Doctor Finder

(Project Part 2)

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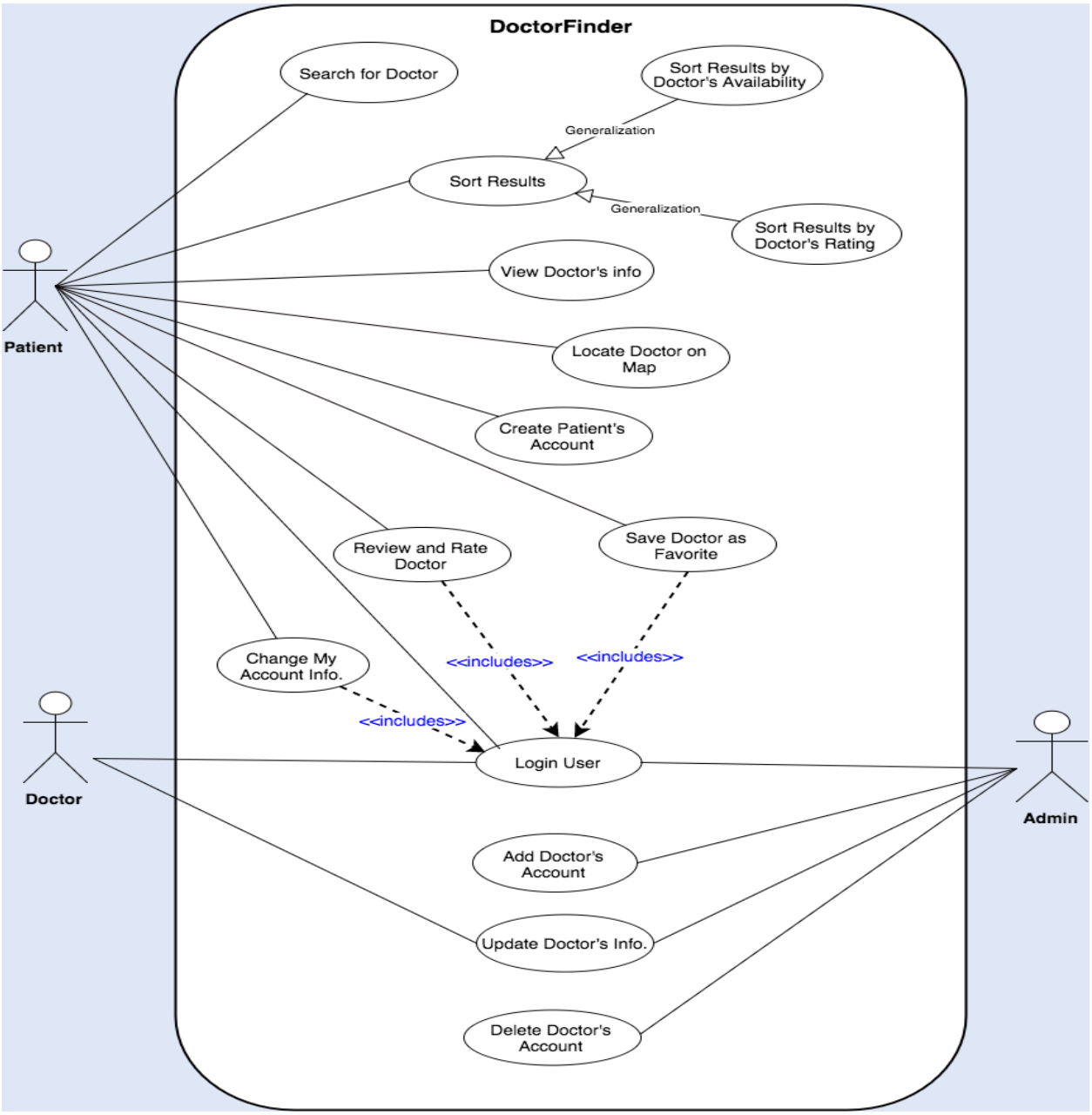
Our system has **14** different tasks and **three** types of users: Patient-Doctor-Admin

This report will be mainly focused on the "Search for Doctor " use case

Use Case Diagram



Related Use Case Documents

Use Case ID:	UC-07
Use Case Name:	Search for Doctor
Description:	Patient can search for a doctor based on doctor's specialty, location, and insurance accepted.

