Project Plan

Project Name: Nutrition Information Data Analysis Tool

Group Number: 027

Team members

Student No.	Full Name	GitHub Username	Contribution (sum to 100%)
s5094725	Sean O'Sullivan	Sean-O-99	33.3% or Equal
s5113175	Peter Symoniw	ptrsym	33.3% or Equal
S5291335	Sipa Sunuwar	sipaswr	33.3% or Equal

Brief Description of Contribution

Please Describe what you have accomplished in this group project.

- s5094725, Sean O'Sullivan:
  - Project Overview, Design Document - System Vision,
- s5291335, Sipa Sunuwar:
  - WBS, Activity Definition Estimations, Gantt Chart, Design Document - Requirements,
- s5113175, Peter Symoniw:
  - WBS, Activity Definition Estimations, Gantt Chart, Design Document - UI Design

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1. Project Overview

1.1 Project Objectives

Establish objectives or goals that the project aims to achieve.

The aim of this project is to develop an application for desktop devices that allows the analysis and visualisation of various foods nutritional values. In turn, end users will be able to utilise this software to easily identify how nutrient rich their food is. To ensure the successful completion of the nutrition visualiser project a plan must be developed, and milestones set and followed.

The project will be completed in multiple stages, with various tasks or processes allocated to each stage. Accordingly, the stages are referred to as process groups and there will be five in total: Initiating, Planning, Execution, Controlling, and Closing. Completing each process group in full will allow the project to run as smoothly as possible and an on-time delivery of the nutrition visualiser software.

1.2 Project Stakeholders

Identify all key stakeholders involved in the project, including internal teams and potential end-users.

There are many stakeholders involved in this project, and they can be classified as either internal or external. To be classed as an internal stakeholder one must be a part of the company that is delivering the application. Whereas external stakeholders are people that are outside the organisation that are participating in the project, or potential end users of the software that are not a part of the organisation that made it.

Role	Classification	Brief Description
Company Executives	Internal	The executive of this company has given the green light to initialise the development of the nutrition visualiser software.
Project Manager	Internal	Develops the project plan for the nutrition visualiser software and coordinates the development process to ensure milestones are reached on schedule.
UX Designer	Internal	Designs the layout for nutrition visualiser application and follows best practices for ease of use, accessibility and memorability.
Programmer	Internal	Codes the nutrition visualiser application following the software's design plans as closely as possible.
Casual end-users	External	Uses the nutrition visualiser software for looking up certain food items occasionally.
Consistent end-users	External	Uses the nutrition visualiser software for tracking all food items and uses models to determine food consumption.

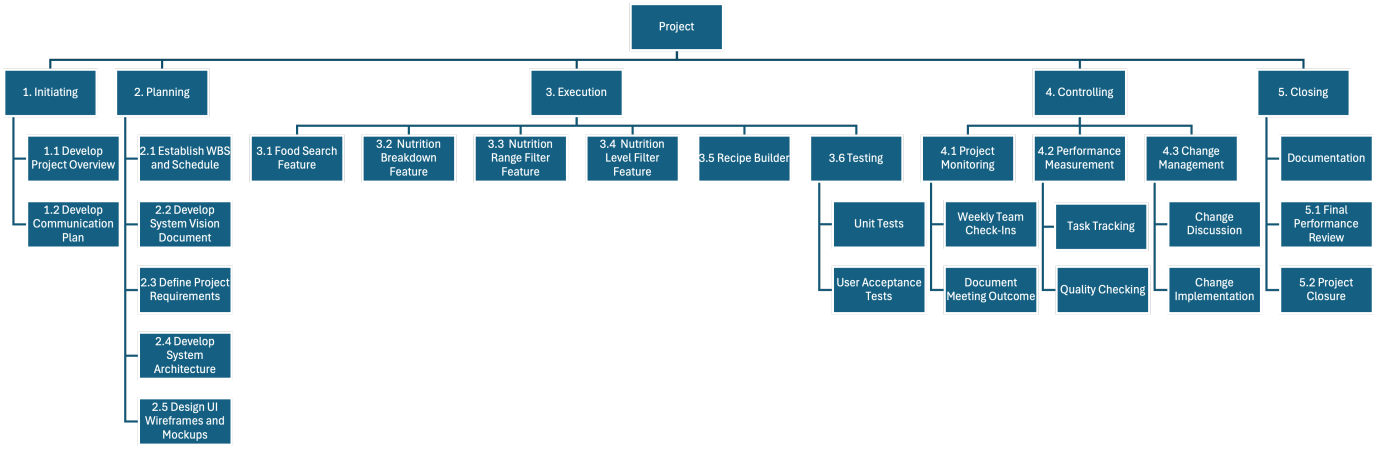
1.3 Project Scope

The nutrition visualiser software will be a desktop application that allows data analysis and visualisation of a food nutrition database through a graphical user interface. Detailed nutritional information for a wide variety of commonly consumed foods from around the world will be stored in the associated database.

