Project Plan

Project Name: Project Management

Group Number: 019

Team members

Student No.	Full Name	GitHub Username	Contribution (sum to 100%)
s5404039	Ekaterina Kozub	UniKatya	33.33%
s5271400	Ella Baines-Lang	ellyiian	33.33%
s5303300	Fiston Kayeye	Sarvinfils	33.33%

Brief Description of Contribution

Please Describe what you have accomplished in this group project.

- s5404039, Ekaterina Kozub
  - Accomplishments: Project Overview, Activity Definition Estimation, Gantt Chart, System Vision, Requirements, Software Design (Flowchart), general setup of project, general reviewing and editing, Food Search (Feature), Nutrition Range Filter (Feature), Nutrition Level Filter (Feature), and User Interface (Feature).
- s5271400, Ella Baines-Lang
  - Accomplishments: Work Breakdown Structure, System Components (Functions & Detailed Design), User Interface Design (Visual Design), Nutritional Breakdown (Feature), and Meal Plan (Feature).
- s5303300, Fiston Kayeye
  - Accomplishments: Activity Definition Estimation, Gantt Chart, Data Structures, User Interface Design (Structural Design), Nutrition Range Filter (Feature), and Nutrition Level Filter (Feature).

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1. Project Overview

1.1 Project Objectives

The project's objectives are to develop a user-friendly data analysis and visualisation tool for a comprehensive nutritional food database. This will be achieved through a Graphical User Interface (GUI) and multiple features such as allowing the user to search for foods by their name, charts that show the breakdown of the selected food, two nutrition filtering systems with a range/content level that is selected by the user, and a customisable meal planner.

1.2 Project Stakeholders

Stakeholders in this project:

Internal:

1. Group members

This is the team that develops the project. They are responsible for the initiation, planning, execution, controlling, and closing of the project. Each member is responsible for specific tasks assigned to them by the Project Manager.

2. University Professor

This is the professor that oversees the project, guiding the team and providing feedback during the development of the project.

3. Project Manager

This is one of the chosen team members that organizes the team and assigns tasks to each member of the group. They coordinate tasks and makes sure that the project progresses smoothly and complies with the due dates of the project.

Potential End-users:

1. Students

The students are the primary users of the system as they will use the provided tools to search for foods and develop a better understanding of the nutritional breakdown of the searched foods. They will also be able to use this system for their own projects that require such information provided by the system.

2. Researchers

The researchers are the advanced users of the system as they will use the provided tools to analyse and develop their own academic/scientific projects.

3. Health Enthusiasts

The health enthusiasts are general users that are interested in having a healthy diet provided by the platform that helps in managing their diet effectively.

1.3 Project Scope

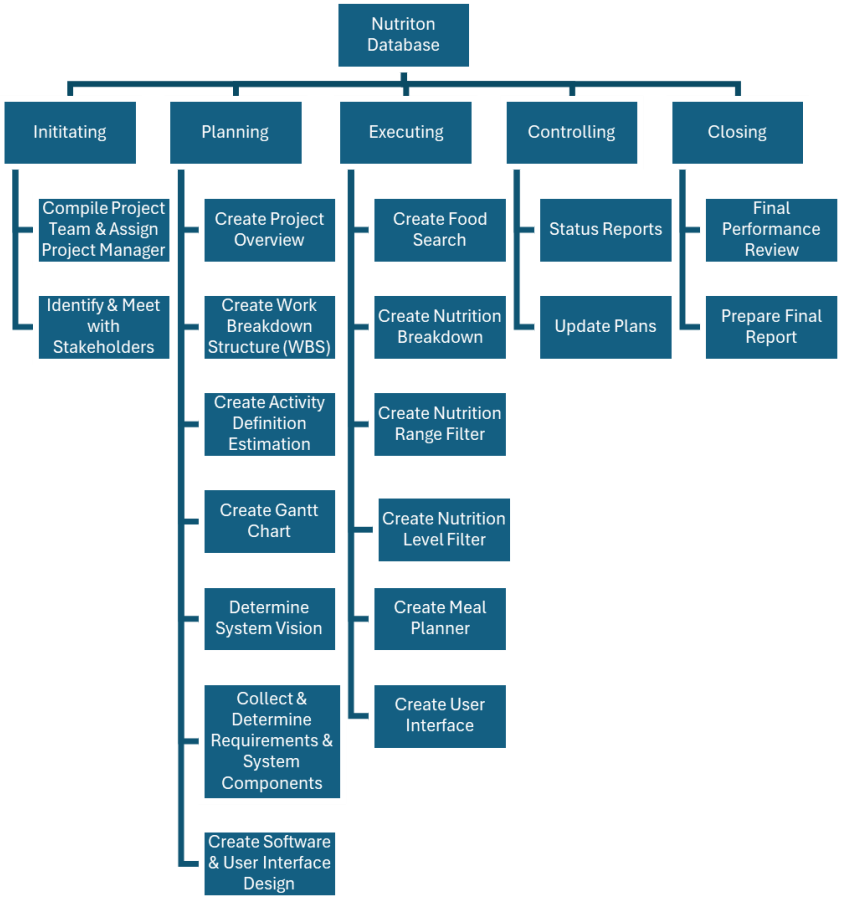
Included:

- User-friendly GUI designed for desktop.
- Features that provide the required services of the program (Food Search, Nutrition Breakdown, Nutrition Range Filter, Nutrition Level Filter, and Meal Planner).
- Data integration with The Comprehensive Nutritional Food Database to ensure accurate retrieval of nutritional data.
- Thorough testing of the application to ensure all features work.
- Deployment of application on a private GitHub with multiple regular commits.

Excluded:

- Advanced features, such as this system being able to support multiple languages or more in depth analytics/information.
- Integration with other databases that are not The Comprehensive Nutritional Food Database.
- Advanced training manuals or support services on how to use the system.

2. Work Breakdown Structure



3. Activity Definition Estimation

The whole project will take 35 days (excluding weekends as these days will not be work days for this project). Some tasks will be done consecutively, so look at the Gantt Chart to get further detail.Some tasks took longer/shorter than expected (this will be shown in the Gantt Chart) and some teammates did work that they weren't assigned due to other teammates shortcomings. This Activity Definition Estimation table will outline the updated teammates that did some of the tasks they were not orginally assigned.

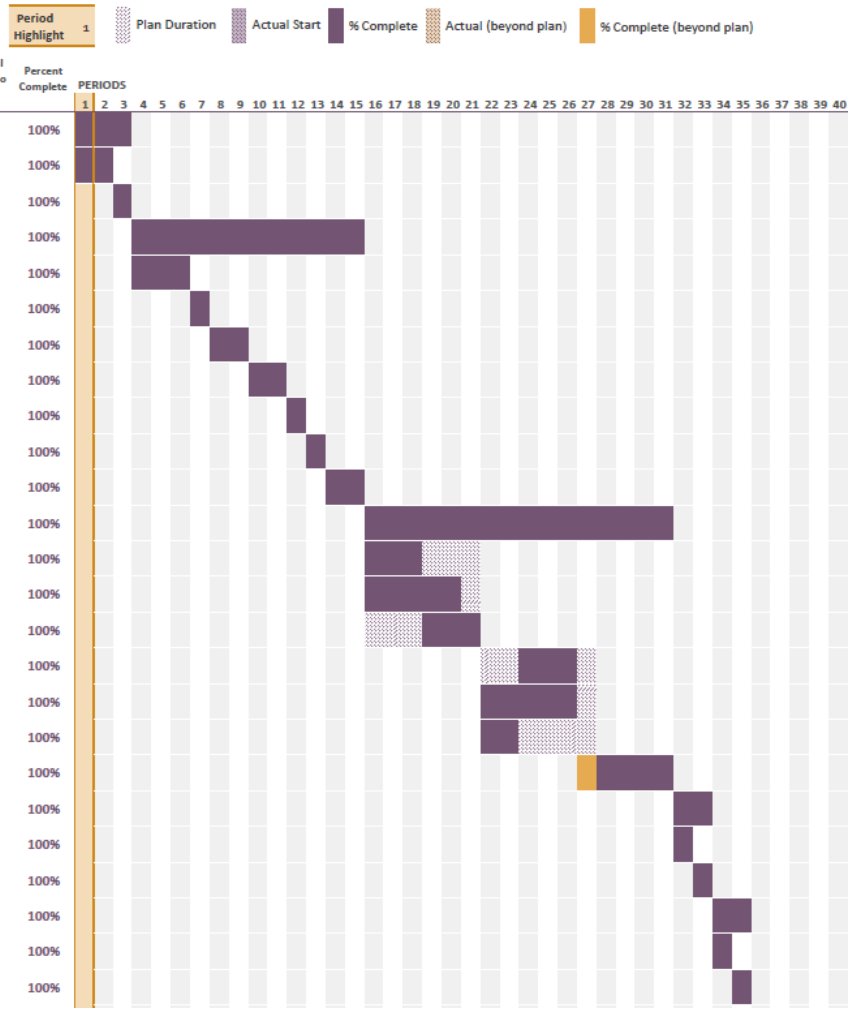
Activity #No	Activity Name	Brief Description	Duration	Responsible Team Members
1	Initiating	Start project, assign Project Manager, and identify and meet with stakeholders.	3 days	All
1.1	Compile Project Team & Assign Project Manager	Assemble team and determine the Project Manager.	2 days	All
1.2	Identify & Meet with Stakeholders	Identify key stakeholders and conduct a meeting with them.	1 day	All
2	Planning	Develop a detailed plan covering all aspects of the project.	12 days	All
2.1	Create Project Overview	Create a Project Overview Document that defines the objectives, stakeholder, and scope.	3 days	Ekaterina
2.2	Create Work Breakdown Structure (WBS)	Break down the project into smaller and more manageable tasks. Visualizing this through an image.	1 day	Ella
2.3	Create Activity Definition Estimation	From the WBS make an Activity Definition Estimation that provides a brief description, duration, and responsible team members for each task.	2 days	Ekaterina & Fiston
2.4	Create Gantt Chart	Create a Gantt Chart that visualizes the Activity Definition Estimation.	2 days	Ekaterina & Fiston
2.5	Determine System Vision	Create the System Vision Document that includes the problem background, system capabilities/overview, and potential benefits of the system.	1 day	Ekaterina
2.6	Collect & Determine Requirements & System Components	Collect and determine requirements, this includes user requirements, software requirements, use case diagrams, and use cases. The same will go with the System Components, which includes functions, data	1 day	All

