



Web Engineering Lab (CSE 418)
(Lab Report)

Topic: Medical Information Extraction System.

Submitted to:

Ms. Tahmina Sultana Priya

Lecturer, Daffodil International University

Submitted by:

antFARM {

Md. Nasim (173-15-10463)

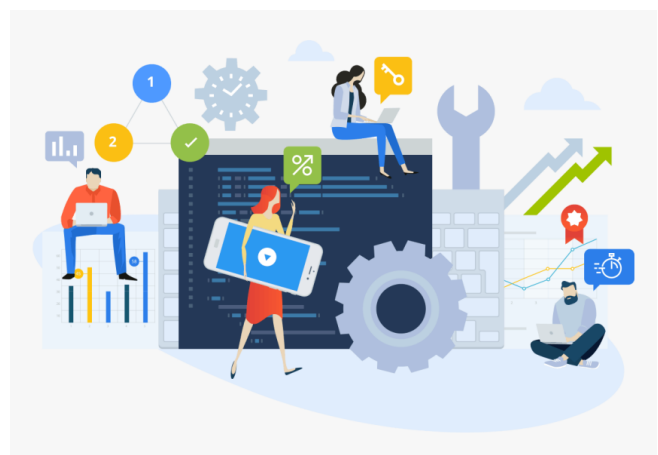
Sheikh Abdullah Al Noman (173-15-10461)

Ahmed Ragib Hasan (173-15-10487)}

Section: N

Department of CSE

Submission date: 14/04/2021



Team Name : antFARM

Team Member : 3

Project Title : Medical Information Extraction System.

Dev Team:

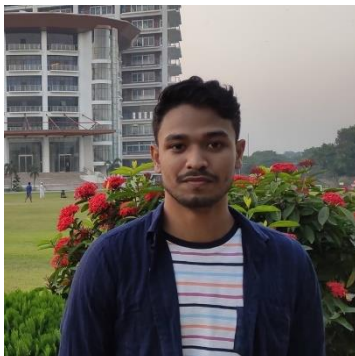


Name: Md Nasim

Id: 173-15-10463

Email: nasim15-10463@diu.edu.bd

About: Confident, Dedicated, know how to finish.

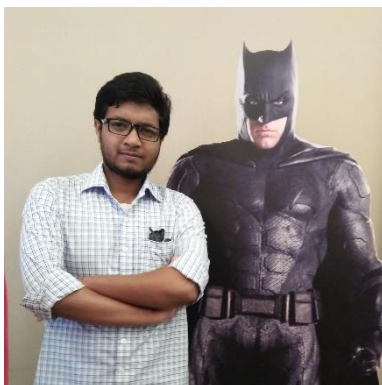


Name: Shekh Abdullah- Al- Noman

Id: 173-15-10461

Email: shekh15-10461@diu.edu.bd

About: I am a person who is positive about every aspect of life. There are many things I like to do, to see, and to experience. I like to read, I like to write; I like to think, I like to dream; I like to talk, I like to listen.



Name: Ahmed Ragib Hasan

Id: 173-15-10487

Email: ahmed15-10487@diu.edu.bd

About: I have a level headed and imaginative approach to all my problems. I lack consistency but still working hard to develop my skills in many fields. Unable to settle down on a single field of work, I continue to explore different skill sets.

Motivation

- 1.Our objective is to provide a platform where patients can store their medical history and doctors can access them easily.
- 2.Have access to a database of Doctors and Specialists to consult regarding their conditions
- 3.Make the process of scheduling Doctor appointments more convenient
- 4.Making it easy for doctors to have access to patient history through our platform and provide proper treatment.
- 5.Creating a virtual medical environment for both doctors and patients in these challenging times with strong and reliable optimal database to tackle future health hazards such as the covid-19 outbreak

Introduction

MIES or Medical Information Extraction System is initially a web application-based service in the Medical Field. Our website enables Patients and Doctors to organize their medical information. Since patient's medical history and all kinds of specific information about their health, medication, test results are necessary for specialists to determine their condition and suggest accurate treatment. Our system will tone down the hassle of paper work in every medical process and automate most of the process while securing all kinds of medical data in the cloud which can be extracted when needed.

