



# American International University- Bangladesh

## CSC 3215: Web Technologies

### CO1 and CO3 Evaluation

### Project Report

Spring 2019-2020

**Project Title: Doctor-Patient Portal**

**Section: J**

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# Doctor-Patient Portal

## Introduction:

The population of Bangladesh is around 168 million today, and it is only increasing. An economic survey of 2018 shows that there will be only one doctor available for every 2039 patients. There is a large number of patients showing up to the chambers of different doctors each day. These patients will suffer very long delays by having to wait in long queue to even get a serial number, let alone find consultation with the doctor. This can be very time consuming and also be very inefficient as a process. Any patient who fail to be on the given time due to emergency situations, will miss their appointment completely. This results in them losing their money and their time, and they'll have to go through the painful process of having to wait once again till they get a new serial number. Besides, these individuals will also have to carry all their necessary documents, old prescription, test reports etc. every time they pay a visit to their doctor. So to eliminate these hassles and make the process efficient we are proposing this system.

## Background Study

<http://csfinalprojects.blogspot.com/2016/01/project-1efficient-doctor-patient-portal.html>

This website shares ideas about computer science projects. We got our first hint about our system from here.

<https://nevonprojects.com/efficient-doctor-patient-portal/>

It is also a website that shares ideas about projects. We refined our idea from here.

<http://www.noveltyjournals.com/>

Novelty Journals is one of the fastest growing research and review paper publishing Organization which publishes Scholarly open access peer reviewed Articles, Magazines and Books of multidisciplinary field. We have read journals on the development process for this project.

<http://ijercse.com/specissue/march-2018/31.pdf>

This is a published paper on doctor-patient portal.

## Requirement Analysis:

### 1. User Category:

There are 3-types of Users here. They are:

- Doctor
- Patient
- Doctor's Assistant

# Doctor-Patient Portal

## 2. Feature List:

Features for all users:

- Log in

Features provided to doctor:

- Create slots
- Cancel slots
- View medical history of patient

Feature provided to patients:

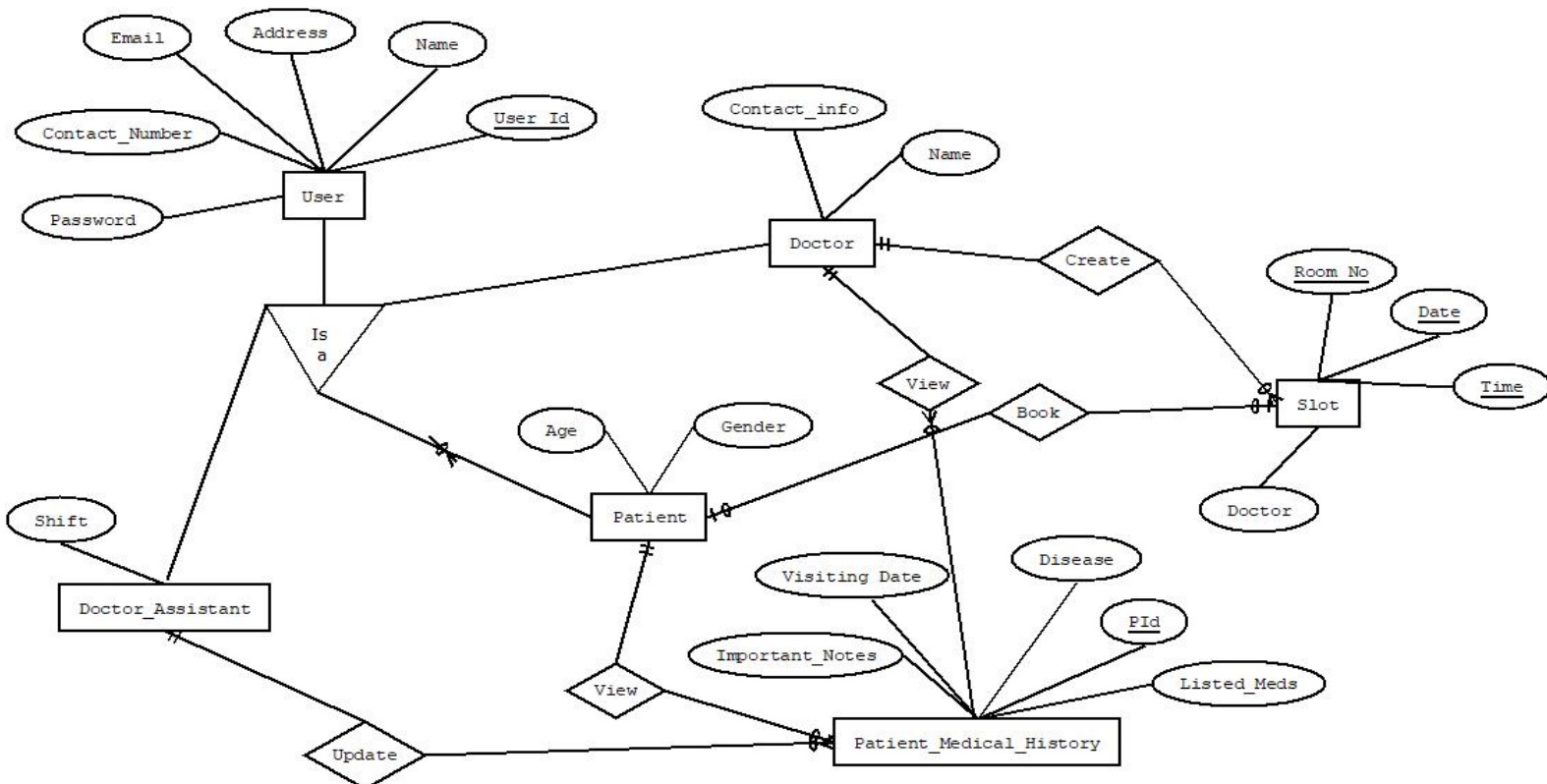
- Create account
- Book slot
- Cancel Slot
- View medical history

