

SWE20001: Managing Software Projects

Team name: Team Apple

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Tutor: Naveed Ali | 12.30pm Tuesday | EN31

Project Proposal1 : GotoGro

In this GotoGro Project, we are mainly focusing on the following factors as important to our team's success:

- a) Business Value
- b) Development Effort
- c) Risk Involved

And the reasons as to why we have chosen the following factors discarding the rest are explained below, alongside their priority:

- a) **Business value** is basically everything of importance that is present in the company itself, determining its potential. By moving from their previous paper-based system to our software, the company is improving its business value by integrating new technology. Furthermore, they are also trying to maintain their competitive edge, by using our software (as they want to know the grocery needs of the customer), which is also another important factor in business value. Thus, it is one of the most crucial factors for us to focus on while deciding on our sprint 1 tasks.
- b) **Development effort** is the work that needs to be done to develop a certain project and is usually determined by the time and resources allocated to the project. Since this covers the timeline and resource allocation, we have decided to include that as the 2nd most crucial factor while removing the separate "timeline" and "resource" factors.

- c) Last but not the least, we chose the “**Risk**” factor. That’s because almost all the factors in the project (from “development of code” to “productivity of team” to “budget issues”, “scope creep”, etc.) are affected by their own individual risks and consequences. Thus, by keeping this in mind we can either try and mitigate almost all risks from our tasks and ensure the software we develop does what it has been detailed to do in the project proposal.

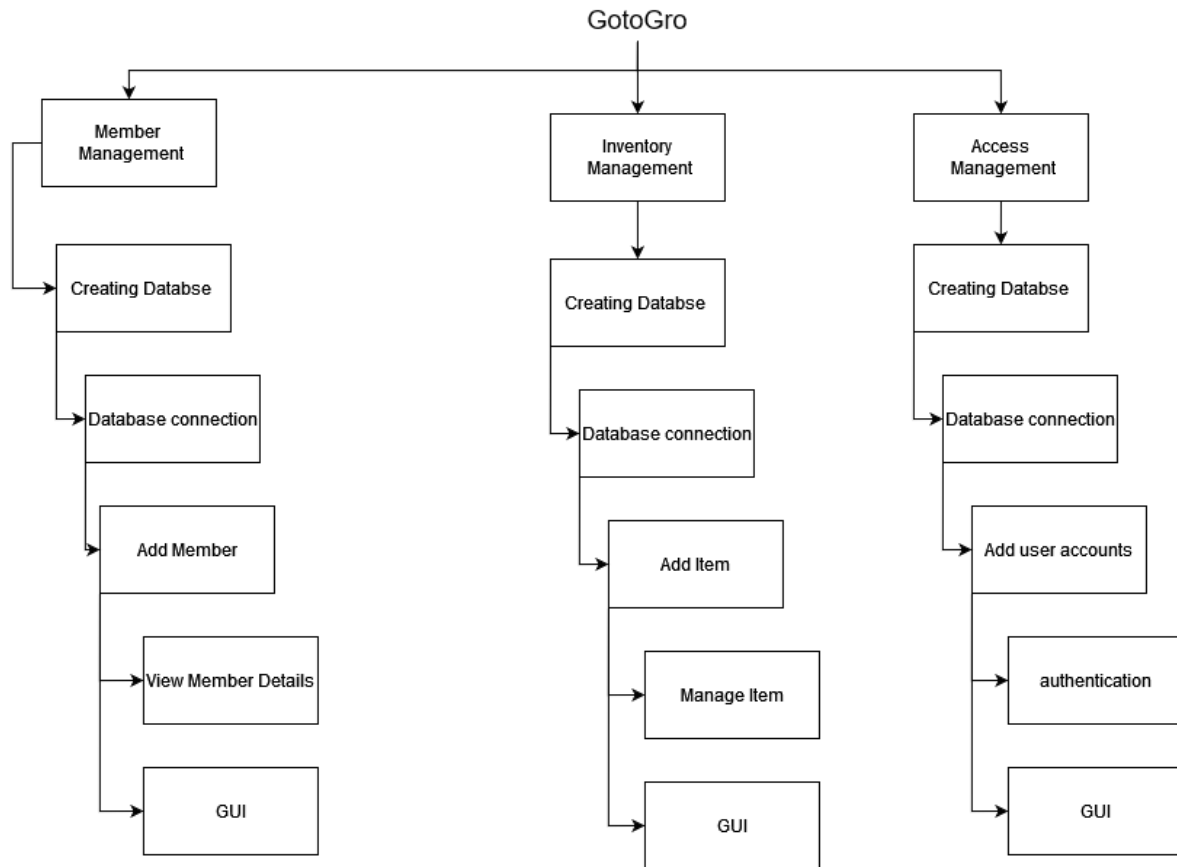
Here, we have organized the priority of factors keeping in line with the following philosophy of “Customer first” which can be seen as we kept “Business value” first and then “Development Effort” and ended with “Risk” factor.

So, by considering all these our highest priority product backlog item is “Adding member details” and is the one we have decided to start with in terms of our project.

The Sprint 1 product backlog is as follows:

- Add a new member
- Add new item
- Manage Item
- Add user account

And Our WBS (Work Breakdown Structure) can be explained through the following graph:



Although it may seem like less amount of work for sprint 1, As university students who have access to very little resources and experience. This would be our first project worked through the scrum. So, we are keeping a lot of leeway time to deal with bureaucratic issues and keeping some time in hand for research and troubleshooting issues regarding the codes.

Furthermore, we are also trying to apply the pair programming technique to avoid the “truck factor” (i.e., preventing situations where one person with the knowledge gets into an accident and thus causes the entire project to come to halt) which was stated in the risk factor for the lecture of week 7. This is to raise the overall skill of the members of our team so that when we start our sprint 2, we can do a lot more.

Thus, even though it might seem that we are being less productive right now, this is still crucial for our development both as a team and also in terms of this project. And thus we believe that it is adequate for our sprint.