New Era University
College of Computer Studies
Department of Computer Science

In Partial Fulfillment of the Requirements in
CS321L Software Engineering Laboratory

DOCTAL: A web based Doctor's Portal

Submitted by:

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Class Schedule:
Monday 10:00 AM – 1:00 PM

Professor Yumie M. Pasiol
Instructor

INTRODUCTION

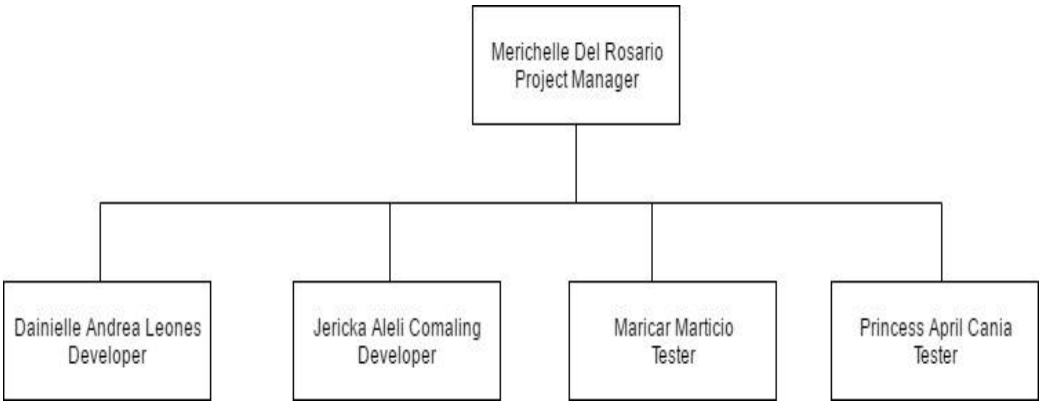
In a world constantly growing and expanding, having a health care system to the field of computer is a good approach for hospitals. Technology is constantly improving so a paperless medical record system is more practical and sensible instead of rummaging through papers and losing them or misplacing those important documents. Computers provide an easier way to look up for a patient's information if a doctor asks for it. Computers allow the patient to grasp a visual perspective of their health. Health care systems could create more advanced way of recording and understanding a patient's situation. Without computers for the doctor and patient communication, all transactions and interaction must be done through telephone or by the office. Having the health care system will allow the doctor and the patient to stay in contact more often through communication on technology.

This study proposes on having an efficient doctor-patient portal, wherein patients can book a reservation or make an appointment through doctors online or with the presence of the internet which will both benefit the doctor and the patient.

COMPANY PROFILE

The group Undecided XXVII was formed for the course CS312L (Software Engineering Laboratory). The members consist of 5 girls who have accomplished different case studies during their previous years with other teams. The group can work as a team even though they have different skills, which is an advantage because they can help each other grow and be able to finish their task.

Organizational Structure



BACKGROUND OF THE STUDY

Making an appointment to a doctor, especially in a hospital where a lot of patients are in need of care seems to be hard. There are a lot of processes that is needed to be done before you can set an appointment to your doctor.

By proposing this doctor-patient handling managing system, the doctors will lessen their work and also the patients in booking doctor appointments.

OBJECTIVES

To develop a system that will help the user/patient to know easily who the doctor in-charge is and to know immediately the other information that the patient needs to know.

The following are the specific objectives that the researchers are aiming to do:

- To help the user/patient to easily find a doctor that suits to their condition/case.
- To lessen their time going to hospital to check if there is an available doctor to check on their condition.
- To easily check the background of the doctor and the achievements they have done.

SCOPES AND LIMITATIONS

The scope of our system is that it will be able to show the medical progress of a doctor, it will also allow to search for doctors depending on their specialization and location. The user can also set for an appointment with their chosen doctor and will receive a confirmation through e-mail.

The proposed study is limited to those who have internet connection. And only 5 specializations will be used as an example and 2 doctors per specialization.

GANTT CHART

Table

Task Name	Duration	Start	Finish	Predecessors
Doctal: A Web Based Doctor Portal	33d	01/30/17	03/15/17	
Planning	9d	01/30/17	02/09/17	
Gathering of existing data	2d	01/30/17	01/31/17	
Prepare Project Proposal	5d	02/01/17	02/07/17	3
Approve Project proposal	1d	02/08/17	02/08/17	4
Task Assigning	1d	02/09/17	02/09/17	5
Requirement Analysis	6d	02/10/17	02/17/17	
System requirements and user Requirements	2d	02/10/17	02/13/17	6
Sequence and Class Diagram	3d	02/14/17	02/16/17	8
Functional and Non-functional Requirements	1d	02/17/17	02/17/17	9
Designing	5d	02/20/17	02/24/17	
Design of the User Interface	5d	02/20/17	02/24/17	10
Building	10d	02/27/17	03/10/17	
Front End Coding	10d	02/27/17	03/10/17	12
Back-End Coding				
System Testing	3d	03/13/17	03/15/17	
Fixing bugs	2d	03/13/17	03/14/17	13

Requirement Analysis	6d	02/10/17	02/17/17	
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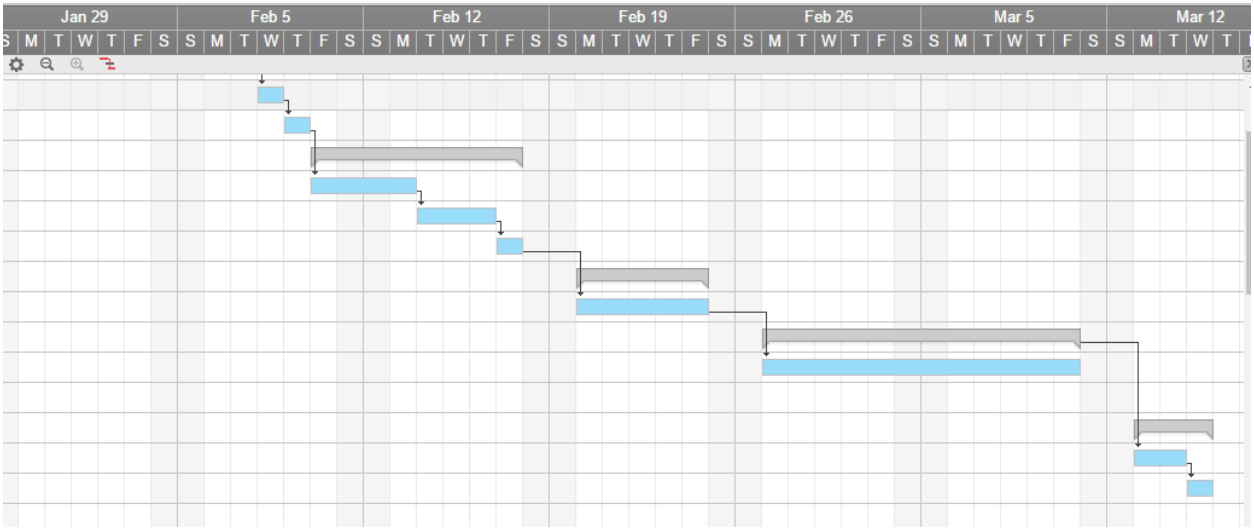
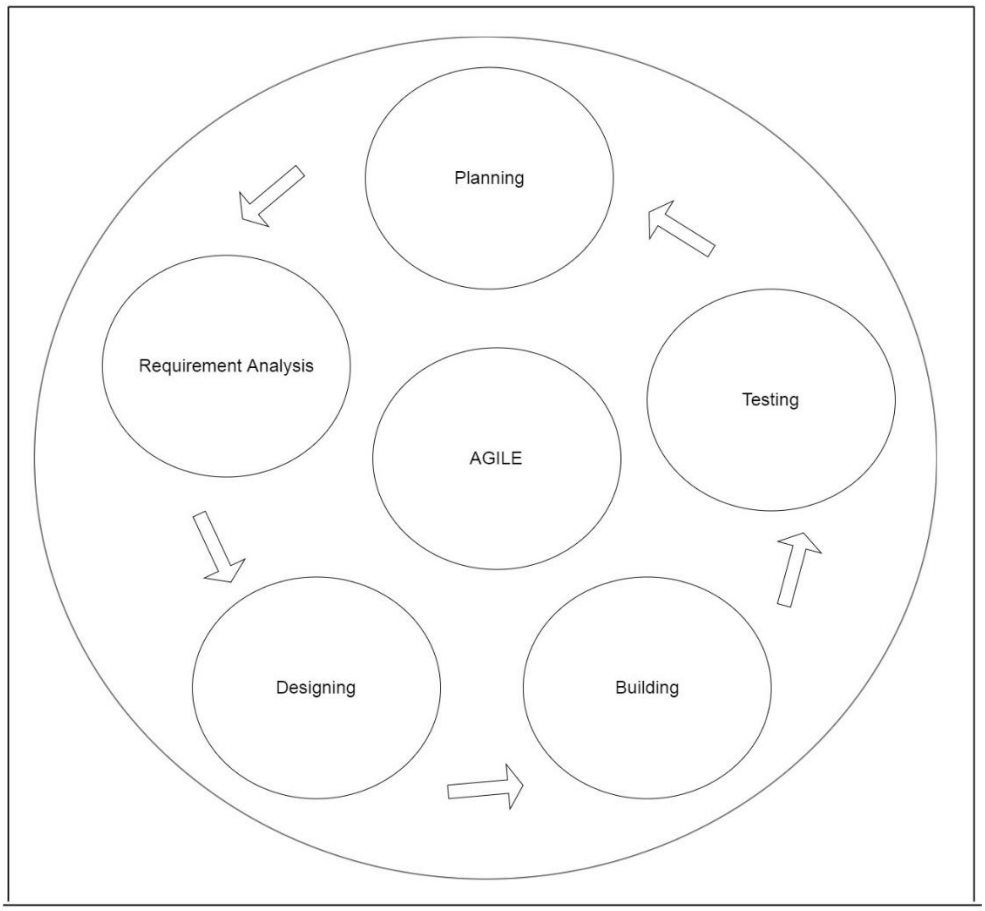
Back-End Coding				
System Testing	3d	03/13/17	03/15/17	
Fixing bugs	2d	03/13/17	03/14/17	13
System finalization	1d	03/15/17	03/15/17	17