Actors:	Patient		
Pre-conditions:	Patient wants to search for a doctor based on specific search criteria either or not he has an account. Patient's current location is chosen as the default location.		
Post-conditions:	A list of doctors has been displayed based on the provided search criteria.		
Frequency of Use:	Frequently throughout the day by patients		
Flow of Events:		**Actor Action**	**System Response**
	1	Patient selects the required specialty.	
	2	Patient chooses his current location.	DoctorFinder fills in location field (state, city, zip code) automatically.
	3	Patient selects his type of insurance.	
	4	Patient submits his selections.	DoctorFinder displays a list of doctors based on the provided search criteria.
Variations:	2. The Patient enters a specific location (state, city or zip code).		
Notes and Issues:			
Developer Notes:			

Use Case ID:	UC-08
Use Case Name:	Sort Results
Description:	Patient can get a sorted list of doctors.

Actors:	Patient		
Pre-conditions:	Patient has submitted his search criteria and got a list of doctors.		
Post-conditions:	Patient gets a sorted list of doctors.		
Frequency of Use:	Frequently throughout the day by patients.		
Flow of Events:		**Actor Action**	**System Response**
	1	Patient submits his search criteria.	DoctorFinder displays a sorted list of doctors based on the their rating (highest rating first) as the default sort option.
	2	Patient can choose to sort the results by rating or doctor's availability.	
Variations:			
Notes and Issues:			
Developer Notes:			

