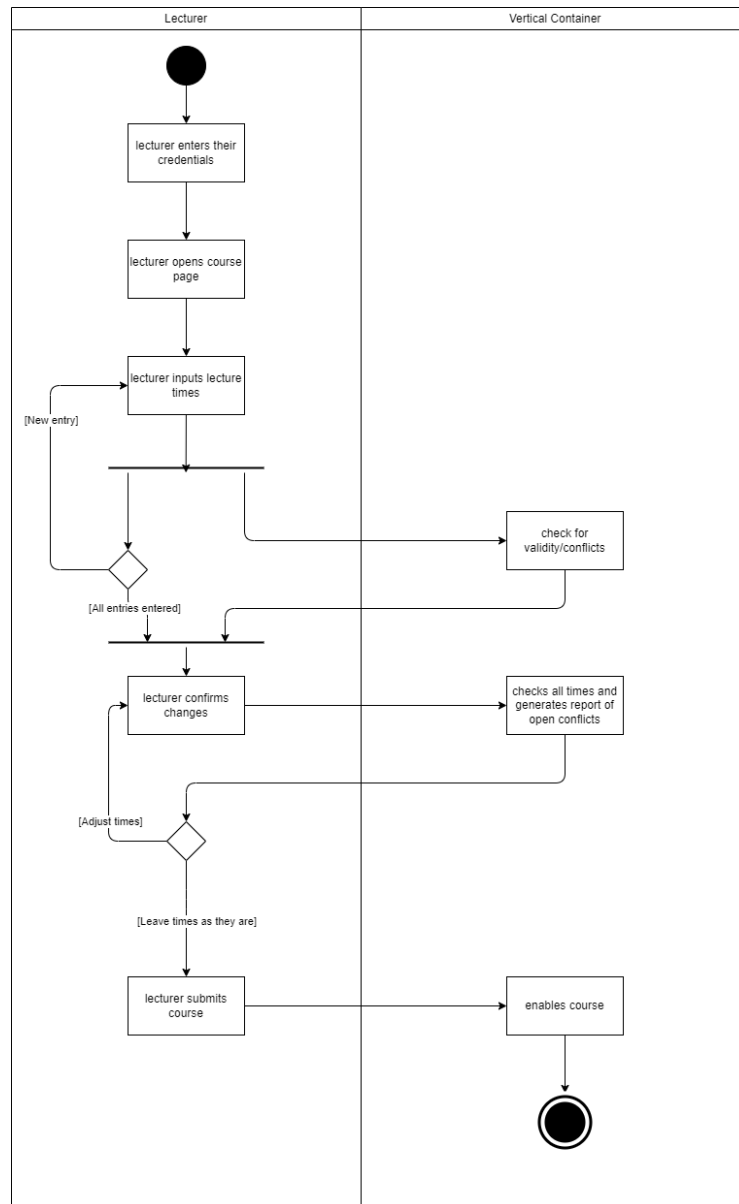
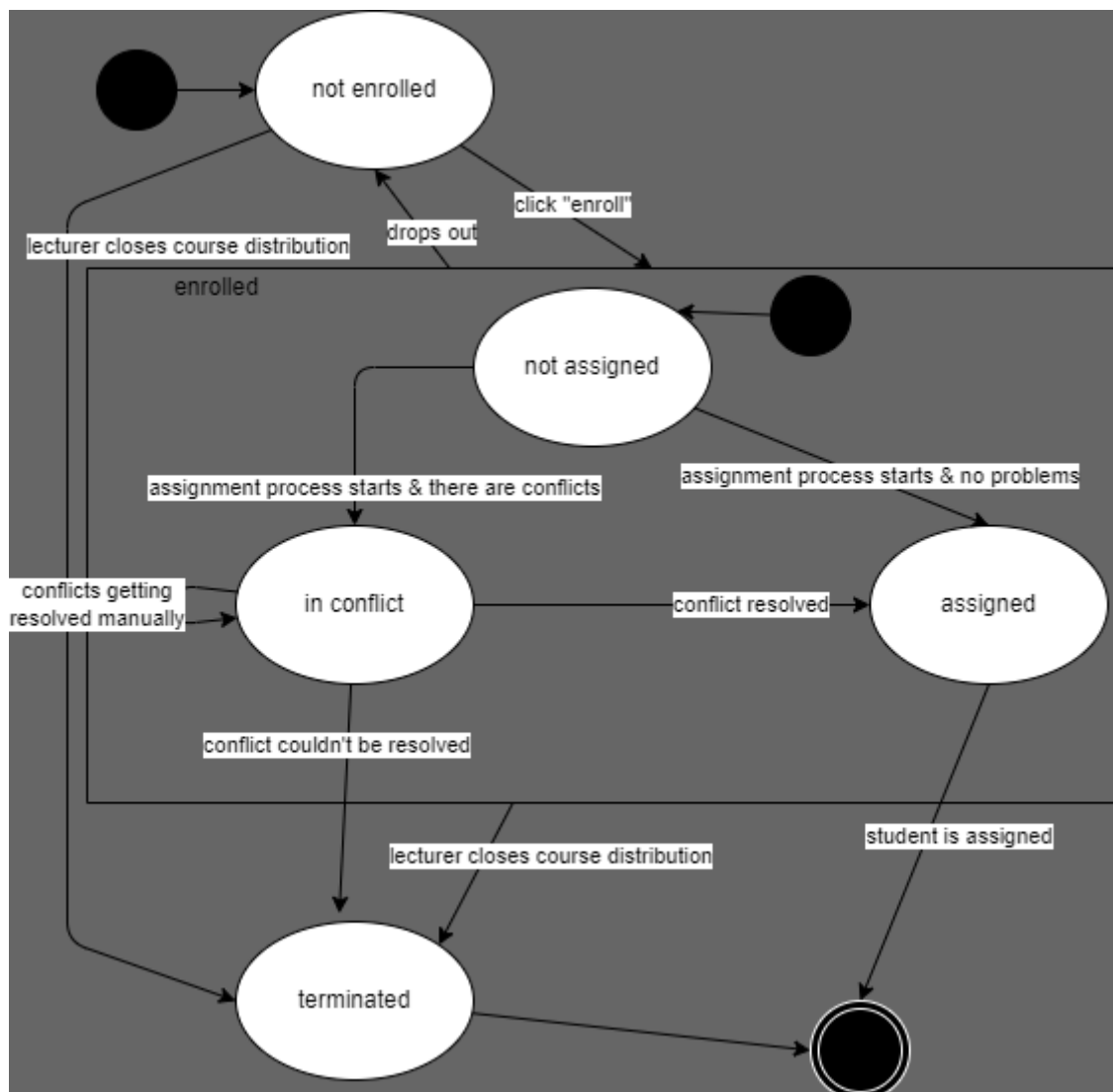


Homework 2

Exercise 1: Process Modeling with Activity Diagrams



Exercise 2: State-Machine Modeling



Exercise 3: System Decomposition and Architecture

Considering both the current requirements and the potential need for future scalability and modular development, a Microservices Architecture would be the best choice for the EGD system. This will allow the system to start on a small scale and grow as needed, with independent components that can be maintained and scaled separately.

