



VIT-AP
UNIVERSITY

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*** **ASSIGNMENT-4** ***

NoSQL Databases Project Document

Project Title:

*EasyMed@VIT-AP Hospital Management System using
Cassandra Database*

Prepared under the guidance of:

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Perform a Feasibility Study on the Selected Project and prepare a one/two-page writeup.

➤ **Project Objectives:**

The main objectives of this project is to implement an end-to-end database focused portal for patient registration organizing information and fixing appointment with clinic doctor in VIT-AP.

➤ **Programming Languages Required:**

Java, Cassandra, HTML, CSS, PHP.

➤ **Platforms to be Used:**

Android Studio, Eclipse, lucid chart, VS Code.

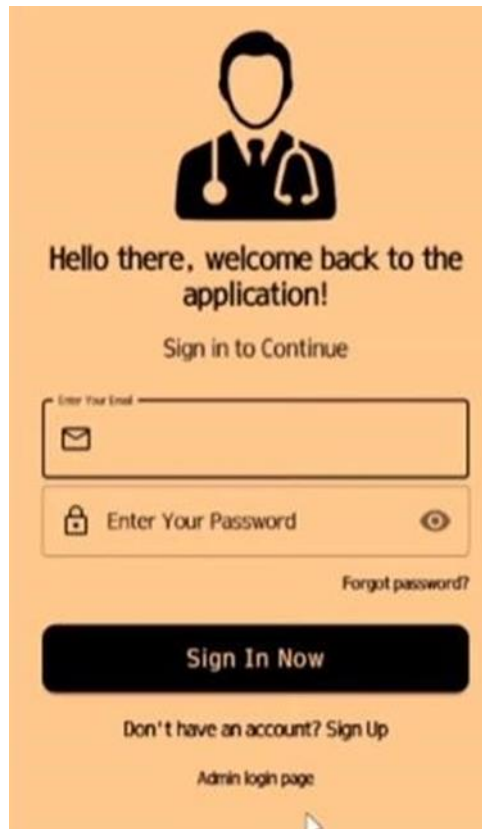
➤ **Problem Statement:**

Hospital is associated with the lives of common people and their day-to-day routines. The manual handling of the record is time consuming and highly prone to error. The purpose of this project is to automate or make online, the process of day to-day activities like Room activities; Admission of New Patient, Discharge of Patient, assign a doctor, and finally compute the bill etc. We have a clinic in VITAP, but Students hardly use it. If we automate the process and make a management system that would help our clique.

➤ **Reference-Already Existing Work:**

Hospital Management System (HMS) is designed for multispecialty hospitals, to cover a wide range of hospital administration and management processes of patient-centric system. It is an integrated end-to-end Hospital Management System that provides relevant information across the hospital to support effective decision making for patient care (medical records management and billings), and hospital administration, in a seamless flow. In existence, some researchers have contributed positively in the improving of health care institutions management systems. Therefore, we discuss in this section below, some of the related works done in hospital management system by researchers in the field.

➤ **Outcome Expectation:**



➤ **Improvements:**

We want to further improve our project by adding GOOGLE MAPS API'S which adds the nearest medical hospitals details. We want to even add Retail management System in this app as it is similar to execute if time permits.

➤ **Conclusion:**

There are 2 reasons to choose this project:

- a) We want to gain an insight into the working of the HOSPITAL. This problem statement is a typical real-world situation and executing it hopefully provides rewarding experience with good results for our team.
- b) we want to increase our understanding of database design and innovate user friendly app with genuine effort.

 **Specify and Gather the requirements for your chosen project with the required details below:**

1. PROBLEM ANALYSIS

1.1. Overview of the project:

Why computerized?

1.2. Identification of project scope:

Task involved:

1.3. Objectives

1.4. Infrastructure

1. Problem Analysis :-

1.1 Overview of the project:

Hospital Management System (HMS) is designed for multispecialty hospitals, to cover a wide range of hospital administration and management processes of patient-centric system. It is an integrated end-to-end Hospital Management System that provides relevant information across the hospital to support effective decision making for patient care (medical records management and billings), and hospital administration, in a seamless flow.

We intend to develop an app which maintains activities of our college clinic.

The supposed users of a hospital management system may be divided into three categories:

- 1. Hospital administration**-who manages billing process & views Appointments
- 2. Doctors and other authorized employees:** Prescribe Medicines for patients & authorized to modify activities of other two users.
- 3. Patients (Facility and students)**- Registered to receive medical treatment and pays bill.

Why Computerized?

Manual Records of patient history is time consuming as well as Error prone, so we intend to develop a computerized automated Management System. Our present modern information system makes use of computers for the execution, each of them connected through an optimized network.

Considering our clinic, many students enter and exit the hospital in a day and maintaining their records safely is tedious. To reduce this type of burdens and to manage the financial, hospital administration and clinical aspects, Hospital management system would automate the process and make it easier. Demerits of manual Record maintenance is:

- Time Consuming
- More Cost
- Error Prone
- No Data Security & No Retrieving Ability
- No Patient Details for further communication

By computerizing we can overcome all these complications. The computerization of the system has speed up the process. In the current system, the front office managing is very slow. Human Errors and Manual mistakes are removed thus providing Reliable software for best use.

We also intend to add API Based Google Map for Knowing nearest medical shops near our college.

❖ **1.2 Identification of project scope:**

- User friendly interface
- Easy to access patient details

Task involved:

- Feasibility study
- Implementation of Security system for Doctors and Hospital Administration
- Database management system
- API Based Google Map
- Password and Login Management System

❖ **1.3 Objectives:**

Uncomplicated appointments:

- To provide an easy and error free schedule for doctors and patients (students and faculty) of VITAP.
- To provide retrieving ability and decrease the complexity of manual maintenance of patient records.
- To provide appointment confirmation to all other users (respective patient and doctor) on appointments approved by hospital administration.

Mobile alerts:

- To provide notification alerts on confirmation of appointment and a remainder at time of schedule.
- To provide a clinical report for a patient after the treatment provided by a doctor.
- To provide medical prescriptions suggested by a doctor to a patient and respective bill with consultation fee.

Helpdesk:

- To provide complaints, suggestions to the VITAP administration.
 - **For example:** Regarding billing process, Treatment, hygiene.

❖ **1.4 Infrastructure:**

These are the software which would be used border to create our project:

- Android Studio - Arctic Fox | 2020.3. 1.
- Visual Studio 2019 version 16.7.12
- Star UML/Argo UML
- My SQL Database

✚ **Perform Design and Analysis of requirements for your chosen project with the required UML diagrams:**

2. DATA MODELING

2.1 System Architecture Design

2.2 Use Case Diagram

2.3 Activity Diagram

2.4 DFD Diagram

2.5 Class Diagram

2.6 Sequence Diagram

2. DATA MODELING :-

➤ **2.1 System Architecture Design:**

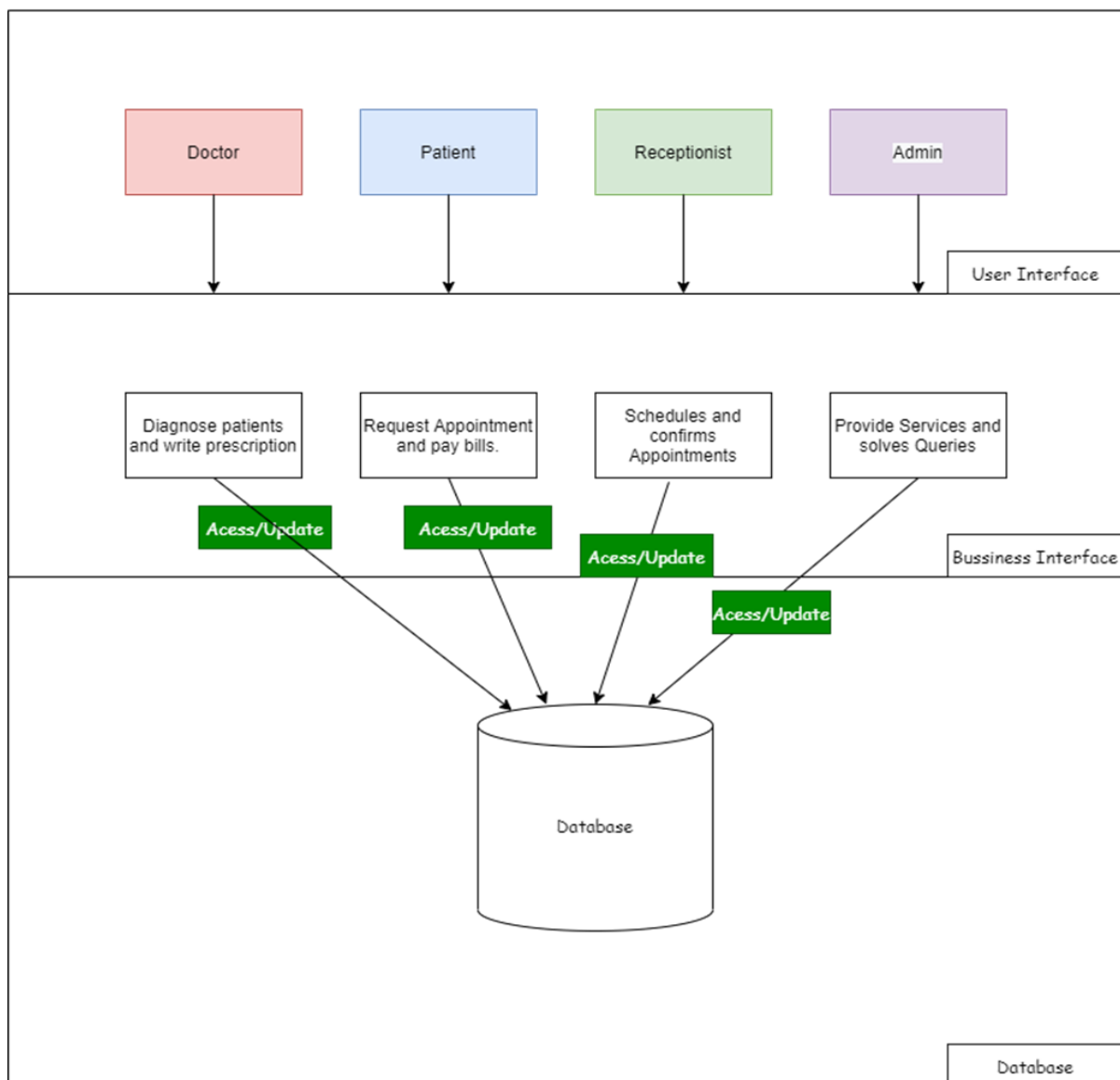
A system architecture or systems architecture is the conceptual model that defines the structure, behavior and more views of a system.

As architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the structures and behaviors of the system.

THREE-TIER ARCHITECTURE

- Three-tier architecture is an architectural deployment style that describe the separation of functionality into layers with each segment being a tier that can be located on a physically separate computer.
- They evolved through the component-oriented approach, generally using platform specific methods for communication instead of a message-based approach.
- The network architecture used in this type is three tier client-server architecture and distributed database architecture.

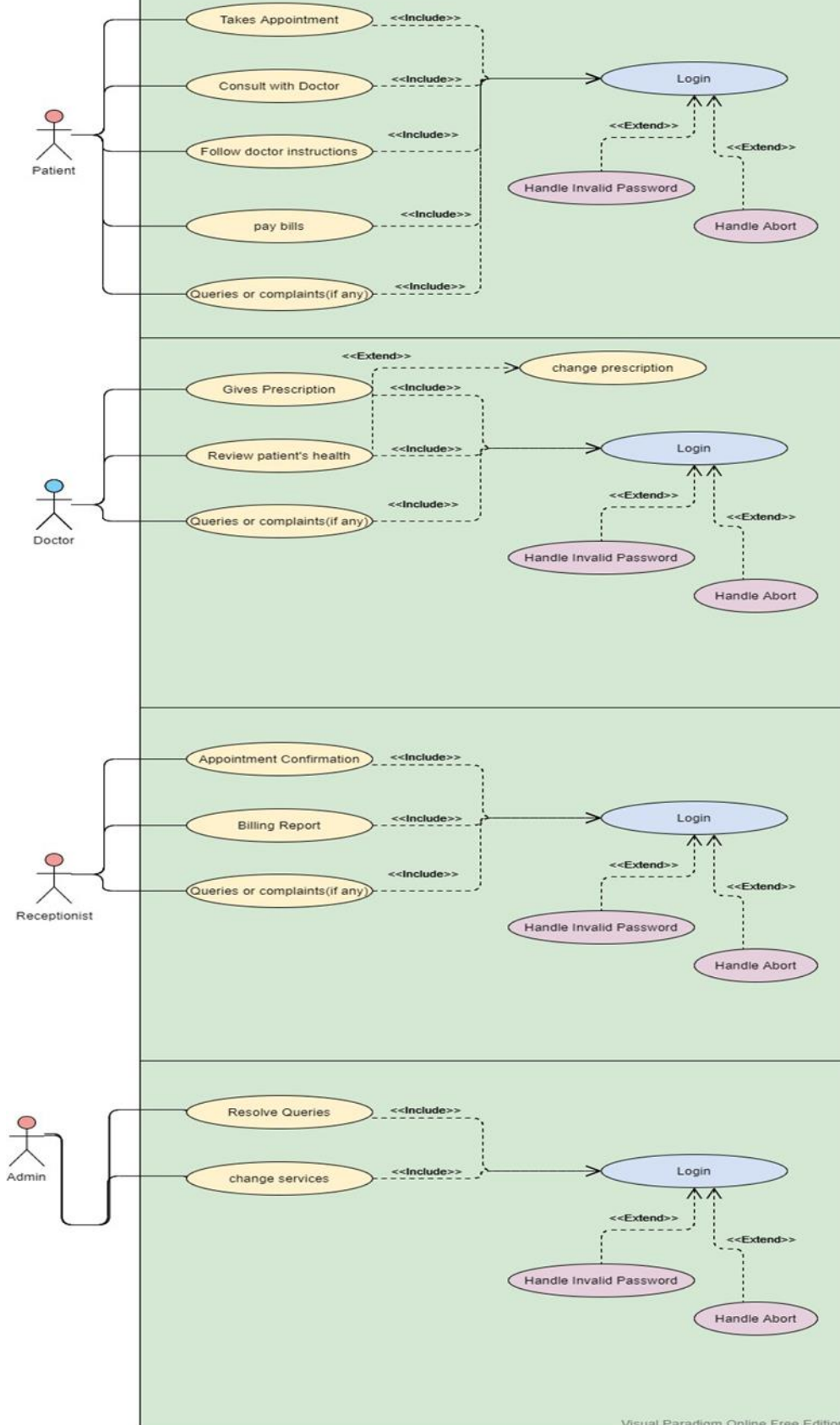
EasyMed © VITAP



➤ **2.2 Use Case Diagram:**

A use case diagram in the Unified Modelling Language (UML) is a type of behavioral diagram defined by and created from a use-case analysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases), and any dependencies between those use cases.

- Doctor produces medication report and list of medicines are also available for each patient who is visiting hospital.
- The patients' information must be composed of their basic data, sickness complaints or consultations including admission. These data were then recorded and given to the appropriate physician for curing and basis for the kind of services to be done.
- Admin or the main user of the system could have access into the patient information in terms of availing the hospital services.
- Hospital Reception module supports some of the many job duties of hospital receptionist. Receptionist schedules patient's appointments and admission to the hospital, collects information from patient upon patient's arrival and/or by phone. For the patient that will stay in the hospital ("inpatient") she or he should have a bed allotted in a ward. Receptionists might also receive patient's payments, record them in a database and provide receipts, file insurance claims and medical reports.



➤ **2.3 Activity Diagram:**

A UML activity diagram helps to visualize a certain use case at a more detailed level. It is a behavioral diagram that illustrates the flow of activities through a system.

