Chirayu Batra
21BCE5756
[This assignment is done with my team partner Jay Hansraj Khania 21BCE1394]

EXPERIMENT 8 - Package, Component and Deployment Models

Aim:

The objective is to create a diagram that illustrates the arrangement of system components in unified packages, displays the internal structure and relationships of these components, and demonstrates their deployment and interconnections within a distributed system.

Tools Used:

Star UML software

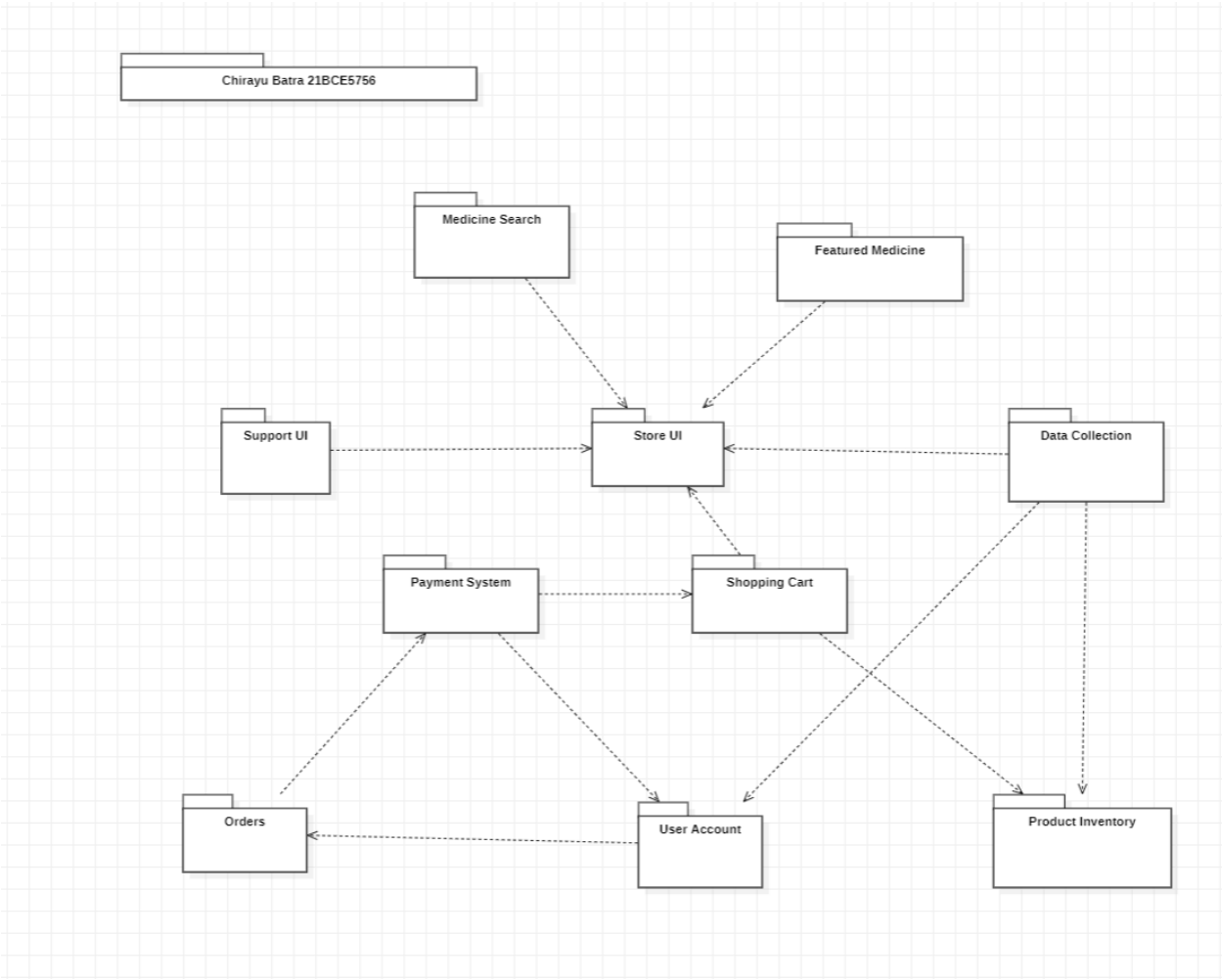
Description:

A package diagram is a UML diagram that illustrates the structure and organization of a software system by grouping related elements into cohesive packages. It depicts the dependencies and relationships between these packages and their contents, serving as a high-level overview of the system's architecture and design. Package diagrams are valuable for stakeholders to comprehend the overall structure of a software system, identify areas of cohesion and coupling, and facilitate modular design and development practices. Additionally, they aid in managing complexity by breaking down a large system into smaller, more manageable components.

