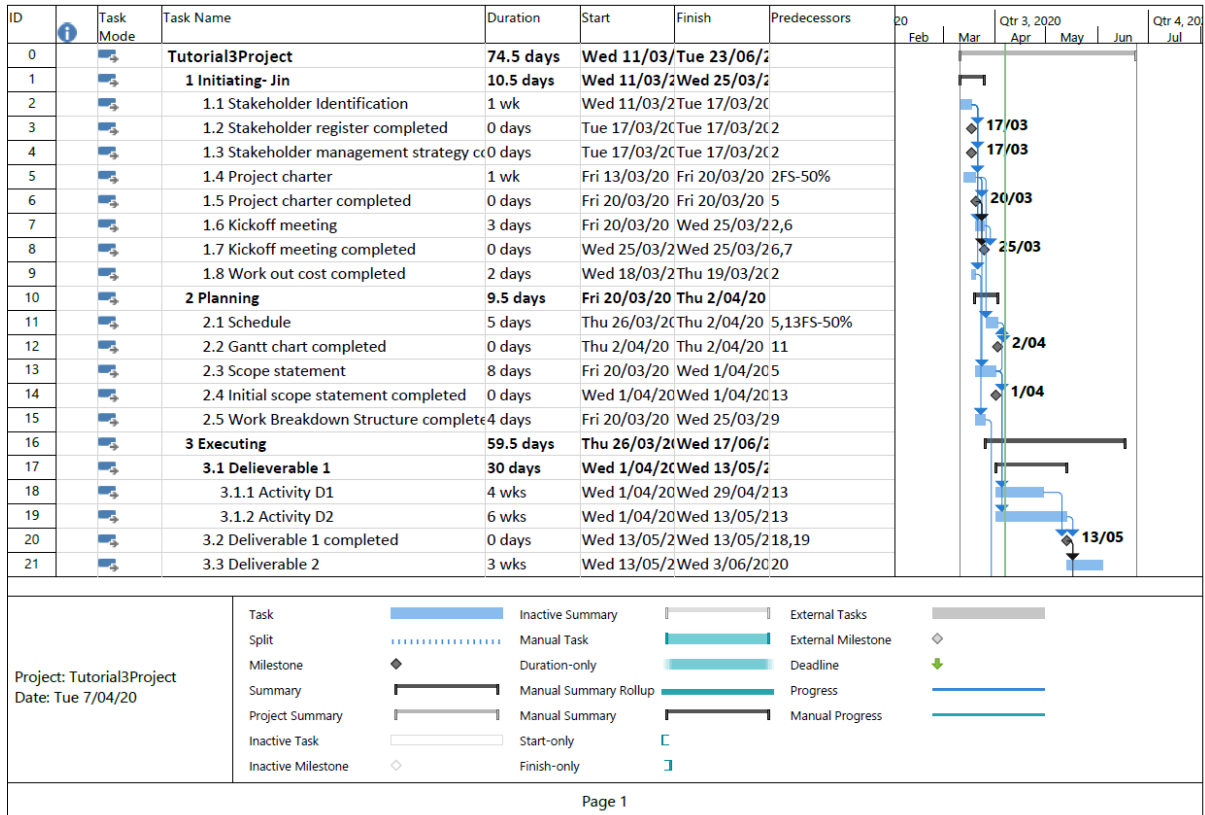
**Project Success Criteria:**

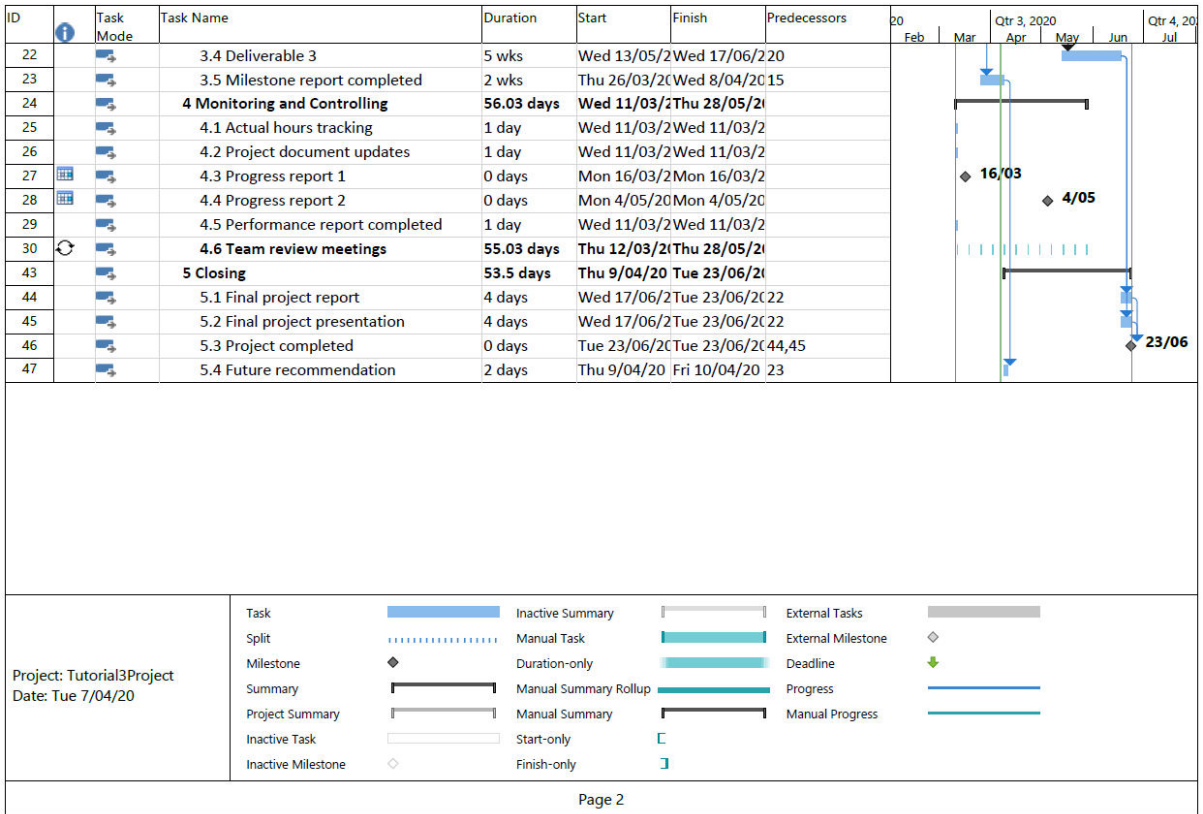
The success of the project can be measured differently. One of the criteria would have to be whether the project was completed within budget and time. Another criteria is whether the smartwatch performs the basic functionality that is the tracking of calories and calories burnt and ability to determine both the food and quantity of what wearer is eating. In addition, whether or not the watch has the approval from university. The smartwatch should be able to connect to any Android or iPhone and the app features should be functional.