Feature provided to Doctor's assistant

- Create account
- Update patient's medical history

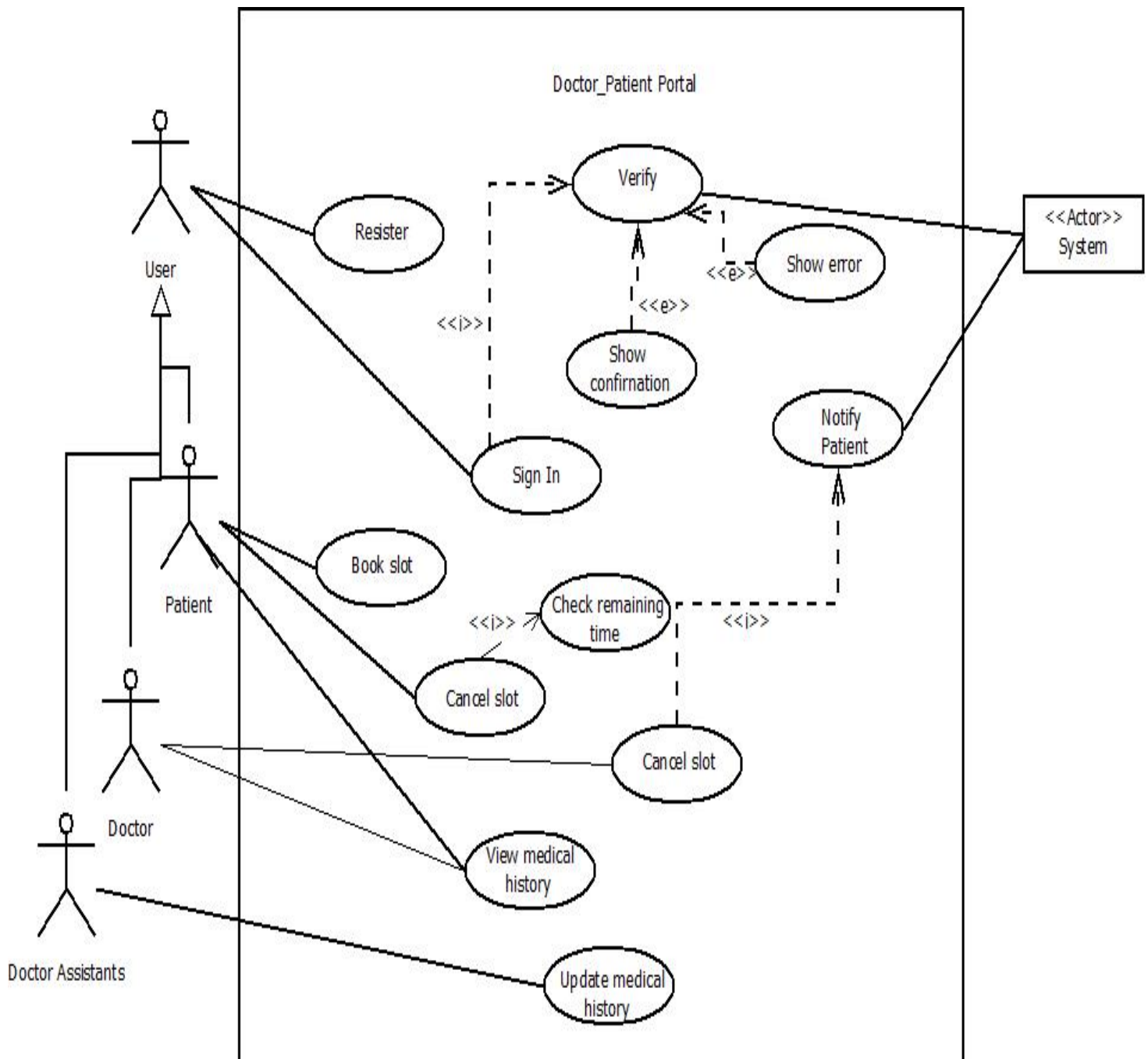
## Design:

### ER Diagram



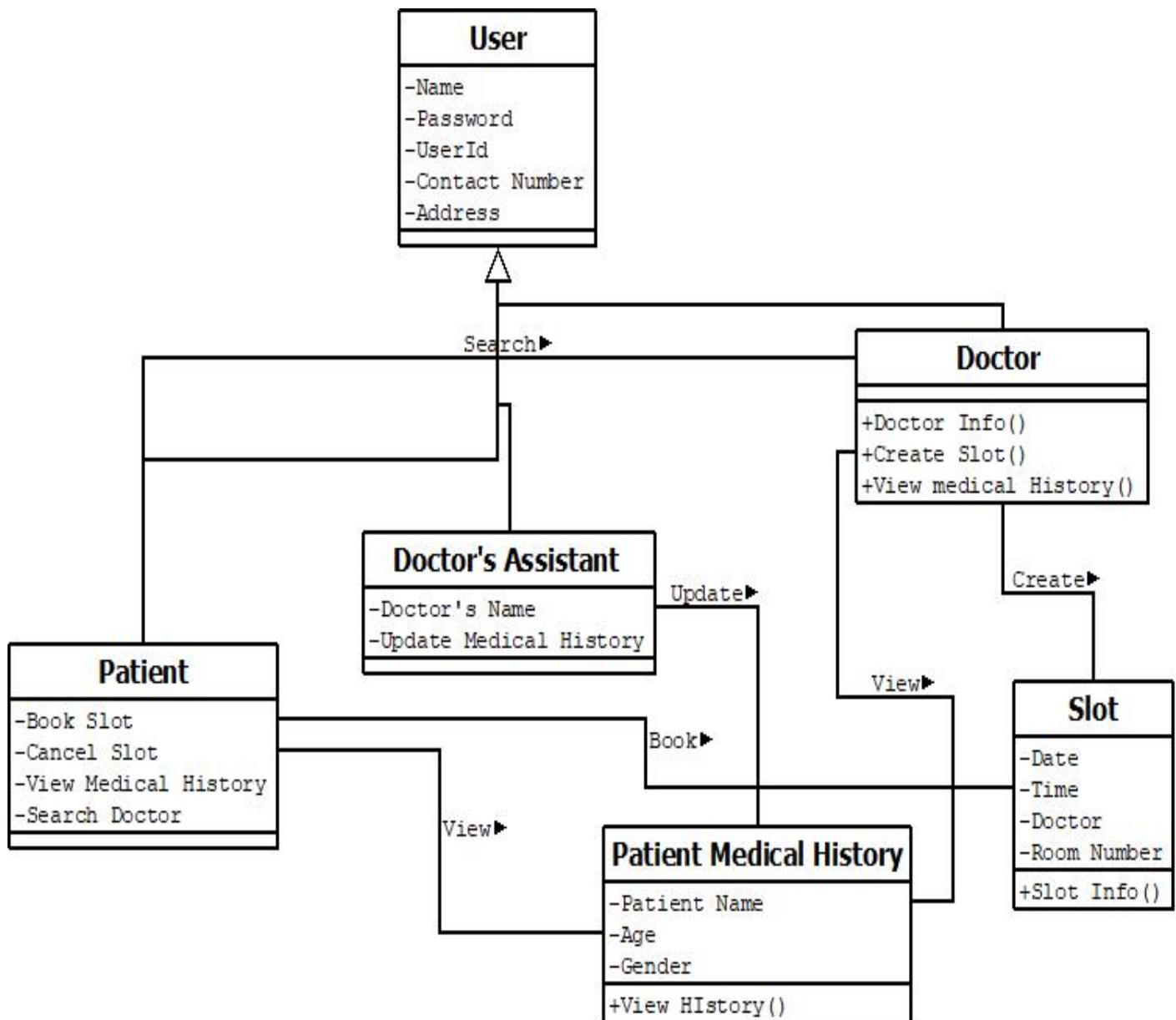
# Doctor-Patient Portal

## Use Case



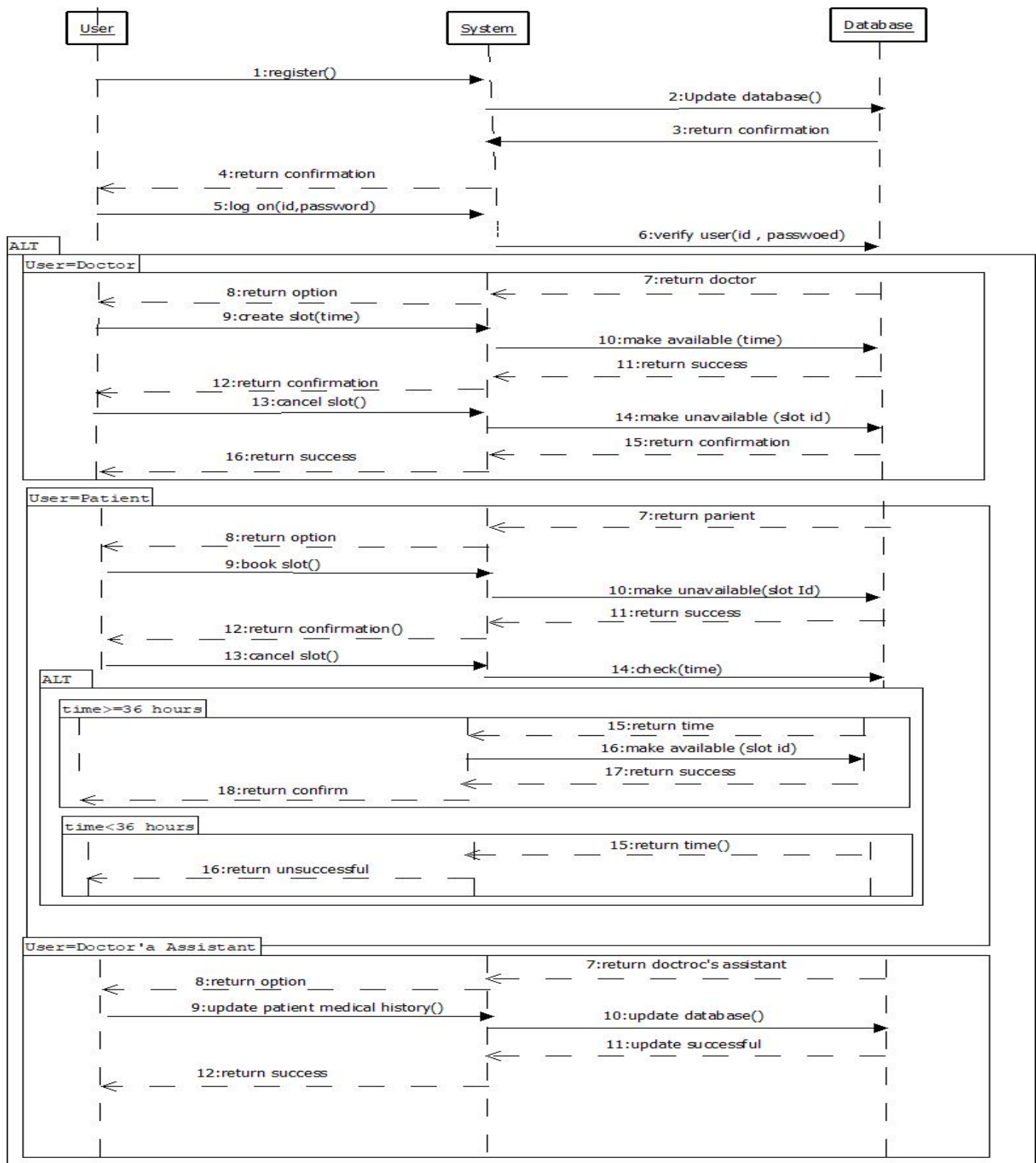
# Doctor-Patient Portal

## Class Diagram



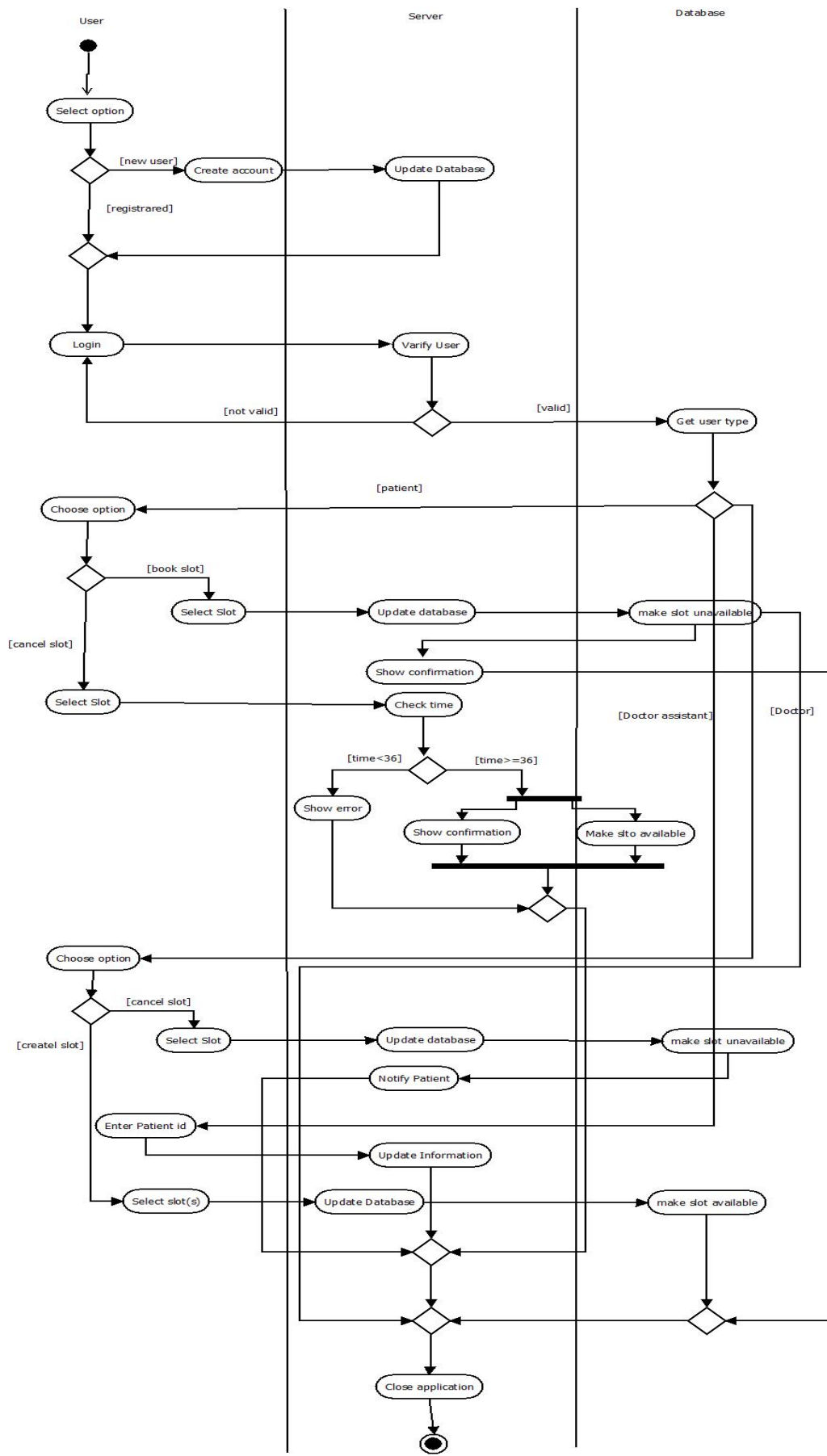
# Doctor-Patient Portal

## Sequence Diagram



# Doctor-Patient Portal

## Activity Diagram



# Doctor-Patient Portal

## Tools Used:

To develop this project, we have used the following:

- ◆ Dia
- ◆ Sublime Text
- ◆ Internet Browser
- ◆ Xampp

## System Images against the Specification:



**DOCTOR-PATIENT PORTAL**

We care for you.

Sign in with your User Id and Password.

User Id

Password

Log In

[New Here?](#)  
[Can't access your account?](#)

When someone enters the portal, he or she will first see this page. If the user is already registered he or she can enter the credentials and log in. If the user is not registered he or she can go to registration page by clicking 'new here?'