



Terbal

Complete Software Project Proposal

13016214 Software Engineering Principle

Software Engineering Program

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By

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Project Description

Nowadays, health is the number one priority on people list. As a consequences, we came up with an idea to make Terbal which is a delivery app that offer traditional Thai herbal and other supplement to people. This allows people to order their supplement without having to wait and buy it from a department store.

Terbal will have many products or store the customers can choose. If the customers find the product they want, they will be taken to the checkout page where they can select what type of payment they want to choose.

Software Requirement

User Requirement

Functional

- The system shall allow user to create/sign up accounts.
- The system must provide accurate description for each product.
- The system must keep track of the product user is ordering.
- The system must have a history of the product users have ordered.
- The system must provide a search bar for user for easy access.
- The system must provide the ability for user to cancel their order.
- The system must provide the ability for user to checkout their products.
- The system must provide accurate calculation of the total price on checkout page.
- The system must provide a payment method page for user to select types of payment.
- The system shall provide a note function for user to additional information can be delivered to the seller.

Non-functional

- The system shall be developed in Python Language.
- The system shall have English Interface.
- The system shall process the search function within 5 second.
- The system shall update order history in user's account every time when they make an order.
- The system shall check does the password when user register met the requirement. (ex. At least 1 uppercase letter, 1 special letter, etc.)
- The system shall load the main page within 5 second.
- The system shall be able to checkout within 3 steps.
- The system can check out a maximum of 30 products per order.
- The system will rearrange products depending on their category.
- The system shall update user setting within 5 second.

System Requirement

Functional

- The system accesses the database to let users create or sign up account. For example, the new accounts must not have the same username as the existed accounts.
- The system connects the database to let users log in to account. The wrong password is unacceptable and let the users type again.
- The system must have the appropriate application's layout which make the users easy to use by using Qt Creator.
- The system displays the error message when it fails to connect the database and tell the users to reopen again.
- The system must not allow choosing more than one shop per a time.
- The system saves user's general information such as location in database.
- The system shall save the success order in the history menu.
- The system must allow the user to pick more than one for the same item and calculate it in the right amount.
- The system shall auto update the total price on checkout page when more items are added.
- The system shall provide the users to have search feature in finding the stores and items.

Non-functional

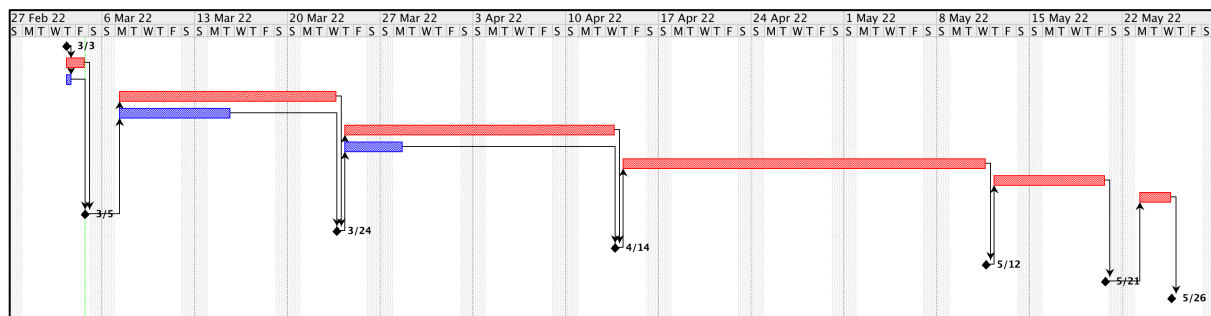
- The developers should implement the code by using the Object-Oriented concept.
- The system shall be using PyQt library.
- The developers should use Visual Studio Code or PyCharm Professional as IDE.
- The developers should use Qt Creator as IDE for arranging the components and designing the window screen.
- The system must be developed by using Python 3.8 or higher.
- The system must be developed by using exploratory style of software development.
- The development team should use GitHub for coworking and sharing the code with the teammates.
- The developer should design the all window screens before implement the code.
- The system should use Firebase as database to store the data.
- The developers can use any Operating System to do this program.

Project Plan

Project Activity and Durations

		Name	Duration	Start	Finish	Predecessors
1		start	0 days?	3/3/22 8:00 AM	3/3/22 8:00 AM	
2		make software requirement	2 days?	3/3/22 8:00 AM	3/4/22 5:00 PM	1
3		do project proposal	1 day?	3/3/22 8:00 AM	3/3/22 5:00 PM	1
4		study framework that we will use	13 days?	3/7/22 8:00 AM	3/23/22 5:00 PM	11
5		study and research UI from similar app	7 days?	3/7/22 8:00 AM	3/15/22 5:00 PM	11
6		design and build UI	15 days?	3/24/22 8:00 AM	4/13/22 5:00 PM	12
7		find pictures and graphics	3 days?	3/24/22 8:00 AM	3/28/22 5:00 PM	12
8		build process inside app	20 days?	4/14/22 8:00 AM	5/11/22 5:00 PM	13
9		create databases	7 days?	5/12/22 8:00 AM	5/20/22 5:00 PM	14
10		test the application	3 days?	5/23/22 8:00 AM	5/25/22 5:00 PM	15
11		software requirement and proposal completed	0 days?	3/4/22 5:00 PM	3/4/22 5:00 PM	2;3
12		studying completed	0 days?	3/23/22 5:00 PM	3/23/22 5:00 PM	4;5
13		building UI completed	0 days?	4/13/22 5:00 PM	4/13/22 5:00 PM	6;7
14		implementation completed	0 days?	5/11/22 5:00 PM	5/11/22 5:00 PM	8
15		database completed	0 days?	5/20/22 5:00 PM	5/20/22 5:00 PM	9
16		finish	0 days?	5/25/22 5:00 PM	5/25/22 5:00 PM	10

Gantt Chart



Network Diagram