Diagram



SDLC



The first process is planning, inside this process are the preparing the project proposal, the approval of the proposal, the gathering of data and the task assigning. The second process is requirement analysis, in this process are the system and user requirement, sequence and class diagram and the function and non-functional requirements. The third process is designing, in this process the designing of the user interface happened. The fourth process is building, the coding stage of the project. And the last process is testing, researchers will test the system and also fix the bugs.

USER REQUIREMENTS

1.0 Patient

1.1 Doctal is a web based system that will allow the patient to find a doctor that will help them in their need.
1.2 The system will provide the user to locate the nearest doctor available in the city.
1.3 The user can search a doctor by entering the needed specialist and its location or address, in order for the system to find the nearest doctor in the area.
1.4 User can also reserve the doctor's appointment only if the doctor is available on the said date.
1.5 User can also give the doctor feedback and the doctor won't know who send the feedback.

2.0 Doctors

2.1 Doctors will approve or not, the reservation of the patient.
2.2 Doctors will send the patients email of acceptation.
2.3 Doctors will receive feedback from the patient.

3.0 Admin

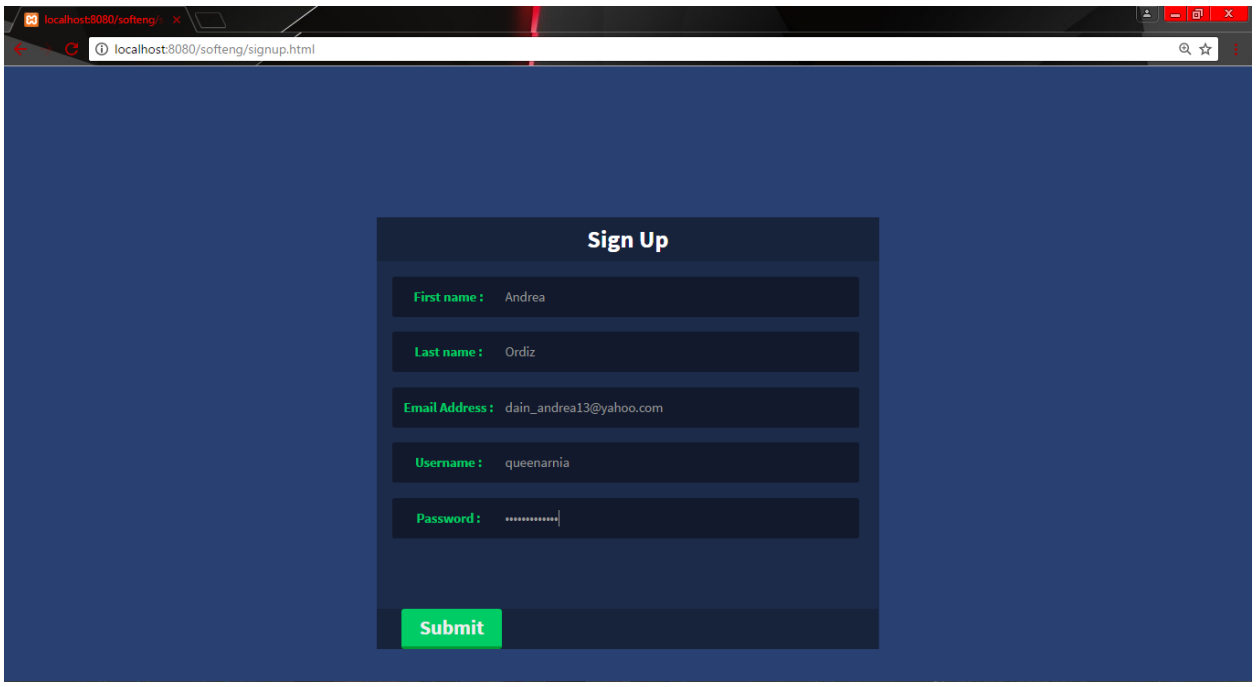
3.1 Admin is the only one who can handle the System Maintenance.
3.2 Admin can see the name of the feedback sender.
3.3 Admin can shut down the system.
3.4 The ability of the patient can be done by the admin as well.

SYSTEM REQUIREMENTS

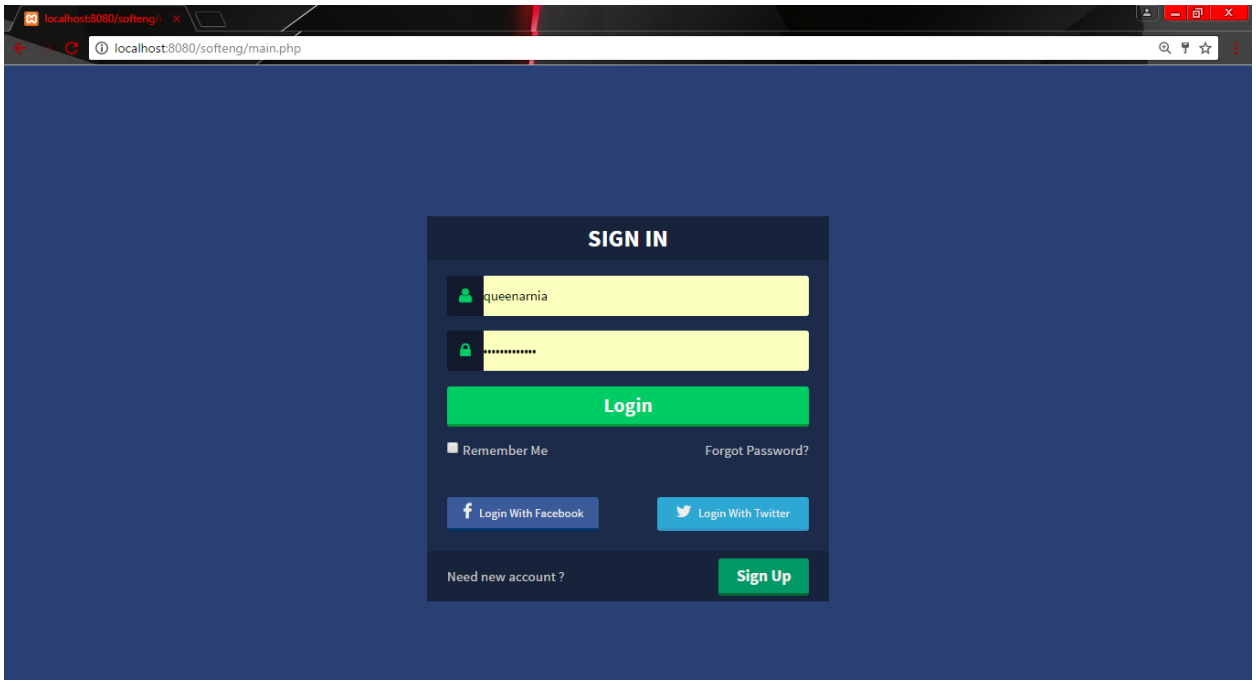
- The user must have an internet connection to have an access to the system.

