Full Name: Hewagamage Pasindu Bhagya

NIC Number: 982380863V

Contact Number: 0775256076

Candidate Number:

University: University of Colombo School of Computing

Date: 9/16/2022

**Answers**

1. Story points are metric units used to determine the amount of work needed to finish a product backlog item or any other task.
2. As a user I should be able to login to the system using my credentials.

As a user I should be able to see available doctors to channel.

As a user I can select a doctor to channel.

As a user I can set the date and time for the channel.

As a user I can submit the details to the system.

As a user I will receive the conformation or rejection of the channel request.

1. When considering traditional methodologies such as waterfall, these are pre-organized phases/stages of the software development lifecycle. Here, development proceeds in a single direction from requirements to design to development to testing to maintenance. Each phase in traditional methodologies, includes distinct deliverables and complete documentation that has undergone a rigorous review process. Traditional approaches are suited when requirements are well understood. On the other hand, traditional development methods could fall short of project objectives in sectors like IT that are undergoing rapid change. Agile methodologies, in contrast to conventional SDLC methods, are precise and customer-focused. Throughout the various stages of a project's development, users and customers can make changes. Agile proposes an incremental and iterative approach to development.
2. Structure Diagrams
   * + Class Diagram - It displays a system's classes, along with each class's properties, operations, and relationships to other classes.
     + Component Diagram - A component diagram shows how a software system's components are connected structurally.
     + Deployment Diagram - Your system's hardware and the software that runs on it are both displayed in a deployment diagram.
     + Object Diagram - Class diagrams and object diagrams are quite similar, while object diagrams are sometimes called instance diagrams. They display the link between things similarly to class diagrams, but they make use of examples from the real world.
     + Package Diagram - The interdependencies between several packages in a system are displayed in a package diagram.
     + Profile Diagram - Profile diagram is a new diagram type introduced in UML 2
     + Composite Structure Diagram - Composite structure diagrams are used to show the internal structure of a class.

Behavioral Diagrams

* Use Case Diagram - Use case diagrams provide a visual picture of the various actors in a system, the various functions required by those actors, and the interactions between those various functions.
* Activity Diagram - They can be used to describe the operational workflow or the business workflow of any system component.
* State Machine Diagram - These are very useful when describing how objects behave differently depending on the condition they are in at the time.
* Sequence Diagram - Sequence diagrams show how objects interact with each other and the order those interactions occur.
* Communication Diagram - Sequence diagrams and communication diagrams are similar, but the emphasis is on messages sent between objects.
* Interaction Overview Diagram - Activity diagrams and interaction summary diagrams are extremely similar. Interaction overview diagrams display a sequence of interaction diagrams, as opposed to activity diagrams which display a sequence of operations.
* Timing Diagram - Sequence diagrams and timing diagrams are extremely similar. They depict how things behave within a specific period of time.

1. Most required features,

* Farmers should be able to see all the registered delivery persons in the app that are available to request a delivery.
* Farmers should be able to see the delivery charges.
* Farmers should be able to track the delivery of the products.
* Farmers should be able to do payment online or after delivery.
* Delivery persons should be able to see every request they received and should be able to accept and reject them.
* Delivery persons should be able to add their vehicle information to the app.
* Delivery persons should be able to change their available status.

Unique features

* Farmers should be able to rate the delivery persons on their service
* UIs should be clear, easy to understand, and be consistent with the standards.