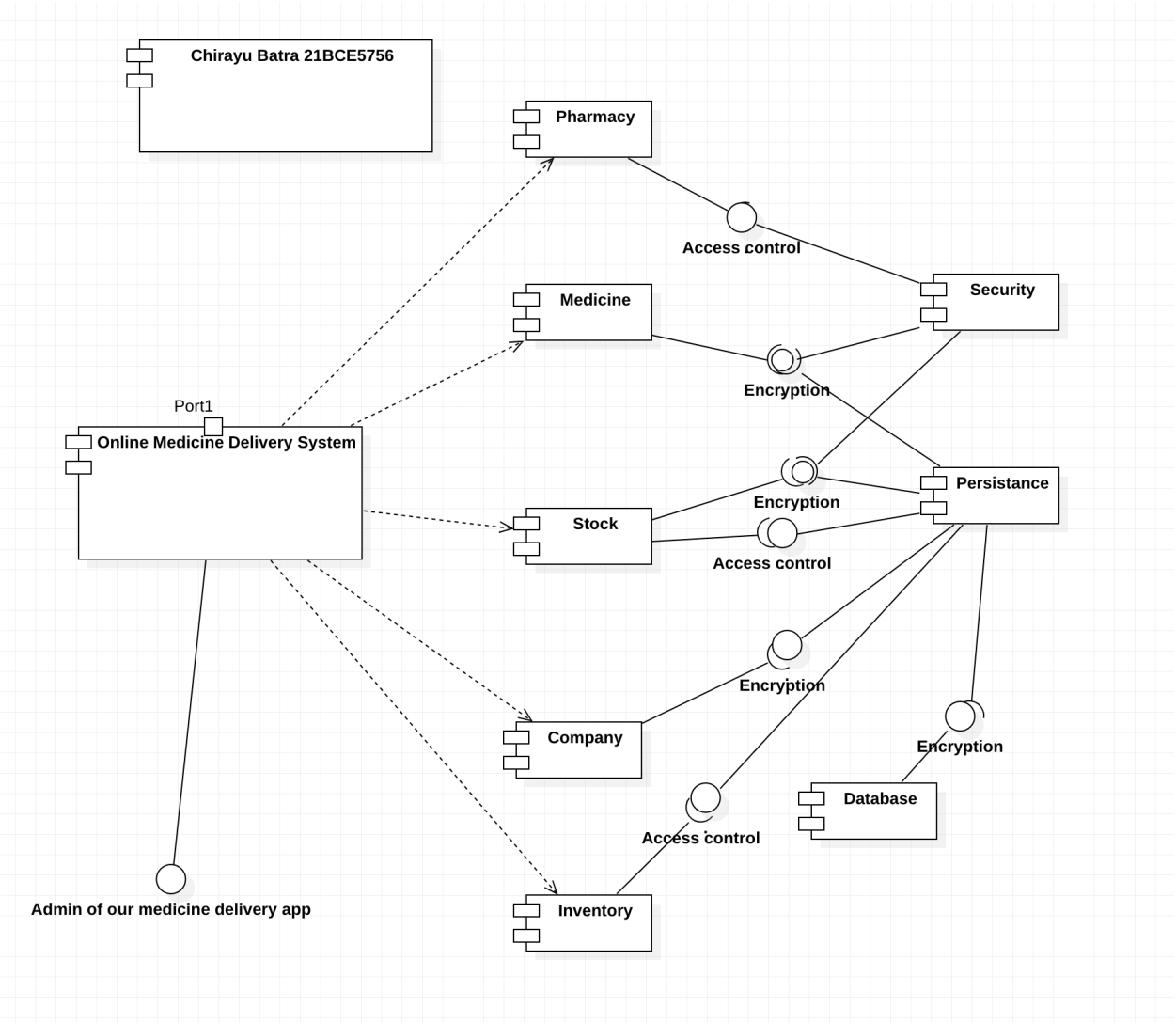
A component diagram, on the other hand, is a UML diagram that reveals the internal structure and composition of a software system by breaking it down into smaller, self-contained components. It emphasizes the implementation aspect of the system and exhibits how its various components are connected and interact with one another to accomplish specific functionalities.