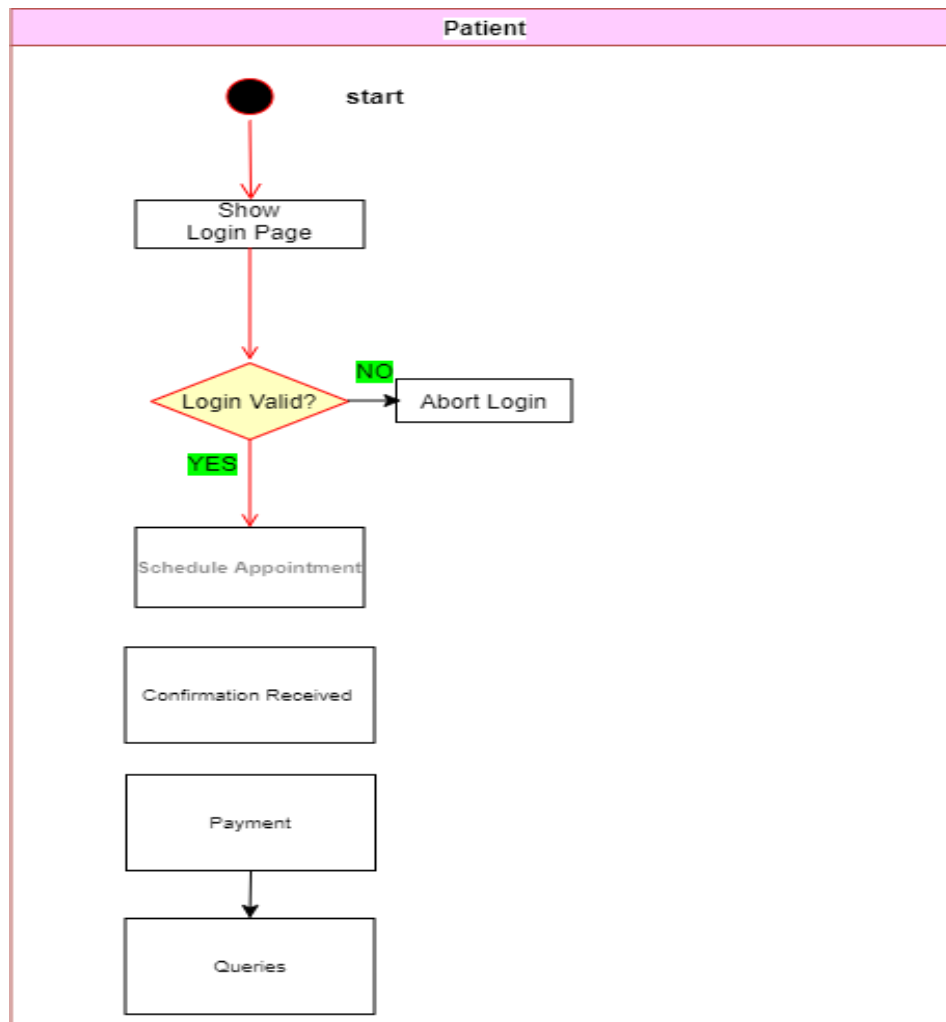
- UML activity diagrams can also be used to depict a flow of events in a business process. They can be used to examine business processes in order to identify its flow and requirements.
- Activity diagrams can be used to model business requirements, create a high-level view of a system's functionalities, analyse use cases and for various other purposes. In each of these cases, here's how to draw an activity diagram from the beginning.
- Activity diagram describes the flow of control in a system. So, it consists of activities and links. The flow can be sequential, concurrent, or branched.
- Activities are nothing but the functions of a system. Numbers of activity diagrams are prepared to capture the entire flow in a system.
- Activity diagrams are used to visualize the flow of controls in a system. This is prepared to have an idea of how the system will work when executed.

Following flow is shown in below Activity diagram:

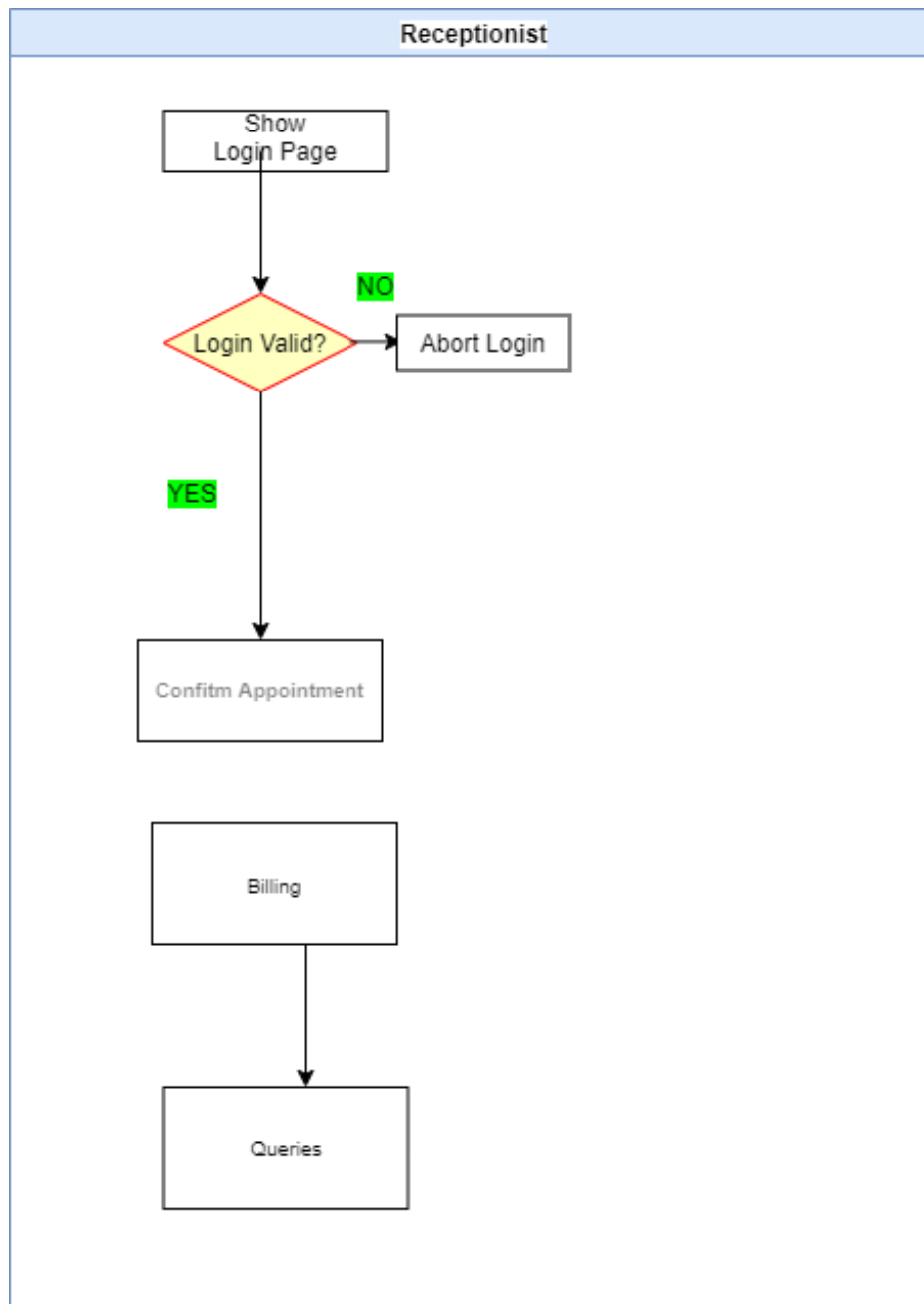
- **Patients** Scheduling Appointments for check-up.
- **Receptionist** schedules patient's appointments and admission to the hospital. Receptionists also receive patient's payments.
- **Doctor** produces medication report and list of medicines are also available for each patient who is visiting hospital.
- **Admin** or the **main user** of the system could have access into the patient information in terms of availing the hospital services.

**** Activity Diagram of EasyMed**
– A hospital management System @ VITAP **

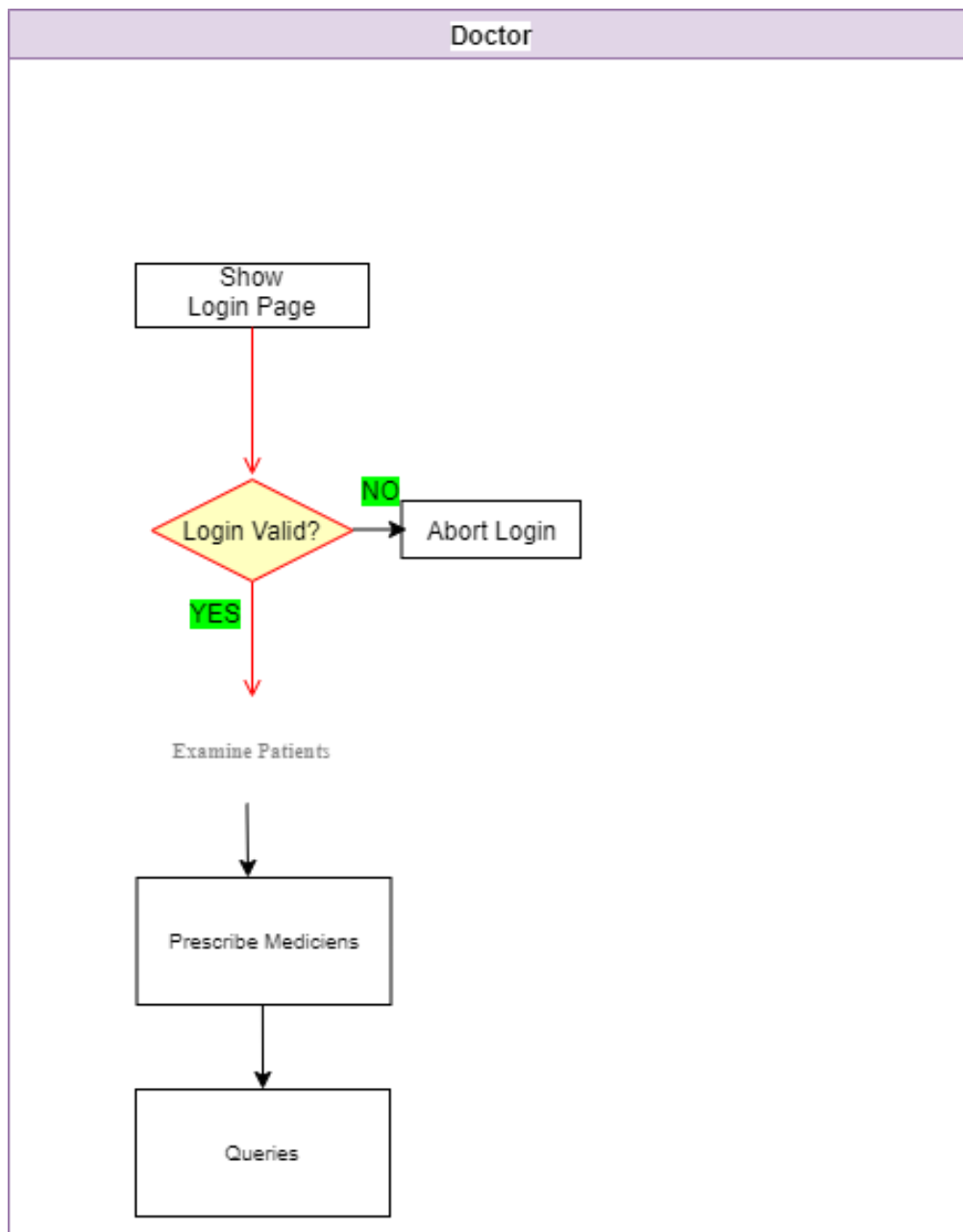
❖ PATIENT



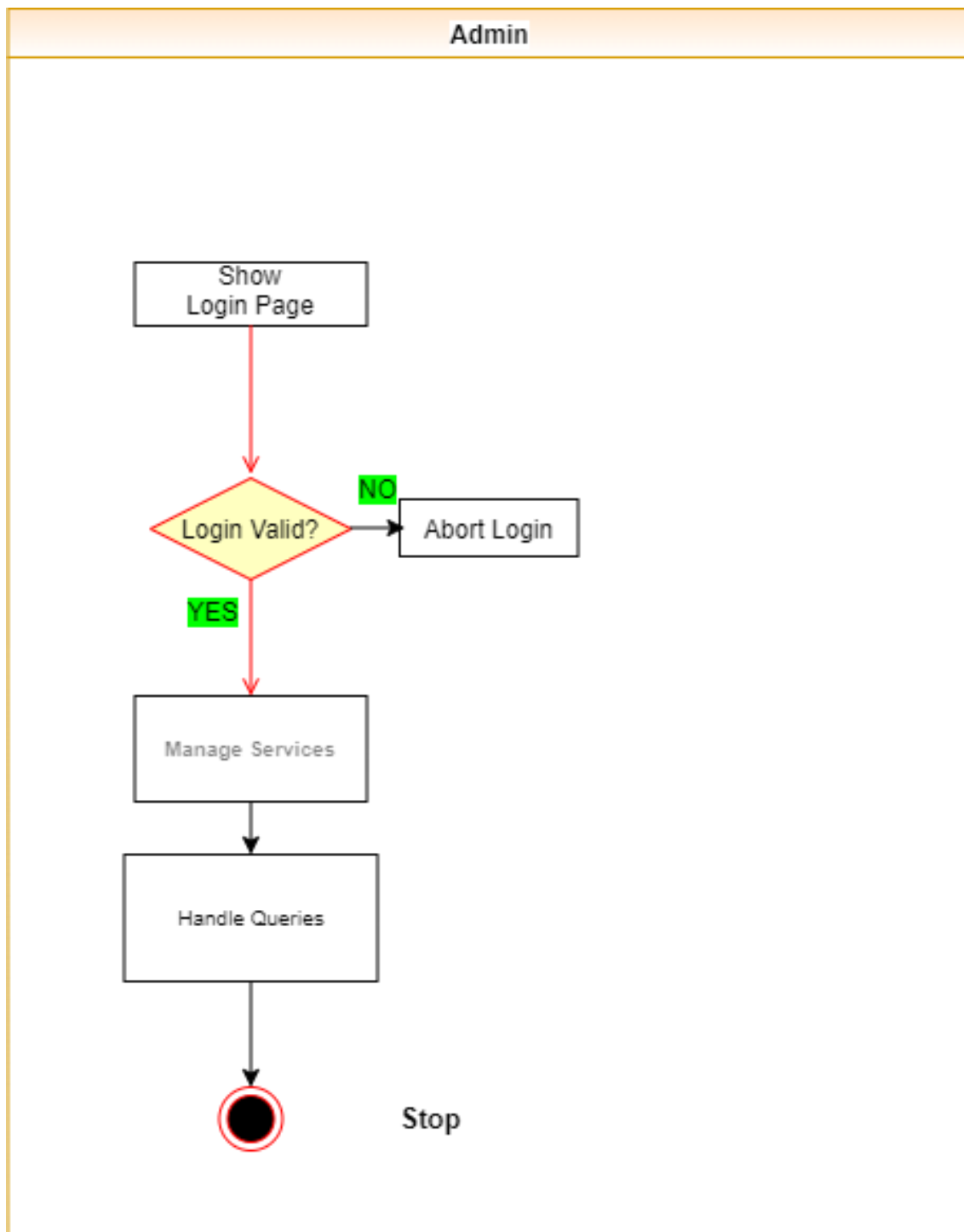
❖ RECEPTIONIST



❖ DOCTOR

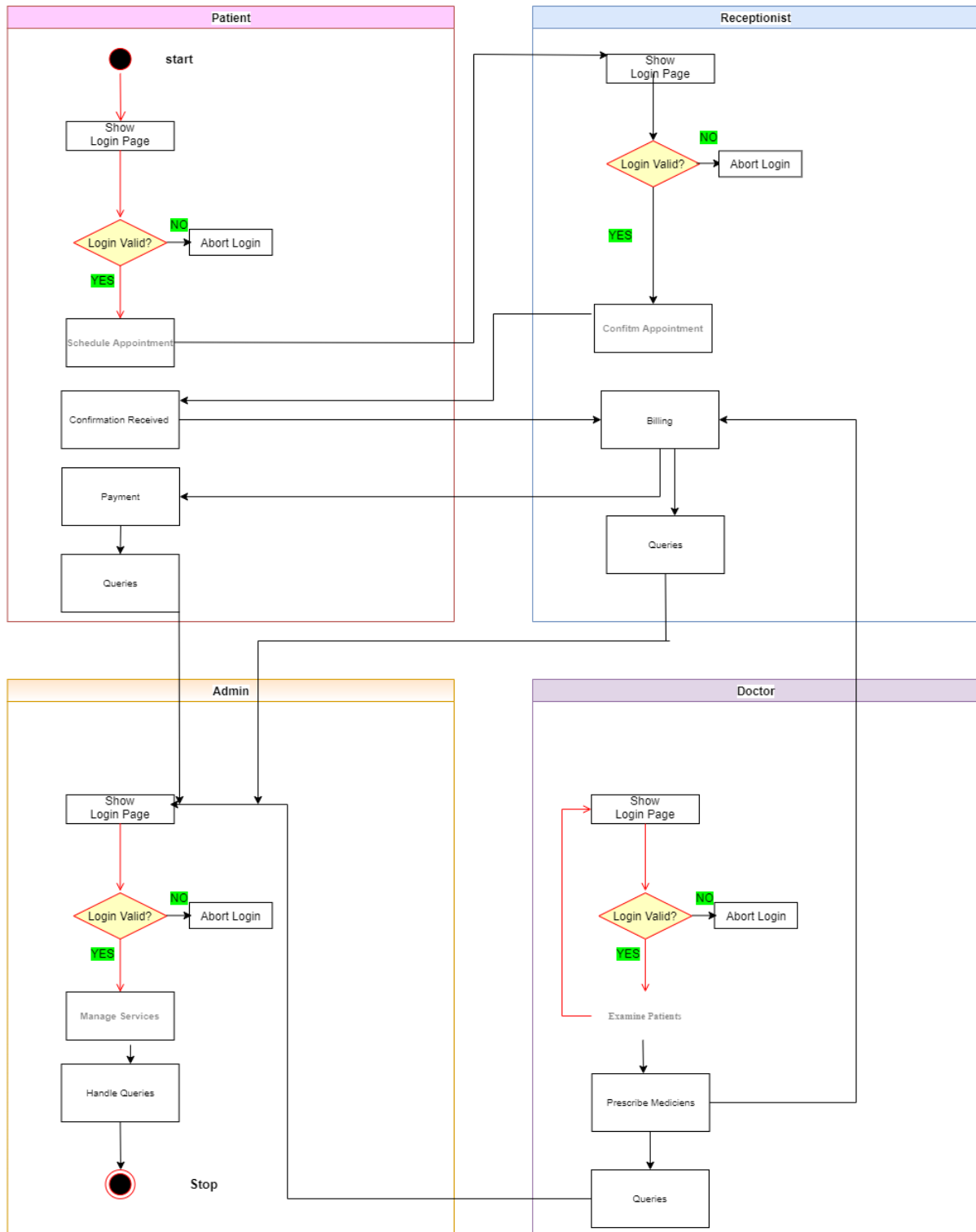


❖ ADMIN



❖ EasyMed - Hospital

EasyMed @ VITAP



➤ 2.4 DFD (Data Flow Diagram):