UI DESIGN INTERACE

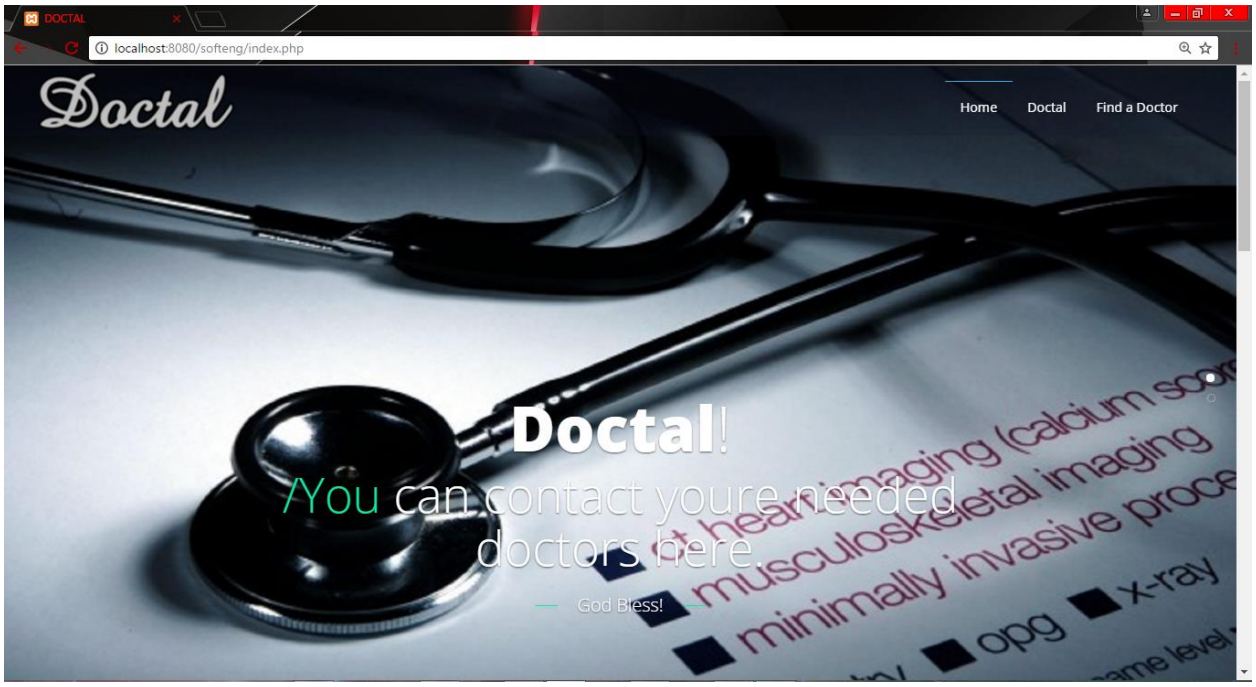
UID 1.0 Sign-Up



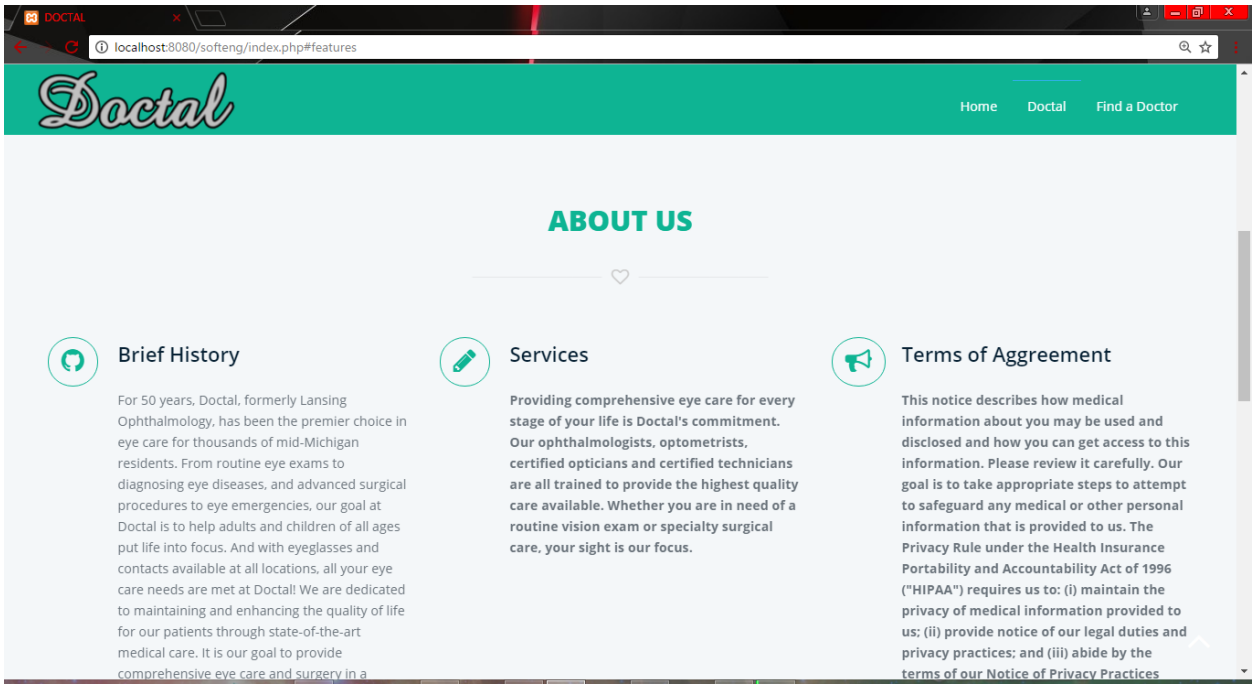
UID 2. 0 Login



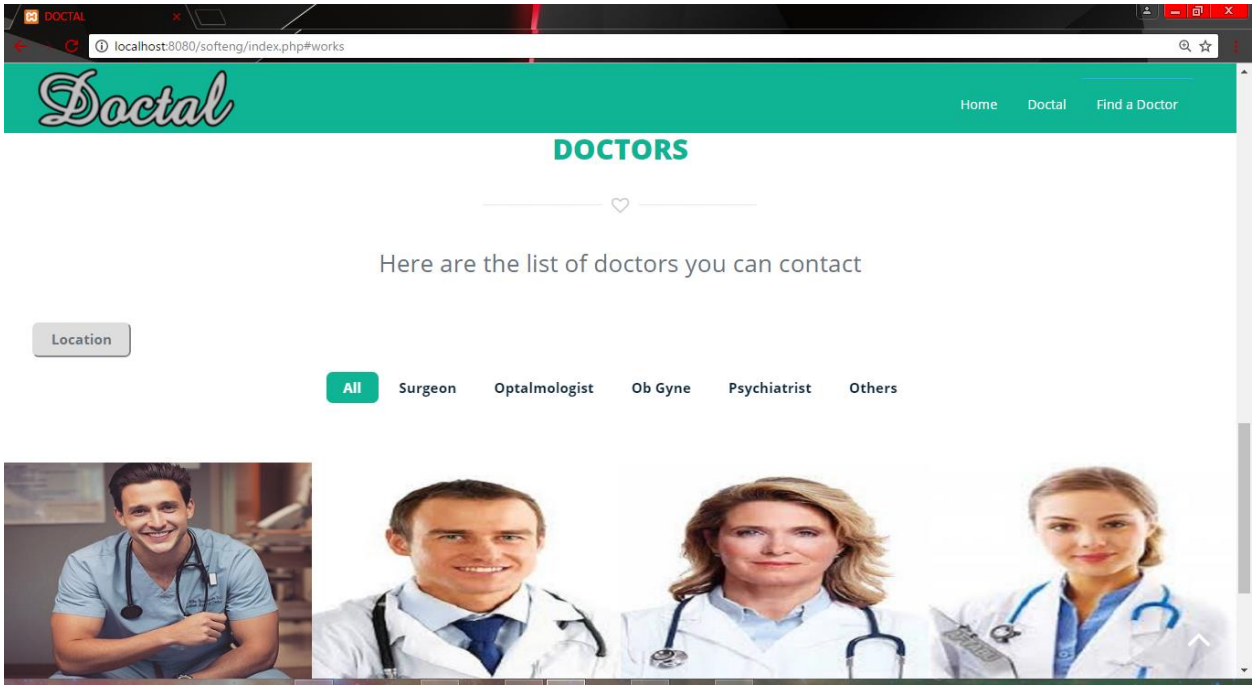
