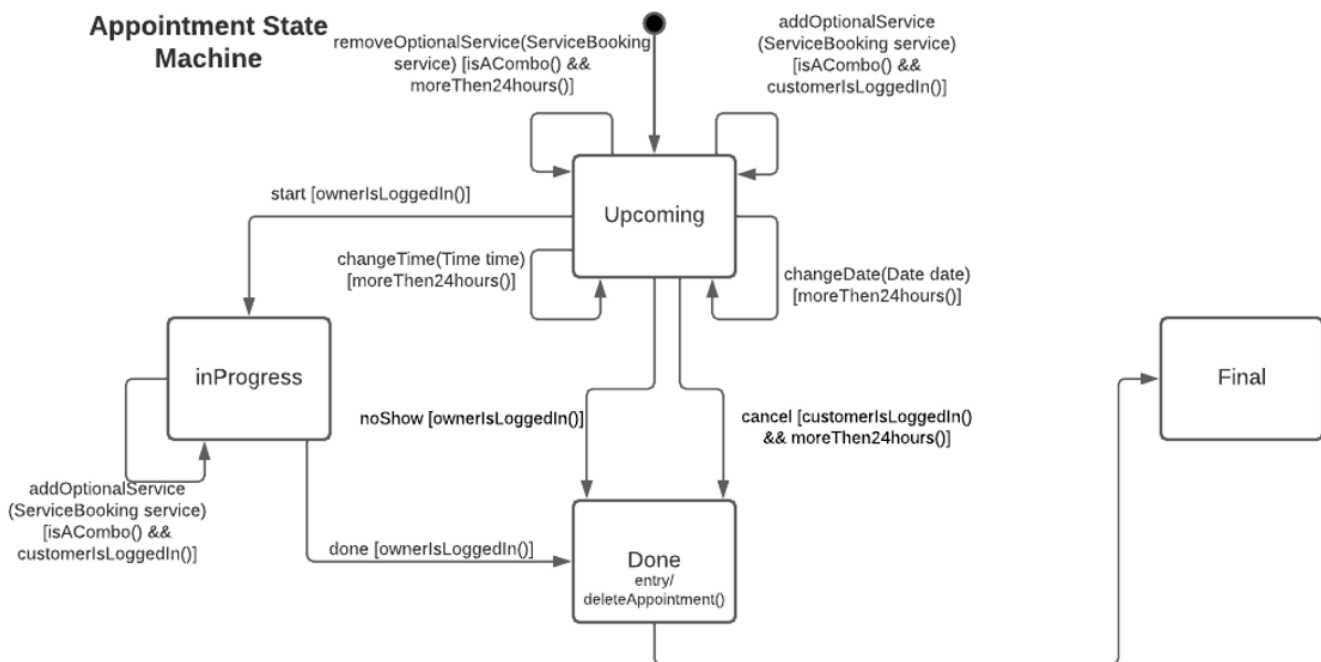# Project: Deliverable 3 Report

Team 8

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State machine diagram for Appointment.java :

The state machine has 3 different state and one default final state implemented by Umple from the generated code:

- Upcoming: When the appointment is booked and upcoming in the future.
- inProgress: When the appointment is currently in progress.
- Done: When the appointment is over either by completion, cancellation or deletion by owner. This states automatically deletes the appointment from the system.

Upcoming to inProgress: start[ownerIsLoggedIn()]

This transition is triggered when the owner is logged in and starts the appointment. This makes the appointment to be in a inProgress state.

inProgress to Done: done[ownerIsLoggedIn]

This transition is triggered when the owner is logged in and decides that the appointment is done. This makes the appointment to be in a Done state.

Upcoming to Done: noShow[ownerIsLoggedIn]

This transition is triggered when the owner registers a no show for this appointment. This automatically adds a no show note to the customer account. This makes the appointment to be in a Done state.

Upcoming to Done: cancel[customerIsLoggedIn() && moreThen24hours()]

This transition is triggered when the customer cancels his appointment. This needs to happen at least 24 hours in advance, otherwise it will not work. This makes the appointment to be in a Done state.

Upcoming to Upcoming: addOptionalServiceBooking(ServiceBooking service)[isACombo() && customerIsLoggedIn()]

This transition is triggered when the customer adds an optional service to his Service Combo 24 hours before to the appointment. For this to happen, it needs to be 24 hours prior to the appointment and the appointment must be for a service combo. The appointment stays in the Upcoming state.

Upcoming to Upcoming: removeOptionalService(ServiceBooking service)[isACombo() && moreThen24hours()]

This transition is triggered when the customer removes an optional service to his Service Combo 24 hours before his appointment. For this to happen, it needs to be 24 hours prior to the appointment and the appointment must be for a service combo. The appointment stays in the Upcoming state.

Upcoming to Upcoming: changeTime(Time time)[moreThen24Hours()]

This transition is triggered when the customer changes the time for his appointment. This can be only for the starting time of each services in the appointment. For this to happen, it needs to be 24 hours prior to the appointment. The appointment stays in the Upcoming state.

Upcoming to Upcoming: changeDate(Date date)[moreThen24Hours()]

This transition is triggered when the customer changes the date for his appointment. This can be only for the date of the appointment. For this to happen, it needs to be 24 hours prior to the appointment. The appointment stays in the Upcoming state.

inProgress to inProgress: addOptionalService(ServiceBooking service)[isACombo() && customerIsLoggedIn()]

This transition is triggered when the customer adds optional services to his appointment while the appointment is inProgress. For this to happen, the appointment needs to be for a service combo. The appointment stays in the inProgress state.