

**A**  
**Synopsis Report on**

**CLINIC MANAGEMENT SYSTEM**

**For the course of Engineering Mathematics-IIIN**

**INFORMATION TECHNOLOGY**

**BY**

- **AVINASH ANDHALE 20104138**
- **VISHNUKANT MULE 20104065**
- **PRATHAMESH NAIK 20104061**
- **JEMIN BHANUSHALI 20104109**

**Under the guidance of**  
**Prof. Shital Agrawal**



**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**A.P. Shah Institute of Technology**  
**G.B. Road, Kasarvadavali,**  
**Thane (W)-400615**  
**UNIVERSITY OF MUMBAI**  
**2021-2022**



## CERTIFICATE

This is to certify that the Mini Project report on CLINIC MANAGEMENT SYSTEM has been submitted by AVINASH ANDHALE (20104138), PRATHAMESH NAIK (20104061), VISHNUKANT MULE (20104065) and JEMIN BHANUSHALI (20104109), who are a Bonafede students of A.P. Shah Institute of Technology, Thane, Mumbai, as a part fulfilment of the requirement for the degree in Information Technology, during the academic year 2021-2022 in the satisfactory manner as per the curriculum laid down by University of Mumbai.

**Prof. Shital Agrawal**  
Guide

**Dr. Uttam D. Kolekar**  
Principal

**Prof. Kiran Deshpande**  
Head Department of Information Technology

**External Examiner's**

- 1.
- 2.

**Place: A.P. Shah Institute of Technology, Thane**

**Date:**

## ACKNOWLEDGEMENT:

This project would not have come to fruition without the invaluable help of our guide Prof. Shital Agrawal. Expressing gratitude towards our HOD, Prof. Kiran Deshpande, and the Department of Information Technology for providing us with the opportunity as well as the support required to pursue this project. We would also like to thank our teacher Prof Anaghna Aher who gave us her valuable suggestions and ideas when we were in need of them. We would also like to thank our peers for their helpful suggestions.

## CHAPTER 1:

### INTRODUCTION:

#### **INTRODUCTION:**

- CLINIC MANAGEMENT SYSTEM is a project which aims is developing a computerized system to maintain all information of the Clinic Entities.
- It has a facility of Admin Login through which the admin can monitor the whole system.
- Admin Modules are managing patients, manage Doctor's, and manage Appointments
- Patient Modules are to fill the registration form, add details, find Doctor's and applied for appointment, view appointment, view doctor prescription details.
- Doctor Modules are to login, view appointments list, view patient details.
- Overall, this project of ours is being developed to help the Clinic Administration in the best possible way also reduce the human efforts.

**OBJECTIVE:**

- It is also very useful for the Doctor's for viewing patient's The main objective of the project is to manage the records of the patients, doctors, and appointments.
- Reduce the paper work and provides the 24x7 accessible website with the User-friendly GUI (Graphical User Interface) to manage the records.
- Our objective is by using the system software the patient can easily search and view doctor Profiles and also apply for Booking an appointment.
- details and write prescription to patients

**PURPOSE:**

- To manage the Clinic Administrative work.
- Helps to patients to find the doctor details and Take appointments online from anywhere
- This project also helps doctors work such as to keep information of patients and the appointments bookings per day, etc.

**SCOPE:**

This system which manages complete polyclinics details in a single application and in a single database.

The users will use this system to handle all the functionality easily. Admin will also use the system to keep track of the patients consulting to them.

The intentions of the system are to increase the number of patients that can be treated accurately.

Requirements statements in this document are non-functional.

## CHAPTER 2:

### **PROBLEM STATEMENT:**

- CLINIC MANAGEMENT SYSTEM
- A system to manage all the activities of a Clinic
- Patients request for appointment for any Doctor.
- The details of patients are retrieved by the system
- New patients update their detail in the system before they request for any appointment, through filling up the new patient registration form.
- The patient can book the appointment slot as per the free slots availability on the own in the system.