A deployment diagram presents the deployment perspective of a system. It is closely linked to the component diagram since the deployment diagrams are utilized to deploy the components. A deployment diagram consists of nodes, which represent the physical hardware employed to deploy the application.

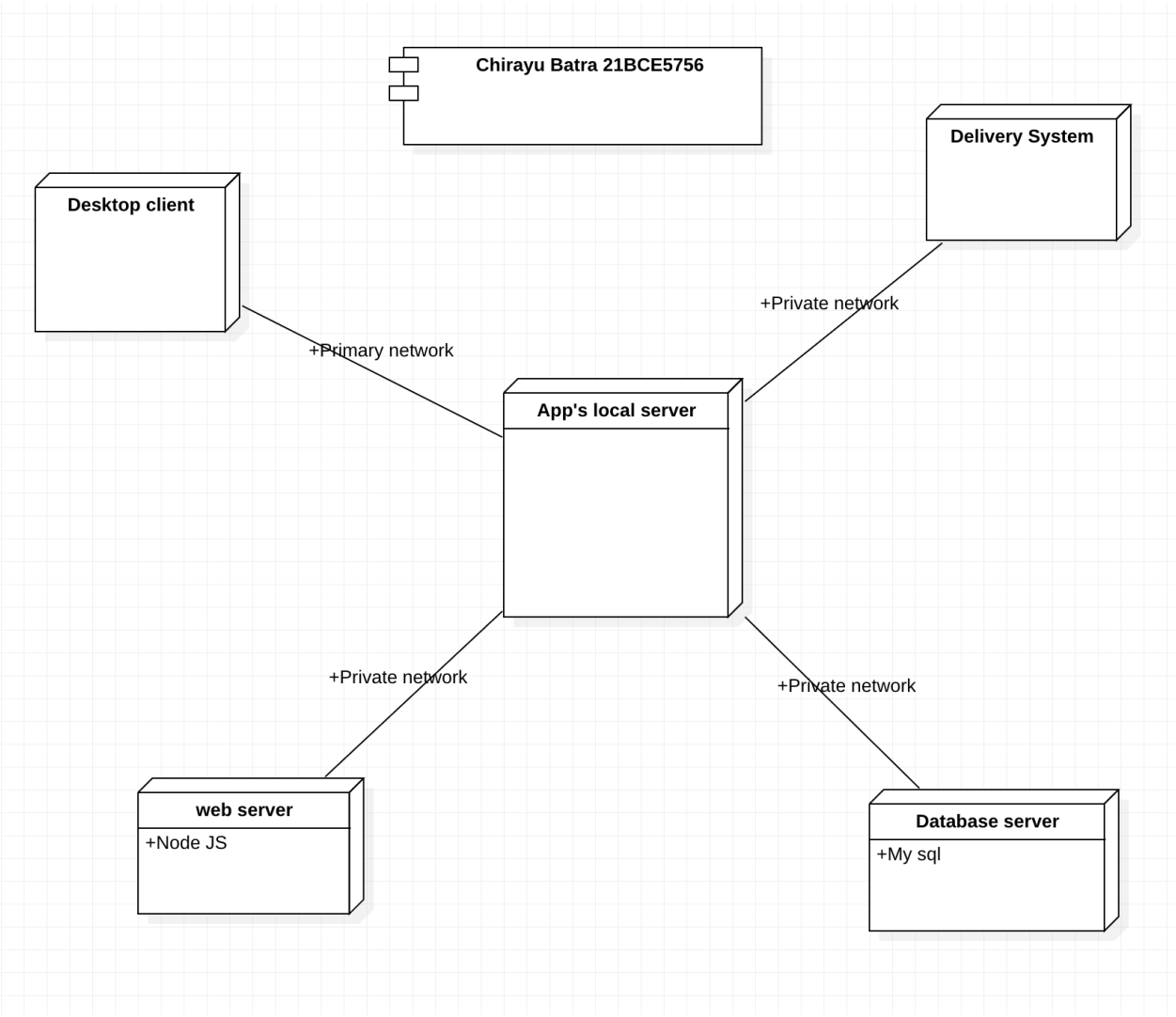
Output:



Package diagram



Component diagram



Deployment diagram

Result: Hence we have made our component, deployment and package diagram for our Online medicine delivery app(MediNet).