The end user will be able to easily search through the database and create various models related to the selected foods nutritional value. Additionally, the nutrition visualiser application will be responsive with fast loading times and an intuitive GUI. It will also feature a function where the user can keep track of their daily or weekly food consumption and generate associated nutritional models from it.

The deliverables of this project will include the completed nutritional visualiser software, with attached documentation of the design and development process of the application.The project and software will be deemed a success if the functional and non-functional requirements listed above are integrated effectively and on schedule.

2. Work Breakdown Structure



3. Activity Definition Estimation

Define the activities required for your project based on the WBS, and assign responsibilities to team members. Each activity should be numbered and correspond with your Gantt chart. Provide estimated durations for each activity to facilitate Gantt chart preparation.

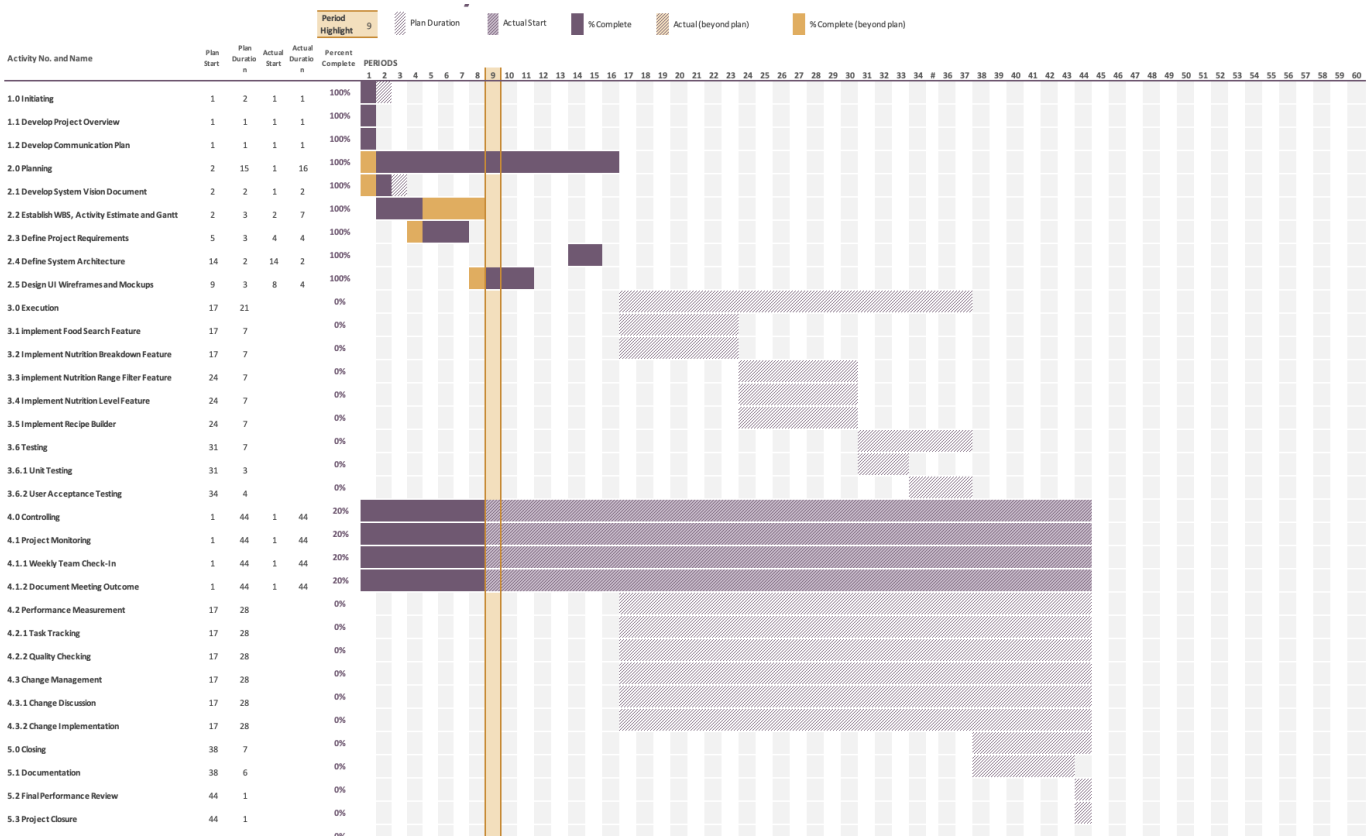
Activity #No	Activity Name	Brief Description	Duration	Responsible Team Members
1	Initiating			
1.1	Develop Project Overview	• Identify project goals, objectives and scope • Identify stakeholders	1 days	Sean
1.2	Develop Communication Plan	• Establish standards for communication within the team • Choose platform for communication	1 days	All
2	Planning			
2.1	Develop System Vision Document	• Document the vision and high-level goals of the system	2 days	Sean
2.2	Establish WBS and Schedule	• Define system capabilities • Create a WBS and projec timline • Evaluate benefits	3 days	Sipa & Peter
2.3	Define Project Requirements	• Gather and document project requirements • Estimate durations • Create a project schedule	3 days	Sipa
2.4	Define System Architecture	• Design the software architecture	2 days	All
2.5	Design UI Wireframes and Mockups	• Create visual representations of user	3 days	Peter