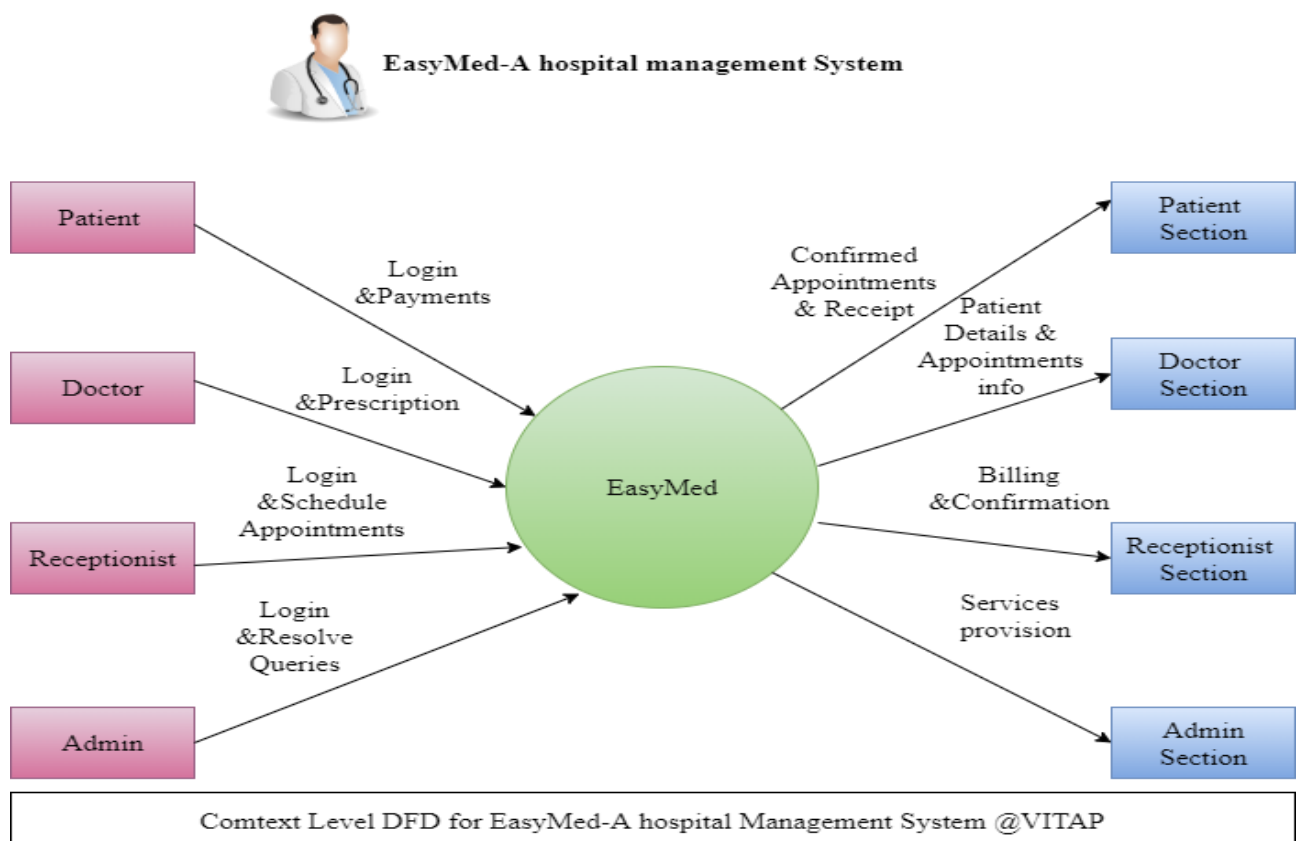
- ✚ The **Data Flow Diagram** enables us to develop models of the information domain and functional domain.
- ✚ As the DFD is refined into greater levels of detail, we perform an implicit functional decomposition of the system.
- ✚ At the same time, the DFD refinement results in a corresponding refinement of data as it moves through the processes that embody the application.

**** The DFD diagram of EasyMed**

– A hospital management System @ VITAP **

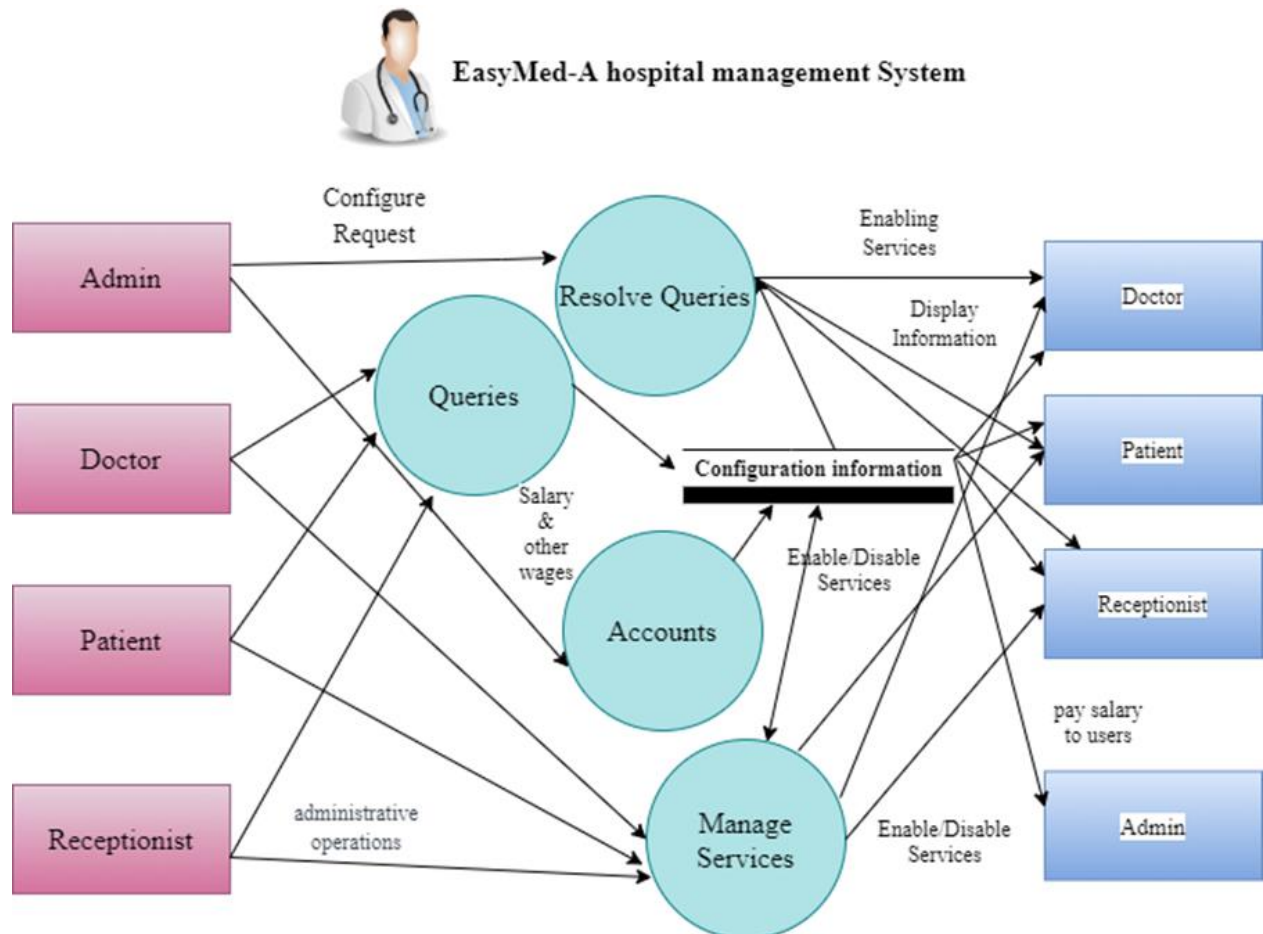
❖ Level-0 DFD (Context diagram) of EasyMed

- Level-0 DFD of Hospital Management System shows how the system is divided into subsystems (processes each of which deals with one or more of the data flows to or from an external agent and which together provide all of the functionality of the Hospital Management System as a whole.



❖ Level-1 Data Flow Diagram of EasyMed

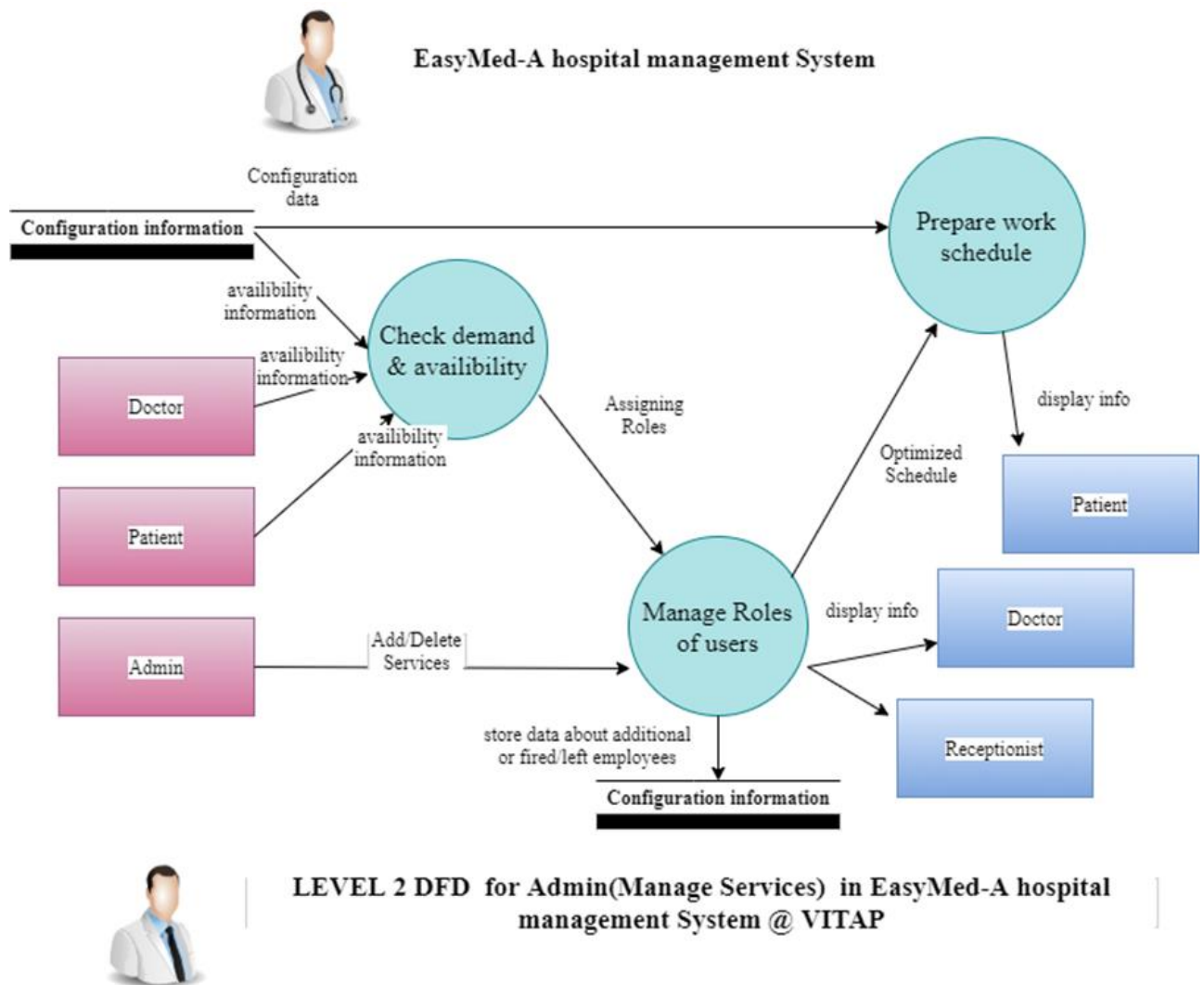
- This level goes deeper into parts of first level.
- Here, we took admin functionalities and went deeper into exploration.



LEVEL 1 DFD for Admin in EasyMed-A hospital management System @ VITAP

❖ Level-2 Data Flow Diagram of EasyMed

- Manage Services from admin functionalities is further drilled in this level.

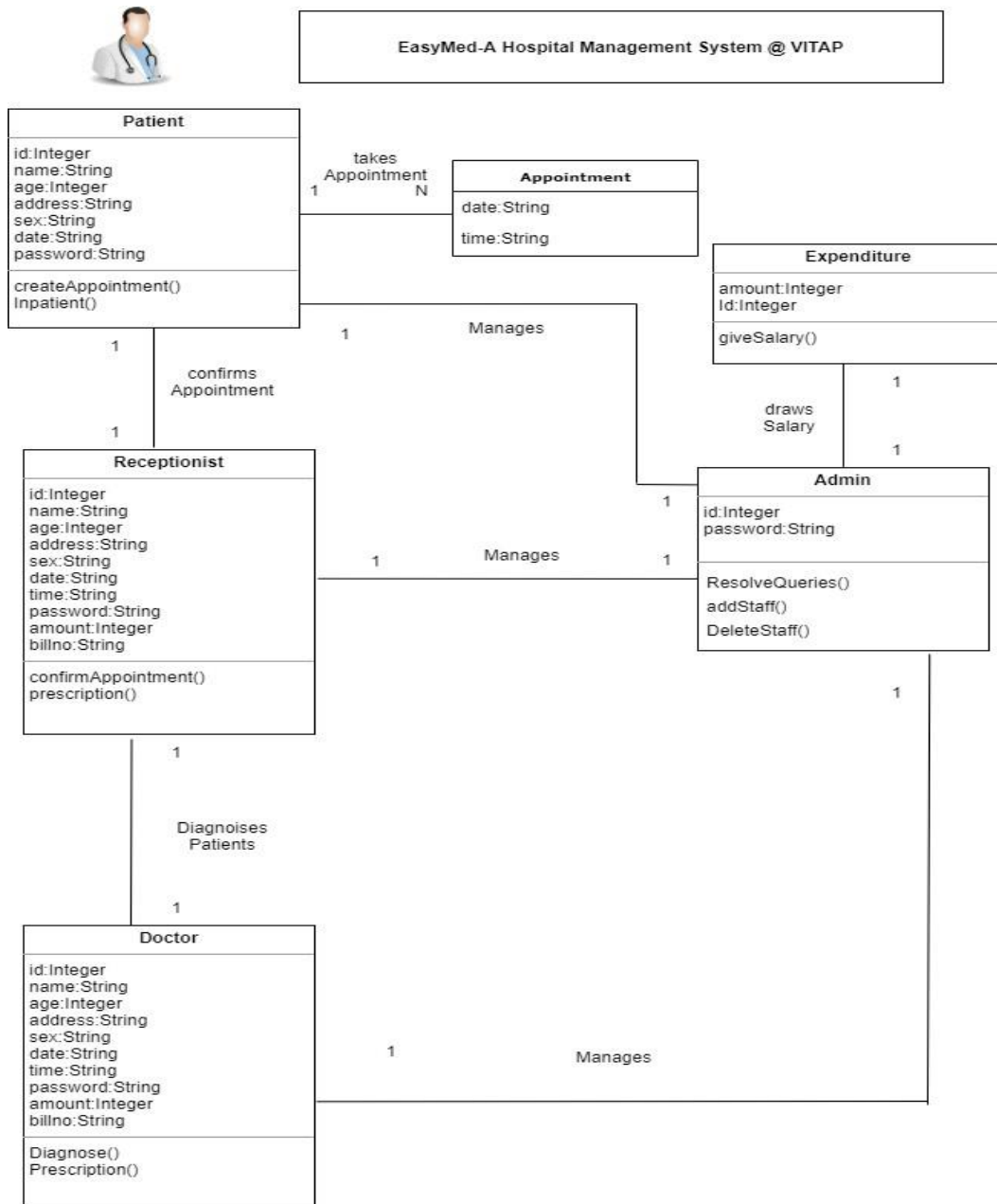


➤ 2.5 Class Diagram:

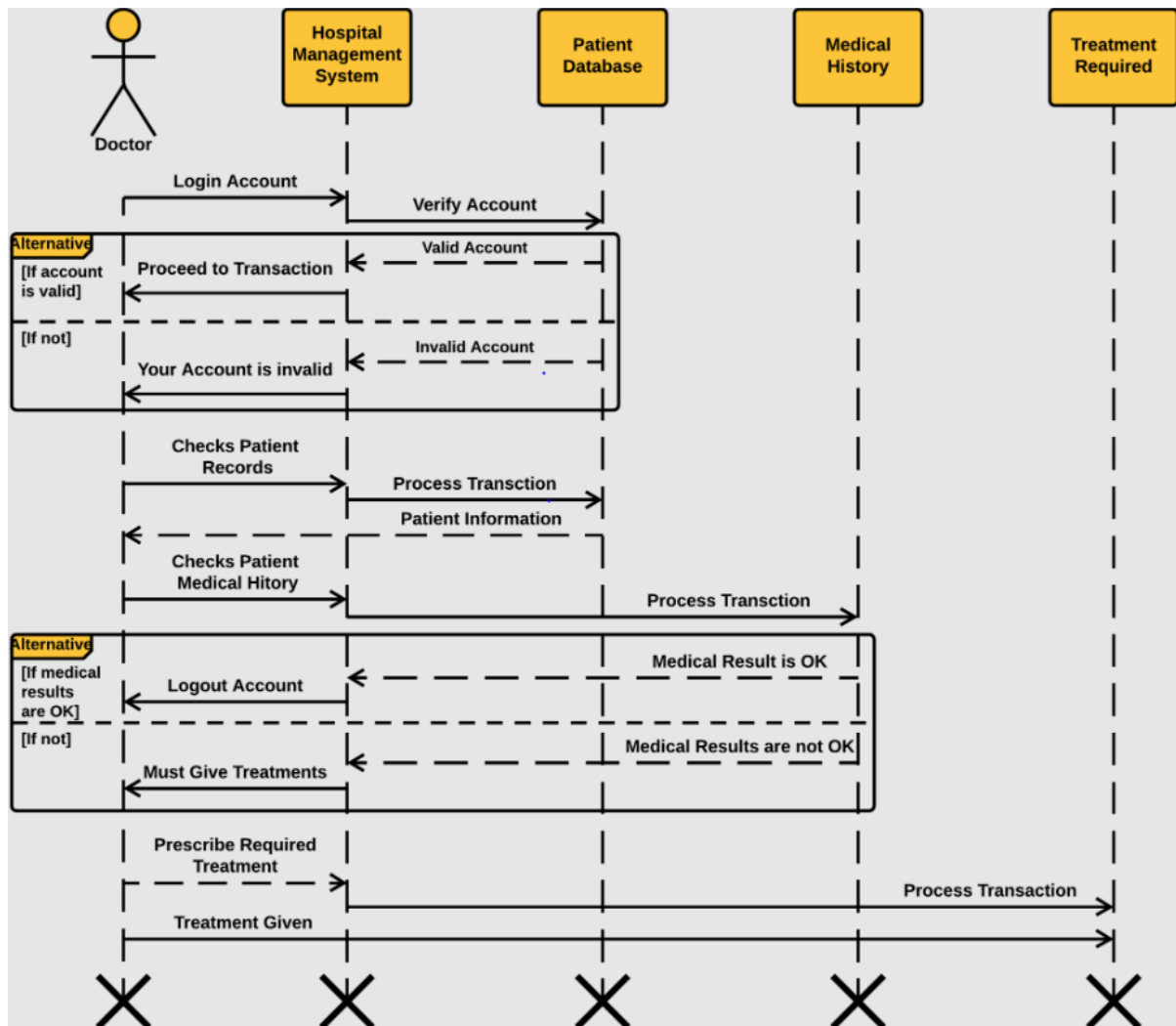
- ✚ Class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing, and documenting different aspects of a system but also for constructing executable code of the software application.
- ✚ Class diagram describes the attributes and operations of a class and also the constraints imposed on the system. The class diagrams are widely used in the modelling of object-oriented systems because they are the only UML diagrams, which can be mapped directly with object-oriented languages.
- ✚ Class diagram shows a collection of classes, interfaces, associations, collaborations, and constraints. It is also known as a structural diagram.