Activity #No	Activity Name	Brief Description	Duration	Responsible Team Members
		structures/data sources, and a detailed design.		
2.7	Create Software & User Interface Design	Create a Structural, Visual, and Software Design.	2 days	Ella & Fiston
3	Executing	Implement the project plan and create code.	16 days	All
3.1	Create Food Search	Develop the Food Search function.	6 days	Ekaterina
3.2	Create Nutrition Breakdown	Develop the Nutrition Breakdown function.	6 days	Ella
3.3	Create Nutrition Range Filter	Develop the Nutrition Range Filter function.	6 days	Fiston & Ekaterina
3.4	Create Nutrition Level Filter	Develop the Nutrition Level Filter function.	6 days	Fiston & Ekaterina
3.5	Create Meal Planner	Develop the Meal Planner function.	6 days	Ella
3.6	Create User Interface	Develop the User Interface function.	6 days	Ekaterina
3.7	Final Testing	Test the whole system and correct errors.	4 days	All
4	Controlling	Monitor and control the project's progress.	2 days	Ekaterina
4.1	Status Reports	Generate regular status reports.	1 day	Ekaterina
4.2	Update Plans	Adjust plans over the projects progress.	1 day	Ekaterina
5	Closing	Finalize and close the project.	2 days	All
5.1	Final Performance Review	Review the project's performance against the objectives.	1 day	All
5.2	Propose Final Report	Create a final project report.	1 day	All

4. Gantt Chart

Here is the updated Gantt Chart, showing the time it took to complete the executing, controlling, and closing phase of the project.

Nutrition Database Gantt Chart



Activity No. and Name	Plan Start	Plan Duration	Actual Start	Actual Duration	Percent Complete
1. Inititating	1	3	1	3	100%
1.1 Compile Project Team & Assign Project Manager	1	2	1	2	100%
1.2 Identify & Meet with Stakeholders	3	1	3	1	100%
2. Planning	4	12	4	12	100%
2.1 Create Project Overview	4	3	4	3	100%
2.2 Create Work Breakdown Structure (WBS)	7	1	7	1	100%
2.3 Create Activity Definition Estimation	8	2	8	2	100%
2.4 Create Gantt Chart	10	2	10	2	100%
2.5 Determine System Vision	12	1	12	1	100%
2.6 Collect & Determine Requirements & System Components	13	1	13	1	100%
2.7 Create Software & User Interface Design	14	2	14	2	100%
3. Executing	16	16	16	16	100%
3.1 Create Food Search	16	6	16	3	100%
3.2 Create Nutrition Breakdown	16	6	16	5	100%
3.3 Create Nutrition Range Filter	16	6	19	3	100%
3.4 Create Nutrition Level Filter	22	6	24	3	100%
3.5 Create Meal Planner	22	6	22	5	100%
3.6 Create User Interface	22	6	22	2	100%
3.7 Final Testing	28	4	27	5	100%
4. Controlling	32	2	32	2	100%
4.1 Status Reports	32	1	32	1	100%
4.2 Update Plans	33	1	33	1	100%
5. Closing	34	2	34	2	100%
5.1 Final Performance Review	34	1	34	1	100%
5.2 Propose Final Report	35	1	35	1	100%