

INFO 5100- Application Engineering & Development- Final Project

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One of the primary dangers of cancer in the world is its potential to overwhelm the healthcare system. Hospital beds, nurses, PPE, ventilators, and other resources are required to take care of people diagnosed with cancer who require hospitalization, yet these are limited resources and many hospitals are short on some or all of them. While hospitals are able to innovate some additional equipment by inventing new technologies and equipment, these methods are often insufficient or unsustainable.

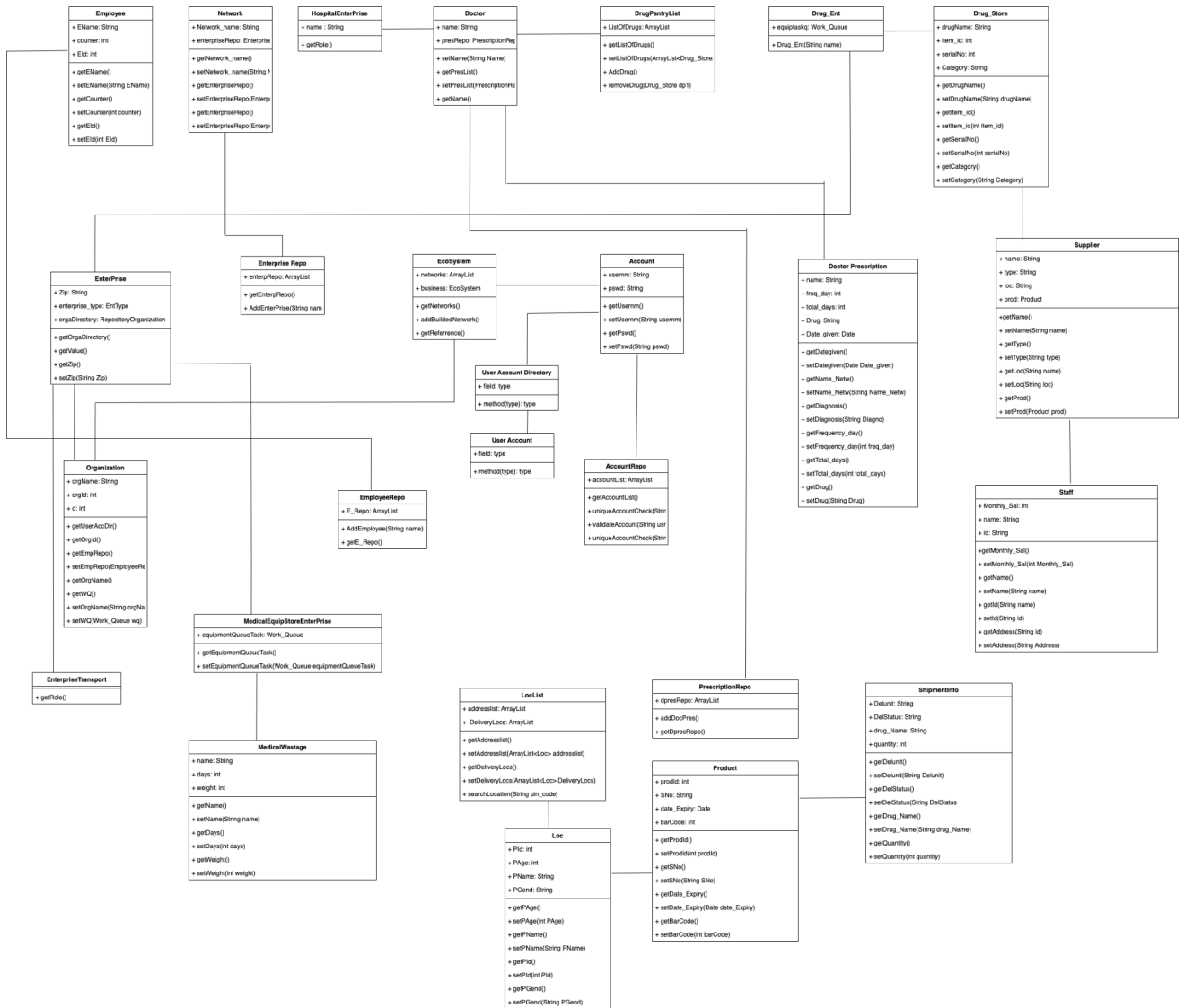
However, different areas are impacted with different severity, and experience their incidence of cancer cases at different times. Therefore, while some hospitals are nearing capacity or running out of resources, other hospitals and healthcare providers may have excess capacity or resources that they could share.