UID 3.0 Home



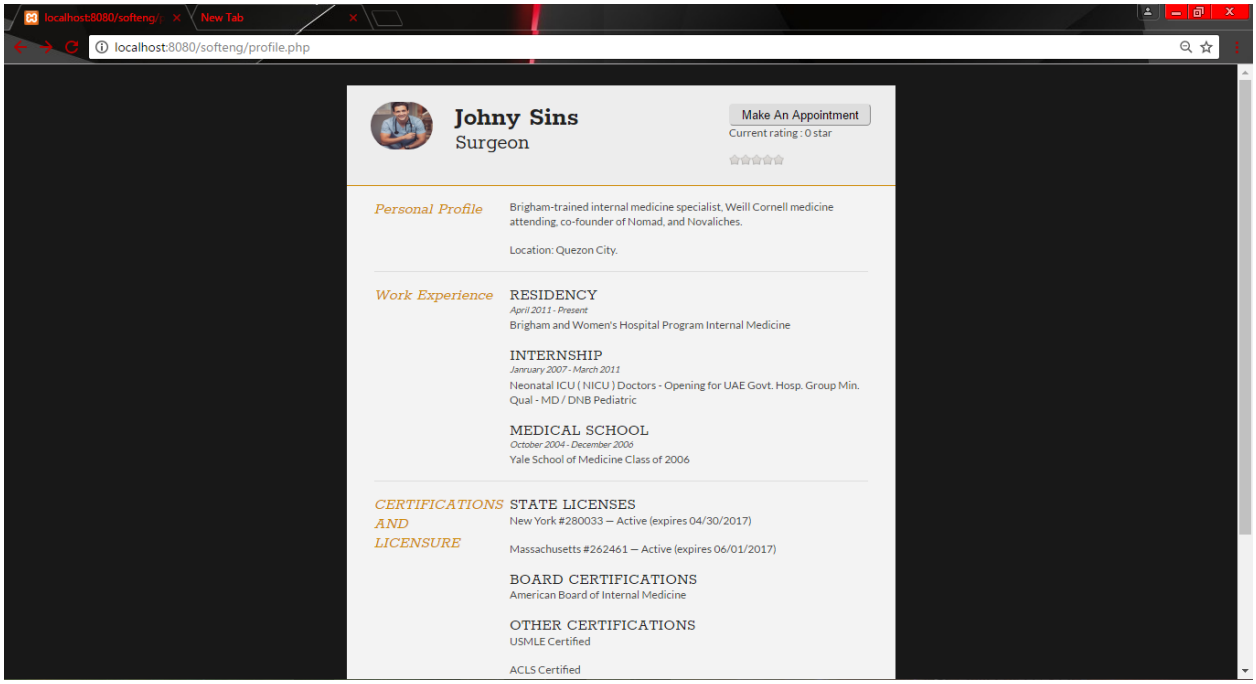
UID 4.0 Doctal



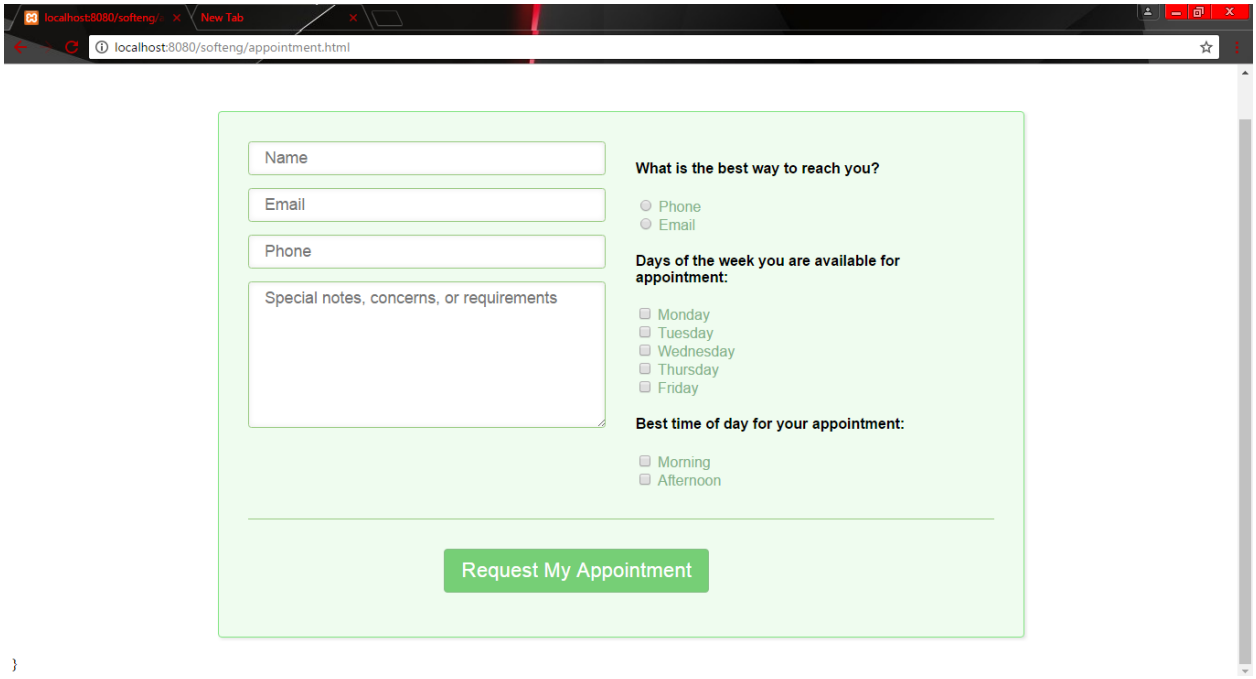
UID 5.0 Find A Doctor



UID 6.0 Doctor's Profile