Project features Specification

- 1.Patient Sign up and Login System.
- 2.Patient's relevant History and medical history data collection in account activation.
- 3.Doctor Sign up(conditional) and Login System.
- 4.Doctor Profile and Schedule categorized for patients to choose.
- 5.Automated Doctor Appointment Set up forms.
- 6.Patients Appointment History and Schedule data preserved in patient profile for any convenience.
- 7.Doctor Accounts having access to patient medical history if appointed to that patient.
- 8.Admin accounts to manage the whole system.

Project Environment

Language: HTML5, CSS, PHP, JavaScript.

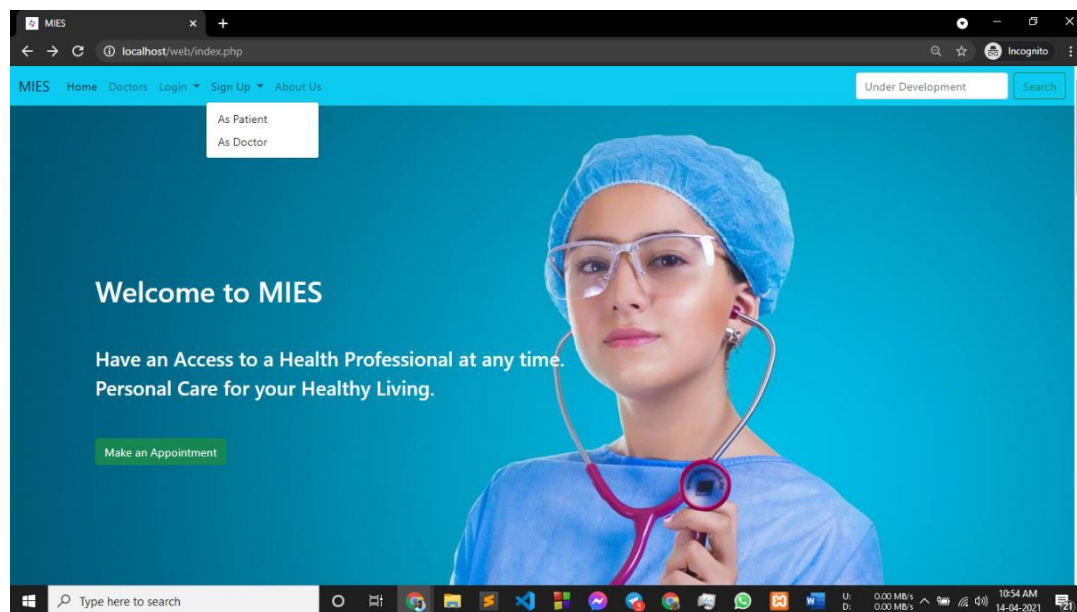
Database: MySQL

Framework: Bootstrap

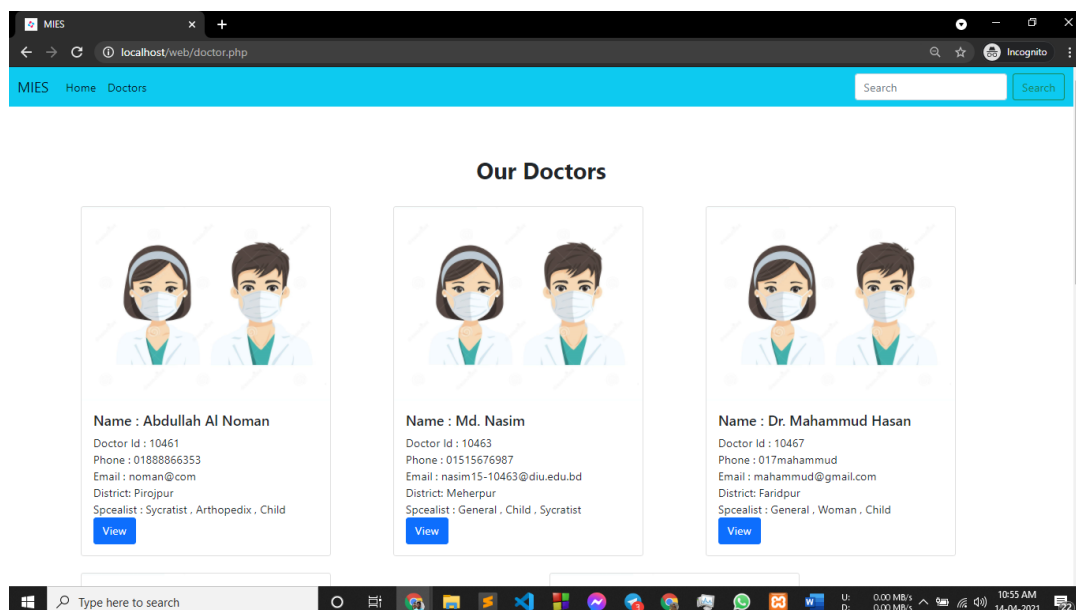
Server: localhost

Project Sample

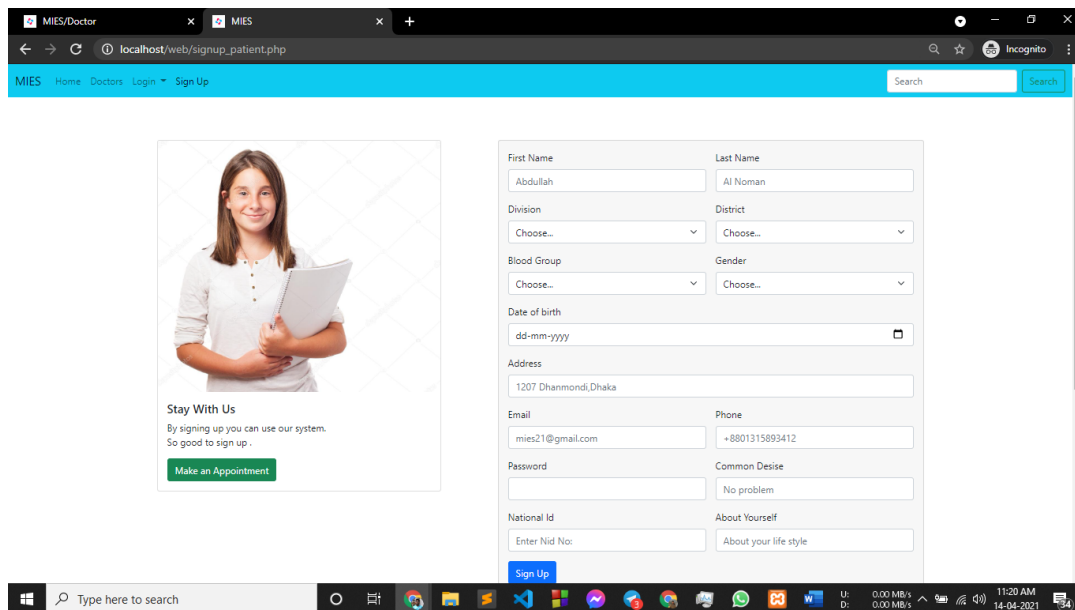
1. Home(index.php)