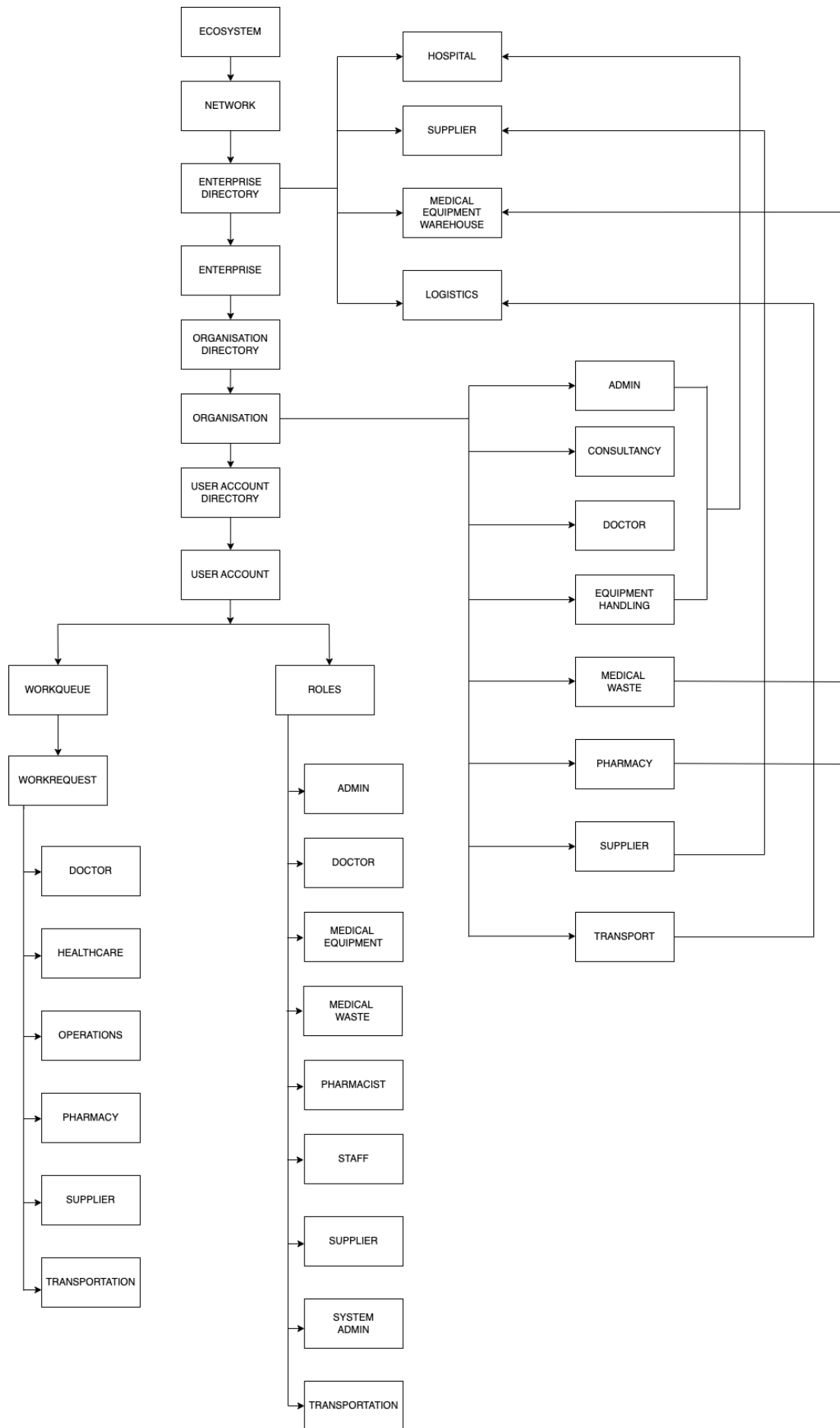
We are proposing a system to take advantage of any excess resources or capacity by optimally re-distributing resources and patients.

