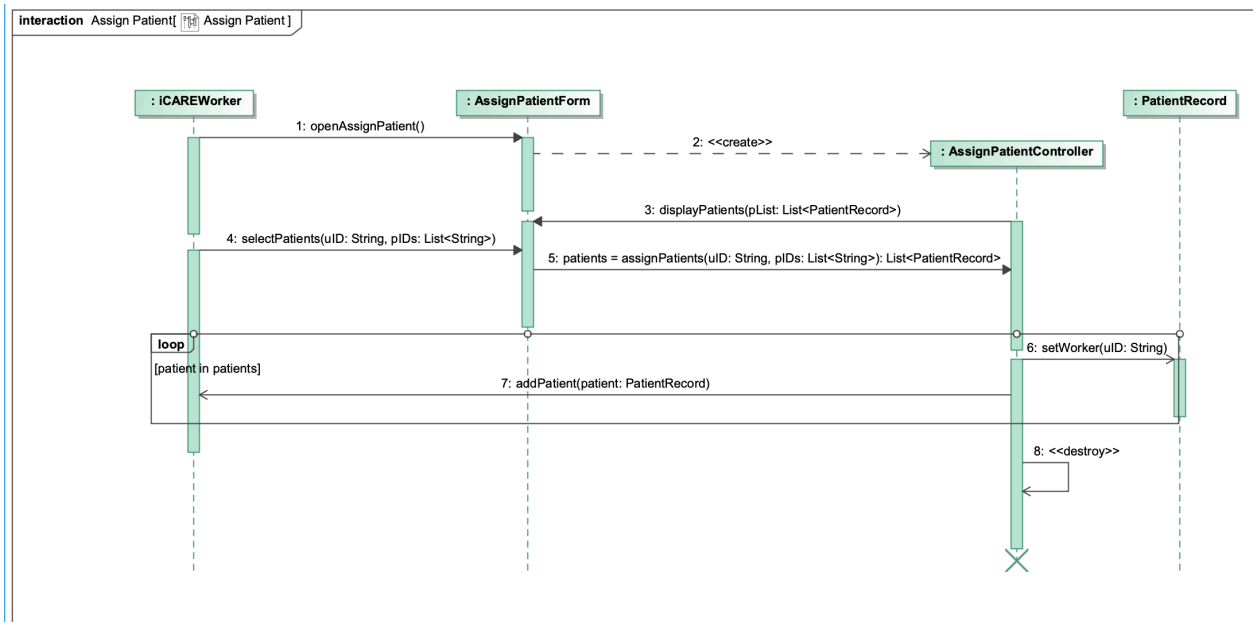
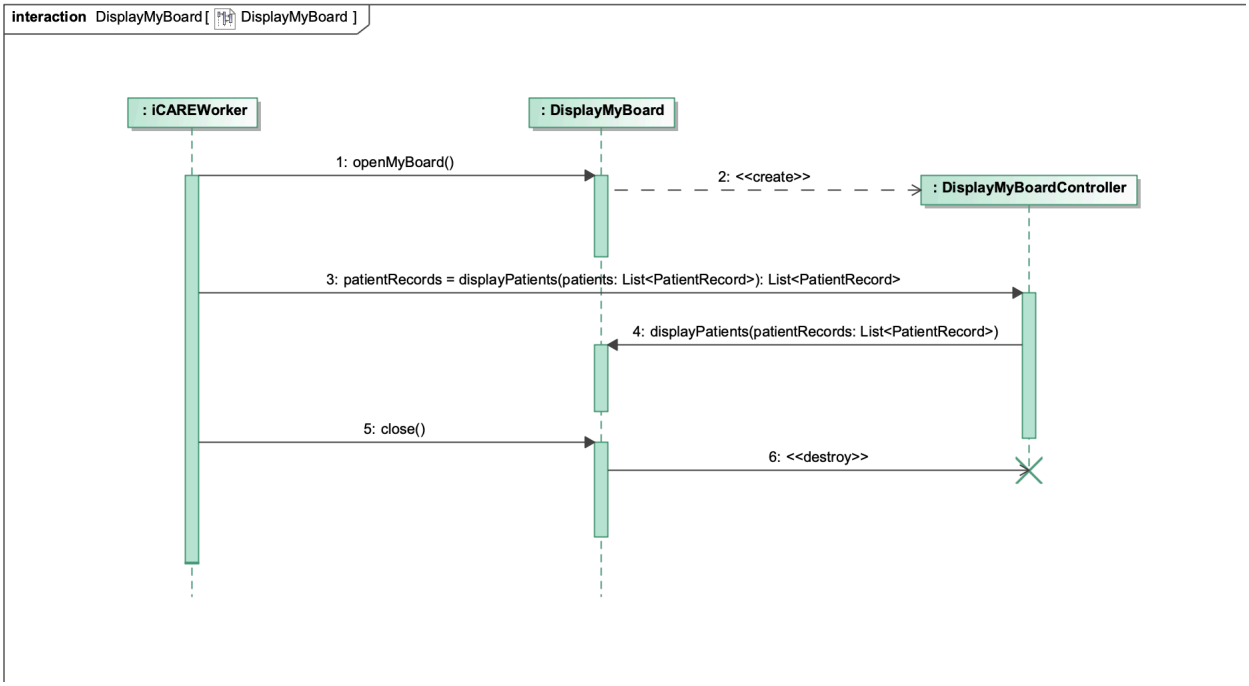
Potential iCARE Sequence Diagrams