UID 7.0 Make an Appointment



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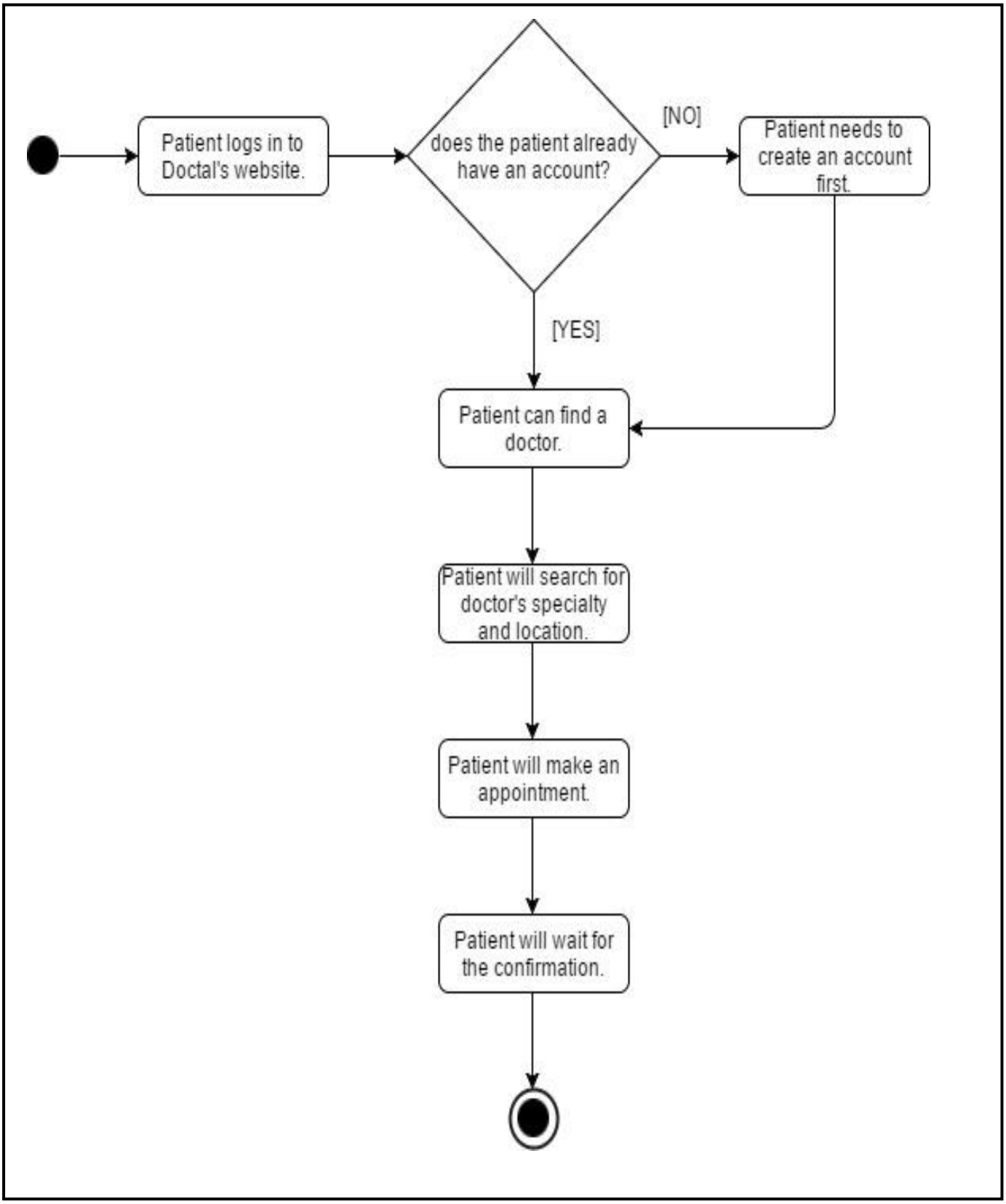
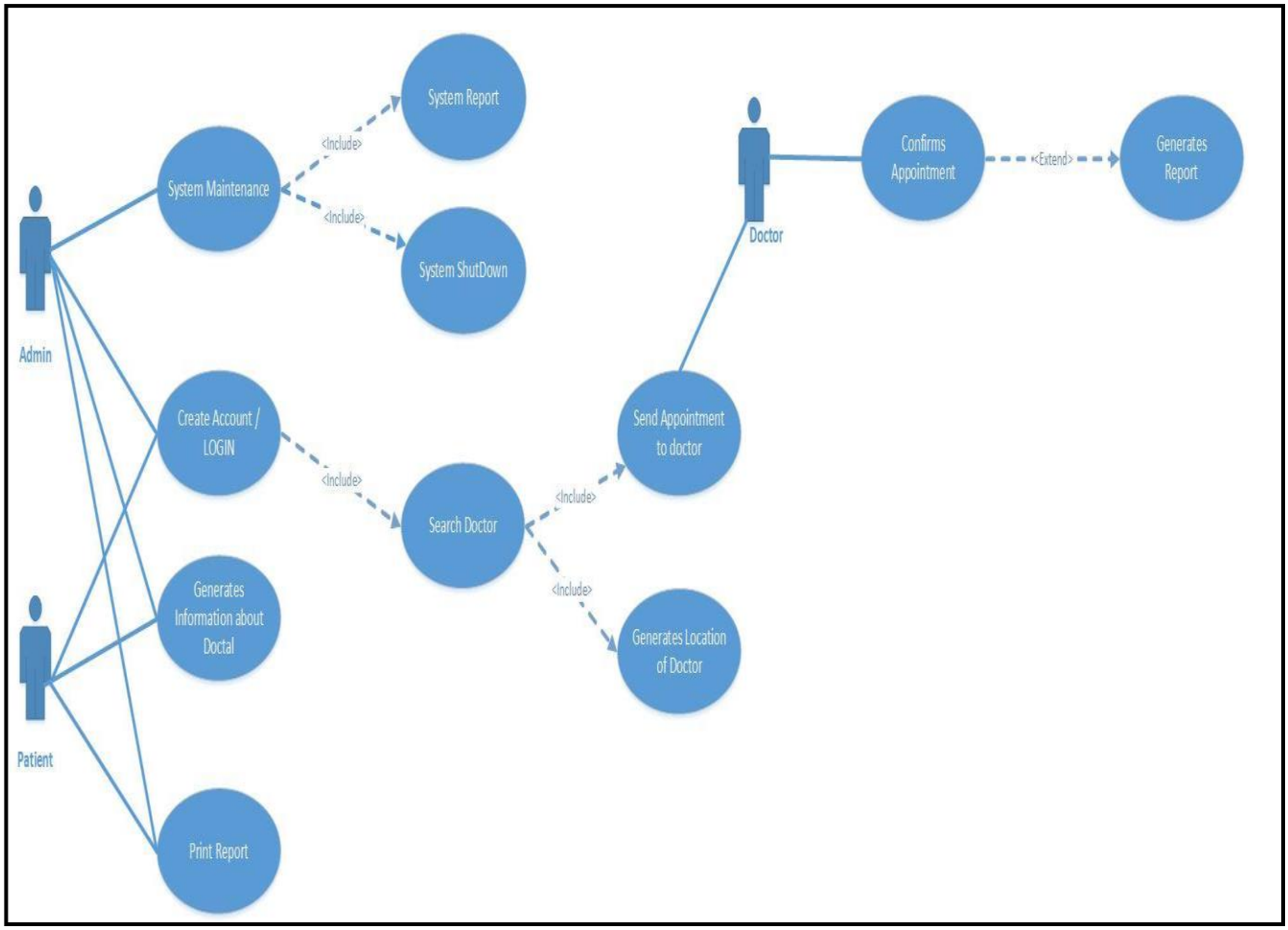
ACTIVITY DIAGRAM