## CHAPTER 3:

### PROPOSED SYSTEM:

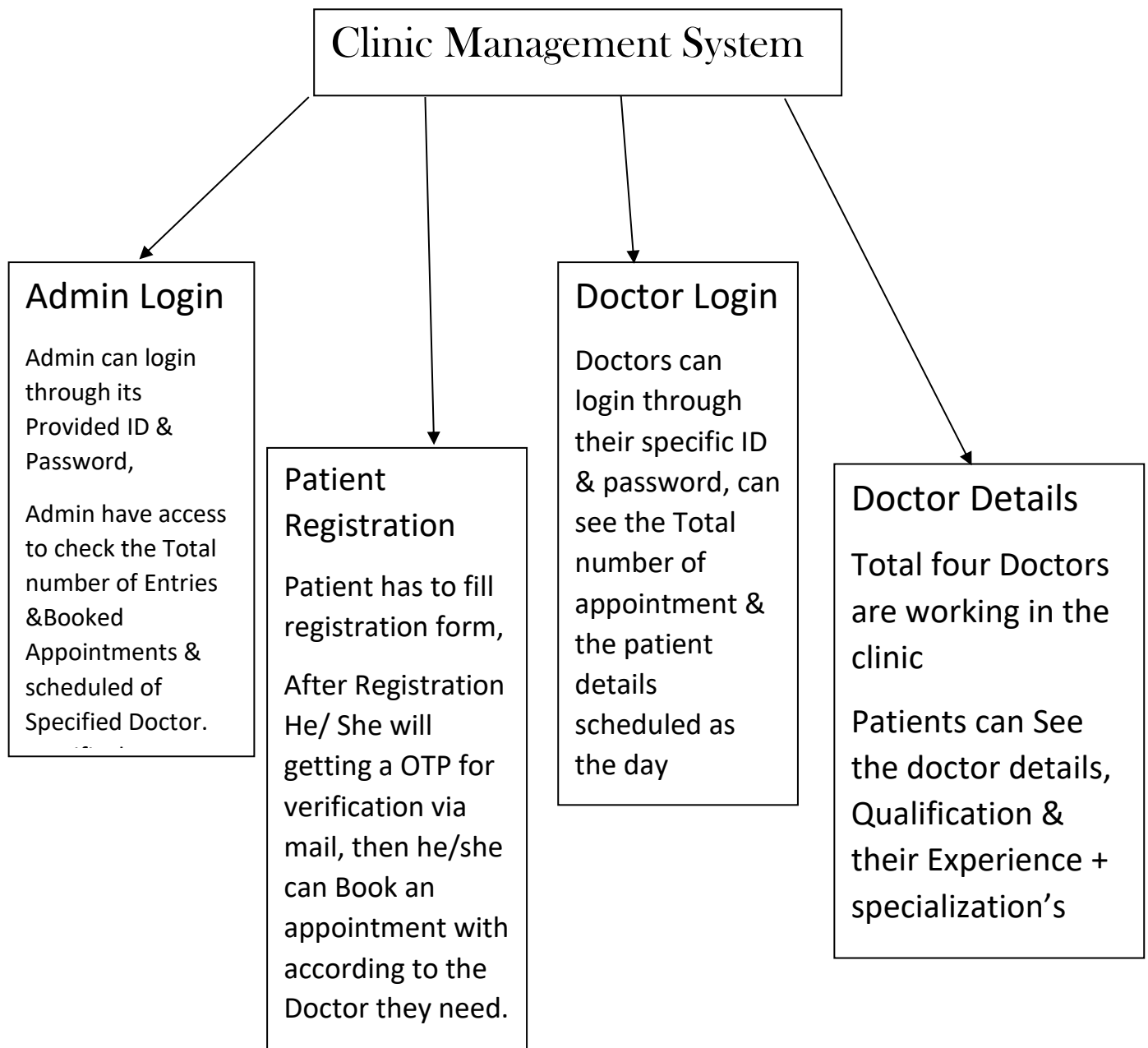


Fig no. 3.1 Proposed System



## CHAPTER 4:

### FEATURES AND FUNCTIONALITY:

- Reliability
  - Security
  - Maintainability
  - Accuracy
- 
- The patient records are stored in a digital form which is saved on to the serves forever.
  - Even during a doctor's busy schedule, it helps in fetching out accurate and legible records of every procedure performed. This leads to error-free & 100% secure data.
  - To make Registration easy to use the patient just has to register him / her and then will get confirmation through e-mail.

## PROJECT OUTCOMES:

- Patient can register her/himself after visiting our site.
- Patient can confirm his/her registration through e-mail.
- Admin will have access to ever registered patient.
- Doctor can see patient details through log-in to his dashboard.

## CHAPTER 5:

### SOFTWARE REQUIREMENTS:

- ▶ Operating system: Support all Windows server.
- ▶ Front End: PyCharm (tkinker), Html, G-MAIL.
- ▶ Back end: Wamp server, MySQL.

