AED FINAL PROJECT

Vaccine Management System

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Problem Statement

- To eliminate the misuse and lack of supply of vaccinations.
- To ensure that all manufactured vaccines are appropriately given to local health care and that everyone in need receives one without difficulty.

Solution

- We have created an application that supports maintaining the balance between vaccine supply and demand.

- Manufacturers, suppliers, distributors, local healthcare practitioners, and cycle participants all make up our application.
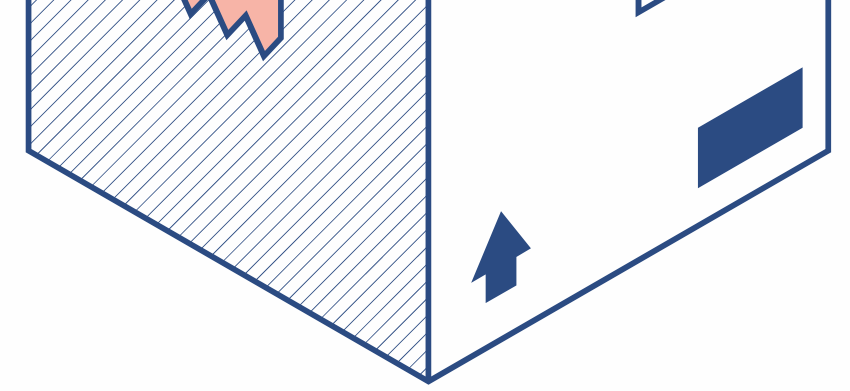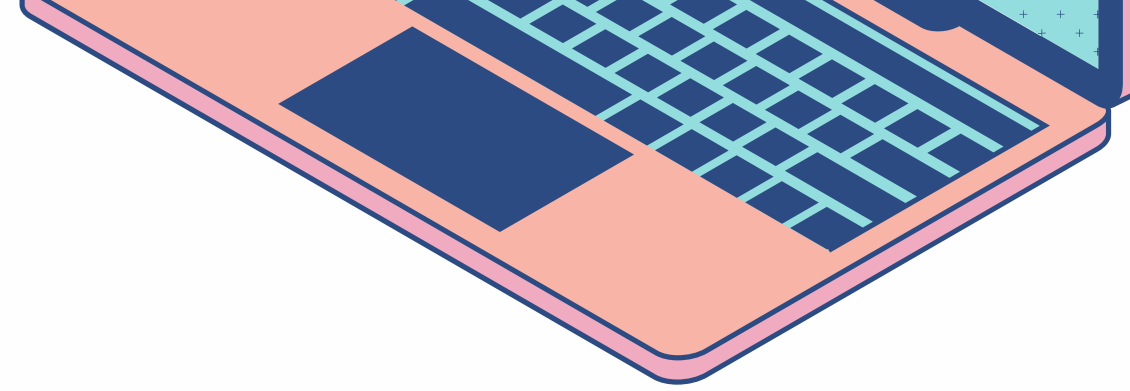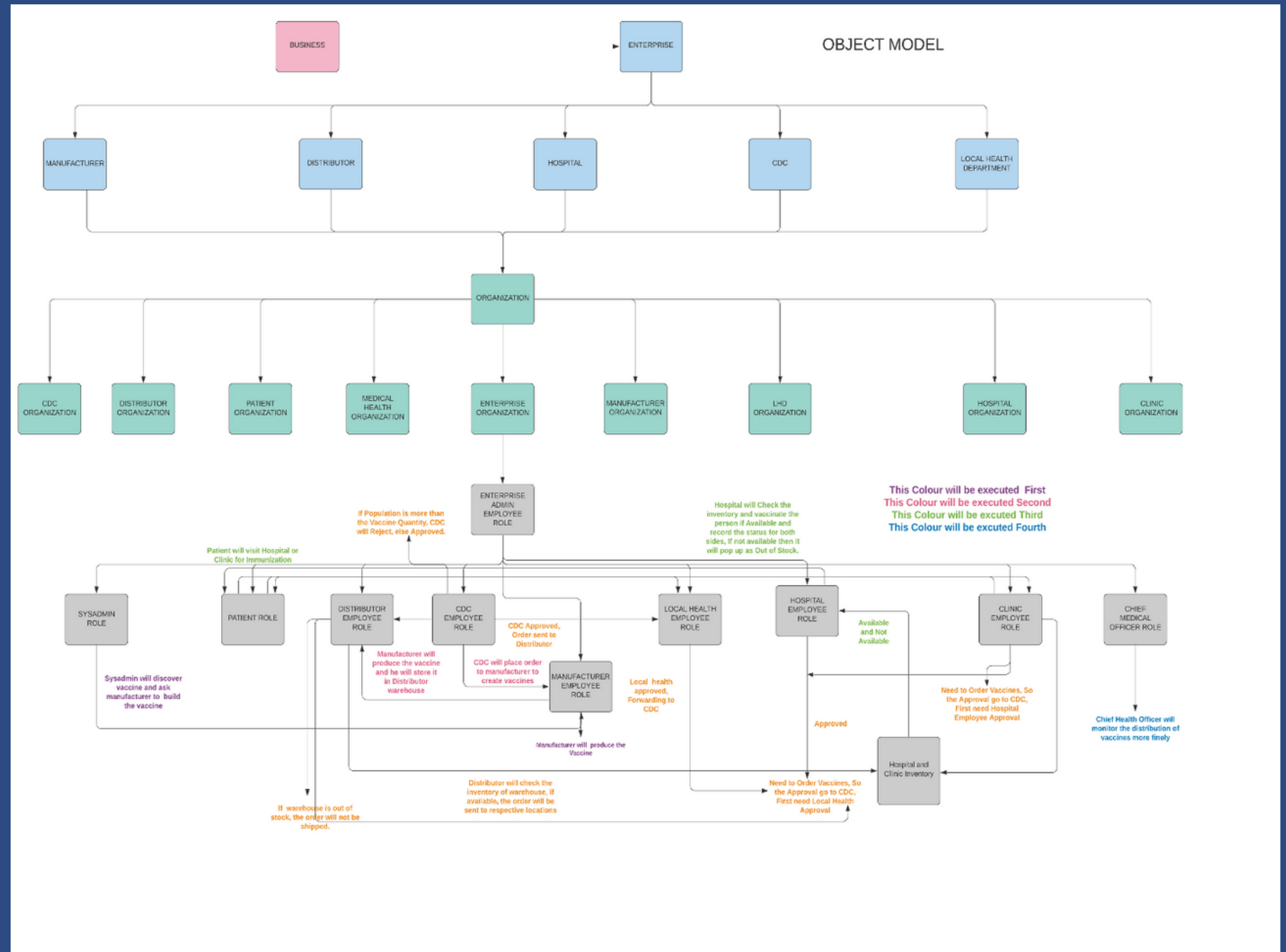
Key Features