**Constraints and Assumptions:**

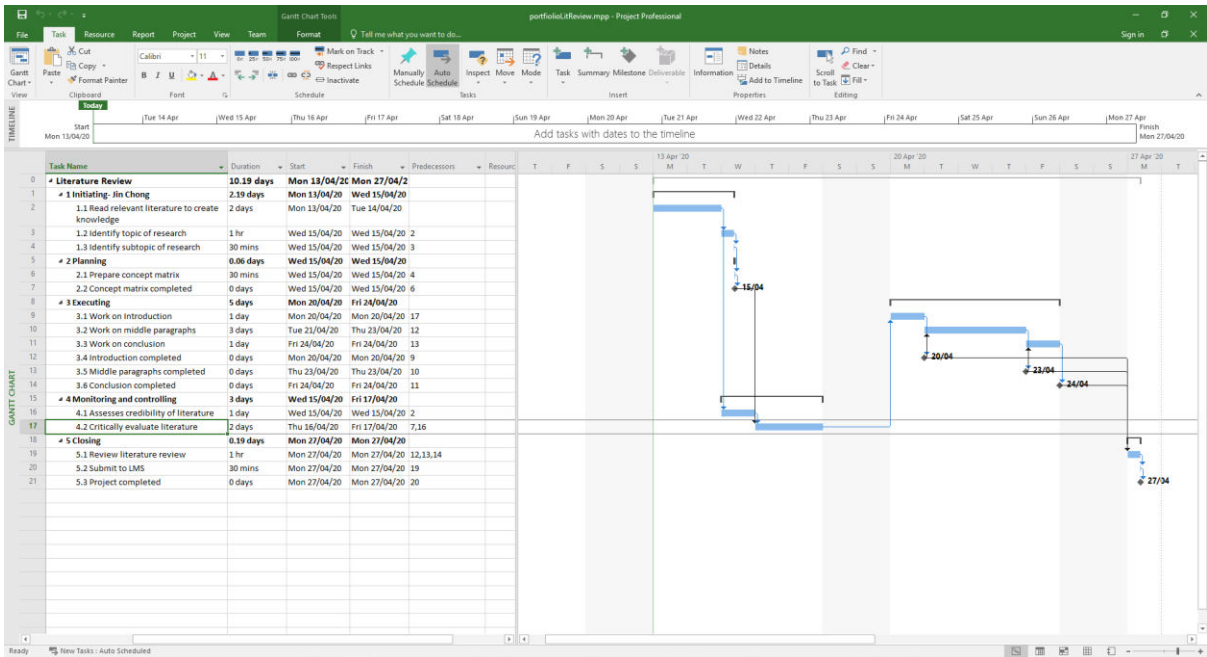
The time frame for the smartwatch being developed is within 2 years. It's being funded by the university grant scheme and the total money granted is 1 million. We must make the assumption that the watch camera will take a picture of the food and it will be able to detect what type of food it is and the quantity of food. From there the watch will be able to calculate the total calories of the food. Any iPhone and Android must be able to connect to the smartwatch through the application on the phone. We assume that the application will be produced by another developmental team. The ability to connect smartwatch to phone would have already been set up by the other development team but will require minor modification, which we assume will be easy to do.