## CHAPTER 6:

### PROJECT DESIGN:

In this phase a logical system is built which fulfils the requirements. Design phase of software development deals with transforming the patient's requirements into a logically working system. Normally design performed in the following steps

- + Main Dashboard
- + Admin login
- + Admin Dashboard
- + Patient Registration
- + Patient Email verification
- + Doctor Details
- + Appointment slot Booking
- + Confirmation mail
- + Doctor Login
- + Doctor dashboard
- + Contact Details
- + Clinic Details
- + Developers Details
- + Validation Message pop-up

## MAIN DASHBOARD:

### CONTENT:

1. Welcome to clinic management system
2. Admin Login button
3. Doctor Login button
4. Patient Registration button
5. Doctor Details button



Fig no. 6.1 MAIN DASHBOARD

## Admin Login:

- Admin User have provided a Specific Login ID and a password
- When User click Admin Button on main dashboard, he/she will be directed to these page
- From here the Admin can Login into his/her account

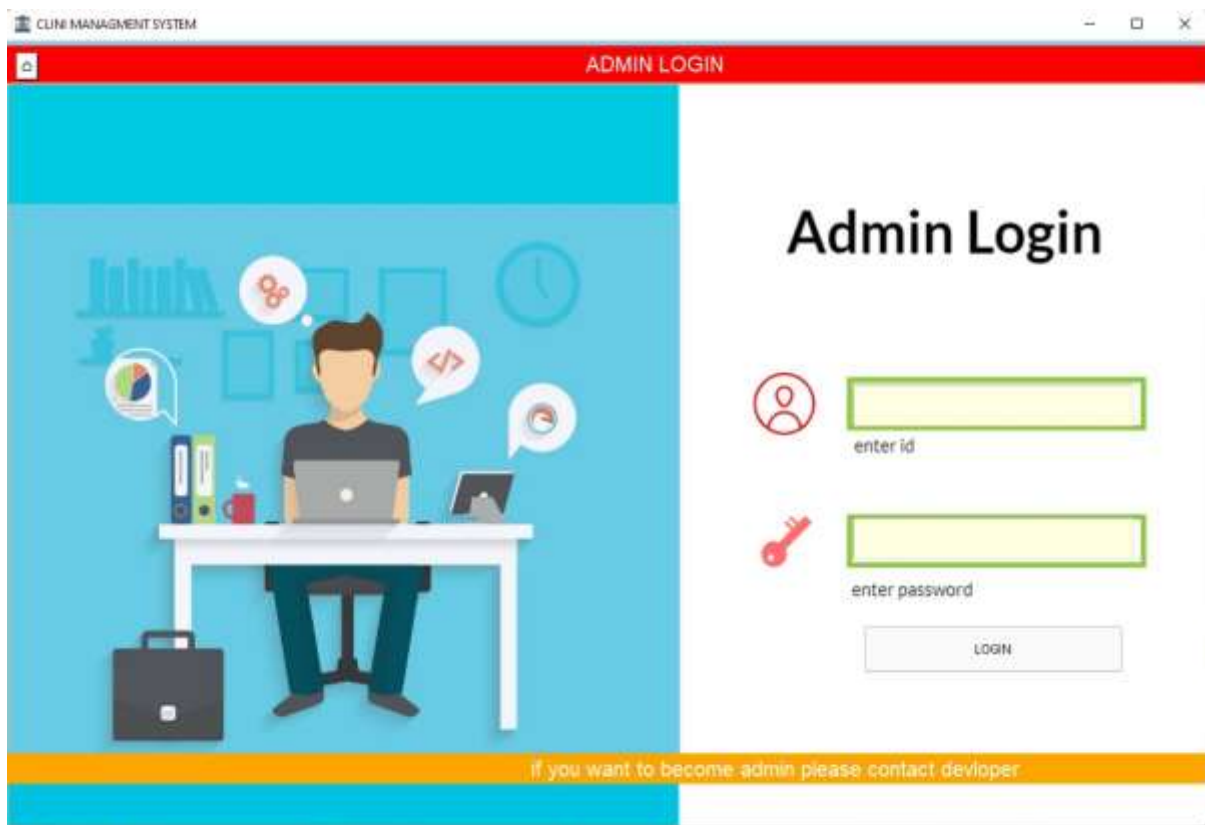
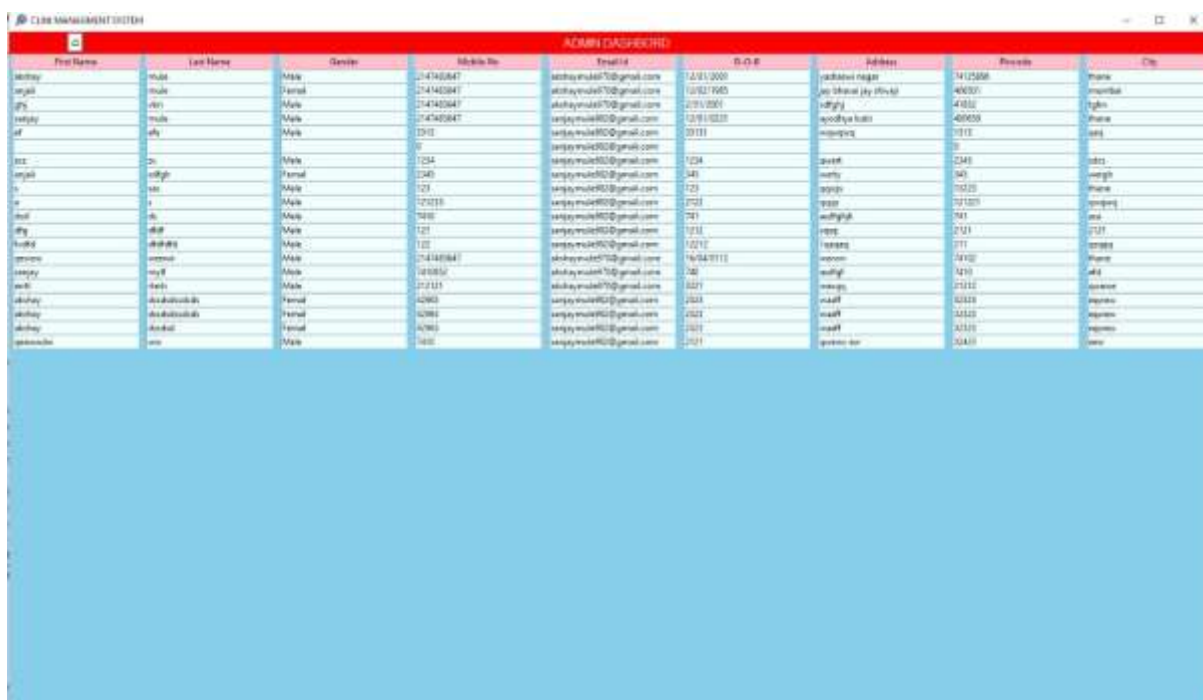