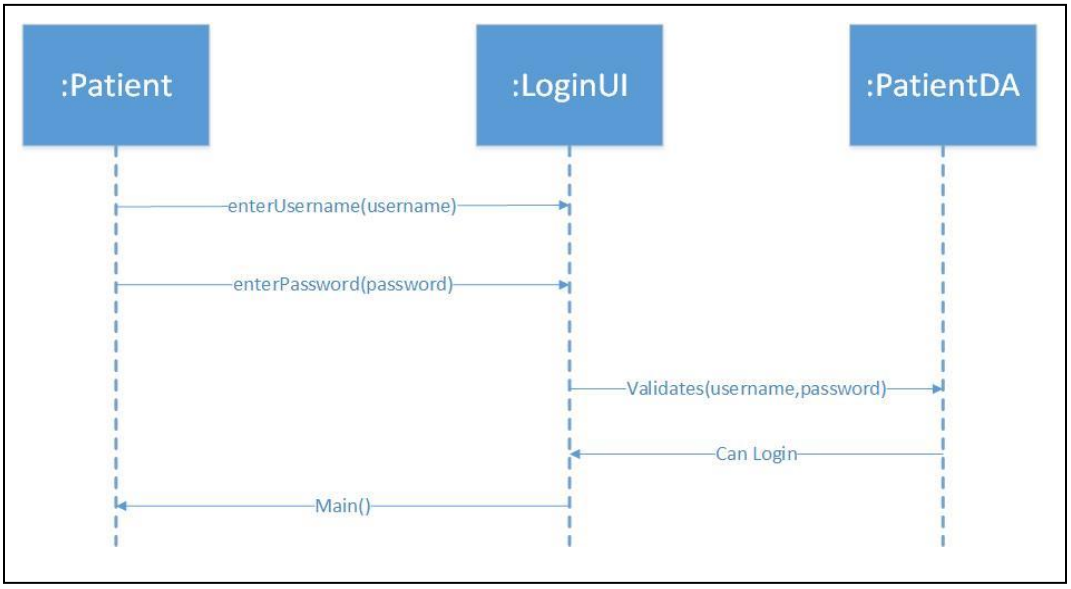


USE CASE DIAGRAM

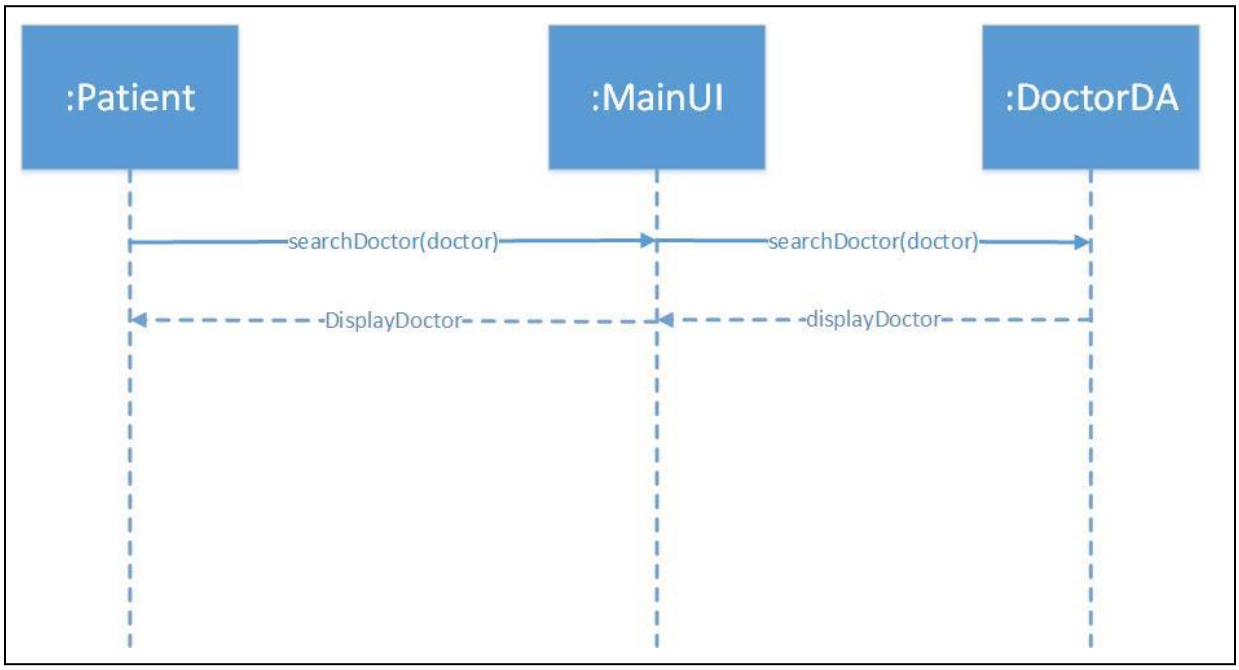


SEQUENCE DIAGRAM

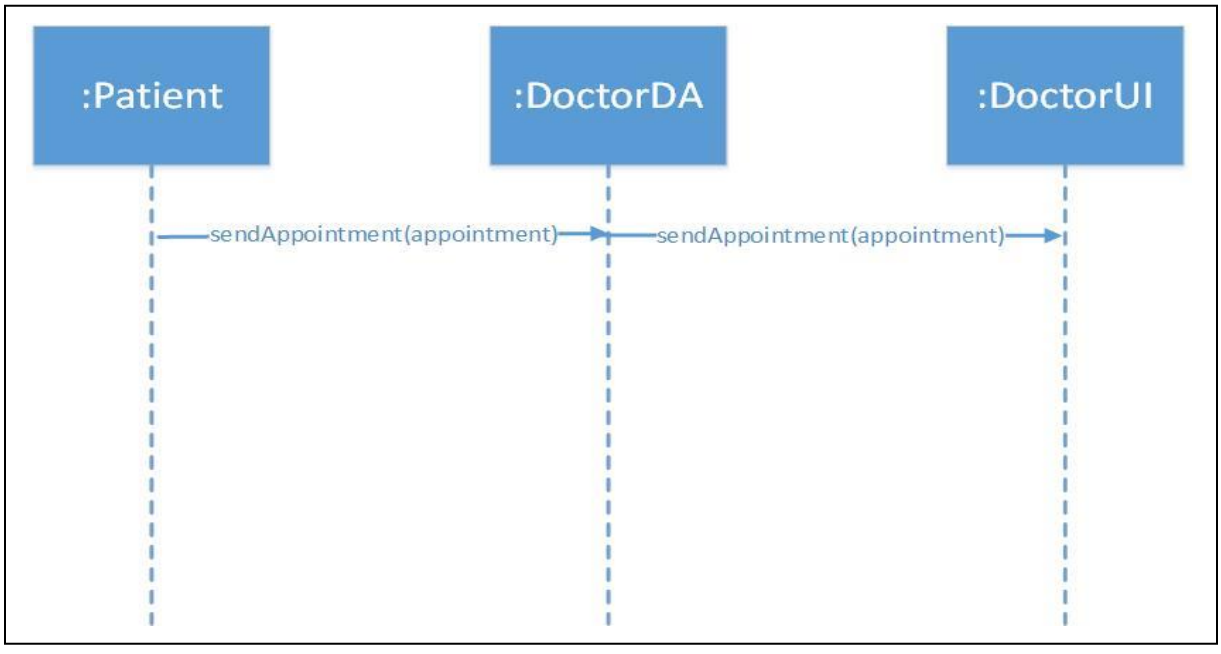
User Login



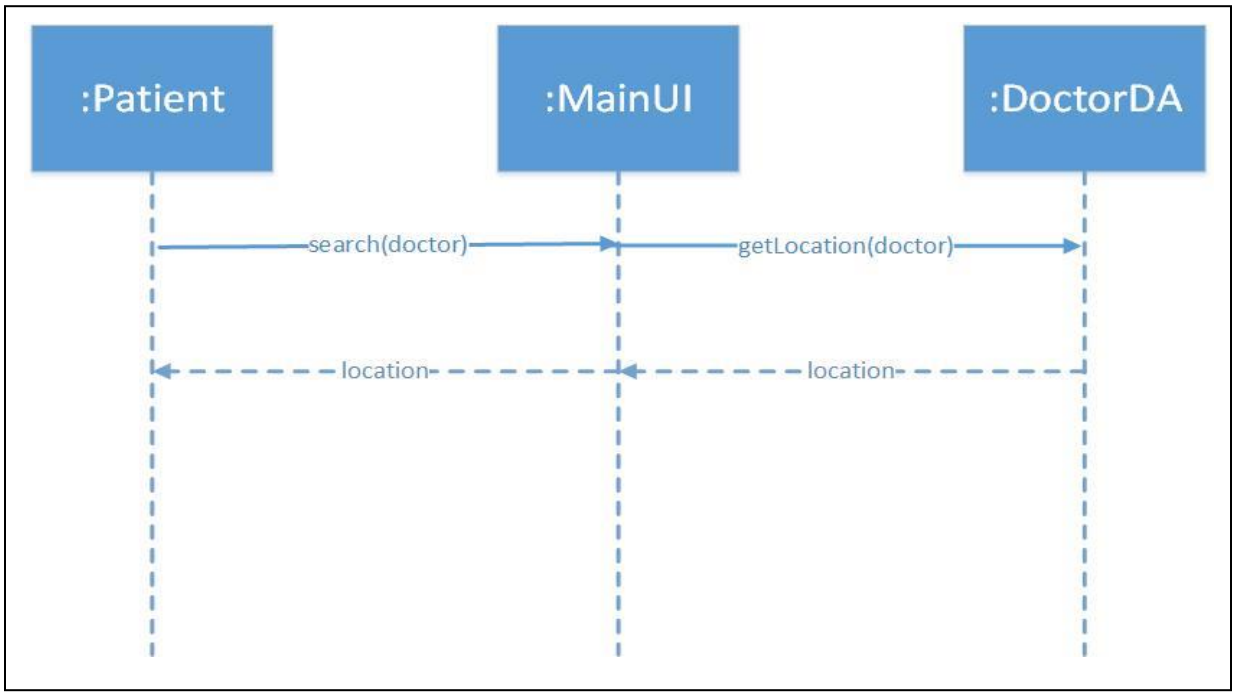
Search Doctor