# Tutorial 3 Activity 3





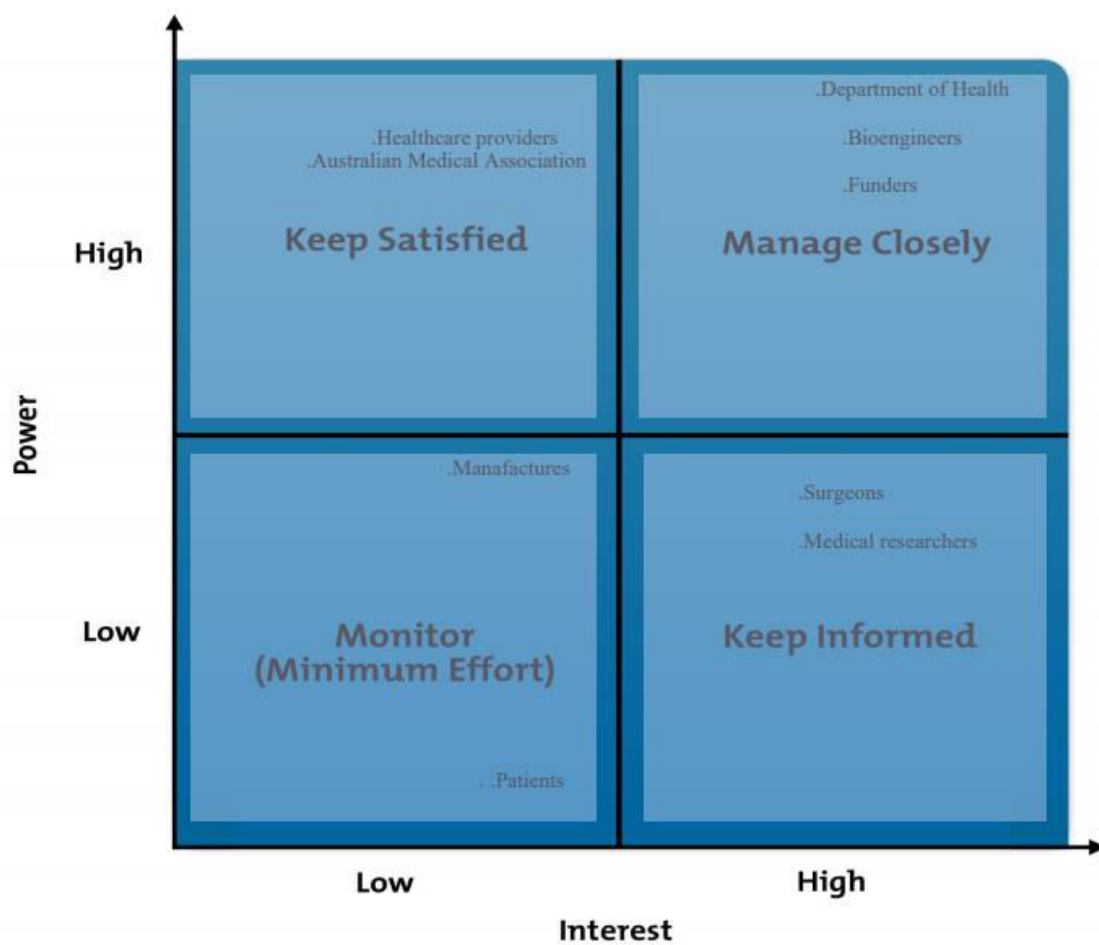
## Tutorial 4 Activity 4



### Tutorial 5 Activity 3

Stakeholders:

- Patients with bone cancer
- Bioengineers
- Funders
- Manufactures
- Medical researchers
- Healthcare providers
- Australian Medical Association
- Department of Health
- Surgeons



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| <p>Funders: The funders are different entities that have some stake in the success of the project.</p>  | <p>They are supportive of the project in the beginning. However, their view on the project may change to a less supportive view. Issues with product development, the ballooning of cost, and regulation placed by the government may hinder the project and may result in the project being pulled</p>   | <p>The issues associated with the project from the perspective of a funder has to do with product development and government regulation. The government may put too much difficult regulation which hinders product development and the developer of the project may not meet the funder's requirements leading to the product being defunded.</p> |
| <p>Department of Health: The Department of Health has a multitude of roles. In this context, they are in charge of providing a framework to ensure the product is safe and affordable to the patient.</p>                               | <p>The Department of Health are very cautious of the project. They would likely approve of the initiation of the project but would have no problem halting the project if the project were to put the patient at risk.</p>  | <p>The issues that the government may have with the project are both health and political issues. Allowing a project that puts people at risk will negatively affect the public perception towards the government. This will move the government's hand to cancel the project</p>  |
| <p>Bioengineers:<br/>The bioengineers of the project are the main engineers behind the project. They are in charge of designing, developing and building a prototype of the living bone cells that are printed using 3d technology.</p> | <p>The bioengineers interest in the system is to provide a safe and successful product to the patient, while also making sure the funders and Department of Health (government) requirements are met. Not being able to fulfil their requirements results in the project being cancelled. They are fully on-board with the project because supporting the project was a prerequisite to joining the project</p> | <p>Issue with the project is feasibility. There is a high chance the project doesn't work at all</p>   |
| <p>Australian Medical association (AMA): The Australian Medical Association role in this project is to advocate for the project and to create awareness behind it.</p>  | <p>Their stance towards the project is approval. In order to get any sort of advocacy and approval behind any project from the AMA, the project must be planned meticulously abiding by the values and ethics of the AMA. However, if the project end up clashing against AMA ethics and values the project may lose the</p>  | <p>The issues the AMA has with the project is ensuring the developers get adequately paid and patients have success in their treatment</p>   |



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|   | approval from the AMA. This will likely result in a decrease in funding  |  |
| Healthcare provider:<br>The Healthcare providers aim is to look at the treatment and work out whether or not they will cover the cost of the treatment. The safety of the treatment will also be taken into account | The healthcare provider will have a negative stance towards the project. The project's success could come at a cost to the healthcare providers. They would have to potentially cover for millions of individuals using the treatment. | The healthcare providers have to potentially cover for treatment cost, which is a financial issue associated with the project. Secondly, healthcare providers recommending a flawed treatment will only lead to their reputation been diminished |