Fig no.6.2 Admin Login

## Admin Dashboard:

- Here's the Admin Dashboard page
- Here the Admin will get all the Updates related to the clinic
- Admin dashboard contents all the data such as:
  1. Total Number of Entries
  2. Total Number of Appointments Book & Scheduled per day
  3. Patient Details (filled by patients while Patient Registration)



The screenshot shows a web application titled "CLINIC MANAGEMENT SYSTEM" with a sub-header "ADMIN DASHBOARD". Below the header is a table with 11 columns: First Name, Last Name, Gender, Mobile No., Email Id, D.O.B, Address, Pincode, and City. The table contains 20 rows of patient data. The bottom half of the dashboard is a large blue rectangular area.

First Name	Last Name	Gender	Mobile No.	Email Id	D.O.B	Address	Pincode	City
adithyan	murali	Male	9147403647	adithyanmurali702@gmail.com	12/01/2005	padmalai nagar	5412508	madurai
arjun	murali	Female	9147403647	arjunmurali702@gmail.com	10/02/1985	jay shree sai (Pondy)	400005	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	adithyan	400008	madurai
arjun	murali	Male	9147403647	arjunmurali702@gmail.com	12/01/2003	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai
arjun	arjun	Male	9147403647	arjunmurali702@gmail.com	20/01/2001	arjunmurali	400008	madurai

Fig no.6.3 Admin Dashboard

## Patient Registration Form:

- Here's the Patient Registration page
- When the User click Patient Button, he/she will be directed to the page



The screenshot shows a web application window titled "CLINICAL MANAGEMENT SYSTEM" with a sub-header "PATIENT REGISTRATION FORM ...". The background is light blue and features a cartoon illustration of a woman with red hair sitting at a desk with a laptop and a cup of tea. The registration form is a white box with a red border containing the following fields:

- Name :** Two yellow input fields. The first is labeled "First Name" and the second is labeled "Last Name".
- Gender :** Two radio buttons labeled "Male" and "Female".
- E-mail :** A single yellow input field.
- Phone :** A single yellow input field.
- DOB :** A single yellow input field with the placeholder text "dd-mm-yyyy" below it.
- Address :** A single yellow input field.
- City :** A single yellow input field.
- Pincode :** A single yellow input field.

