Lab Assignment – I

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Section – A

Doctor's Office

Scope:

1. All work should happen through a website
2. Keep record of all past medical history of the patient.
3. Keep record of all past prescriptions given to patient.
4. Keep record of all the staff members working in the office.
5. Keep record of all medicines and equipment currently in stock.
6. Patients should be able to make an appointment online
7. Patients can view their past history.
8. Patients can pay for their expenses online

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Functional Requirements

Functional-User Requirements:

1. Doctor will be able to prescribe the medicines from his computer and the patient can directly collect the medicines from the dispensary.
2. *Alert the store manager if a medicine is running out of stock*
3. *Alert the doctor if he tries to prescribe a medicine that is currently out of stock*
4. *Alert the doctor if he tries to prescribe a medicine that the patient is allergic to, based on past history*
5. *Generate monthly salary slips of all staff/employees*
6. *Properly schedule patients such that there are no clashes*
7. *Send patients reminder to take medicines every time*
8. *Alert the patient 1 hour before his/her due appointment and also send alert about traffic on the way.*
9. *Notify the patient about the papers/documents that he might have to bring for the appointment a few hours before the appointment.*

Functional-System Requirements:

1. Large database to store all the data of patients/doctors/other staff
2. *A back end to operate on the database and perform actions*
3. *A simple but appealing front end GUI for the doctors and patients.*
4. *Servers to host the website*
5. *A domain name so that patients can access the websites from their homes too.*

5. *Authentication system for all users*
6. *The payment gateway should be in accordance with all modern protocols and secure*

7. *A backup of the database should be made periodically(say every 24 hours)*
8. *Air Conditioners for cooling servers and computers*

Non-Functional Requirements

NonFunctional-User Requirements:

1. *The website should be fast. (especially for patients)*
2. *Send SMS/Email Alerts to patients 24 hours before their appointment*
3. *Allow the head/admin to manually change the data through an admin portal (but make a log of this)*
4. *Allow the users to print their monthly summary*
5. *Lock the computers of doctors/admin-staff as soon as they leave their seat.*

NonFunctional-System Requirements:
1. *The website should be compatible across all browsers*
2. *The website should be responsive. Should change the layout according to the device user is using*
3. *Nobody except the main admin person should be able to directly make changes to the database (without the back-end). Rest all should use the admin panel so their changes can be logged*

Completion Criteria

__1.__ The website will be considered "complete" if all the functional requirements are fulfilled with minimum number of non-critical bugs.

__2.__ Once the website is "complete" , work can be started to add as many non-functional requirements as possible.