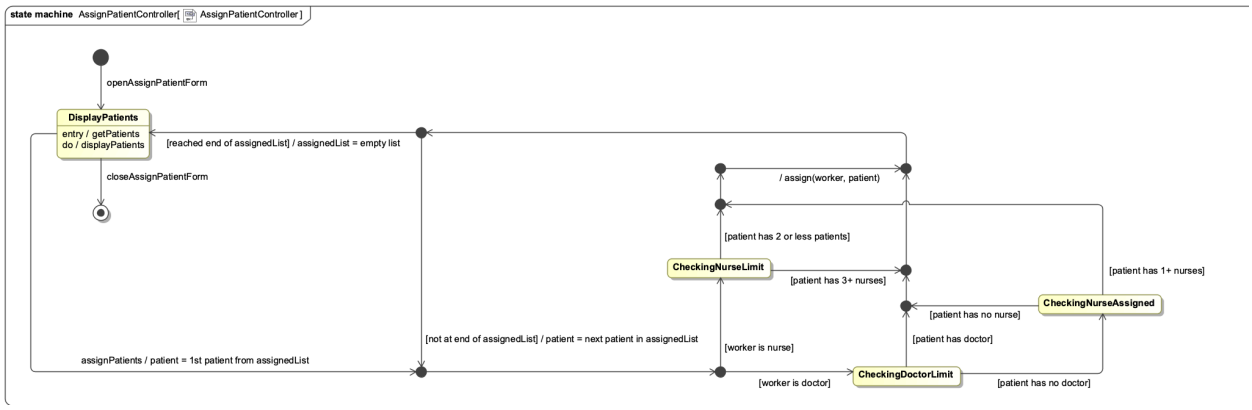




Class name	Receiving Message (operation)	Brief Description
AssignPatientForm	openAssignPatient()	This operation puts the AssignPatientForm into view, and occurs when the iCAREWorker activates the assign patient function.
AssignPatientControllor	<<create>>	When the AssignPatientForm is created, it creates a controller for the view.
AssignPatientController	displayPatients(pList)	This operation finds all the patients admitted at the iCARE location, and sends a list of the patient records (pList) to the form for viewing.
AssignPatientForm	selectPatient(uID, pID)	This operation happens when the user selects a patient from the list of patients. This sends the userID of the worker, and a list of the IDs of the patients that should be assigned.
AssignPatientController	patients = assignPatients(uID: String, pIDs: List<String>): List<PatientRecords>	This operation happens automatically once the assigned patients are selected. The form sends the list of patientIDs to the controller, as well as the user ID of the assignee. The operation returns the list of patientIDs passed, and stores it as patients.
PatientRecord	setWorker(uID: String)	This operation occurs for every patient assigned by the worker, and adds the User ID of the worker to the getTreatmentBy list in the PatientRecord.
iCAREWorker	addPatient(patient: PatientRecord)	This operation occurs for every patient assigned by the worker, and adds the patient record to the patientsList in the Worker's record.
AssignPatientController	<<destroy>>	Once the patients are assigned, destroy the controller.

Class name	Receiving Message (operation)	Brief Description
DisplayMyBoard	openMyBoard()	This occurs when the worker chooses to display the MyBoard and see their assigned patients.
DisplayMyBoardController	<<create>>	When the MyBoard is displayed, a DisplayMyBoardController is created.

DisplayMyBoardController	patientRecords = displayPatients(patients: List<PatientRecord>): List<PatientRecord>	This sends the patientRecords from the patientsList property of the iCAREWorker to the controller.
DisplayMyBoard	displayPatients(patientRecords: List<PatientRecord>)	This sends the patientRecords to the MyBoard to display the appropriate information.
DisplayMyBoard	close()	This occurs when the worker closes the DisplayMyBoard, and closes the window.
DisplayMyBoardController	<<destroy>>	The DisplayMyBoard destroys the controller once the window is closed.



Potential iCARE State Diagram

The AssignPatientController is the most involved entity for the AssignPatients use case. It handles the actual patient assignment, as well as displaying the patients currently available for assignment (i.e. present at the iCARE facility).

When entering the Assign Patient form, the controller enters the display patient state, gets the available patients, and displays them. When the worker clicks the assign button and officially assigns a collection of patients to themselves, the controller iterates through each of the assigned patients in a pseudostate and navigates through three possible cases. If the worker is a nurse, the system goes to the CheckingNurseLimit state. If the patient has 3 or more nurses, it is skipped.

If the worker is a doctor, the controller first goes to the CheckingDoctorLimit state. If the patient has a doctor already, the patient is skipped. If they do not have a doctor, the controller goes to the CheckingNurseAssigned state. If the patient has at least one nurse, the patient is assigned. If the patient has no nurses, the patient is skipped.

At the end of each patient's evaluation, the controller either evaluates the next assigned patient or, if there are no patients left to assign, returns to the DisplayPatients state.