** Class diagram of EasyMed

– A hospital management System @ VITAP **



➤ 2.6 Sequence Diagram:




 **Perform Design and Development of Database Structure for your chosen project:**

3. DEVELOPMENT

3.1 Database Structure

3. DEVELOPMENT :-

➤ **3.1 Database Structure:**

-  The Database consists of 5 tables; patient, doctor, login, receptionist and admin
- The '*patient*' table consists of the basic data about the patient.
 - '*doctor*' consists of the information about doctor.
 - The table '*admin*' consists of the information regarding the staff.
 - '*Receptionist*' consists of data about the scheduling Appointments.
 - Finally, '*login*' table records of user.
 - In this way the entire billing system is integrated within a single database.



Login:

FIELDS	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
User_id	Varchar2	20	Primary key	A unique id that identifies user
Password	Varchar2	10	Not null	Password to the user which enters into home



Patient:

FIELDS	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
Patient_id	Number	2	Primary key	A unique id that identifies patient
Patient_name	Varchar2	20	Not null	Describes names of patient
Age	Integer	3	Not null	Describes age of patient
weight	Integer	3	Not null	Describes Weight of Patient
gender	Varchar2	20	Not null	Mentions gender of patient
Disease	Varchar2	20	Not null	Mention Disease
Disease_Description	Varchar2	100	Not null	Describe disease
Doctor_id	Integer	3	Not null	Describes Assigned doctor
Queries	Varchar2	100	Not null	Describe Queries



Doctor:

FIELDS	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
Doctor_id	Number	20	Primary key	A unique id that identifies Doctor
Doctor_name	Varchar2	20	Not null	Describes names of doctors
Patient_id	Integer	2	Not null	Describe associated patient's id
Disease_history	Varchar2	100	Not null	Describe diseases history associated with patient
Queries	Varchar2	100	Not null	Describe Queries



Admin:

FIELDS	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
staff_id	Number	20	Primary key	A staff id that identifies all users
staff_name	Varchar2	20	Not null	Describes names of staff members
Queries_Resolve	Varchar2	100	Not null	Resolve Queries



Receptionist:

FIELDS	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
patient_id	Number	2	Composite key	A patient id that identifies all patients
Doctor_id	Varchar2	2	Composite Key	A doctor id that identifies all doctors
Schedule	Varchar2	20	Not null	Fix date & time for doctor and patients.
Queries	Varchar2	100	Not null	Describe Queries

- ✚ Perform a demonstration of your chosen and developed project:

4. PROJECT DEMO

4.1 Code

4.2 Screen Shots

4. PROJECT DEMO :-

➤ 4.1 CODE:

❖ CODE for the Database :-

▪ CREATING KEYSPACE:

CREATE KEYSPACE db WITH
replication={'class':'SimpleStrategy','replication_factor':3};

```
cqlsh> CREATE KEYSPACE db WITH replication={'class':'SimpleStrategy','replication_factor':3};
```

DESCRIBE keyspaces;

```
cqlsh> DESCRIBE keyspaces;
```

db	system_auth	system_schema	system_views
system	system_distributed	system_traces	system_virtual_schema

USE db;

```
cqlsh> USE db;
```

- **CREATING & INSERTING INTO ADMIN TABLE:**

```
CREATE TABLE `admintb` (  
  `username` varchar(50) NOT NULL,  
  `password` varchar(30) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
--
```

```
-- Dumping data for table `admintb`
```

```
--
```

```
INSERT INTO `admintb` (`username`, `password`) VALUES  
('admin', 'admin123');
```

```
-- -----
```

```
--
```

```
-- Table structure for table `appointmenttb`
```

```
--
```

- **CREATING & INSERTING INTO APPOINTMENT TABLE:**

```
CREATE TABLE `appointmenttb` (  
  `pid` int(11) NOT NULL,  
  `ID` int(11) NOT NULL,  
  `fname` varchar(20) NOT NULL,  
  `lname` varchar(20) NOT NULL,  
  `gender` varchar(10) NOT NULL,
```

```
`email` varchar(30) NOT NULL,  
`contact` varchar(10) NOT NULL,  
`doctor` varchar(30) NOT NULL,  
`docFees` int(5) NOT NULL,  
`appdate` date NOT NULL,  
`apptime` time NOT NULL,  
`userStatus` int(5) NOT NULL,  
`doctorStatus` int(5) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

--

-- Dumping data for table `appointmenttb`

--

```
INSERT INTO `appointmenttb` (`pid`, `ID`, `fname`, `lname`, `gender`,  
`email`, `contact`, `doctor`, `docFees`, `appdate`, `apptime`, `userStatus`,  
`doctorStatus`) VALUES
```

```
(4, 1, 'Kishan', 'Lal', 'Male', 'kishansmart0@gmail.com', '8838489464', 'Ganesh',  
550, '2020-02-14', '10:00:00', 1, 0),
```

```
(4, 2, 'Kishan', 'Lal', 'Male', 'kishansmart0@gmail.com', '8838489464', 'Dinesh',  
700, '2020-02-28', '10:00:00', 0, 1),
```

```
(4, 3, 'Kishan', 'Lal', 'Male', 'kishansmart0@gmail.com', '8838489464', 'Amit',  
1000, '2020-02-19', '03:00:00', 0, 1),
```

```
(11, 4, 'Shraddha', 'Kapoor', 'Female', 'shraddha@gmail.com', '9768946252',  
'ashok', 500, '2020-02-29', '20:00:00', 1, 1),
```

```
(4, 5, 'Kishan', 'Lal', 'Male', 'kishansmart0@gmail.com', '8838489464', 'Dinesh',  
700, '2020-02-28', '12:00:00', 1, 1),
```

```
(4, 6, 'Kishan', 'Lal', 'Male', 'kishansmart0@gmail.com', '8838489464', 'Ganesh',  
550, '2020-02-26', '15:00:00', 0, 1),
```

```
(2, 8, 'Alia', 'Bhatt', 'Female', 'alia@gmail.com', '8976897689', 'Ganesh', 550,
'2020-03-21', '10:00:00', 1, 1),

(5, 9, 'Gautam', 'Shankararam', 'Male', 'gautam@gmail.com', '9070897653',
'Ganesh', 550, '2020-03-19', '20:00:00', 1, 0),

(4, 10, 'Kishan', 'Lal', 'Male', 'kishansmart0@gmail.com', '8838489464',
'Ganesh', 550, '0000-00-00', '14:00:00', 1, 0),

(4, 11, 'Kishan', 'Lal', 'Male', 'kishansmart0@gmail.com', '8838489464',
'Dinesh', 700, '2020-03-27', '15:00:00', 1, 1),

(9, 12, 'William', 'Blake', 'Male', 'william@gmail.com', '8683619153', 'Kumar',
800, '2020-03-26', '12:00:00', 1, 1),

(9, 13, 'William', 'Blake', 'Male', 'william@gmail.com', '8683619153', 'Tiwary',
450, '2020-03-26', '14:00:00', 1, 1);
```

-- -----

■ CREATING & INSERTING INTO CONTACT TABLE:

--

-- Table structure for table `contact`

--

```
CREATE TABLE `contact` (
  `name` varchar(30) NOT NULL,
  `email` text NOT NULL,
  `contact` varchar(10) NOT NULL,
  `message` varchar(200) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

--

-- Dumping data for table `contact`

--

```
INSERT INTO `contact` (`name`, `email`, `contact`, `message`) VALUES
('Anu', 'anu@gmail.com', '7896677554', 'Hey Admin'),
(' Viki', 'viki@gmail.com', '9899778865', 'Good Job, Pal'),
('Ananya', 'ananya@gmail.com', '9997888879', 'How can I reach you?'),
('Aakash', 'aakash@gmail.com', '8788979967', 'Love your site'),
('Mani', 'mani@gmail.com', '8977768978', 'Want some coffee?'),
('Karthick', 'karthi@gmail.com', '9898989898', 'Good service'),
('Abbis', 'abbis@gmail.com', '8979776868', 'Love your service'),
('Asiq', 'asiq@gmail.com', '9087897564', 'Love your service. Thank you!'),
('Jane', 'jane@gmail.com', '7869869757', 'I love your service!');
```

-- -----

■ CREATING & INSERTING INTO DOCTOR TABLE:

--

-- Table structure for table `doctb`

--

```
CREATE TABLE `doctb` (
  `username` varchar(50) NOT NULL,
  `password` varchar(50) NOT NULL,
  `email` varchar(50) NOT NULL,
  `spec` varchar(50) NOT NULL,
  `docFees` int(10) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

--

-- Dumping data for table `doctb`

--

```
INSERT INTO `doctb` (`username`, `password`, `email`, `spec`, `docFees`)
VALUES
```

```
('ashok', 'ashok123', 'ashok@gmail.com', 'General', 500),
```

```
('arun', 'arun123', 'arun@gmail.com', 'Cardiologist', 600),
```

```
('Dinesh', 'dinesh123', 'dinesh@gmail.com', 'General', 700),
```

```
('Ganesh', 'ganesh123', 'ganesh@gmail.com', 'Pediatrician', 550),
```

```
('Kumar', 'kumar123', 'kumar@gmail.com', 'Pediatrician', 800),
```

```
('Amit', 'amit123', 'amit@gmail.com', 'Cardiologist', 1000),
```

```
('Abbis', 'abbis123', 'abbis@gmail.com', 'Neurologist', 1500),
```

```
('Tiwary', 'tiwary123', 'tiwary@gmail.com', 'Pediatrician', 450);
```

■ CREATING & INSERTING INTO PATIENT TABLE:

--

-- Table structure for table `patreg`

--

```
CREATE TABLE `patreg` (
```

```
  `pid` int(11) NOT NULL,
```

```
  `fname` varchar(20) NOT NULL,
```

```
  `lname` varchar(20) NOT NULL,
```

```
  `gender` varchar(10) NOT NULL,
```

```
`email` varchar(30) NOT NULL,  
`contact` varchar(10) NOT NULL,  
`password` varchar(30) NOT NULL,  
`cpassword` varchar(30) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
--
```

```
-- Dumping data for table `patreg`
```

```
--
```

```
INSERT INTO `patreg` (`pid`, `fname`, `lname`, `gender`, `email`, `contact`,  
`password`, `cpassword`) VALUES
```

```
(1, 'Ram', 'Kumar', 'Male', 'ram@gmail.com', '9876543210', 'ram123', 'ram123'),
```

```
(2, 'Alia', 'Bhatt', 'Female', 'alia@gmail.com', '8976897689', 'alia123', 'alia123'),
```

```
(3, 'Shahrukh', 'khan', 'Male', 'shahrukh@gmail.com', '8976898463',  
'shahrukh123', 'shahrukh123'),
```

```
(4, 'Kishan', 'Lal', 'Male', 'kishansmart0@gmail.com', '8838489464', 'kishan123',  
'kishan123'),
```

```
(5, 'Gautam', 'Shankararam', 'Male', 'gautam@gmail.com', '9070897653',  
'gautam123', 'gautam123'),
```

```
(6, 'Sushant', 'Singh', 'Male', 'sushant@gmail.com', '9059986865', 'sushant123',  
'sushant123'),
```

```
(7, 'Nancy', 'Deborah', 'Female', 'nancy@gmail.com', '9128972454', 'nancy123',  
'nancy123'),
```

```
(8, 'Kenny', 'Sebastian', 'Male', 'kenny@gmail.com', '9809879868', 'kenny123',  
'kenny123'),
```

```
(9, 'William', 'Blake', 'Male', 'william@gmail.com', '8683619153', 'william123',  
'william123'),
```

```
(10, 'Peter', 'Norvig', 'Male', 'peter@gmail.com', '9609362815', 'peter123',  
'peter123'),
```

```
(11, 'Shraddha', 'Kapoor', 'Female', 'shraddha@gmail.com', '9768946252',  
'shraddha123', 'shraddha123');
```

■ CREATING & INSERTING INTO PRESCRIPTION TABLE:

--

-- Table structure for table `prestb`

--

```
CREATE TABLE `prestb` (  
  `doctor` varchar(50) NOT NULL,  
  `pid` int(11) NOT NULL,  
  `ID` int(11) NOT NULL,  
  `fname` varchar(50) NOT NULL,  
  `lname` varchar(50) NOT NULL,  
  `appdate` date NOT NULL,  
  `apptime` time NOT NULL,  
  `disease` varchar(250) NOT NULL,  
  `allergy` varchar(250) NOT NULL,  
  `prescription` varchar(1000) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

--

-- Dumping data for table `prestb`

--

```
INSERT INTO `prestb` (`doctor`, `pid`, `ID`, `fname`, `lname`, `apptime`,  
`apptime`, `disease`, `allergy`, `prescription`) VALUES
```

```
('Dinesh', 4, 11, 'Kishan', 'Lal', '2020-03-27', '15:00:00', 'Cough', 'Nothing', 'Just  
take a teaspoon of Benadryl every night'),
```

```
('Ganesh', 2, 8, 'Alia', 'Bhatt', '2020-03-21', '10:00:00', 'Severe Fever', 'Nothing',  
'Take bed rest'),
```

```
('Kumar', 9, 12, 'William', 'Blake', '2020-03-26', '12:00:00', 'Sever fever',  
'nothing', 'Paracetamol -> 1 every morning and night'),
```

```
('Tiwary', 9, 13, 'William', 'Blake', '2020-03-26', '14:00:00', 'Cough', 'Skin  
dryness', 'Intake fruits with more water content');
```

■ INDEXING:

```
--
```

```
-- Indexes for dumped tables
```

```
--
```

```
--
```

```
-- Indexes for table `appointmenttb`
```

```
--
```

```
ALTER TABLE `appointmenttb`
```

```
ADD PRIMARY KEY (`ID`);
```

```
--
```

```
-- Indexes for table `patreg`
```

```
--
```

```
ALTER TABLE `patreg`
```