- Maintaining the supply and demand of vaccines throughout the system.

- In accordance with vaccine demand, the CDC purchases vaccines from manufacturers and keeps them in distributor warehouses.

- Orders can be made by clinics connected to the providers.

- Following provider approval, clinic orders are subject to a series of approvals from the Local Health Department (LHD) and from LHD to CDC.

- Via the CDC, vaccination requests are accepted or rejected based on the state's population.

- In accordance with the vaccines in the inventory, the Distributor ships the vaccines to the appropriate locations after the Order is approved.
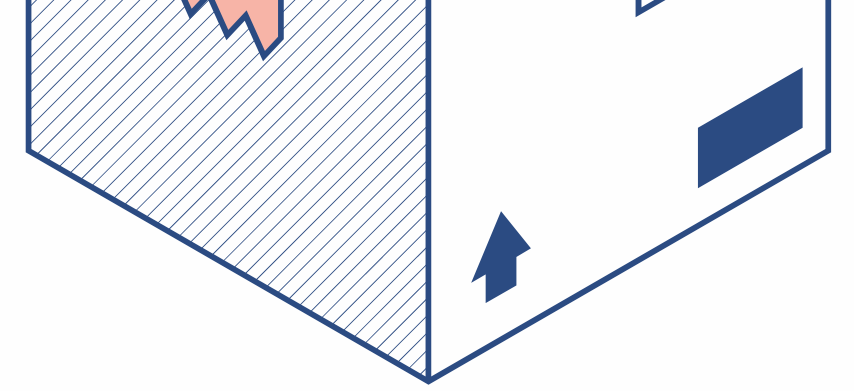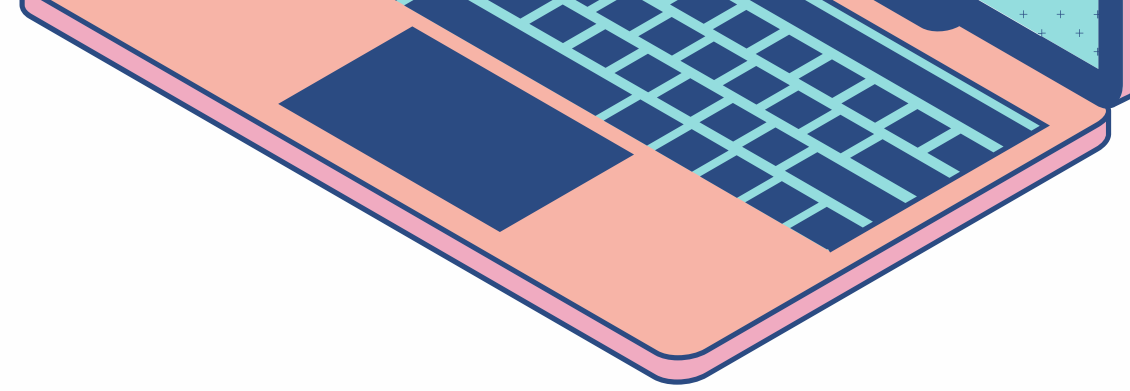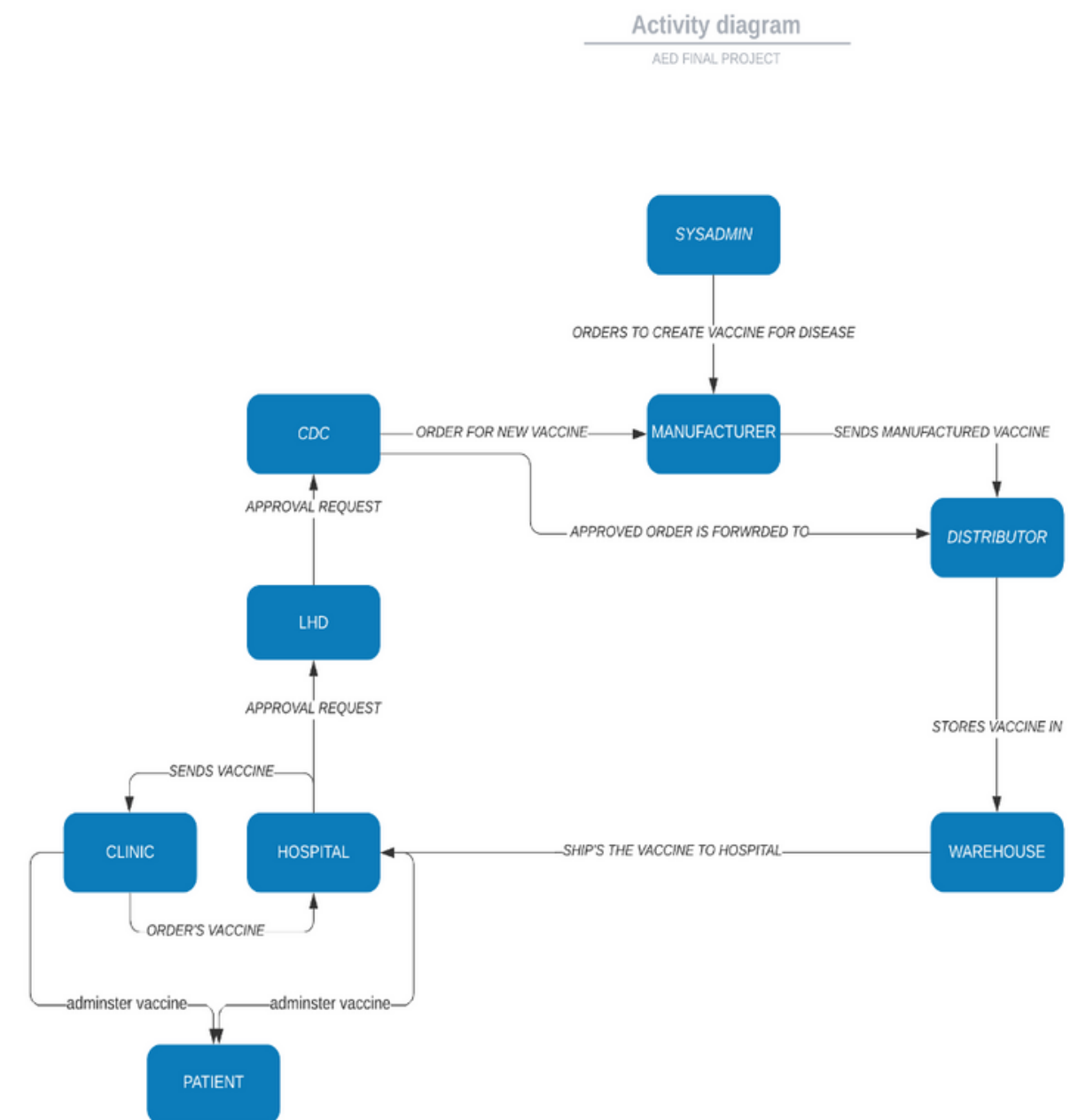
Key Features

- Vaccines are kept in stock at the designated sites after delivery.

- After immunization, the patient's status is recorded in a table for the clinic's and patient's future use.

