

Model Building and Simulation (MODUS)

Exercise 3

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1.1. Modeling the realworld problems

A. Patient transport logistics (PTL)

Following sequence diagram describes the first scenario:

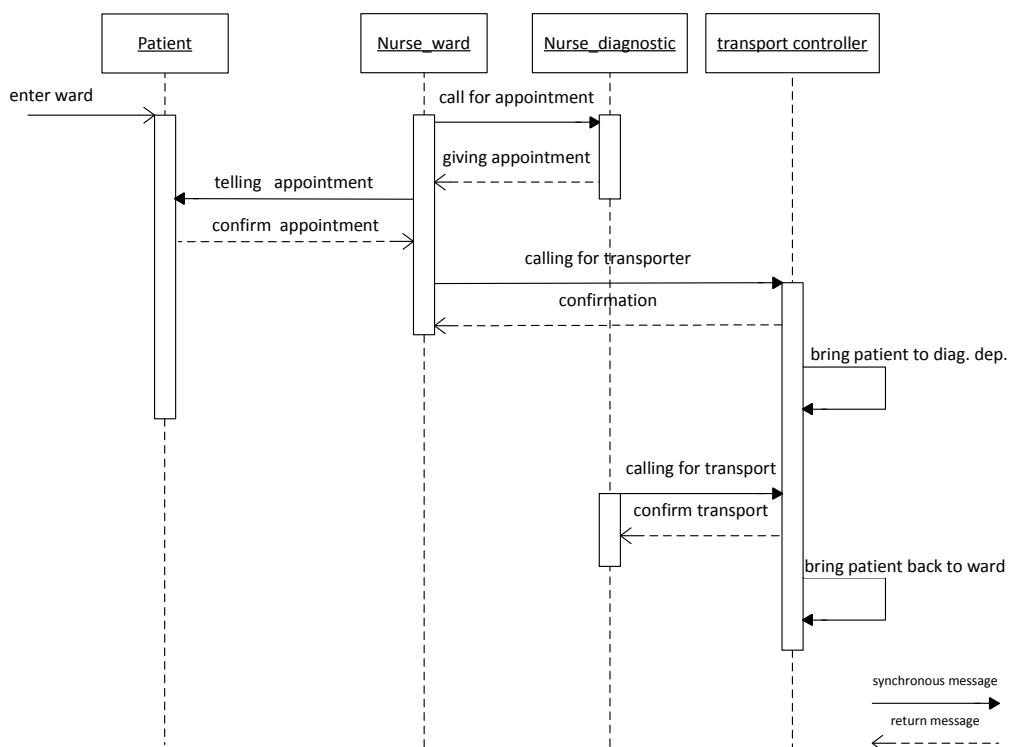


Figure 1.1.: Sequence diagram for scenario 1

Statechart for patient:

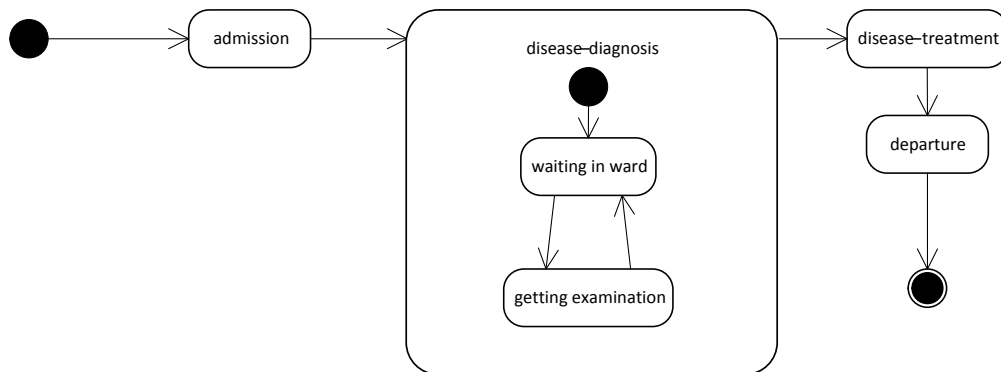


Figure 1.2.: Statediagram for patient

Statechart for nurses (ward/diagnostic):

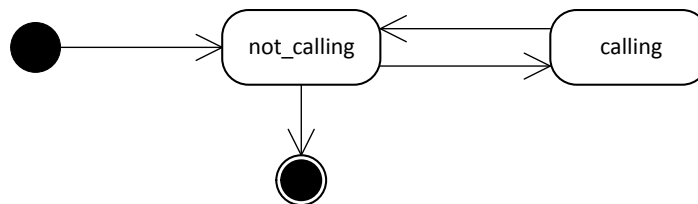


Figure 1.3.: Statediagram for nurses

Statechart for transport controller:

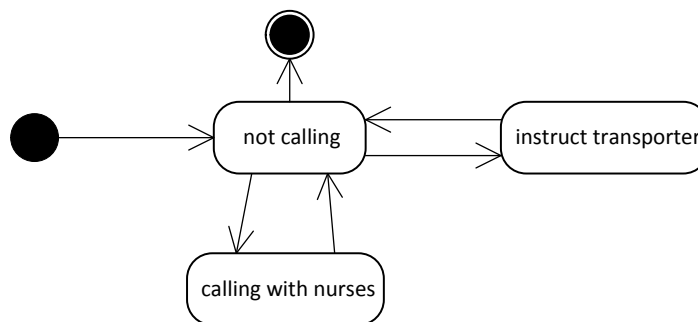


Figure 1.4.: Statediagram for transport controller

B. OP PEP

Following sequence diagram describes the second scenario:

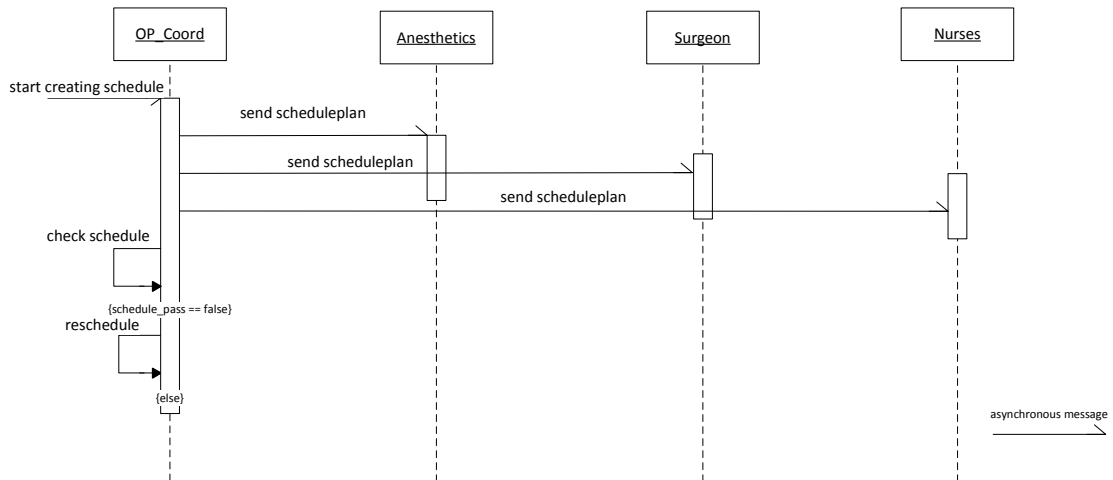


Figure 1.5.: Sequence diagram for scenario 2

Statechart for OP coordinator:

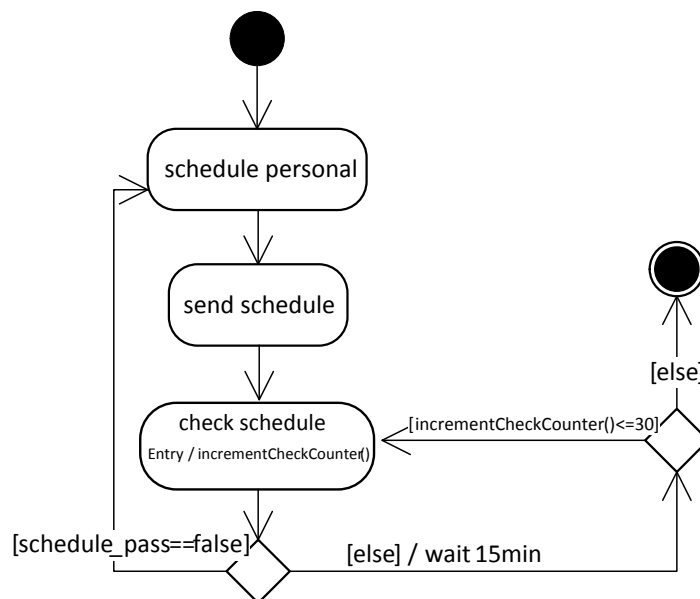


Figure 1.6.: Statediagram for coordinator

Statechart for surgeon:

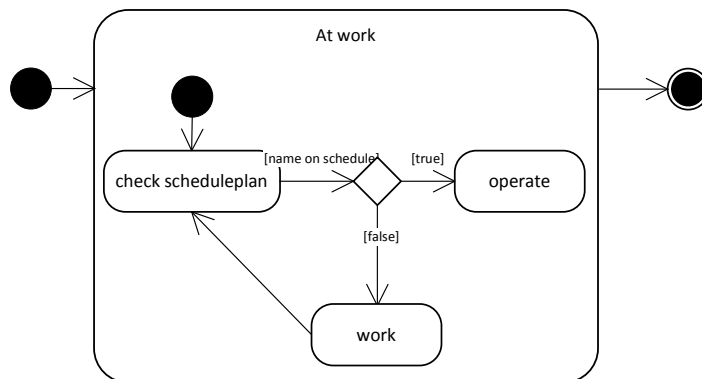


Figure 1.7.: Statediagram for surgeon

Statechart for anesthetist:

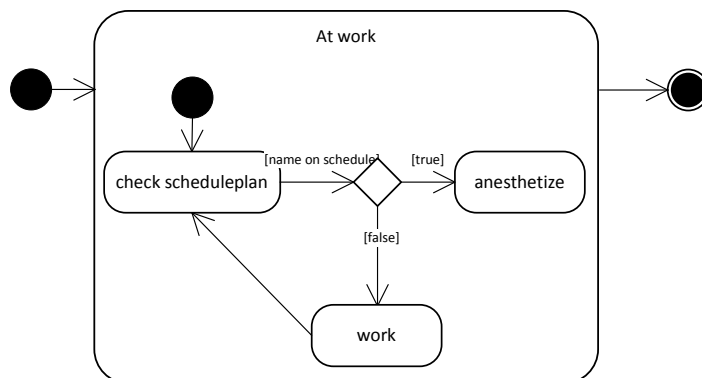


Figure 1.8.: Statediagram for anesthetist

Statechart for nurse:

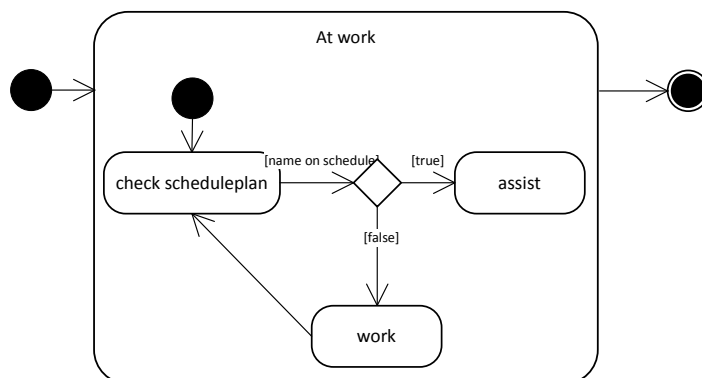


Figure 1.9.: Statediagram for nurse

Whole statechart for patient:

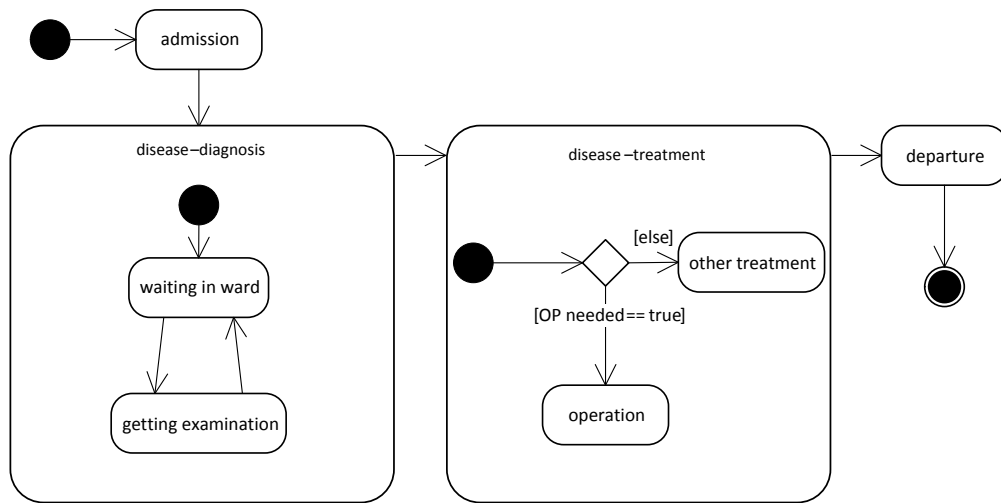


Figure 1.10.: Statediagram for patient