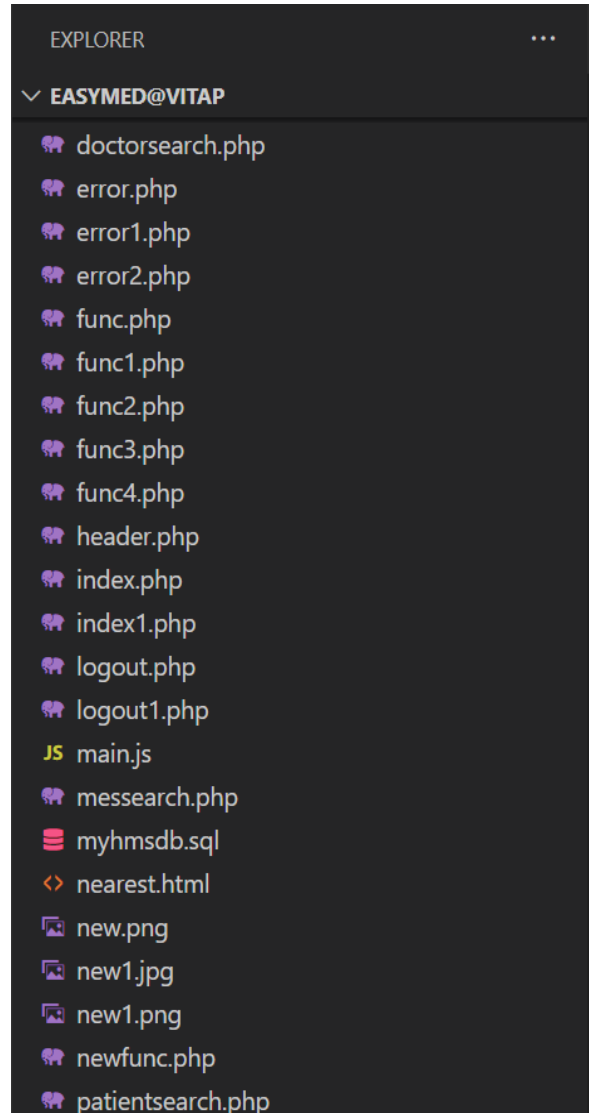
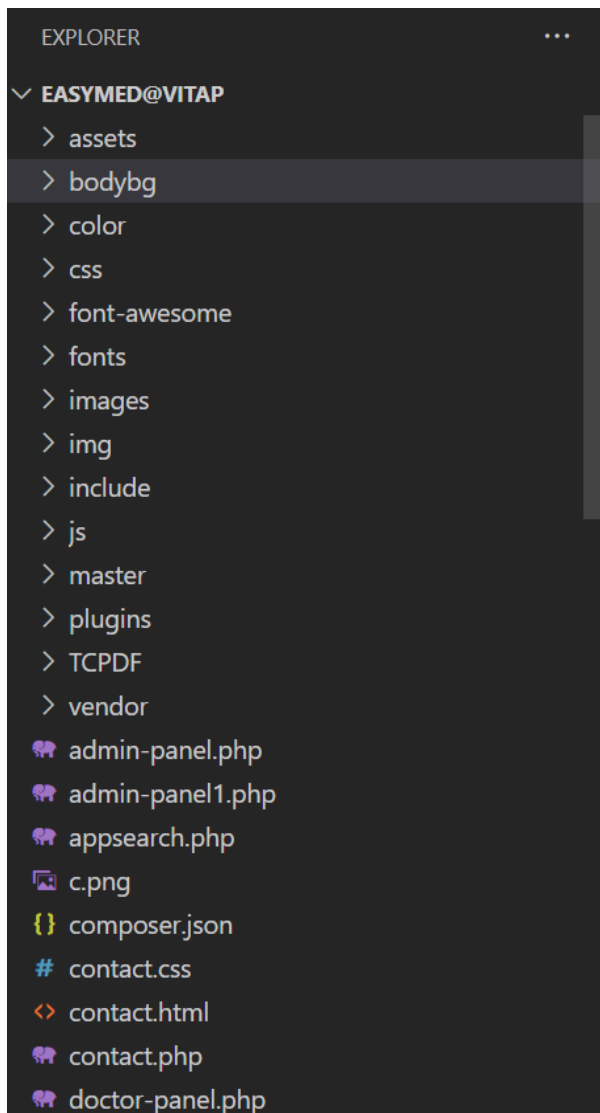
```
ADD PRIMARY KEY (`pid`);
```

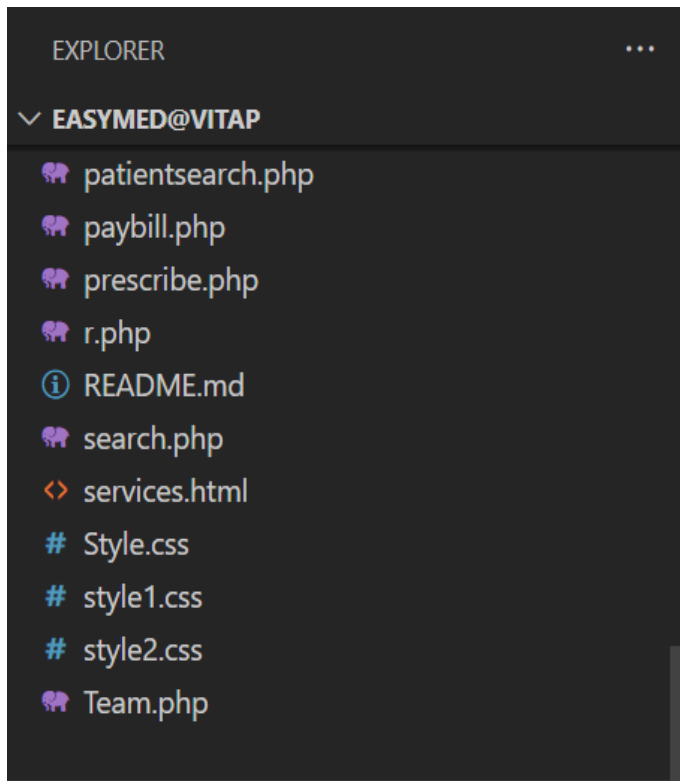
```
--  
-- AUTO_INCREMENT for dumped tables  
--  
  
--  
-- AUTO_INCREMENT for table `appointmenttb`  
--  
ALTER TABLE `appointmenttb`  
  MODIFY `ID` int(11) NOT NULL AUTO_INCREMENT,  
  AUTO_INCREMENT=14;  
  
--  
-- AUTO_INCREMENT for table `patreg`  
--  
ALTER TABLE `patreg`  
  MODIFY `pid` int(11) NOT NULL AUTO_INCREMENT,  
  AUTO_INCREMENT=12;  
COMMIT;  
  
/!*!40101 SET  
CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;  
/!*!40101 SET  
CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;  
/!*!40101 SET  
COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

➤ 4.2 Screen shots:

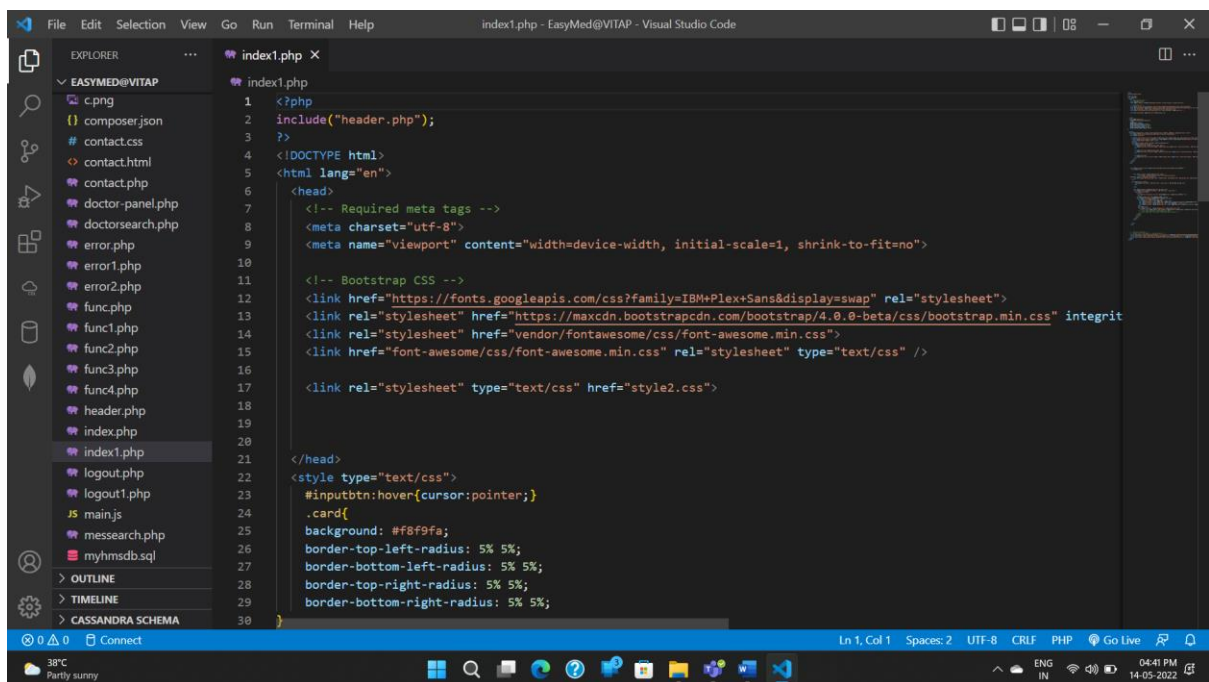
❖ Screen shots of CODE :-

EasyMed@VITAP :-

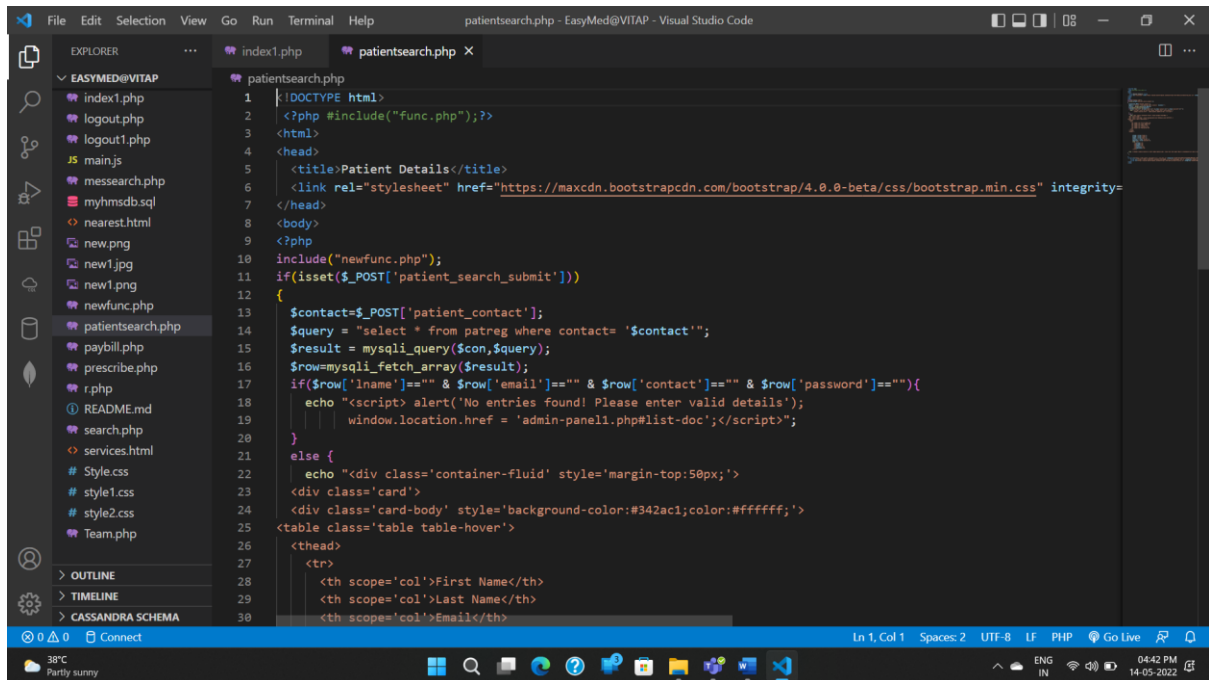




Login Page :-

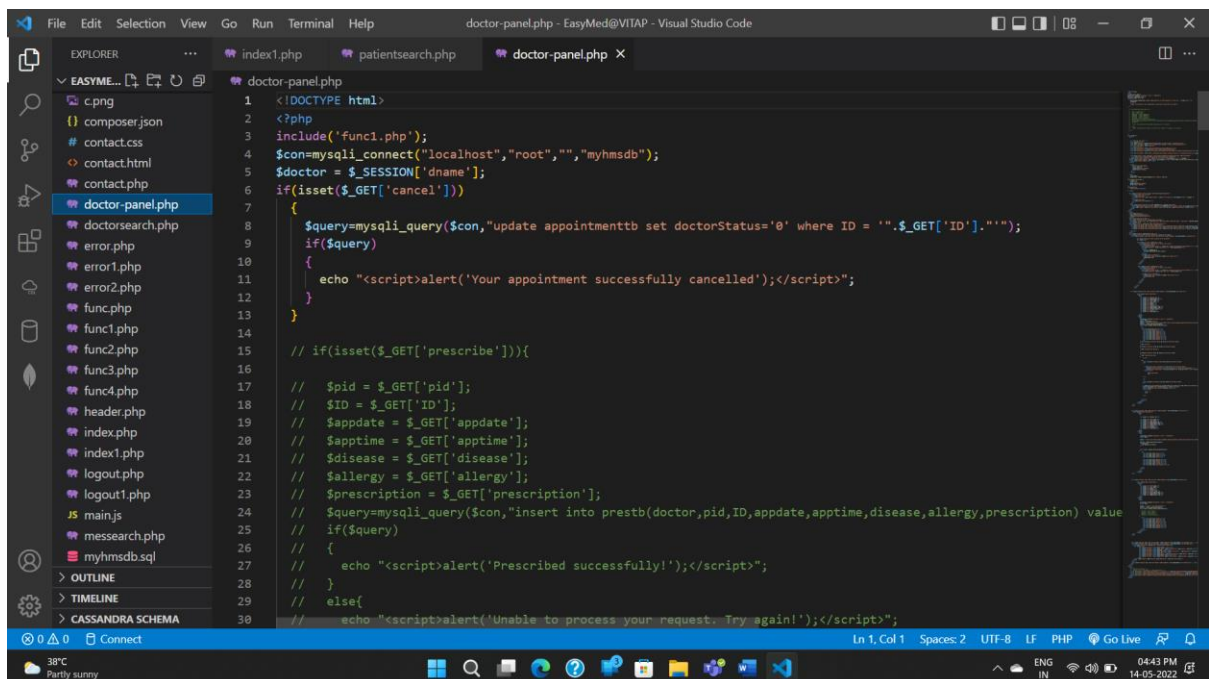


Patient :-



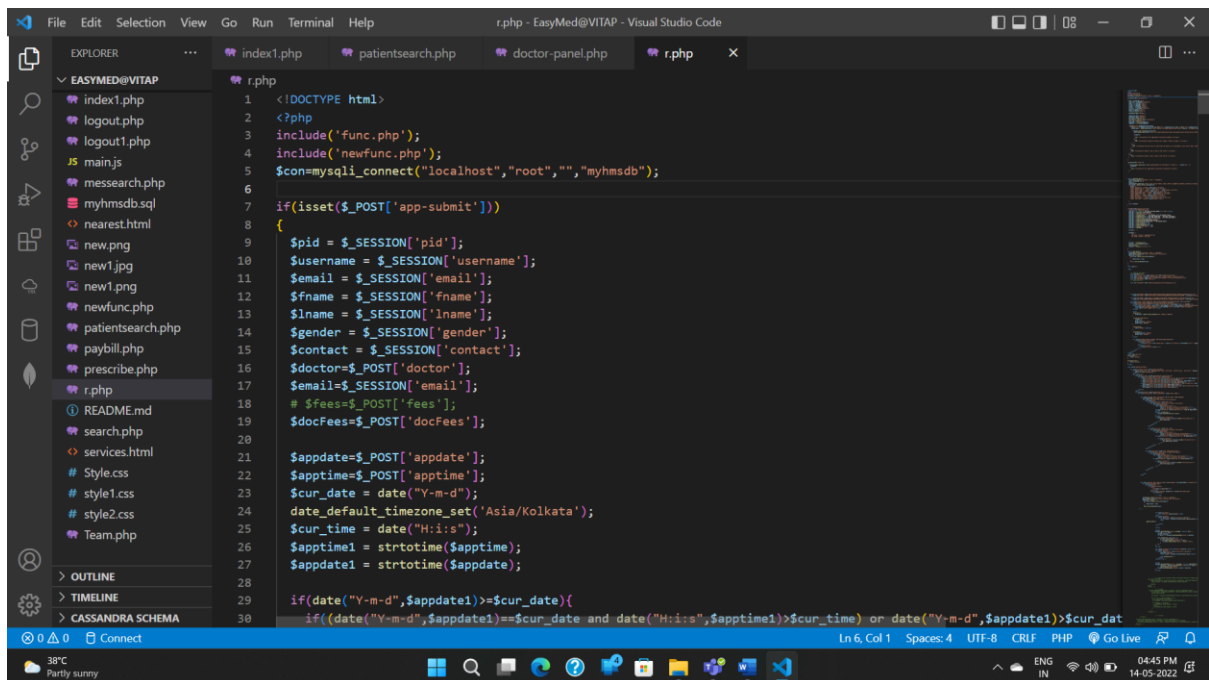
```
1 <!DOCTYPE html>
2 <?php #include("func.php");?>
3 <html>
4 <head>
5 <title>Patient Details</title>
6 <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/css/bootstrap.min.css" integrity=
7 </head>
8 <body>
9 <?php
10 include("newfunc.php");
11 if(isset($_POST['patient_search_submit']))
12 {
13     $contact=$_POST['patient_contact'];
14     $query = "select * from patreg where contact= '$contact'";
15     $result = mysqli_query($con,$query);
16     $row=mysqli_fetch_array($result);
17     if($row['lname']=="" & $row['email']=="" & $row['contact']=="" & $row['password']==""){
18         echo "<script> alert('No entries found! Please enter valid details');
19         window.location.href = 'admin-panell.php#list-doc';</script>";
20     }
21     else {
22         echo "<div class='container-fluid' style='margin-top:50px;'>
23         <div class='card'>
24         <div class='card-body' style='background-color:#342ae1;color:#ffffff;'>
25         <table class='table table-hover'>
26         <thead>
27         <tr>
28         <th scope='col'>First Name</th>
29         <th scope='col'>Last Name</th>
30         <th scope='col'>Email</th>
```

Doctor :-



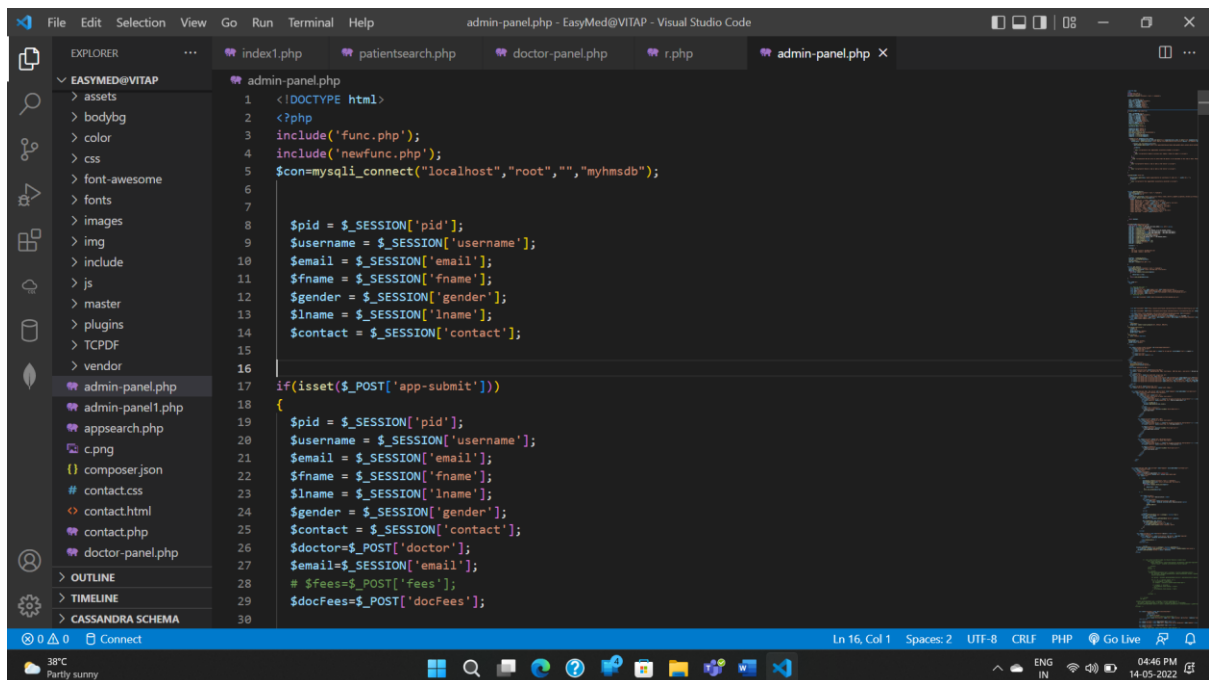
```
1 <!DOCTYPE html>
2 <?php
3 include('func1.php');
4 $con=mysqli_connect("localhost","root","","myhmsdb");
5 $doctor = $_SESSION['dname'];
6 if(isset($_GET['cancel']))
7 {
8     $query=mysqli_query($con,"update appointmenttb set doctorStatus='0' where ID = '".$_GET['ID']."'");
9     if($query)
10     {
11         echo "<script>alert('Your appointment successfully cancelled');</script>";
12     }
13 }
14 // if(isset($_GET['prescribe']))
15 {
16     // $pid = $_GET['pid'];
17     // $ID = $_GET['ID'];
18     // $appdate = $_GET['appdate'];
19     // $apptime = $_GET['apptime'];
20     // $disease = $_GET['disease'];
21     // $allergy = $_GET['allergy'];
22     // $prescription = $_GET['prescription'];
23     // $query=mysqli_query($con,"insert into prestb(doctor,pid,ID,appdate,apptime,disease,allergy,prescription) value
24     // if($query)
25     // {
26     //     echo "<script>alert('Prescribed successfully!');</script>";
27     // }
28     // else{
29     //     echo "<script>alert('Unable to process your request. Try again!');</script>";
30     // }
```

Reception :-