- A chief medical officer will track all vaccine distribution statistics down to the state, city, and provider level based on the total number of vaccines distributed.

- To change the credentials for a person, the system administrator does NOT need to approve any requests.

- Without the system administrator's involvement, clinics can register new patients.
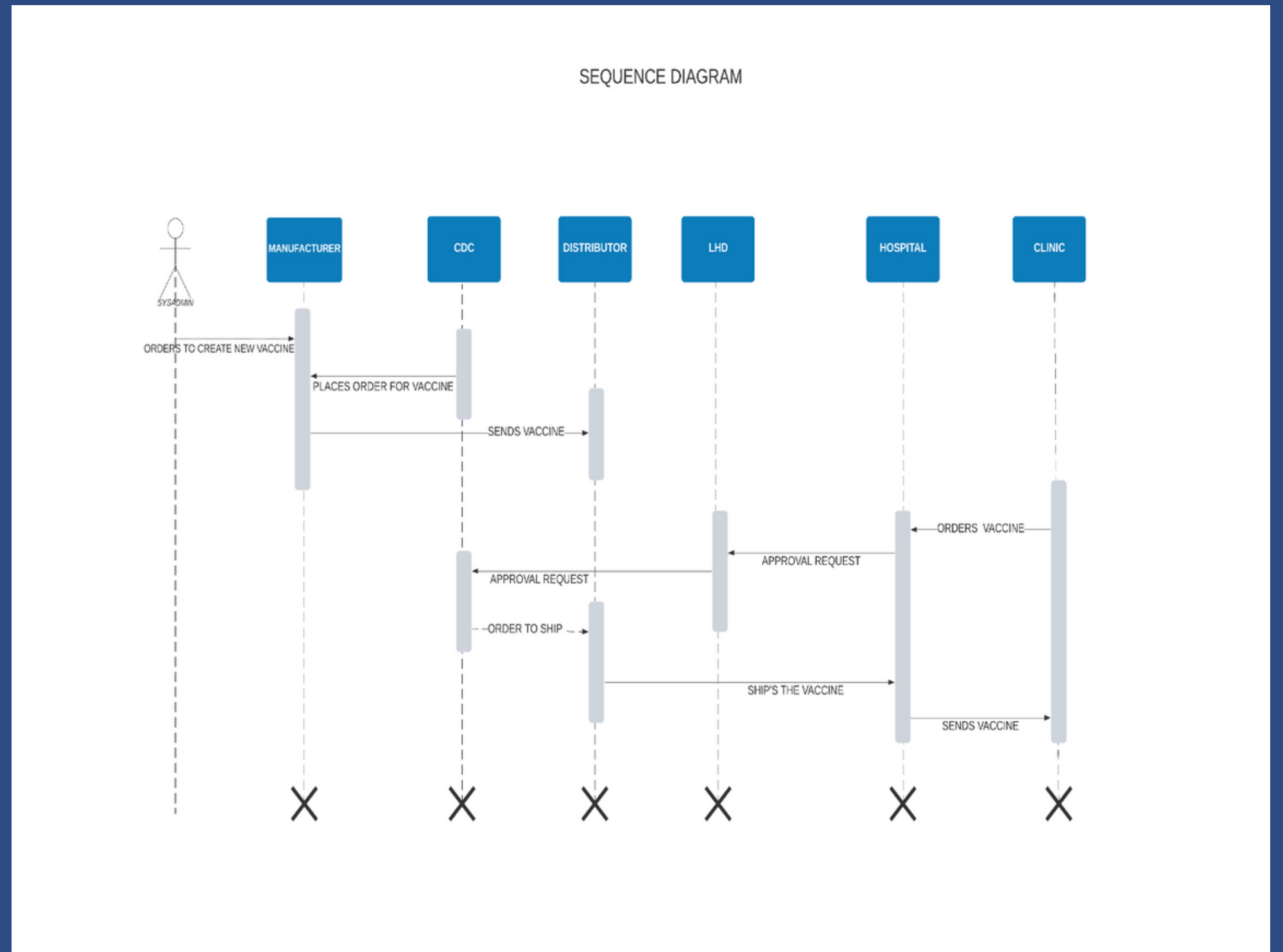
Object Model

Flow Diagram

Sequence Diagram

SEQUENCE DIAGRAM

SYS ADMIN | MANUFACTURER | CDC | DISTRIBUTOR | LHD | HOSPITAL | CLINIC

ORDERS TO CREATE NEW VACCINE

PLACES ORDER FOR VACCINE

SENDS VACCINE

ORDERS VACCINE

APPROVAL REQUEST

APPROVAL REQUEST

ORDER TO SHIP

SHIP'S THE VACCINE

SENDS VACCINE

thank you