A "Next" button is located at the bottom right of the form.

Fig no.6.4 Patient Registration Form



## Email Confirmation:

(OTP verification)

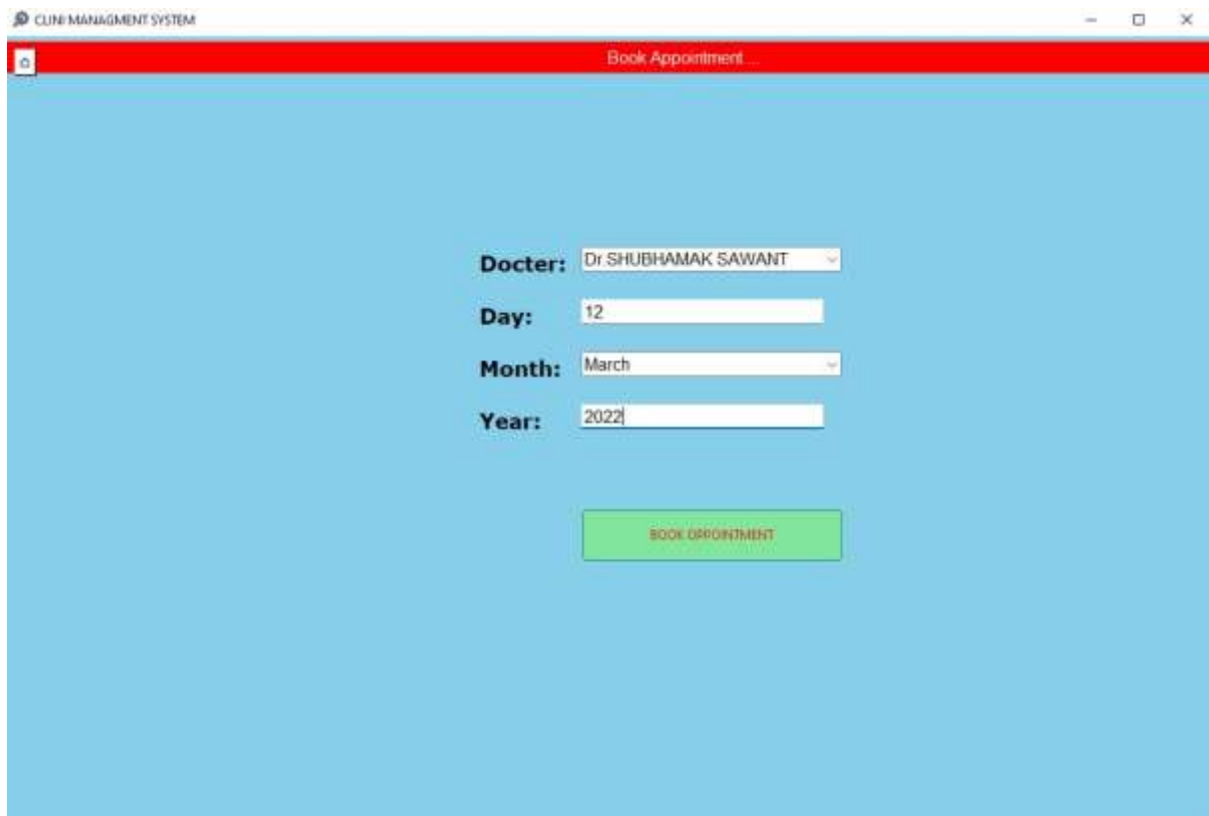
- After Filling up the Patient registration form
- When the user clicks the Button named (Next)  
He/she will get an OTP (ONE TIME PASSWORD) number via mail on their Email ID,
- If the user puts a wrong OTP no. he/she will pop-up a message (INVALID OTP) (PLEASE ENTER A VALID OTP)
- On putting received OTP no. and click Confirm button then the user will directed to next window



Fig no. 6.5 Email Confirmation

### Appointment Booking:

- Here the patient can select the doctor
- Select the Day, Month and Year
- Press the Book Appointment Button



The screenshot shows a web application window titled "CUNI MANAGEMENT SYSTEM" with a red header bar. The main content area is light blue. In the center, there is a form for booking an appointment. The form includes four labels with corresponding input fields: "Doctor:" with a dropdown menu showing "Dr. SHUBHAMAK SAWANT", "Day:" with a text input field containing "12", "Month:" with a dropdown menu showing "March", and "Year:" with a text input field containing "2022". Below these fields is a green button labeled "BOOK APPOINTMENT".

