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Software Engineering Pract-2

Case Study Title

Delivery Agent Management

Aim

To create Use Case diagram to depict the system's actions from the point of view of a user.

Theory

Use Case Diagrams: -

In unified Modelling Language (UML) a use case diagram can summarize the details of the system's user. The uml diagram are really important since it really becomes very easy after designing the skeleton of the product. It can depicts the flaws in the project very easily. In UML, there are five diagrams in which we can design the nature of the project and use case diagram are one of them. The use case diagram has basically some internal or external factors for making the interaction. These internal and external agents are known as actors. Use case diagrams consists of actors, use cases and their relationships.

In brief, the purposes of use case diagrams can be said to be as follows:

- Used to gather the requirements of a system.
- Used to get an outside view of a system.
- Identify the external and internal factors influencing the system.
- Show the interaction among the requirements are actors.

Delivery Agent Management

Basically in the below use case diagram there are 32 use cases solving different functionality. These use cases are being operated by the 6 actors.

Different Features used

- Association
- Generalization
- Use Case
- Extend
- Include

Actors

Admin

- It manages the user
- He can update the user info and remove the user.
- The courier history is also managed here

System Manager

- It manages all the task related to the courier shipment and manages the payment process.
- At the higher level it will supervise the shipment process of the process to the local branch and also look into the update of the delivery.
- The payment process will be managed here only.
- When the customer makes the payment, it will be received here and the seller part will also be passed on to seller.

Local Manager

- When the parcel reaches the local branch, it will be managed by the local manager.
- This actor will check the available delivery boy and will notify him.
- If the customer changes the delivery date, this actor will be notified.

Customer

- This actor can check the service and determine it's cost and delivery date.
- After selecting the product it will make payment.
- It can track the product and can call the delivery boy.
- After receiving the product, it can provide the feedback.

Seller

- This actor can manage the inventory in which he can remove and add the item.
- After receiving the payment he can generate the receipt.

Delivery Boy

- This actor will manage the safe delivery of the courier.
- He will check the delivery address and can make route.

Common Use cases:

- Change account password
- Login and logout from the system.
- Communication between each actor

Screen-Shot of the Use case

Result

Use Case Diagram for Delivery Agent System has been designed and code conversion has been demonstrated.