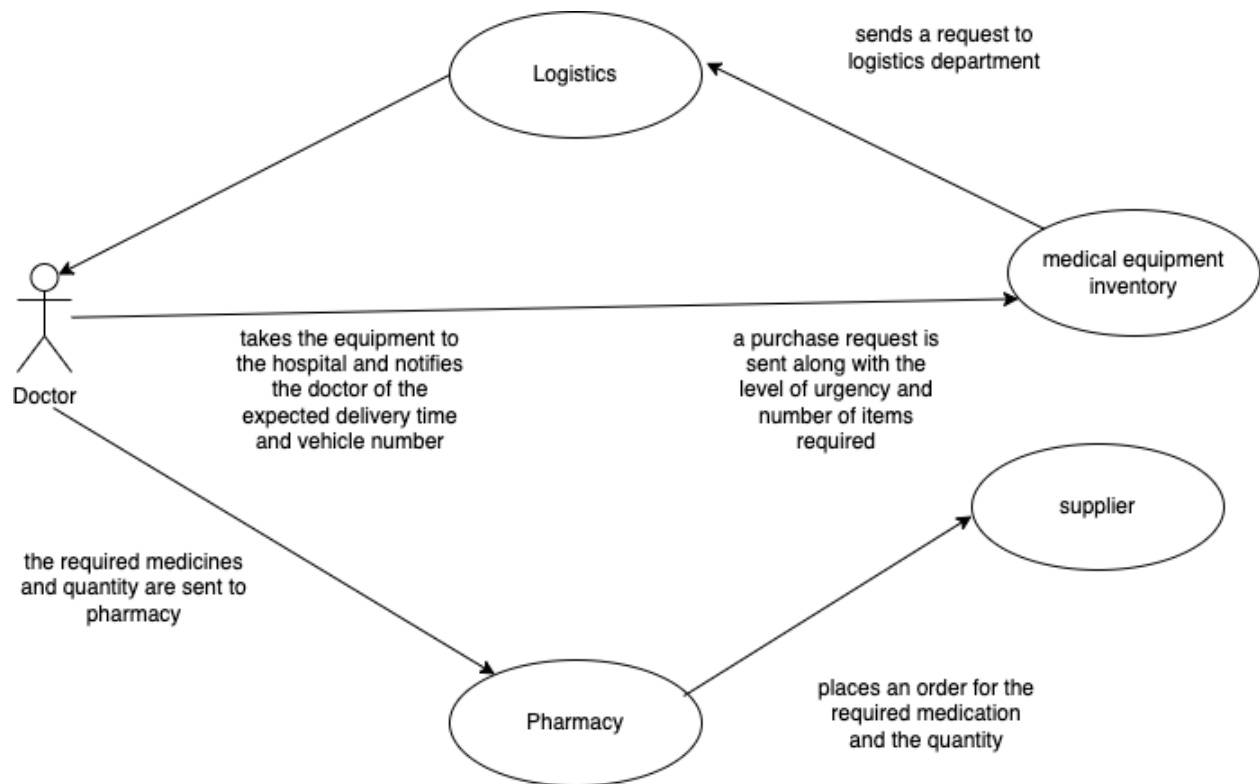
Our Approach is to:

- To create a unified platform that enables direct communication between producers and distributors of oncology drugs and healthcare professionals.
- To provide a central platform that enables medical facilities to order any device they might need from other facilities that have it in store and can send it quickly and accurately.
- Hospitals keep track of their oncology inventory in order to anticipate future demands, acquire products from suppliers, and try to replace critical pieces of oncology equipment.

Diagrams:







Enterprise Admin Sequence Diagram

