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[This assignment is done with my team partner Jay H. Khania 21BCE1394]

EXPERIMENT- 5
TITLE- Use case and Class Modeling

AIM- Creating a Use case and Class Modeling Diagram for our Project "Online Medicine Delivery App- Medinet".

DESCRIPTION

● **Use Case Diagram**

A use case diagram serves as a visual depiction of a system's functional requirements, showcasing how various actors (users, external systems, or other entities) interact with the system. It illustrates the specific actions or use cases that actors can perform within the system.

In software development, use case diagrams are extensively used to capture and document the system's behavior, as well as the relationships between different actors and use cases. They provide a high-level overview of the system's functionality and assist in determining its boundaries and scope.

The main components of a use case diagram include:

Actors: Representing entities that interact with the system and fulfill specific roles, actors are portrayed as stick figures or labeled blocks.

Use Cases: Depicting the system's specific actions or functionalities, use cases describe how the system behaves from the perspective of the actors. They are represented as ovals or ellipses and labeled with descriptive names.

Relationships: Illustrating the associations and dependencies between actors and use cases, relationships primarily show the connection between an actor and a use case, indicating that the actor interacts with or utilizes that particular functionality.

System Boundary: Enclosing all the actors and use cases within the diagram, the system boundary is depicted as a box or rectangle, signifying the scope and limits of the system.
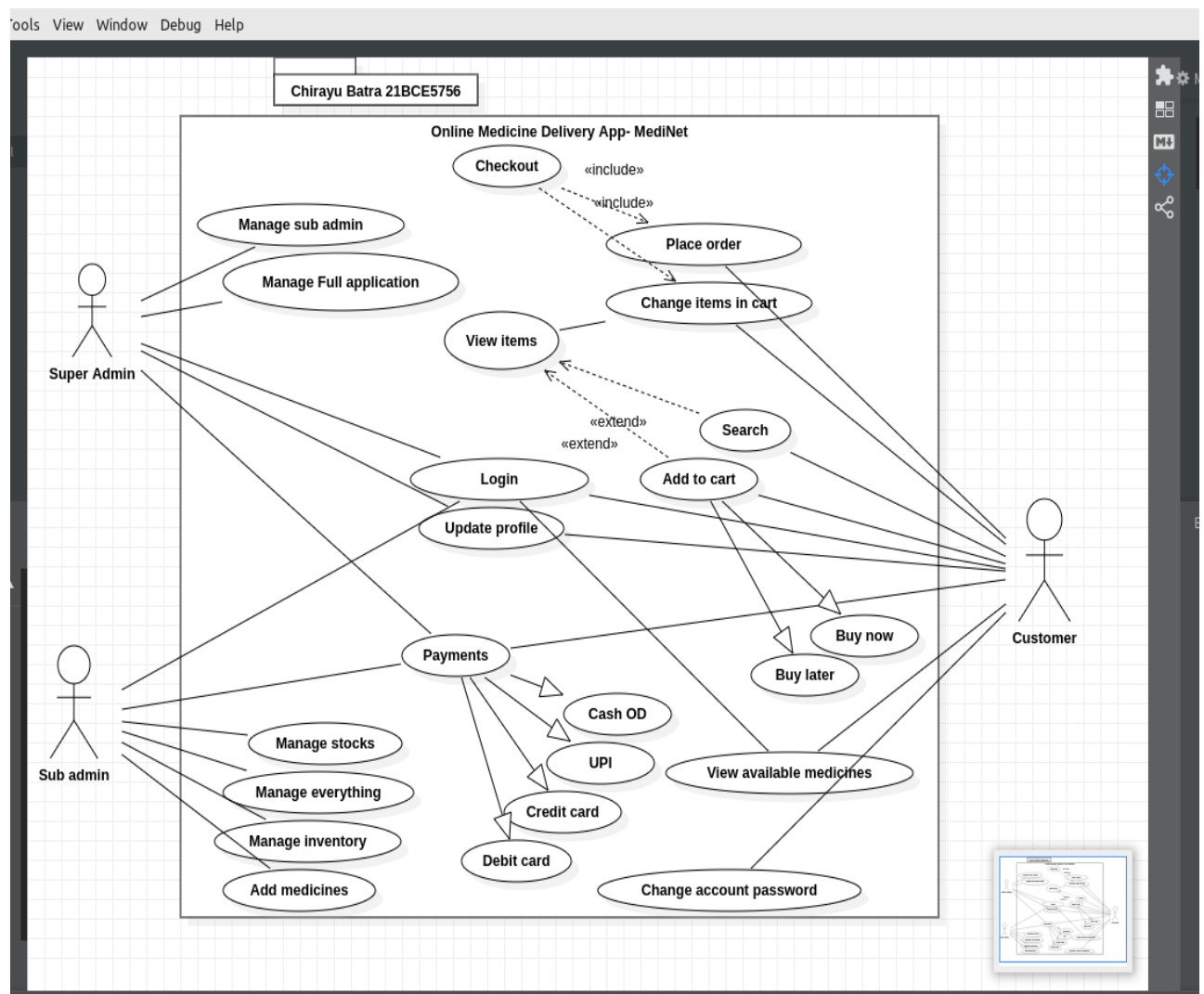
- **Class Modelling Diagram**