```
1 <!DOCTYPE html>
2 <?php
3 include('func.php');
4 include('newfunc.php');
5 $con=mysqli_connect("localhost","root","","myhmsdb");
6
7 if(isset($_POST['app-submit']))
8 {
9     $pid = $_SESSION['pid'];
10    $username = $_SESSION['username'];
11    $email = $_SESSION['email'];
12    $fname = $_SESSION['fname'];
13    $lname = $_SESSION['lname'];
14    $gender = $_SESSION['gender'];
15    $contact = $_SESSION['contact'];
16    $doctor=$_POST['doctor'];
17    $email=$_SESSION['email'];
18    # $fees=$_POST['fees'];
19    $docFees=$_POST['docFees'];
20
21    $appdate=$_POST['appdate'];
22    $apptime=$_POST['apptime'];
23    $cur_date = date("Y-m-d");
24    date_default_timezone_set('Asia/Kolkata');
25    $cur_time = date("H:i:s");
26    $apptime1 = strtotime($apptime);
27    $appdate1 = strtotime($appdate);
28
29    if(date("Y-m-d",$appdate1)==$cur_date){
30        if((date("Y-m-d",$appdate1)==$cur_date and date("H:i:s",$apptime1)>$cur_time) or date("Y-m-d",$appdate1)>$cur_date
```

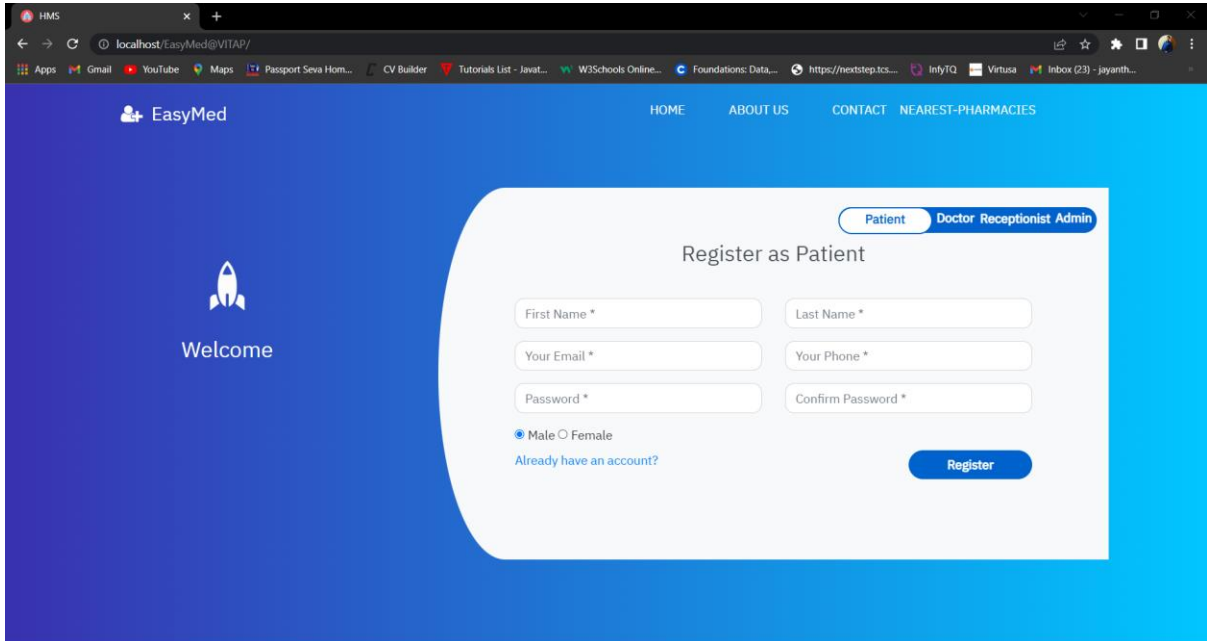
Admin :-



