Lab 5 - Planning Software Engineering Projects

## Instruction

## Follow the instructions and answer the below question in the boxes.

1. Please submit the assignment through TalentLabs Learning System.



## Part 1 Gathering Business Requirements

### Imagine you are the project manager of a new eCommerce Platform. You are going to go through the requirement gathering step in this part.

### 1.1 List out the features that you need to build

List out at least 5 major features (not including the examples) that an eCommerce Platform would require. This should be from a “business” point of view, not technical terms. List out as many features that you can think of.

*You can refer to page 31 in the lecture notes to look at a sample of “business requirement”*

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| Example 1: User registration and log in features  Example 2: Shopping cart features |
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### 1.2 Break down the large features into *functional requirements* for developers

In this part, for each of the large features in 2.1, break it down into functional requirements so the software engineers can work on them step by step.

*You can refer to page 31 and 32 of the slides on how to write good functional statements.*

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| Example 1.1: User should be able to register for a new account on home page  Example 1.2: User should be able to login with their user name and password on login page  Example 1.3: User should be able to log out with a button on the navigation menu  Example 2.1: User should be able to add a product to shopping cart on product details page  Example 2.2: User should be able to remove a product from shopping cart on the shopping cart page |
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## Part 2 Agile Planning

### In Agile development, we will put the tasks into different sprints and deliver the high priority and more important features first. Imagine you are the project manager, how would you prioritize the tasks in **part 1.2** into different sprints?

In this part, prioritize the tasks based on

1. the dependencies between tasks (e.g. without shopping cart features, you won’t be able to develop the checkout and payment features)
2. the importances of the features (e.g. product listing feature is more important than product promotion banner feature, as product listing is the core of an eCommerce system).

Now, re-order the tasks in 1.2 based on your understanding of their priority. Start from the highest priority features.

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**- End of Assignment -**

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