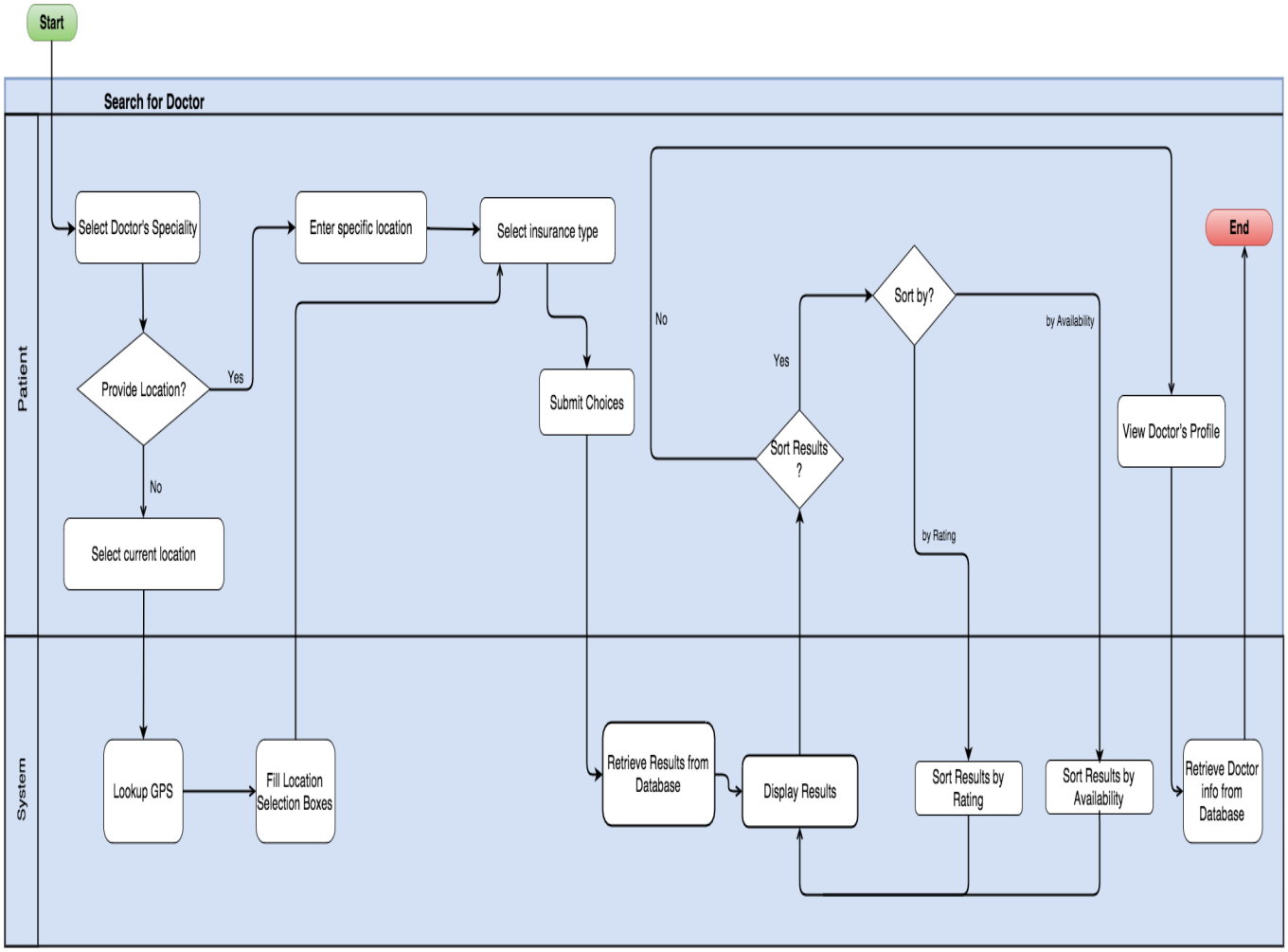
Use Case ID:	UC-09
Use Case Name:	Sort Results by Doctor's Rating
Description:	Patient can sort the searching results based on doctor's rating.

Actors:	Patient		
Pre-conditions:	Patient has submitted his search criteria and got a list of doctors.		
Post-conditions:	Patient gets a sorted list of doctors based on doctor's rating.		
Frequency of Use:	Frequently throughout the day by patients.		
Flow of Events:		**Actor Action**	**System Response**
	1	Patient activates the "Sort by doctors' rating" function.	DoctorFinder sorts doctors by their rating.
	2		DoctorFinder displays a sorted list of doctors based on their rating (highest rating first).
Variations:			
Notes and Issues:			
Developer Notes:			

Use Case ID:	UC-10
Use Case Name:	Sort Results by Doctor's Availability
Description:	Patient can sort the searching results based on doctors' availability.

Actors:	Patient		
Pre-conditions:	Patient has submitted his search criteria and got a list of doctors.		
Post-conditions:	Patient gets a sorted list of doctors based on next availability.		
Frequency of Use:	Frequently throughout the day by patients.		
Flow of Events:		**Actor Action**	**System Response**
	1	Patient activates the "Sort by doctor's availability" function.	DoctorFinder sorts doctors by their next availability.
	2		DoctorFinder displays a sorted list of doctors based on their availability (closest availability first).
Variations:			
Notes and Issues:			
Developer Notes:			