A class modeling diagram, referred to as a class diagram, is a graphical portrayal of the unchanging structure of a system, displaying the classes, their characteristics, methods, relationships, and associations. It offers a broad perspective of the classes and how they interact within the system.
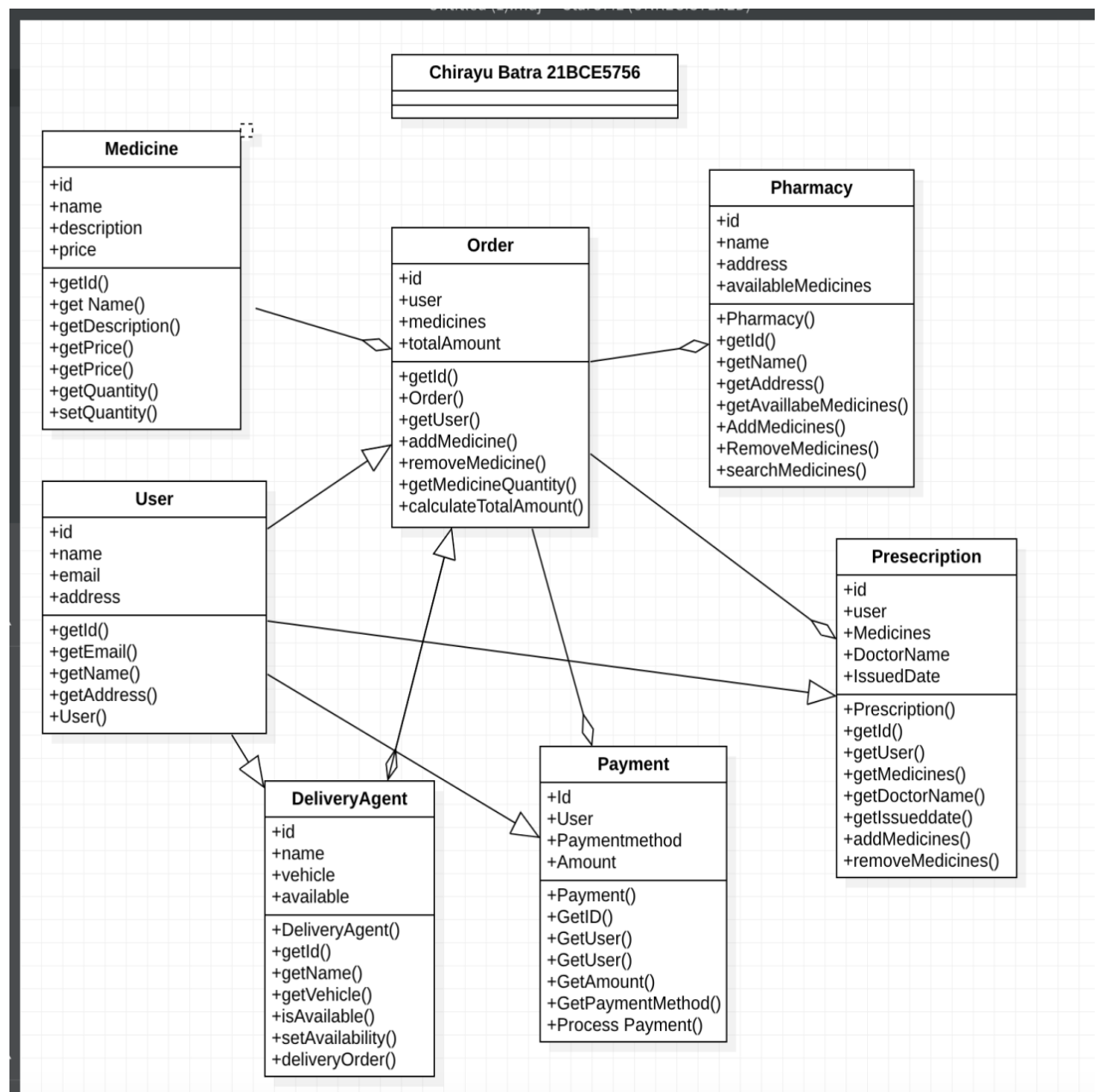
Class diagrams find extensive application in object-oriented analysis and design as they visually represent the connections between classes, inheritance hierarchies, and the overall organization of the system.

OUTPUT:

Use Case Diagram

Class Diagram

RESULT:

Use case diagrams and Class Modelling Diagrams provide a clear understanding of the system's requirements, facilitating communication between stakeholders, analysts, and developers for Medicine Delivery App- MediNet.