

Sprint 1 Planning

Group Task 08P

Team Name: Team Grotle

Tutorial Class: Tue 12:30 EN310

Tutor: Naveed Ali

Team members:

Group members	Student ID
Hamish	103607352
Dilni	103616345
Kamar	103607585
Melanie	103489466
Justin	102589705
Tevy	103139978
Cormac	102581060

1. Discuss, among your team, the above factors and finalise a list of factors that you think are important to the success of your project.

Important factors

Feature	Justification Why
Development Effort	<ul style="list-style-type: none"> - Development effort is an important factor to consider as we need to consider the difficulty each item has. - The number of hours a developer works on certain backlog items. Which is dependent on the difficulty of the task. - The importance of the feature for the overall system. Such as the need for the feature which is asked by the client. (Included in the proposal request) - Also the number of developers having to work on a certain task. - Since F1- add a new member has a few tasks that depend on it we need to allocate the appropriate resources to ensure it is fully functional and done.
Feature Dependency	<ul style="list-style-type: none"> - Some features cannot be completed until others are finished, meaning ordering tasks by this metric will ensure functionality all the way through building - Building disconnected components become very difficult to validate - The most critical parts of the program are often the most depended-on, allowing us to build by the importance of functionality - F2 - Deactivate a member, F3 - Search for a member, F4 - Edit a member are dependent on F1 without the add member feature we can not deactivate, search or edit a member.
Date Needed / Timeline	<ul style="list-style-type: none"> - Need to know deadlines that the client gives, so we can satisfy their schedule. - Missed deadlines can lead to unfinished products or low-quality submissions. - Deadlines/timelines allow for planning and showcase how much time should be allocated to a specified task. - It showcases the importance of each task. - If we are unable to develop the feature F5 - add sales record within the specified timeframe then F6 - Record in the spreadsheet which depends on F5 will be delayed or pushed to be done in sprint 2.

2. Formulate your criteria for prioritizing the Product Backlog items and justify your choice

Factor (Most - Least Important)

1. Feature Dependency

- Feature Dependency would be considered the most important because the system created is dependent on other components. Say if component A is not complete, then component B which is reliant on component A would not be able to function properly or not work at all. In the case of this system, backlog Items F2 - Deactivate a member, F3 - Search for a member, F4 - Edit a member would not be able to function if F1 - Add a member is not completed.

2. Development Effort

- Development effort would be the second-highest priority because allocating the right amount of time and effort to complete each backlog item will determine if the items that are dependent on the completion of others are finished on time. This will ensure that, features with dependencies like Adding Members (F1) and Adding Sales Records (F5) are allocated sufficient resources to ensure their completion; or complex features, like generating reports that are convertible (F10-12) are given the time they need to develop successfully, while low priority items like Removing Sales Records from View (F9) are given less time.

3. Date/Timeline

- The date/timeline criterion is the least important of the three because when planning tasks, the factors governing the development of the task like feature dependency and development effort are more essential to planning its completion than the time when it is to be completed. For instance, the date of completion for F1 (Adding Members) isn't as important as establishing its dependencies and resource allocation, as the date is inherently dependent on the development effort which is dependent on development dependencies.

3. Use your criteria in Task 2 above to select the highest priority item from the Product backlog that could be developed in one sprint (*At the moment, a wild guess will be fine. Task 4 below comes the justification.*)

F1 > F2 > F3 > F4 > F5 > F6

Backlog Item (Most - Least Important)
F1 - Add a new member
F2 - Deactivate a member
F3 - Search for a member
F4 - Edit existing member
F5 - Add a sales record
F6 - Record in the spreadsheet of purchase logs and product levels. Downloadable in CSV format

Feature Dependency

Backlog item F1 - Adding a new member is most important as it has items F2 - Deactivate Member, F3 - Search For a member, and F4 - Edit Existing member depending on it. Without F1 being complete, we are not able to achieve backlog items F2- Deactivate a member, F4 - Search for a member, F4 - Edit a member. Additionally, item F6 - Record in the spreadsheet of purchase logs, is dependent on F5 - add sales record. However, F5 is not as important as F1 because F1 has more items dependent on it.

Development Effort

As backlog item F1 - Add a new member is the most important, it would require the most development effort because we need to ensure that it is done correctly as there are three items that are dependent on it. Once F1 is completed, then we can focus on items F2- Deactivate member, F3 - Search for a member, and F4 - Edit a member. Additionally, F5 - Add sales record would need more development effort compared to F2 - F4 as item F6 - record in spreadsheet of purchase logs is dependent on it.

Date/Timeline

Within the backlog, as Sprint 1 is limited to 10 working days, there would be a time constraint on the amount of time we can spend on a certain backlog Item. F1 - add a new member would need to be completed as soon as possible because there are three items dependent on it (F2- Deactivate a member, F3- Search a member, and F4- Edit a member). Leaving F1 to the last minute can be costly as we may not have enough time to complete other tasks such as F5 - Add a sales Record and F6 - Record in the spreadsheet of purchase logs and product levels. The date/timeline is crucial because we need to allocate time to prioritised items to ensure that we finish the backlog items within Sprint 1.

4. Develop a WBS, Work Breakdown Structure, to break down all tasks involved in developing the backlog item selected in Task 3 above, making sure that all tasks can be done in one sprint. Remember to show the hierarchical relationship among the tasks, also their logical sequences in the WBS.

Link to WBS: [WBS task 08p](#)