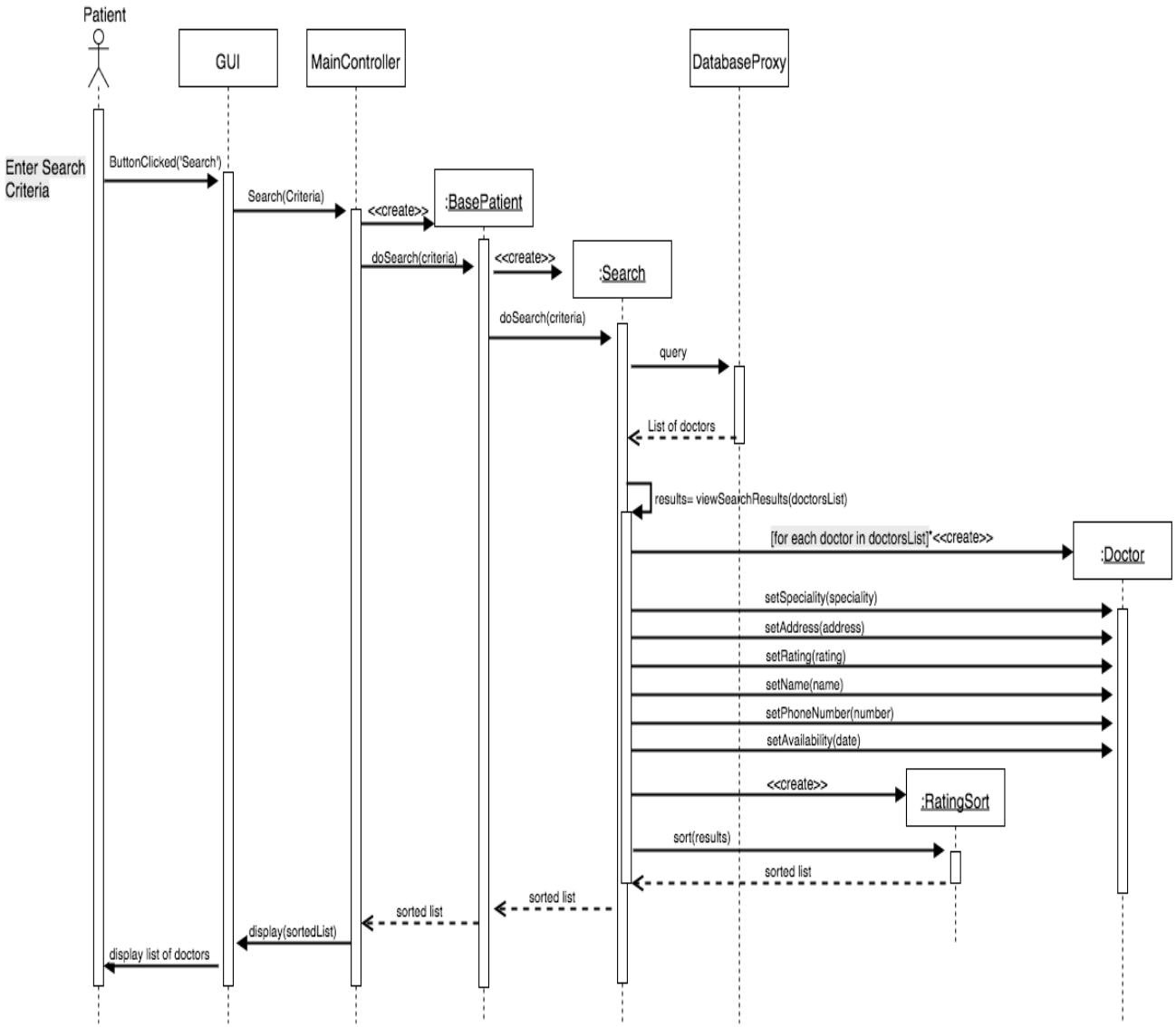
Activity Diagram



User Interactions

Search for Doctor:

When the patient has entered his search criteria, which are doctor's specialty, location, and insurance and clicked the "Search" button, the system will search the database to find all doctors associated with the selected criteria. The system will then return a list of matched doctors. Then from the returned list, the system will create a list of Doctor objects and set them with the required information that should be presented in the search results. After that, the system will sort this list by doctor's rating as the default sort option for our system. Finally, the screen will be redrawn to reflect the sorted search result to the patient.



Class Diagram