

**Life Track**

**E DIAGNOSTIC LAB MANAGEMENT SYSTEM**

**ABSTRACT**

Project Guide:

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## **E DIAGNOSTIC LAB MANAGEMENT SYSTEM**

### **Abstract**

It is an online diagnostic lab managing website that brings up various diagnoses working online. Here patients get an option to access the laboratory and register on their site and login using registered details. After registration the patients may now see a variety of tests conducted by the lab along with their costs. The system allows patients to do the bookings for various tests like CBC, Blood Glucose, KFT, LFT, Hemoglobin, WBC, etc. The system allows users to book any test needed in available slots and after successful booking, system calculates costs and allows users to pay online. After this the patient may service in 2 ways: One can go to laboratory for sample extraction or lab may now collect samples from patient's registered address by staffs. After successful testing, the patient gets a notification of test result in their profile. Also the second function of the system is to provide an e-commerce system for purchasing of health monitoring devices which is implemented on main project.

The proposed e-diagnostic lab management can be accessed in 4 modules:

- Admin
- Patient
- Staff
- Delivery boy

### **Modules and Functionalities**

#### **Admin functionalities**

- User management : Manage user accounts,permissions,appointment details,add or edit reports of patients
- Laboratory management
- Booking Management : Managing booking of available slots , secure and complete payment.

- Report test results
- Add health detecting devices on the e-store.
- Manage the products on e-store,their selling,payment.
- Manage the staffs
- Manage the delivery boy.

### **Patient functionalities**

- Registration : The patient can register in the site with all the details in the registration form.
- Login with registered username and password
- browse for available services and take appointment by doing payment.
- View report on test and history of test
- Buy products from e-store
- Add products to cart
- add/update Shipping address.
- view purchase history.
- Track shipping of products and notifications.
- Reviews and ratings.

### **Staff functionalities**

- Collect samples from intended patient's address and their confirmation .
- Manage personal information .
- view the appointment of patients.

### **Delivery Boy**

- Shipping of products from e-store and its management.

-Tracking the location.

-OTP verification.

### **Topics to be covered on Mini Project**

-registration and login of users

-User portal management.

-laboratory booking and appointment scheduling

-Home service

-Payment

-Mail confirmation

### **Topics to be covered on Main project**

-E commerce site of health monitoring devices and its management including the delivery boy.

-Live chat for enquiry with assistant.

-Personalised recommendations for testing or health related content which alert patients on health issues.

-including patients who were not get the appointment yet to waiting list and include them on next appointment schedule initially.

### **Technologies implemented**

- Machine Learning
- Chatbot or Virtual health assistant
- Virtual waiting Room

### **Language Preferences**

Frontend : HTML / CSS

Backend : Django