```
1 <!DOCTYPE html>
2 <?php
3 include('func.php');
4 include('newfunc.php');
5 $con=mysqli_connect("localhost","root","","myhmsdb");
6
7
8 $pid = $_SESSION['pid'];
9 $username = $_SESSION['username'];
10 $email = $_SESSION['email'];
11 $fname = $_SESSION['fname'];
12 $gender = $_SESSION['gender'];
13 $lname = $_SESSION['lname'];
14 $contact = $_SESSION['contact'];
15
16
17 if(isset($_POST['app-submit']))
18 {
19     $pid = $_SESSION['pid'];
20     $username = $_SESSION['username'];
21     $email = $_SESSION['email'];
22     $fname = $_SESSION['fname'];
23     $lname = $_SESSION['lname'];
24     $gender = $_SESSION['gender'];
25     $contact = $_SESSION['contact'];
26     $doctor=$_POST['doctor'];
27     $email=$_SESSION['email'];
28     # $fees=$_POST['fees'];
29     $docFees=$_POST['docFees'];
30
```

❖ Screen shots of WEBSITE :-

Patient Registration :-



The screenshot shows the EasyMed website's patient registration form. The form is titled "Register as Patient" and includes tabs for "Patient", "Doctor", "Receptionist", and "Admin". The form fields are: First Name *, Last Name *, Your Email *, Your Phone *, Password *, and Confirm Password *. There are radio buttons for "Male" (selected) and "Female". A link "Already have an account?" is present. A "Register" button is at the bottom right. The background is a blue gradient with a rocket icon and the word "Welcome".

EasyMed

HOME ABOUT US CONTACT NEAREST-PHARMACIES

Register as Patient

First Name * Last Name *

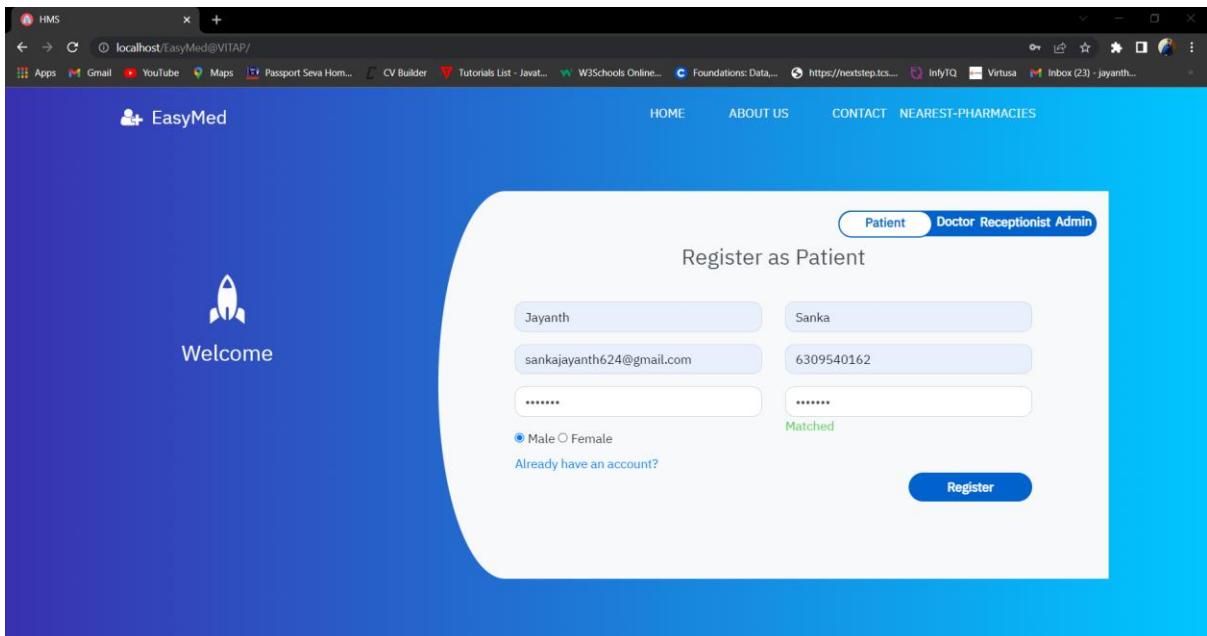
Your Email * Your Phone *

Password * Confirm Password *

☒ Male ☐ Female

[Already have an account?](#)

Register



The screenshot shows the EasyMed website's patient registration form with the following data entered: First Name: Jayanth, Last Name: Sanka, Email: sankajayanth624@gmail.com, Phone: 6309540162, Password: *****, Confirm Password: *****, and Gender: Male. A green "Matched" message is displayed next to the password fields. The "Register" button is at the bottom right. The background is a blue gradient with a rocket icon and the word "Welcome".

EasyMed

HOME ABOUT US CONTACT NEAREST-PHARMACIES

Register as Patient

Jayanth Sanka

sankajayanth624@gmail.com 6309540162

***** *****

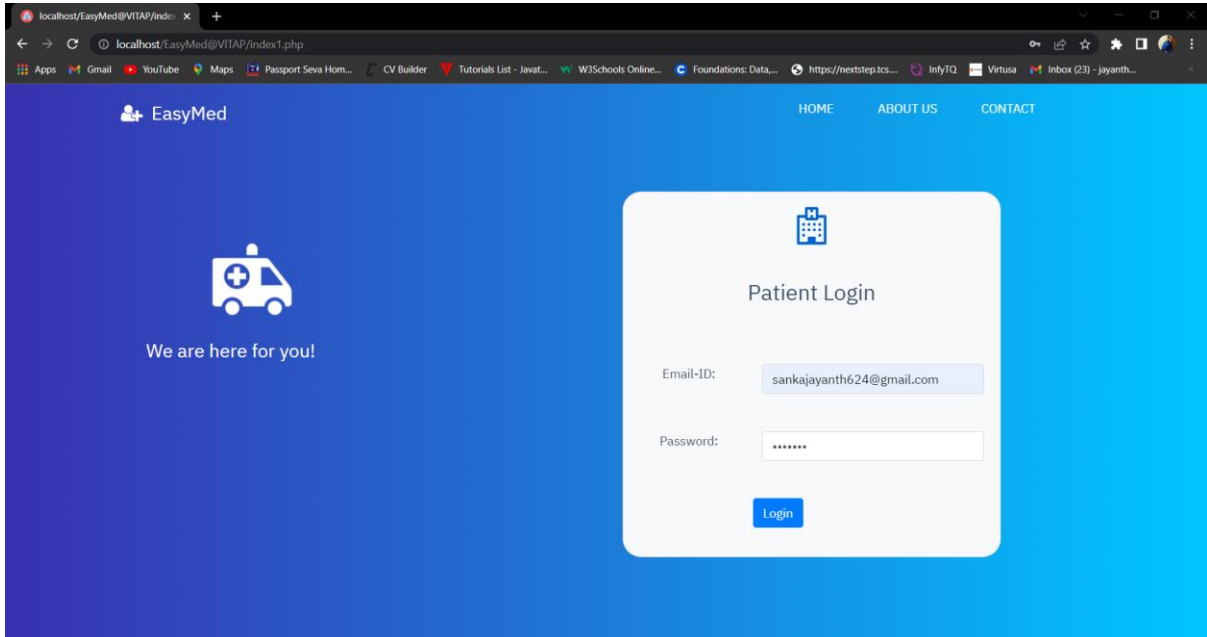
☒ Male ☐ Female

[Already have an account?](#)

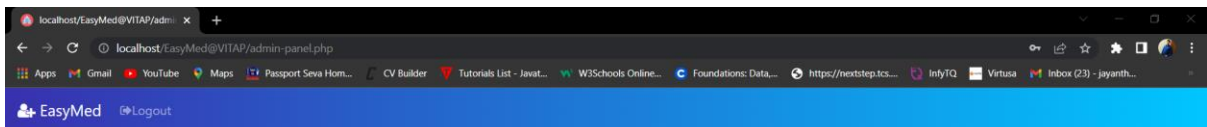
Matched

Register

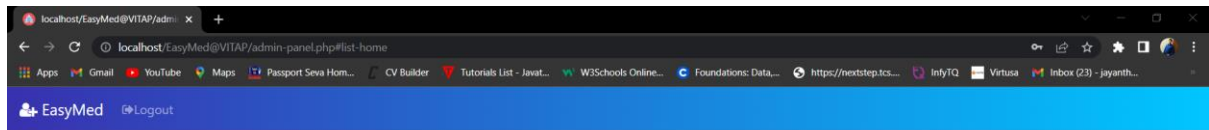
Patient Login :-



The screenshot shows the EasyMed Patient Login page. The page has a blue gradient background. On the left, there is a white ambulance icon and the text "We are here for you!". On the right, there is a white login box with a blue hospital icon at the top. Inside the box, the text "Patient Login" is displayed. Below this, there are two input fields: "Email-ID:" with the value "sankajayanth624@gmail.com" and "Password:" with a masked password "*****". A blue "Login" button is at the bottom of the box. The browser's address bar shows "localhost/EasyMed@VITAP/index1.php".



The screenshot shows the EasyMed Admin Panel. The page has a blue gradient background. At the top, there is a white "Logout" button. Below this, the text "Welcome Jayanth Sanka" is displayed. On the left, there is a white sidebar with a blue header "Dashboard". Inside the sidebar, there are three links: "Book Appointment", "Appointment History", and "Prescriptions". On the right, there are three main sections: "Book My Appointment" with a blue icon and a link "Book Appointment", "My Appointments" with a blue icon and a link "View Appointment History", and "Prescriptions" with a blue icon and a link "View Prescription List". The browser's address bar shows "localhost/EasyMed@VITAP/admin-panel.php".



Welcome Jayanth Sanka

Dashboard

Book Appointment

Appointment History

Prescriptions

Create an appointment

Specialization:

General

Doctors:

ashok

Consultancy Fees

500

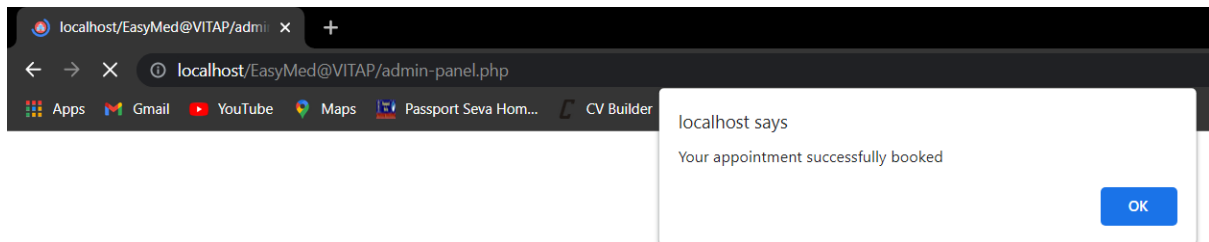
Appointment Date

17-05-2022

Appointment Time

10:00 AM

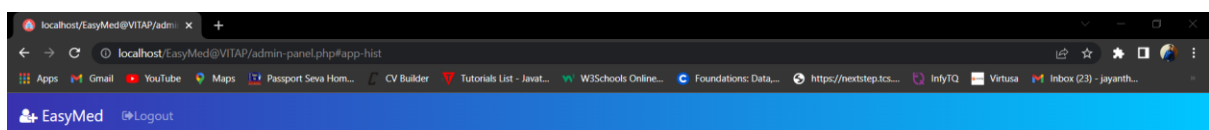
Create new entry



localhost says

Your appointment successfully booked

OK



Welcome Jayanth Sanka

Dashboard	Doctor Name	Consultancy Fees	Appointment Date	Appointment Time	Current Status	Action
Book Appointment	ashok	500	2022-05-17	10:00:00	Active	<button>Cancel</button>
Appointment History						
Prescriptions						

Doctor Login :-

EasyMed

HOME ABOUT US CONTACT NEAREST-PHARMACIES

Welcome

Patient Doctor Receptionist Admin

Login as Doctor

Ashok

Login

EasyMed Logout

Enter contact number Search

Welcome ashok

Dashboard

Appointments

Prescription List

View Appointments

Appointment List

Prescriptions

Prescription List

EasyMed Logout

Enter contact number Search

Welcome ashok

Patient ID	Appointment ID	First Name	Last Name	Gender	Email	Contact	Appointment Date	Appointment Time	Current Status	Action	Prescribe
11	4	Shraddha	Kapoor	Female	shraddha@gmail.com	9768946252	2020-02-29	20:00:00	Cancelled by You	Cancelled	-
14	15	Jayanth	Sanka	Male	sankajayanth624@gmail.com	6309540162	2022-05-17	10:00:00	Active	Cancel	Prescribe

localhost/EasyMed@VITAP/prescribe.php?pid=14&ID=15&fname=Jayanth&lname=Sanka&apptime=2022-05-17&apptime=10:00:00

EasyMed Logout Back

Welcome ashok

Disease: Cold and Cough

Allergies: No

Prescription: Coldarin

Prescribe

localhost says

Prescribed successfully!

OK

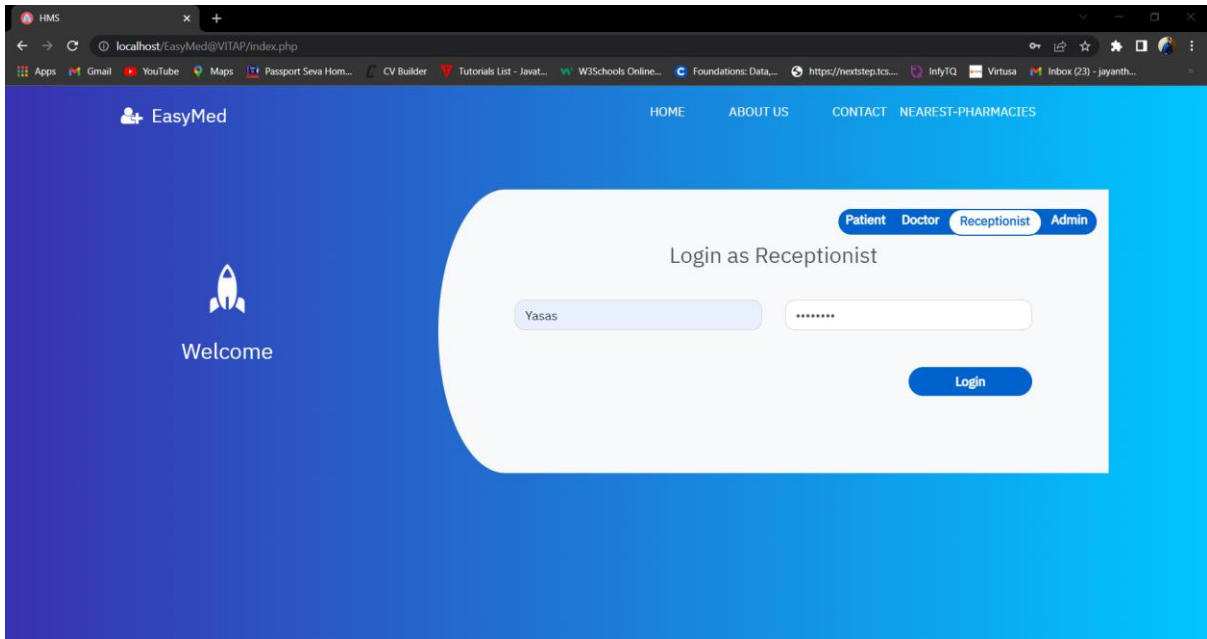
localhost/EasyMed@VITAP/doctor-panel.php

EasyMed Logout Enter contact number Search

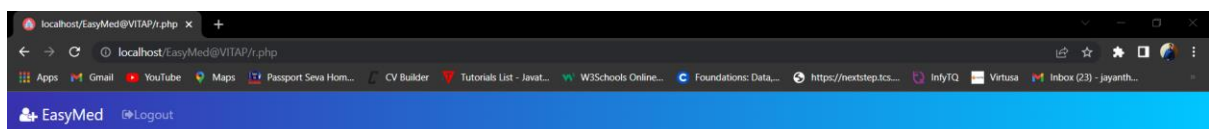
Welcome ashok

Dashboard	Patient ID	First Name	Last Name	Appointment ID	Appointment Date	Appointment Time	Disease	Allergy	Prescribe
Appointments	11	Shraddha	Kapoor	4	2020-02-29	20:00:00	fever	no	dolo650
Prescription List	11	Shraddha	Kapoor	4	2020-02-29	20:00:00	cold	yes	cipl
	12	Jayanth	Sanka	14	2022-05-13	10:00:00	fever	no	dolo650
	12	Jayanth	Sanka	14	2022-05-13	10:00:00	dengue	no	capril
	12	Jayanth	Sanka	14	2022-05-13	10:00:00	fever	no	dolo650
	14	Jayanth	Sanka	15	2022-05-17	10:00:00	Cold and Cough	No	Coldarin

Receptionist Login :-