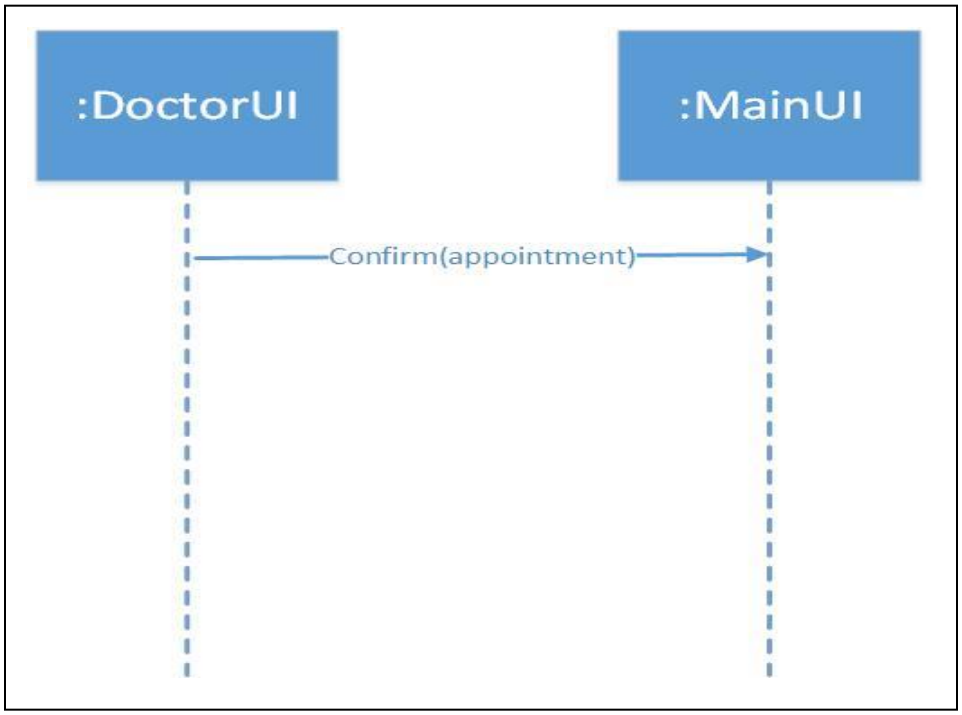
Send appointment to doctor



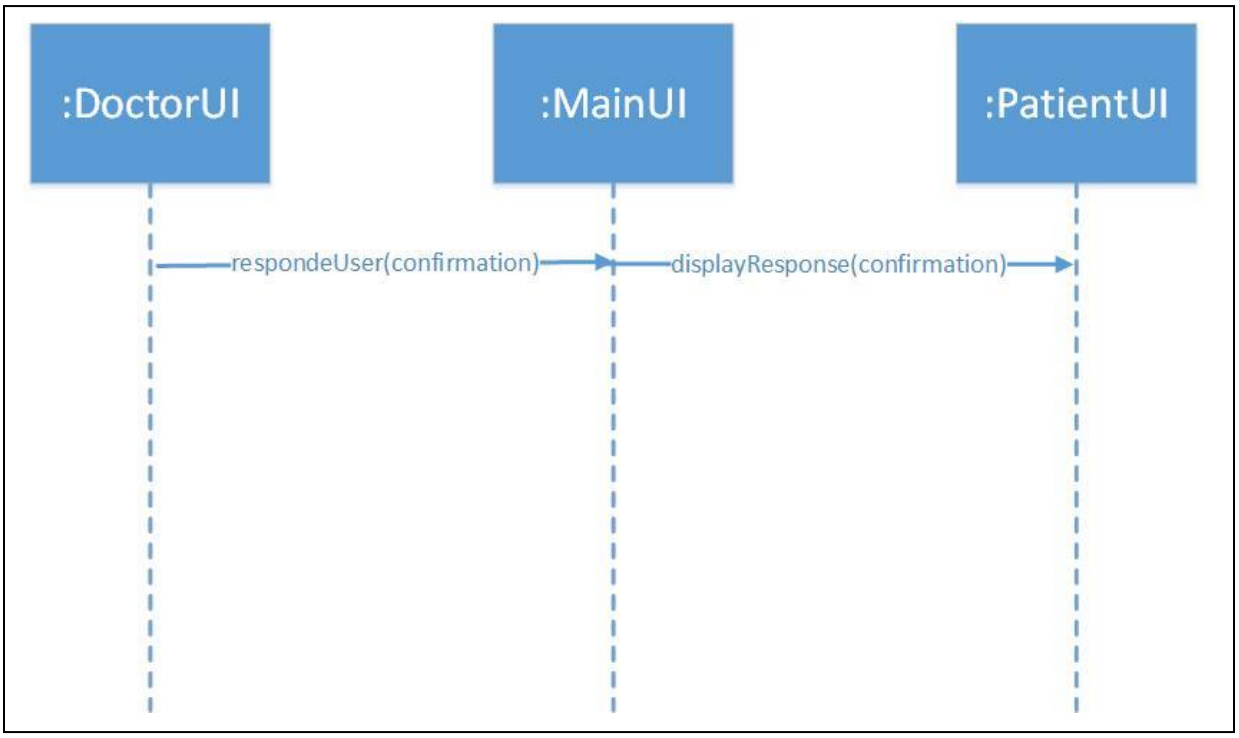
Generates Doctor Location



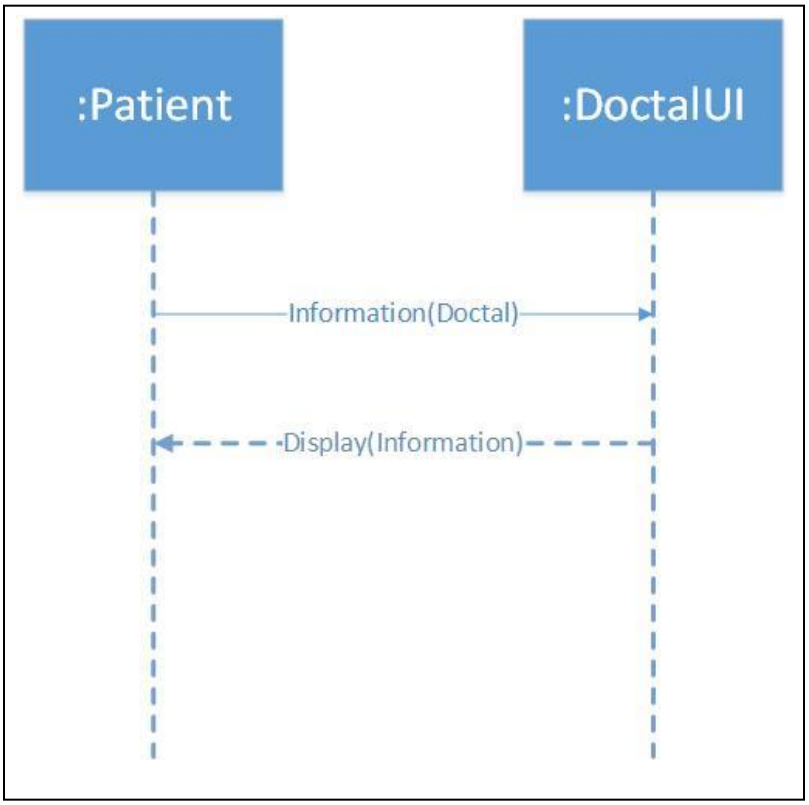
Confirms Appointment



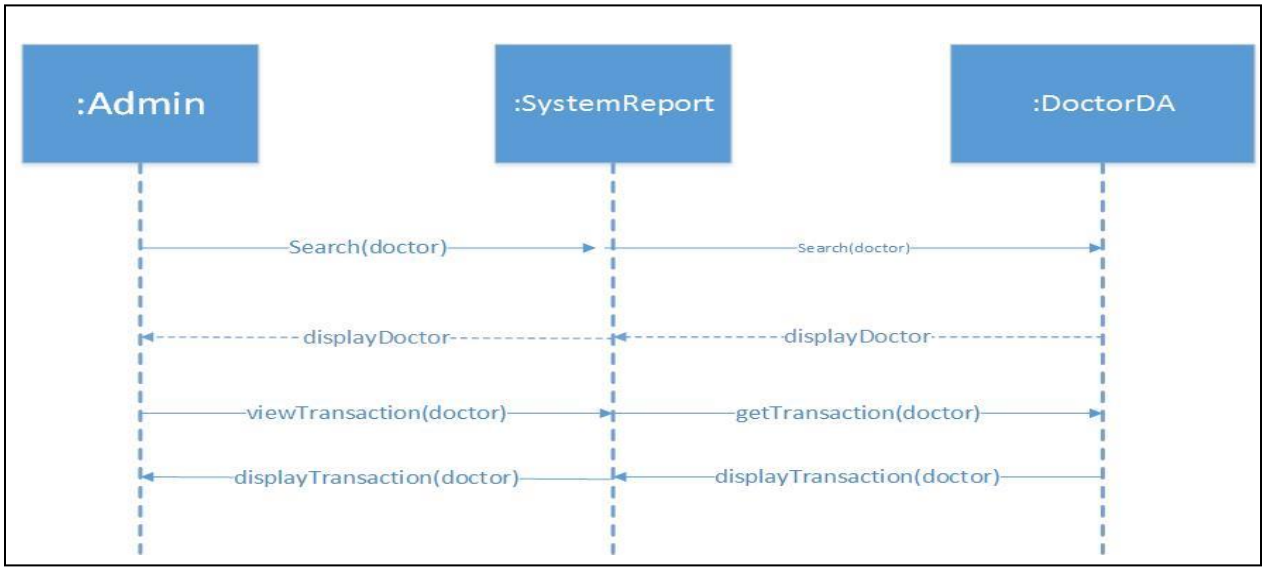
Generates Report