Fig no. 6.6 Appointment Booking

## Doctor Details:

- Here the user can view all the details of the doctors
- Press the Name Button placed under each photograph the doctor
- Details Contents: Name, Specializations, Qualifications, Experience, awards claimed.



Fig no. 6.7: Doctor Details

## Doctor 1:

Dr. Anjali S Mule

The screenshot shows a web application titled 'CLINI MANAGEMENT SYSTEM' with a red header bar containing the text 'Dr. Anjali Mule'. The profile is for Dr. Anjali S Mule, a female doctor with a stethoscope. The page is divided into sections: OPD (Outpatient Department) hours, Contact information, Specializations, Qualification, Experience, and Awards. A 'REQUEST AN APPOINTMENT' button is located at the bottom right.

**CLINI MANAGEMENT SYSTEM**

**Dr. Anjali Mule**

**Dr. Anjali S Mule**

**OPD :**

- MONDAY: 10 am to 2 pm
- TUESDAY: 10 am to 2 pm
- WEDNESDAY: 10 am to 2 pm
- THURSDAY: 10 am to 2 pm
- FRIDAY: OFF
- SATURDAY: 10 am to 2 pm
- SUNDAY: OFF

**CONTACT :**

- +91-7842513674

**Specializations :**

- Chest Medicine
- Consultant - Chest Physician

**Qualification :**

- M.D ( Chest & TB)
- DNBE

**Experience :**

- Consultant Chest Physician at Jupiter Hospital
- Practising Chest Physician since 17 years
- Ex-Honorary TB specialist and Unit head at GTB Hospital, Seweri
- Teaching experience of 9 years in Rajiv Gandhi Medical College

**Awards :**

- Presented papers at SRSC
- Management of MDR TB in resource limited setting in India.

[REQUEST AN APPOINTMENT](#)


Fig no. 6.8: Doctor 1

## Doctor 2:

Dr. Shubhamak Sawant

CLINICAL MANAGEMENT SYSTEM

Dr. Shubhamak Sawant



Dr. Shubhamak Sawant

**OPD :**

- MONDAY: 10 am to 2 pm
- TUESDAY: 10 am to 2 pm
- WEDNESDAY: 10 am to 2 pm
- THURSDAY: 10 am to 2 pm
- FRIDAY: OFF
- SATURDAY: 10 am to 2 pm
- SUNDAY: OFF

**CONTACT :**

- +91-9326513775

**Specializations :**

- Scoliosis surgery, minimally invasive and endoscopic spine surgery
- Consultant - Spine Surgeon

**Qualification :**

- MBBS - NSCB Medical college, Jabalpur (2006)
- MS (ortho) - MGM Medical college, Indore (2009)

**Experience :**

- Experience of 10 years in spine surgery with special expertise in scoliosis surgery
- Dr. Sawant was Professor in Orthopedics and head of spine unit at (SAIMS), Indore
- Role of posterior approach in multisegmental cervical myelopathy
- Predictive factors for progression of spondylolisthesis

**Awards :**

- Prof. K.T. Dholakia Gold Medal- best paper (IOACON 2008)
- Prof. Sudhir Kapoor gold medal for best case report of the year 2014

REQUEST AN APPOINTMENT

Fig no. 6.9 Doctor 2

### Doctor 3:

Dr. Mahesh Patil

Clini Management System

Dr Mahesh Patil



Dr.Mahesh Patil

**OPD :**

- MONDAY:10 am to 2 pm
- TUESDAY:10 am to 2 pm
- WEDNESDAY:10 am to 2 pm
- THURSDAY:10 am to 2 pm
- FRIDAY:OFF
- SATURDAY: 10 am to 2 pm
- SUNDAY: OFF

**COTACT :**

- +91-8754236978

**Specializations :**

- ☒ General Surgery
- ☒ Consultant - Laparoscopic Surgery & General Surgery

**Qualification :**

- ☒ MBBS
- ☒ MS

**Experience :**

- ☒ 2 Years Experience in General surgery

**Awards :**

- ☒ Vice President Centra zone IAGES 2014-2018
- ☒ Secretary Atysi From 2016 to Till date.