The screenshot shows the EasyMed website's login interface for a receptionist. The page has a blue gradient background. On the left, there is a rocket icon and the word "Welcome". On the right, there is a white login box. At the top of the box, there are four tabs: "Patient", "Doctor", "Receptionist" (which is selected), and "Admin". Below the tabs, the text "Login as Receptionist" is displayed. There are two input fields: one for the username "Yasas" and one for the password, which is masked with dots. A blue "Login" button is located at the bottom right of the login box. The browser's address bar shows "localhost/EasyMed@VITAP/index.php".



Welcome RECEPTION

Dashboard
Book Appointment
Appointment History
Prescriptions


Book My Appointment
[Book Appointment](#)


My Appointments
[View Appointment History](#)


Prescriptions
[View Prescription List](#)

localhost/EasyMed@VITAP/t.php#app-hist

EasyMed Logout

Welcome RECEPTION

Dashboard

Book Appointment

Appointment History

Prescriptions

Doctor Name	Appointment ID	First name	Last name	Appointment Date	Appointment Time	Diseases	Allergies	Prescriptions	
Dinesh	11	Kishan	Lal	2020-03-27	15:00:00	Cough	Nothing	Just take a teaspoon of Benadryl every night	Pay Bill
Ganesh	8	Alia	Bhatt	2020-03-21	10:00:00	Severe Fever	Nothing	Take bed rest	Pay Bill
Kumar	12	William	Blake	2020-03-26	12:00:00	Sever fever	nothing	Paracetamol - > 1 every morning and night	Pay Bill
Tiwary	13	William	Blake	2020-03-26	14:00:00	Cough	Skin dryness	Intake fruits with more water content	Pay Bill

Admin Login :-

HMS

localhost/EasyMed@VITAP/index.php

EasyMed

HOME ABOUT US CONTACT NEAREST-PHARMACIES

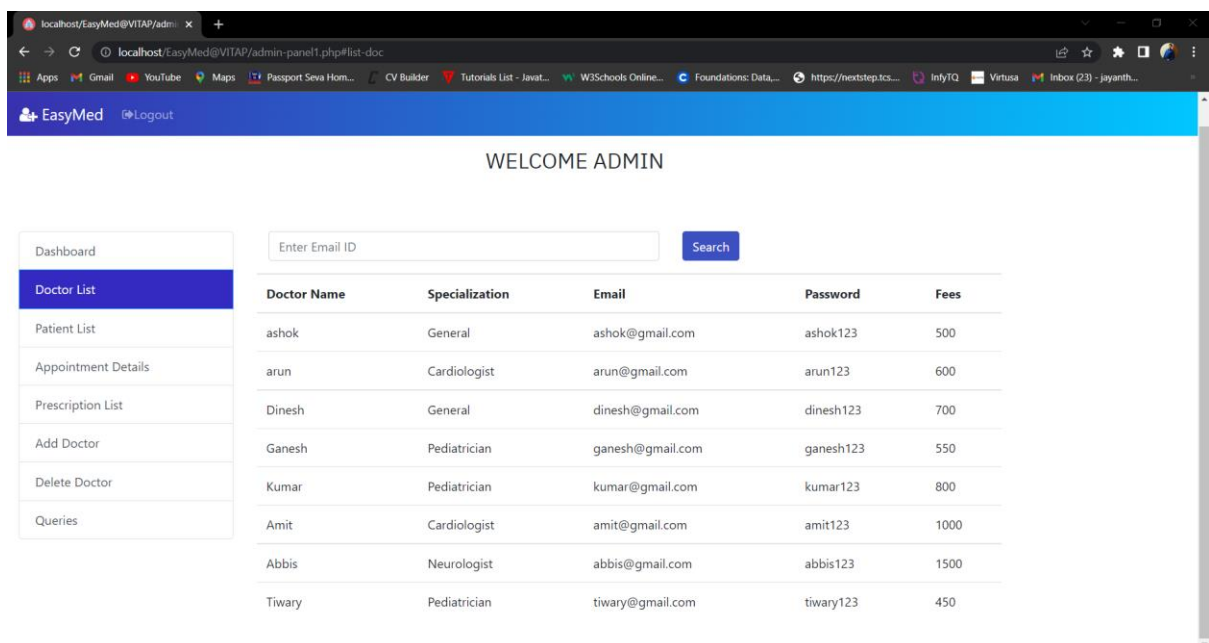
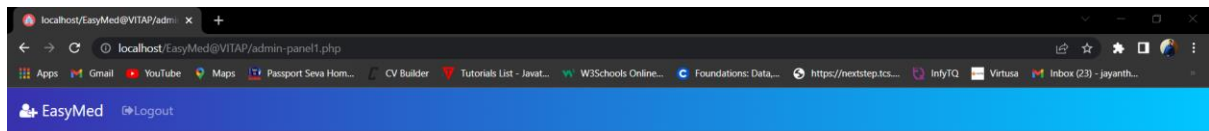
Patient Doctor Receptionist **Admin**

Login as Admin

admin

[Login](#)

Welcome



localhost/EasyMed@VITAP/admin

localhost/EasyMed@VITAP/admin-panel1.php#list-doc

Apps

Gmail

YouTube

Maps

Passport Seva Hom...

CV Builder

Tutorials List - Javat...

W3Schools Online...

Foundations: Data...

https://nextstep.tcs...

InfyIQ

Virtusa

Inbox (23) - jayanth...

EasyMed Logout

WELCOME ADMIN

Dashboard

Doctor List

Patient List

Appointment Details

Prescription List

Add Doctor

Delete Doctor

Queries

Enter Contact

Search

Patient ID	First Name	Last Name	Gender	Email	Contact	Password
1	Ram	Kumar	Male	ram@gmail.com	9876543210	ram123
2	Alia	Bhatt	Female	alia@gmail.com	8976897689	alia123
3	Shahrukh	khan	Male	shahrukh@gmail.com	8976898463	shahrukh123
4	Kishan	Lal	Male	kishansmart0@gmail.com	8838489464	kishan123
5	Gautam	Shankararam	Male	gautam@gmail.com	9070897653	gautam123
6	Sushant	Singh	Male	sushant@gmail.com	9059986865	sushant123
7	Nancy	Deborah	Female	nancy@gmail.com	9128972454	nancy123
8	Kenny	Sebastian	Male	kenny@gmail.com	9809879868	kenny123

localhost/EasyMed@VITAP/admin

localhost/EasyMed@VITAP/admin-panel1.php#list-doc

Apps

Gmail

YouTube

Maps

Passport Seva Hom...

CV Builder

Tutorials List - Javat...

W3Schools Online...

Foundations: Data...

https://nextstep.tcs...

InfyIQ

Virtusa

Inbox (23) - jayanth...

EasyMed Logout

WELCOME ADMIN

Appointment Details

Doctor List

Patient List

Queries

Enter Contact

Search

Appointment ID	Patient ID	First Name	Last Name	Gender	Email	Contact	Doctor Name	Consultancy Fees	Appointment Date	Appointment Time	Appointment Status
1	4	Kishan	Lal	Male	kishansmart0@gmail.com	8838489464	Ganesh	550	2020-02-14	10:00:00	Cancelled by Doctor
2	4	Kishan	Lal	Male	kishansmart0@gmail.com	8838489464	Dinesh	700	2020-02-28	10:00:00	Cancelled by Patient
3	4	Kishan	Lal	Male	kishansmart0@gmail.com	8838489464	Amit	1000	2020-02-19	03:00:00	Cancelled by Patient
4	11	Shraddha	Kapoor	Female	shraddha@gmail.com	9768946252	ashok	500	2020-02-29	20:00:00	Cancelled by Doctor
5	4	Kishan	Lal	Male	kishansmart0@gmail.com	8838489464	Dinesh	700	2020-02-28	12:00:00	Active
6	4	Kishan	Lal	Male	kishansmart0@gmail.com	8838489464	Ganesh	550	2020-02-26	15:00:00	Cancelled by

localhost/EasyMed@VITAP/admin-panel1.php#list-doc

EasyMed Logout

WELCOME ADMIN

- Dashboard
- Doctor List
- Patient List
- Appointment Details
- Prescription List**
- Add Doctor
- Delete Doctor
- Queries

Doctor	Patient ID	Appointment ID	First Name	Last Name	Appointment Date	Appointment Time	Disease	Allergy	Prescription
Dinesh	4	11	Kishan	Lal	2020-03-27	15:00:00	Cough	Nothing	Just take a teaspoon of Benadryl every night
Ganesh	2	8	Alia	Bhatt	2020-03-21	10:00:00	Severe Fever	Nothing	Take bed rest
Kumar	9	12	William	Blake	2020-03-26	12:00:00	Sever fever	nothing	Paracetamol -> 1 every morning and night
Tiwary	9	13	William	Blake	2020-03-26	14:00:00	Cough	Skin dryness	Intake fruits with more water content

localhost/EasyMed@VITAP/admin-panel1.php#list-doc

EasyMed Logout

WELCOME ADMIN

- Dashboard
- Doctor List
- Patient List
- Appointment Details
- Prescription List
- Add Doctor**
- Delete Doctor
- Queries

Doctor Name:

Specialization:

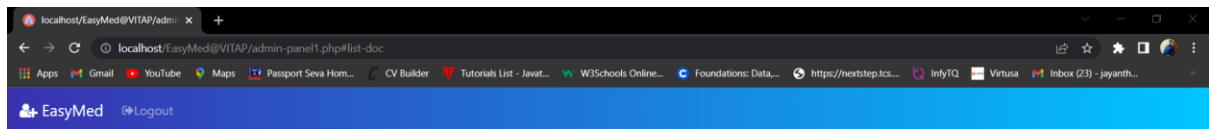
Email ID:

Password:

Confirm Password:

Consultancy Fees:

Add Doctor

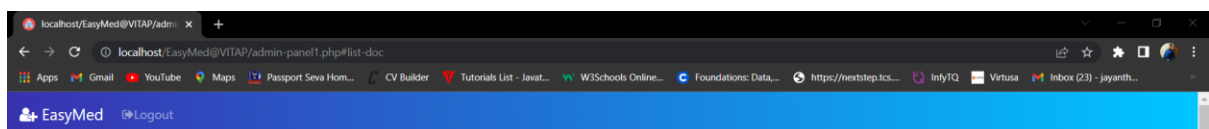


WELCOME ADMIN

Dashboard
Doctor List
Patient List
Appointment Details
Prescription List
Add Doctor
Delete Doctor
Queries

Email ID:

Delete Doctor



WELCOME ADMIN

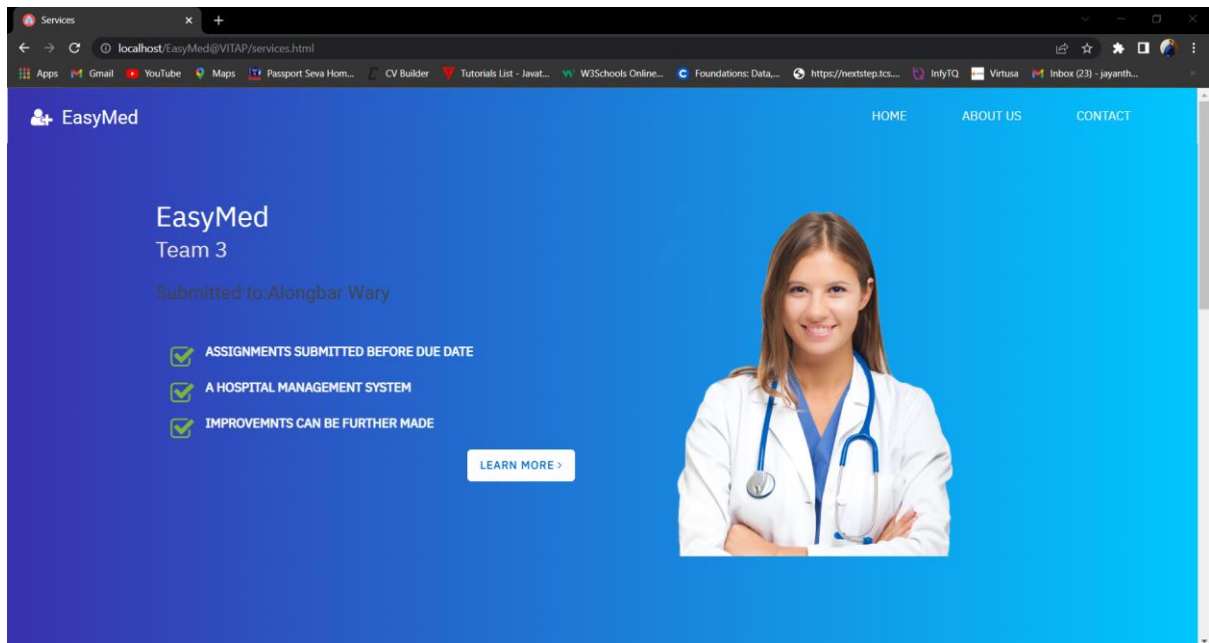
Dashboard
Doctor List
Patient List
Appointment Details
Prescription List
Add Doctor
Delete Doctor
Queries

Enter Contact

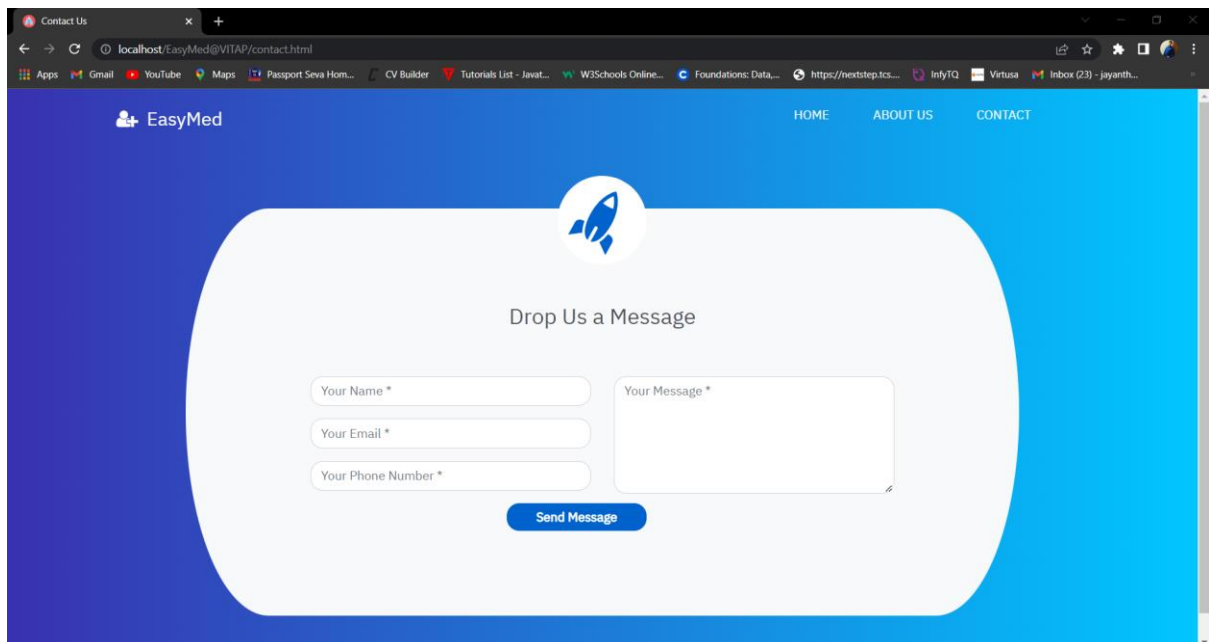
Search

User Name	Email	Contact	Message
Anu	anu@gmail.com	7896677554	Hey Admin
Viki	viki@gmail.com	9899778865	Good Job, Pal
Ananya	ananya@gmail.com	9997888879	How can I reach you?
Aakash	aakash@gmail.com	8788979967	Love your site
Mani	mani@gmail.com	8977768978	Want some coffee?
Karthick	karthi@gmail.com	9898989898	Good service
Abbis	abbis@gmail.com	8979776868	Love your service
Asiq	asiq@gmail.com	9087897564	Love your service. Thank you!

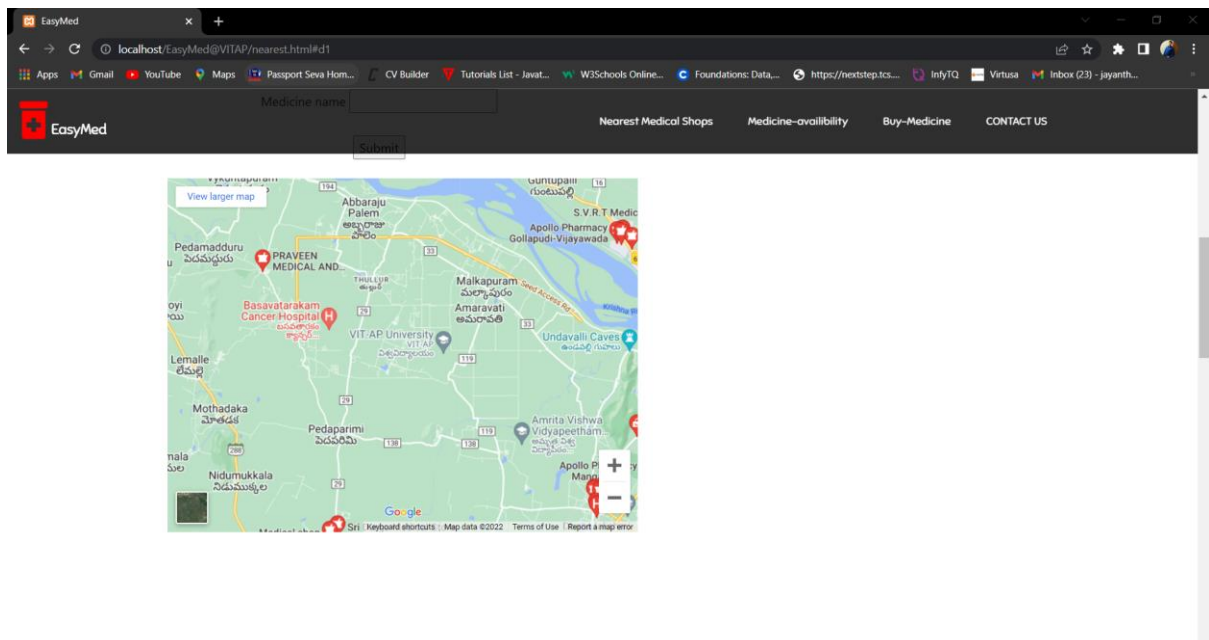
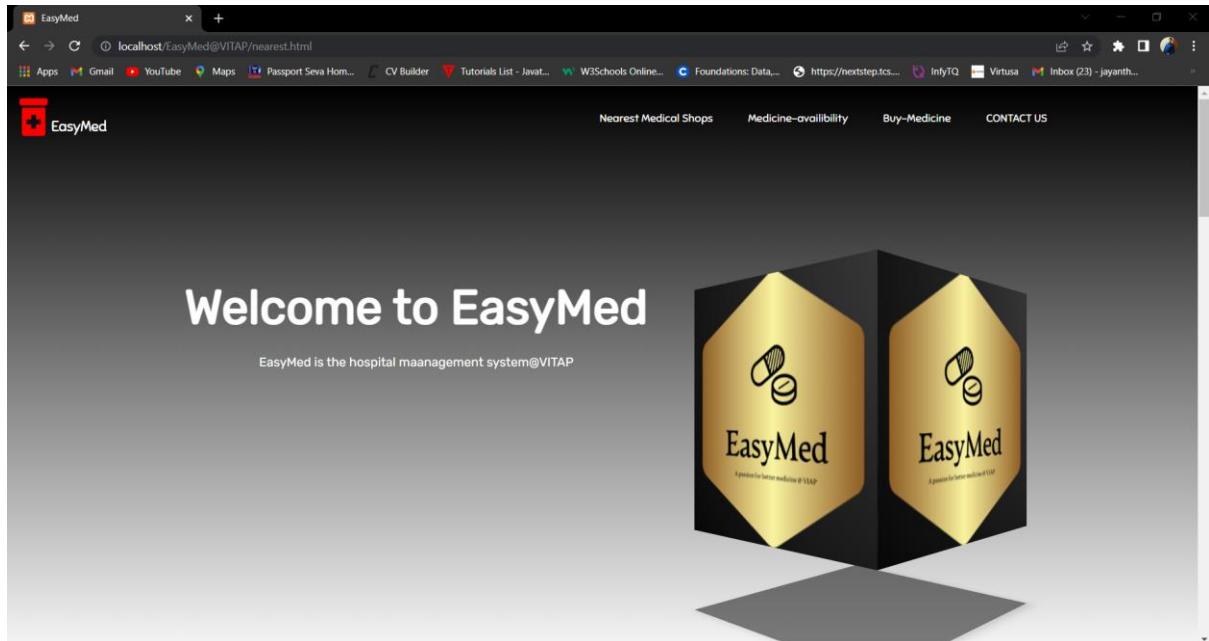
About Us :-

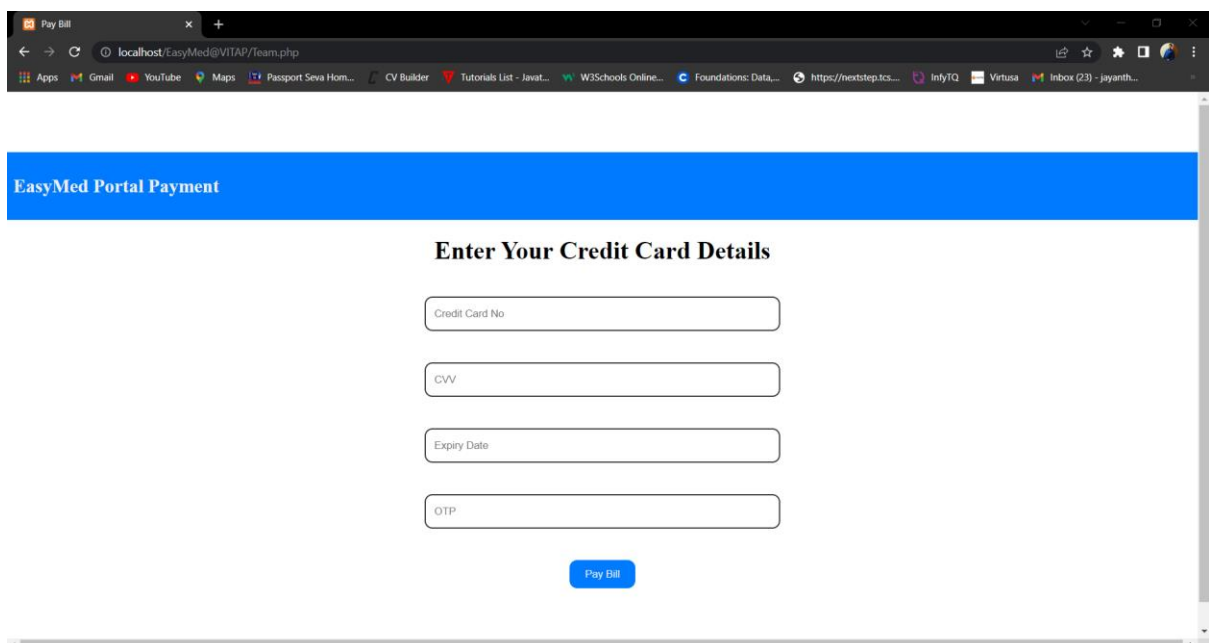
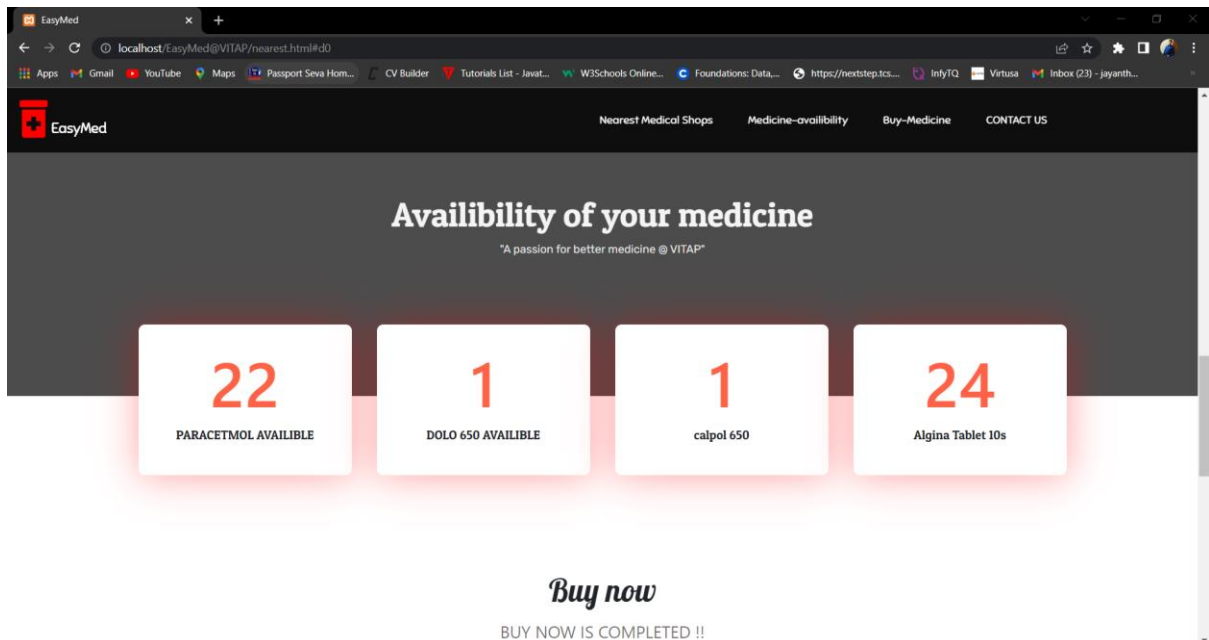


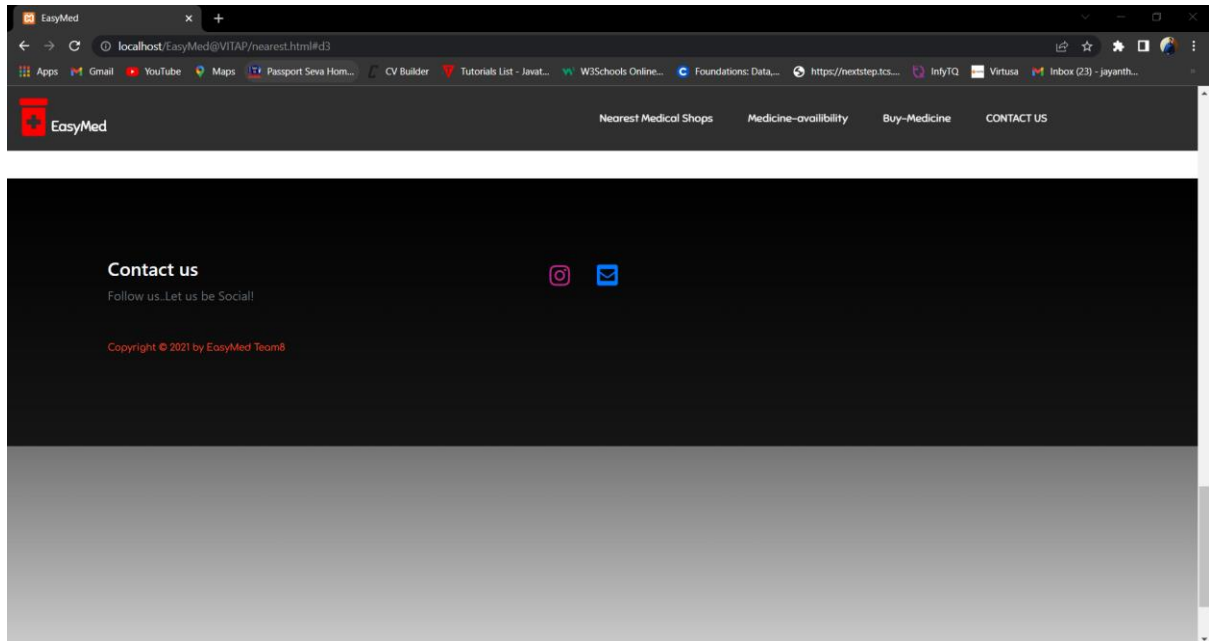
Contact :-



Nearest-Pharmacies :-







**** *The End* ****