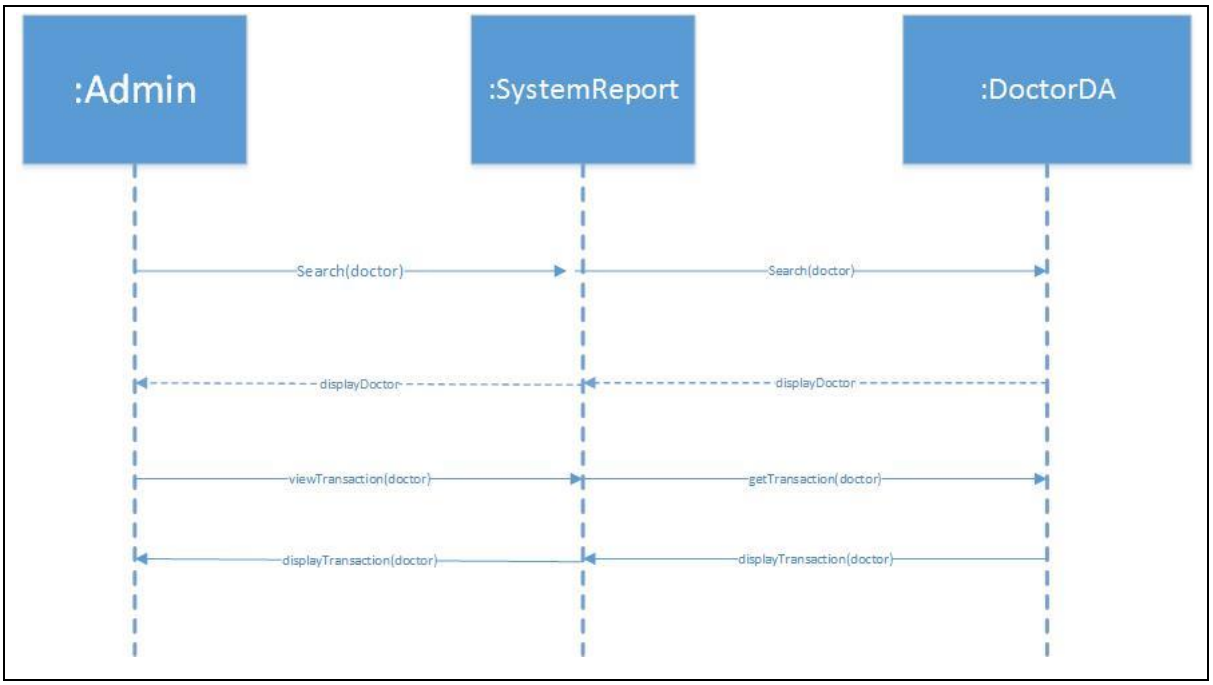
Generates Information about DOCTAL



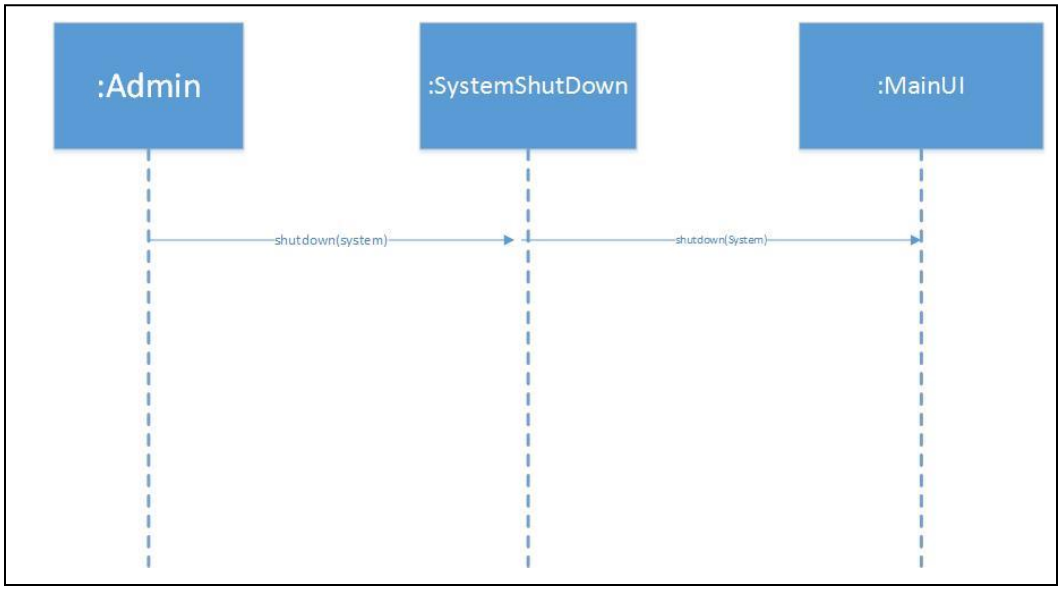
System Maintenance



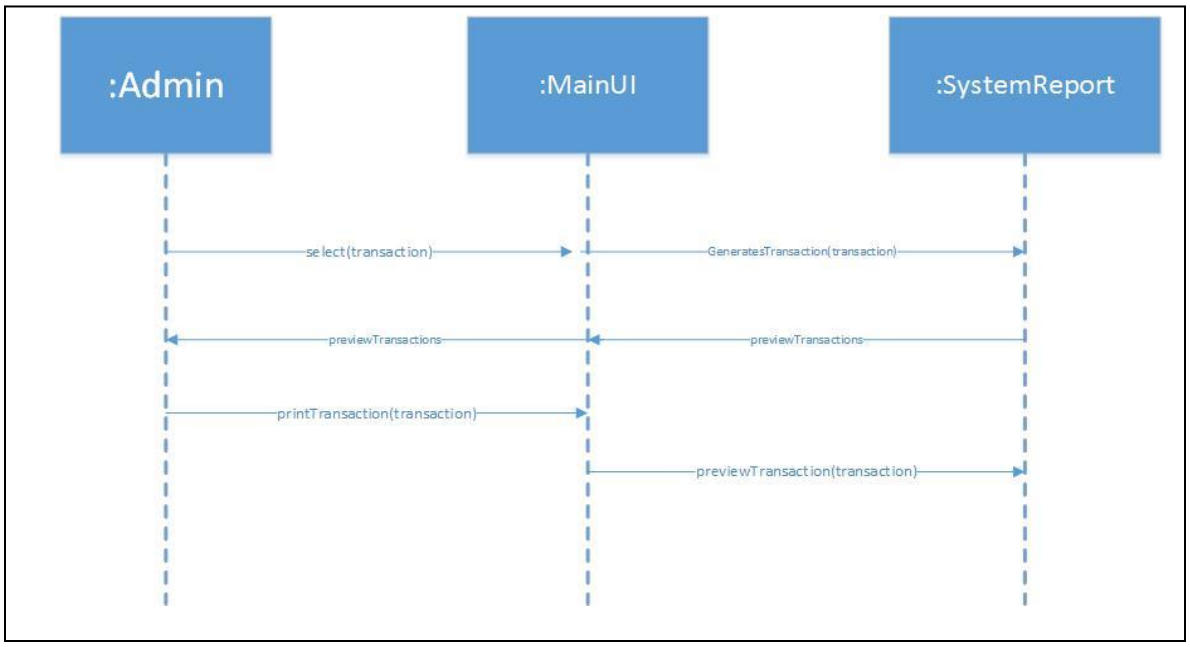
System Report



System Shutdown



Print Report



CLASS DIAGRAM