Patient Medical Record Management System

1. **Introduction**

We need applications to process, store and present the data in an ordered fashion. File System is not an efficient one. So, we require an application that allows storing of test details of the patient. Patient Medical Record Management System aims for that requirement. This Application allows for storing, retrieving and updating patient, doctor and clinic test details. Here, in this Application, we have 5 roles. They are:

* Receptionist
* Lab Technician
* Pathologist
* Radiologist
* Admin

These roles then enter the data and keep it updated in the database. Each Role is Described in detail in Later Section.

* 1. **Login and Sign-Up**

This application allows employees to create their accounts. The Employees term is used for Receptionists, Pathologists, Radiologists and Lab Technicians. Sign Up allows employees to create their account. Login Page logs in employees to their respective pages.

1. **Receptionist**

This is a necessary role for any application to regulate information received at the reception. Any patient visits the reception for further guidance in the clinic. In this application, we aim to achieve that role. As the role mentions, it allows entering of patient data. We can enter Patient data and register the patient in the database. Also, it has the feature to assign a test corresponding to that patient to a Lab Technician. Along with that, we can search for patient by name or id and search test by id.

1. **Lab Technician**

This role is crucial as this employee connects patient with their respective pathology/radiology test and obtains the test result. Here, employees can edit the tests and see which tests are assigned to them. Lab Technicians are meant to give results to the patients. Lab Technicians can retrieve test result reports for the user. The tests entered by receptionist is studied by the lab technician and then seeing the requirements, pathology or radiology test is assigned. Here, it can also search for tests by it’s id.

1. **Pathologist**

All pathology tests are analyzed by a pathologist as it’s their area of expertise. A Pathologist here can see all the tests that are assigned to them. Also, pathologist can edit the test details of the test. A Pathologist basically performs the test for the user and the results are then uploaded to the application servers. This is then fetched by the lab technician and given back to the patient. This application ensures that the results uploaded are in pdf format. Sometimes pathologist require analysis of other pathologist over a same set of tests. So, in that case, pathologist can search for the cases by their id or they can go for ‘Search All’ option which allows them to see all the pathology tests. The test results can be viewed in a different tab. A Pathologist here can see only pathology tests and they have no option to see radiology tests.

1. **Radiologist**

All radiology tests are analyzed by a radiologist as it’s their area of expertise. A Radiologist here can see all the tests that are assigned to them. Also, radiologist can edit the test details of the test. A Radiologist basically performs the test for the user and the results are then uploaded to the application servers. This is then fetched by the lab technician and given back to the patient. This application ensures that the results uploaded are in pdf format. Sometimes radiologist require analysis of other radiologist over a same set of tests. So, in that case, radiologist can search for the cases by their id or they can go for ‘Search All’ option which allows them to see all the radiology tests. The test results can be viewed in a different tab. A Radiologist here can see only radiology tests and they have no option to see pathology tests.

1. **Admin**

Like every network requires a network administrator, every application requires an admin feature. This is because admin regulates entry of fields not supposed to be entered by any of the other existing roles. Admin here in this application is present to enter the doctor details as they are not meant to be entered by any role mentioned above. Admin here can look in all the patients that are present. Also, it can look in all the doctors present in the system. It also can look in all the employee details of the company.