

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*

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)*

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*

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.*