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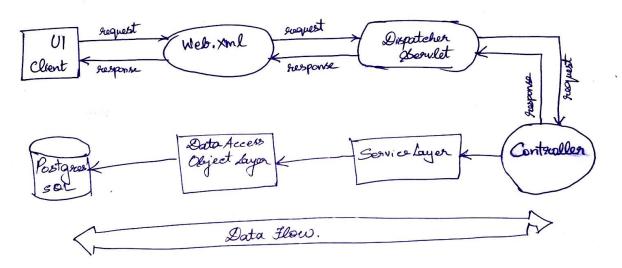
#### **Problem Statement**

Implement a study scheduling application in which procedures for treatment of patients performed by doctors are planned.

The tasks to be covered as follows:

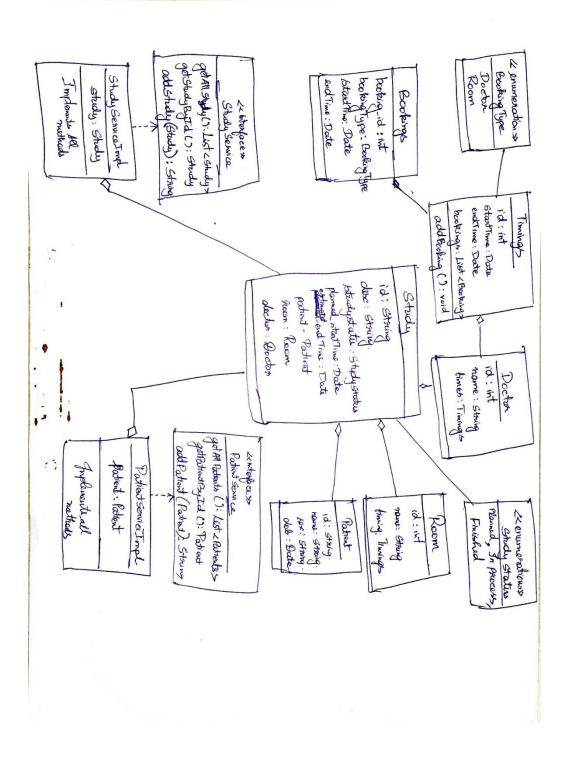
- 1. Adding Patient
- 2. Scheduling procedure
- 3. Updating status of procedure

### High Level Overview



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### Low Level Design



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### Assumptions made for this case study:

- 1. Connection to JPA has some problem, Thereby the data is hardcoded and available for the application during the runtime.
- 2. Start Date and time are considered as Integers only. (for simplicity)
- 3. Data for doctor and rooms are hardcoded. For this demo, I have considered 2 Doctors (Shan and Michael and 2 Rooms (ECG and CTSCAN). (Please check the diagram 3)
- 4. UI has to be reloaded to avoid some glitches

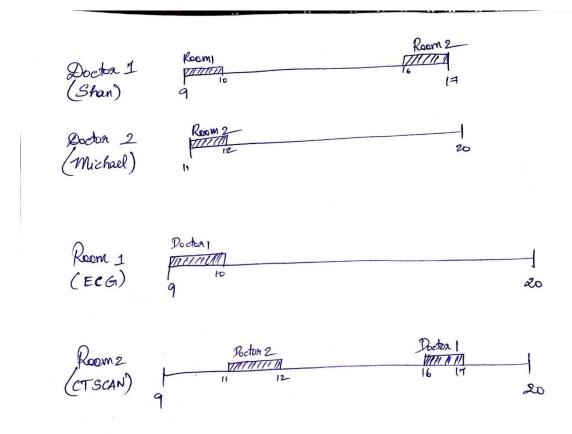
### Technologies Used

- 1. Backend
  - a. JAVA
  - b. JAVA EE
  - c. Spring MVC
  - d. JPA (Hibernate)
  - e. Maven
  - f. Git
  - g. Junit
  - h. Postgres SQL
- 2. Frontend
  - a. HTML
  - b. CSS
  - c. JS
  - d. JQuery

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### Sample Dataset:

Hardcoded Doctor and Rooms booked:



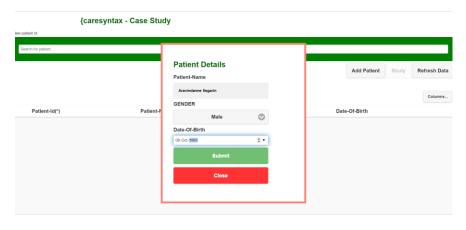
## Sample Input/Ouput

 $Start\_time = 10 ; End\_time = 11; Room = 2 => Output = Doctor 1$ 

 $Start\_time = 11$ ;  $End\_time = 12$ ; Room = 1 => Output = Doctor 1

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#### Task One: Adding Patient



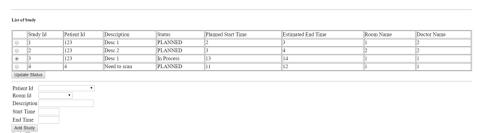
{caresyntax - Case Study



### Task Two: Adding Procedure

123 123 123 4	Desc 1 Desc 2 Desc 1 Need to scan	PLANNED PLANNED PLANNED PLANNED	2 3 13 11	3 4 14 12	1   2   1	2  2  1
	Desc 1	PLANNED	13		1	1
123					1	1
4	Need to scan	PLANNED	11	12		
					1	1
•						
•						
	•					

### Task Three: Updating Status



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### Source Code:

https://github.com/aravindanne/caresyntax\_case\_study.git

## Summary:

The application is working as per the design and as per the requirements defined with the above-mentioned technologies. The end to end application scenarios are covered.