Activity #No	Activity Name	Brief Description	Duration	Responsible Team Members
		interface		
3	Execution			
3.1	Implement Food Search Feature	• Develop the functionality that allows users to search for food items in the system	7 days	All
3.2	Implement Nutrition Breakdown Feature	• Develop the functionality that provides users with detailed nutritional information about the food items	7 days	All
3.3	Implement Nutrition Range Filter Feature	• Develop the feature that allows users to filter food items based on custom nutritional ranges	7 days	All
3.4	Implement Nutrition Level Filter Feature	• Develop the functionality that allows users to search for food items based on predefined nutritional levels	7 days	All
3.5	Implement Recipe Builder	• Develop the functionality that allows users to select multiple foods and create a simple recipe by summing up their nutritional values.	7 days	All
3.6	Testing			
3.6.1	Unit Testing	• Perform testing on individual components	3 days	associated dev

Activity #No	Activity Name	Brief Description	Duration	Responsible Team Members
3.6.2	User Acceptance Testing	• Conduct testing with users to ensure system meets their needs and requirements • Collect and incorporate user feedback	4 days	All
4	Controlling			
4.1	Project Monitoring	• Track project progress against plan to ensure it stays on schedule	ongoing	All
4.1.1	Weekly Team Check-In	• Regular meetings to discuss progress	0.5 days/week ongoing	All
4.1.2	Document Meeting Outcome	• Record what was discussed and decided	during meetings	All
4.2	Performance Measurement	• Assess the performance of the project against defined metrics	during meetings	All
4.2.1	Task Tracking	• Monitor the progress of tasks by updating the gantt chart	ongoing	All
4.2.2	Quality Checking	• Ensure quality meets required standards	during meetings	All
4.3	Change Management	• Manage and document any changes to the project's scope or schedule from reviews and feedback	during meetings	All

Activity #No	Activity Name	Brief Description	Duration	Responsible Team Members
4.3.1	Change Discussion	• Discuss pending or proposed changes	during meetings	All
4.3.2	Change Implementation	• Implement the approved changes	1 day	All
5	Closing			
5.1	Documentation	• Compile project documentation	6 days	All
5.2	Final performance review	• Conduct a final evaluation of project performance • Document lessons learned	1 days	All
5.3	Project closure	• Complete final tasks • Formally close the project	1 days	All

4. Gantt Chart


Period Highlight 9
Plan Duration
Actual Start
% Complete
Actual (beyond plan)
% Complete (beyond plan)
Activity No. and Name
Plan Start
Plan Duration
Actual Start
Actual Duration
Percent Complete
PERIODS
1.0 Initiating 1 2 1 1 100%
1.1 Develop Project Overview 1 1 1 1 100%
1.2 Develop Communication Plan 1 1 1 1 100%
2.0 Planning 2 15 1 16 100%
2.1 Develop System Vision Document 2 2 1 2 100%
2.2 Establish WBS, Activity Estimate and Gantt 2 3 2 7 100%
2.3 Define Project Requirements 5 3 4 4 100%
2.4 Define System Architecture 14 2 14 2 100%
2.5 Design UI Wireframes and Mockups 9 3 8 4 100%
3.0 Execution 17 21 0%
3.1 implement Food Search Feature 17 7 0%
3.2 Implement Nutrition Breakdown Feature 17 7 0%
3.3 implement Nutrition Range Filter Feature 24 7 0%
3.4 Implement Nutrition Level Feature 24 7 0%
3.5 Implement Recipe Builder 24 7 0%
3.6 Testing 31 7 0%
3.6.1 Unit Testing 31 3 0%
3.6.2 User Acceptance Testing 34 4 0%
4.0 Controlling 1 44 1 44 20%
4.1 Project Monitoring 1 44 1 44 20%
4.1.1 Weekly Team Check-In 1 44 1 44 20%
4.1.2 Document Meeting Outcome 1 44 1 44 20%
4.2 Performance Measurement 17 28 0%
4.2.1 Task Tracking 17 28 0%
4.2.2 Quality Checking 17 28 0%
4.3 Change Management 17 28 0%
4.3.1 Change Discussion 17 28 0%
4.3.2 Change Implementation 17 28 0%
5.0 Closing 38 7 0%
5.1 Documentation 38 6 0%
5.2 Final Performance Review 44 1 0%
5.3 Project Closure 44 1 0%