REQUEST AN APPOINTMENT

Fig no. 6.10 Doctor 3

## Doctor 4:

Dr. Ganesh Karad

CUNI MANAGEMENT SYSTEM

Dr. Ganesh Karad



Dr. Ganesh Karad

**OPD :**

- MONDAY: 10 am to 2 pm
- TUESDAY: 10 am to 2 pm
- WEDNESDAY: 10 am to 2 pm
- THURSDAY: 10 am to 2 pm
- FRIDAY: OFF
- SATURDAY: 10 am to 2 pm
- SUNDAY : OFF

**COTACT :**

- +91-9821400548

**Specializations :**

- ☒ Internal Medicine
- ☒ Consultant - Internal Medicine

**Qualification :**

- ☒ M.B.B.S. MGM Medical College, Indore
- ☒ M.D. Medicine MGM Medical College, Indore

**Experience :**

- ☒ 9 Years Clinical Experience

**Awards :**

- ☒ Attended many conferences

REQUEST AN APPOINTMENT

Fig no. 6.11 Doctor 4

## Validation:



Fig no. 6.12 Invalid Content Message pop-up

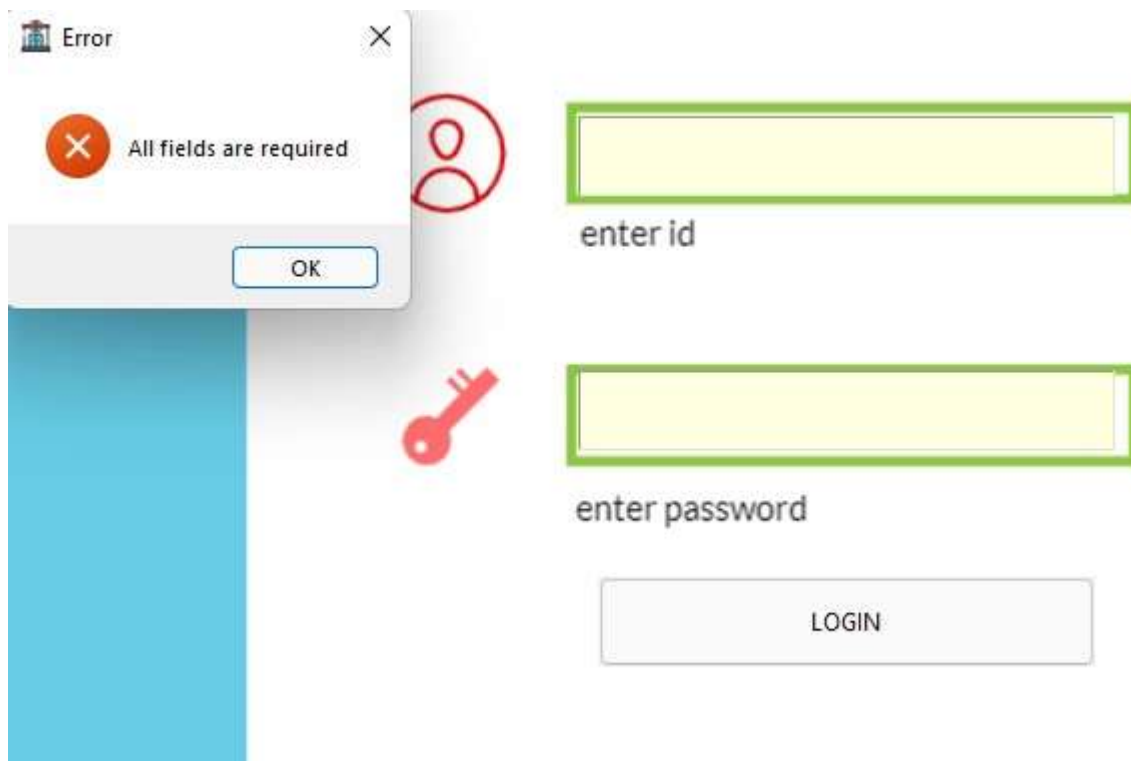


Fig no. 6.13 All information required for login Message pop-up



### Clinic Details:

Here the Whole details of the clinic is mentioned on this page.  
The User can Easily know about the details regarding clinic & it's management.