2. Doctors Page

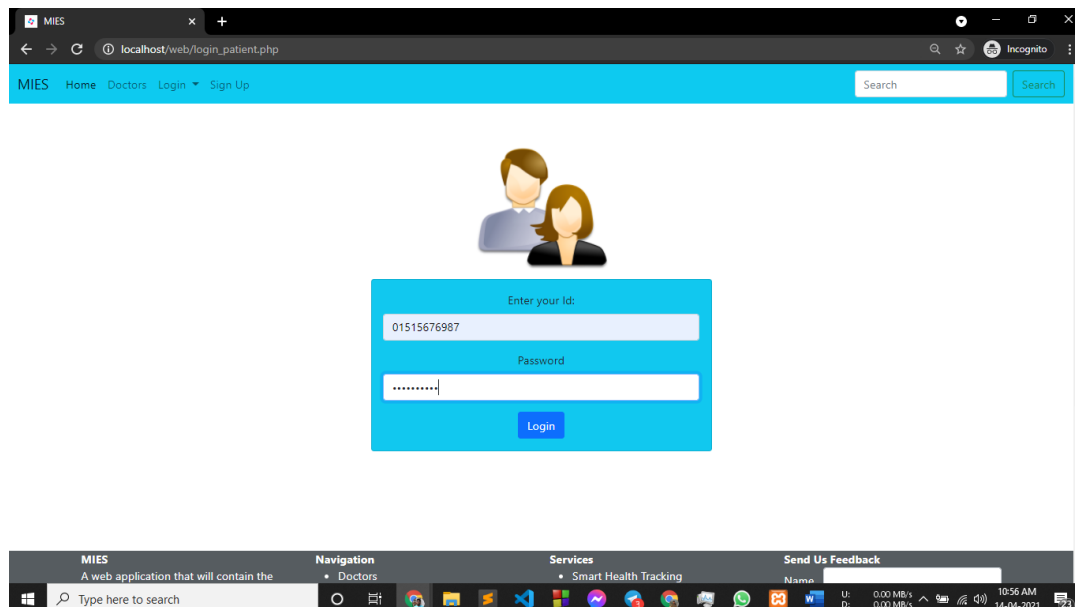


3. Signup Patient



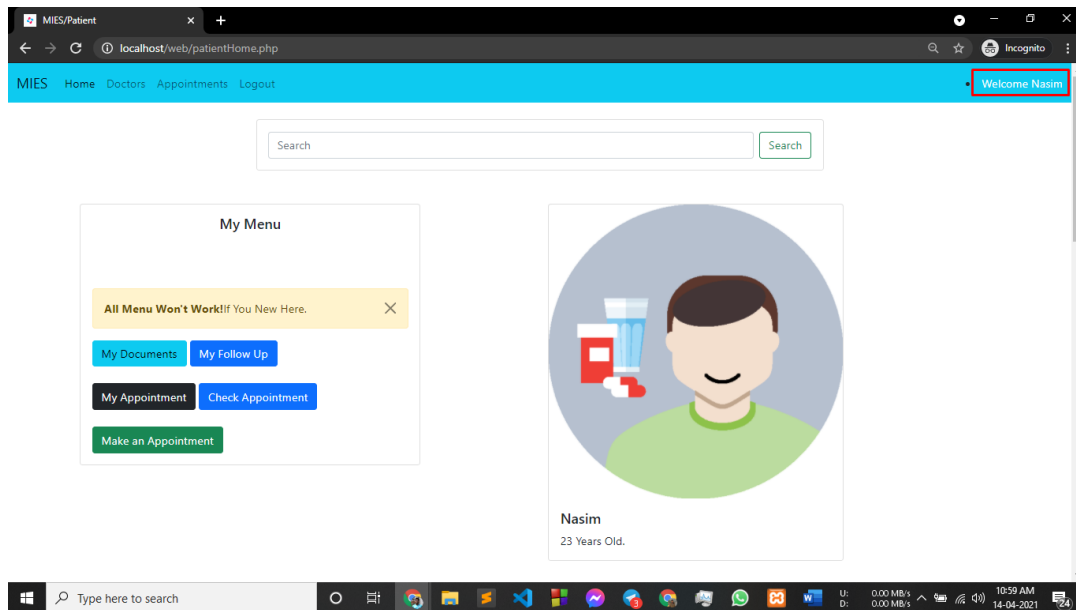
The screenshot shows a web browser window with the URL `localhost/web/signup_patient.php`. The page has a blue header with navigation links: [MIES](#), [Home](#), [Doctors](#), [Login](#), and [Sign Up](#). A search bar is located on the right side of the header. The main content area features a large image of a smiling woman holding a clipboard on the left. Below the image is a text box that says "Stay With Us" and "By signing up you can use our system. So good to sign up." with a green "Make an Appointment" button. To the right of the image is a form with the following fields: First Name (Abdullah), Last Name (Al Noman), Division (Choose...), District (Choose...), Blood Group (Choose...), Gender (Choose...), Date of birth (dd-mm-yyyy), Address (1207 Dhanmondi, Dhaka), Email (mies21@gmail.com), Phone (+8801315893412), Password, Common Desire (No problem), National Id (Enter Nid No), and About Yourself (About your life style). A blue "Sign Up" button is at the bottom of the form. The Windows taskbar at the bottom shows the time as 11:20 AM on 14-04-2021.

