**Clinic management system**

**Introduction**

The clinic management system aims to establish an efficient way of communication between the doctor and the receptionist. The receptionist will be allowed to register a patient when the patient wants to schedule an appointment and these details will need to be saved in database. The appointments are then passed to the doctor who can then view the patient appointment and then treat the patient. The doctor then prescribes medicines that are stored in the pharmacy where patient goes to get the medicine. The pharmacy then gives medicines to the patient where a bill gets generated that goes to the receptionist and patient pays the bill. The project is developed by using C# language (visual studio), sql server

**Scenario**

* Patient enters clinic and goes to receptionist
* Patient then asks for scheduling appointment
* Receptionist checks which doctors are available for the desired treatment (example leg pain, Cardiologist…. Etc.)
* Receptionist schedules appointment and sends patient to relevant doctor
* Doctor gives treatment to patient
* Doctor prescribes medicine to patient sends the prescription to pharmacists
* Pharmacists provides medicine to patient and forwards the bill to receptionist
* Patient goes to the receptionist for final payment (includes doc fee + pharmacist fee)
* Patient record saved to the accounts department

**Business requirements**

* Receptionist , doctor and pharmacist need to login to access their rights
* Generate the bill of patient when an appointment ends
* Update the database when any changes are made in patients information
* Receptionist should be give privileges to schedule appointments for patients and assign the doctor

**Languages to be used:**

* Visual studio(C#)
* Sql server 2008

**Actors:**

* Patient
* Doctor
* Pharmacist
* Receptionist

**Patient process:**

* Patient visits clinic
* Goes to the receptionist
* Gets an appointment scheduled
* Patient visits doctor
* Patient is prescribed with medicines with prescription
* Patient goes to pharmacy to get desired medicine
* Patient bill generated
* Patient pays bill



Doctor Process:

* Doctor views patient appointment
* Doctor prescribes the patient medicines



**Receptionist Process:**

* Registers patient
* Schedules appointment for patient
* Assigns doctor to patient
* When appointment ends generates bill
* Search patient

**Receptionist privileges:**

* Registers Patient
* Schedules appointment
* Appoints Doctor
* Will generate bill when Appointment ends
* View patient appointment
* View patient information
* View bill
* Update appointment

**Patient Privileges**:

* Schedule Appointment
* Chose doctor
* Pay bill

**Doctor Privileges:**

* View Patient appointment
* Prescribe medicine
* View patient information



**Doctor Privileges:**

* View appointment
* Prescribe medicine

**Validations:**

* Login system if password and username are correct
* When registering patient and if patient already exists in system so prompt the receptionist that patient already exists and display details
* If patient schedules appointment at any time and another patient comes and schedules appointment at same time so prompt user to schedule appointment at another time
* If username entered and not password and vice versa prompt the user to fill in fields
* If doctor tries to access admins privileges so prompt that cannot access admin rights
* Prompt user if any information has been updated an whether correct information is updated in their text fields
* When patient goes to pharmacist and gives medicine and if medicine not available at pharmacy so prompt that medicine not available

Patient Attributes:

* Patient\_Id
* Patient\_Name
* Patient\_Address
* Patient\_Gender
* Patient\_DOB
* Patient\_Contact

Doctor Attributes:

* Doctor\_ID
* Doctor\_Name
* Doctor\_Qualification
* Doctor\_Designation
* Status\_Type
* Doctor\_fee

Bill Attributes:

* Bill\_Id
* Visit\_Id
* Doctor\_Fee

Medicine Attributes:

* Med\_Id
* Med\_Name
* Cost

Pharmacy Attributes:

* Phar\_ID
* Pharmacy\_Bill
* Visit\_ID

Visit Attributes:

* Visit\_ID
* Visit\_Date
* Patient\_Id
* Doctor\_Id

Visit Medicine:

* Vmed\_ID
* Visit\_ID
* Med\_ID