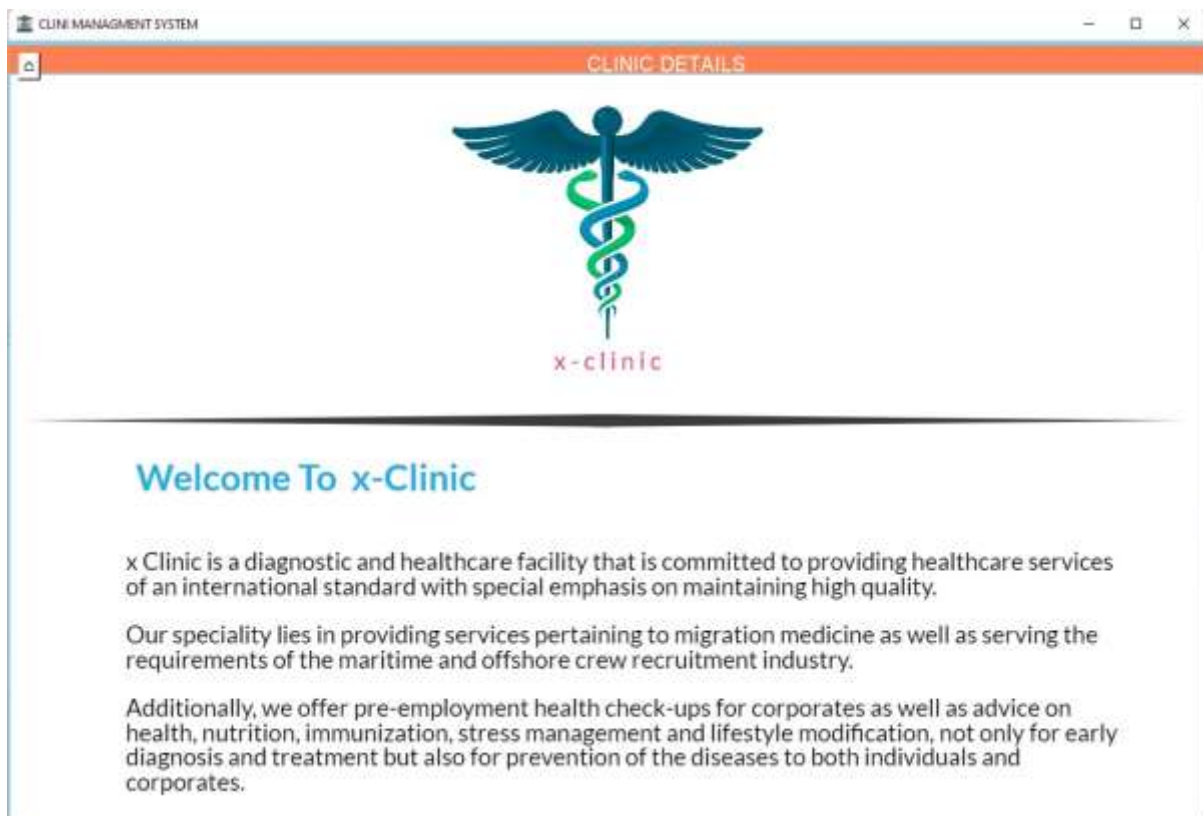


Fig no. 6.14 Clinic Details

## Contact Details:

Here the User can Get All the Contact details of the following mentioned below:

- Clinic Contact Number
- Receptionist's Number
- Emergency Contact
- Customer care contact
- Etc (related to clinic)



Fig no. 6.15 Contact Details

### Developer's Details:

Here the User can get the Details of the System/Software Developers who all build these Clinic Management System.

- 1) Avinash Andhale
- 2) Vishnukant Mule
- 3) Prathamesh Naik
- 4) Jemin Bhanushali



Fig no. 6.16 Developer's Details

## CHAPTER 7

### PROJECT SCHEDULING:

SR no.	Group Member	Time Duration	Work Done
1.	AVINASH ANDHALE	1 <sup>st</sup> week of January	Patient Registration page Doctor login page Admin Login page
2.	VISHNUKANT MULE	2 <sup>nd</sup> week of January	Admin Dashboard Doctor Dashboard Main Dashboard Patient Details
3.	PRATHAMESH NAIK	3 <sup>rd</sup> week of January	E-Mail sender Data-Base
4.	JEMIN BHANUSHALI	By the end of the march	Connection to Data-Base Implementation Done successfully

## CHAPTER 8

### **CONCLUSION:**

Our project is only a humble venture to satisfy the needs to manage their project work. Several user-friendly coding has also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the Teacher's to make reasonable estimates made within a limited time frame at the beginning of the software project.

### **REFERENCES:**

PYTHON REFERENCE BOOK

INTERNET