. Or if the user is registered but has forgotten the password then he or she can click 'Can't access your account?' to set a new password.



### Patient Registration Form

Thank you for applying to our portal. Please complete this patient registration form with correct information and a doctor assistant will contact you very shortly.

Patient First Name\*:

Patient Last Name\*:

Gender\*: ☐ Female ☐ Male ☐ Other

Phone\*:

Date of Birth\*:  mm / dd / yyyy

Matital Status\*: ☐ Single ☐ Married ☐ Divorced ☐ Widow

Patient Address\*:

Not registered patients, can register from here. After filling this form of general information the user needs to click 'Register' button. Then he or she will be redirected to a new page where he or she will register his or her log in credentials.

\*We have developed only these modules for mid term. Whole system will be demonstrated on final term.



# Doctor-Patient Portal

## Impact of this Project:

Using our system people will be able to book and cancel appointments with doctor anytime from anywhere on their own. So this will save them from the current painful, time consuming, typical booking process. Then there is medical history maintaining feature which will save the patients from carrying loads of reports, prescriptions with them.

From business perspective, our system will help to increase productivity of the clinic as more people will be attracted by this more efficient process than the typical one. So the clinic or doctor will earn more revenue.

In sum, this can be said that the system will allow people to enjoy one of the fundamental human rights with freedom and without any hassle and also will increase productivity of the customer organization.

## Limitations and Possible Future Improvements:

This is the first version of our system. In this version we are working with only one doctor. In later versions we intend to include more than one doctor. Then searching doctor feature will be added. Registration of doctor must have verification process. So an admin panel module will also be needed. Besides, in this version we are not handling payment options. Payment is still manual. We will introduce the payment module as soon as possible.

CO1 and CO3 Evaluation: Project Report Evaluation					
Project Proposal (5)	Background Study (5)	Requirement Analysis (5)	Entity Diagram (5)	System Images against the Specification (5)	Total (25)