4. Login Patient

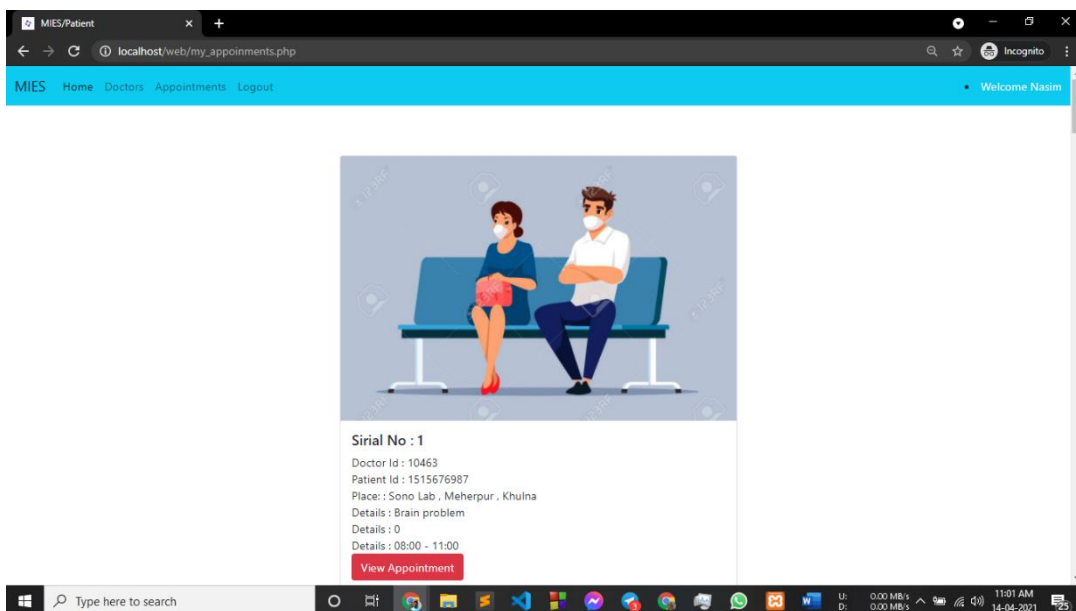


The screenshot shows a web browser window with the URL `localhost/web/login_patient.php`. The page has a blue header with navigation links: [MIES](#), [Home](#), [Doctors](#), [Login](#), and [Sign Up](#). A search bar is located on the right side of the header. The main content area features a large image of a man and a woman. Below the image is a form with the following fields: Enter your Id: (01515676987), Password (masked with dots), and a blue "Login" button. The Windows taskbar at the bottom shows the time as 10:56 AM on 14-04-2021.

5. Patient Home



6. My appointment (Patient)



7. Take Appointment 1

The screenshot shows a web browser window with the URL `localhost/web/appointment.php`. The page has a blue header with navigation links: MIES, Home, Doctors, Logout, Appointment, and a search bar. On the left, there is a sidebar with a calendar graphic and the text "Make your Appointment". The main content area contains a form for patient information. The form fields are: Patient Id (01515676987), First Name (Md), Last Name (Nasim), Division (Choose...), District (Choose...), Email (nasim15-10463@diu.edu.bd), Phone (01515676987), Common Desise (mental health), and Disease (Chose ..). A "Next" button is at the bottom right of the form.

Make your Appointment
Check your information if right then.
Click Next Page .
[Make an Appointment](#)

Patient Id
01515676987

First Name
Md

Last Name
Nasim

Division
Choose...

District
Choose...

Email
nasim15-10463@diu.edu.bd

Phone
01515676987

Common Desise
mental health.

Disease
Chose ..

[Next](#)

8. Take Appointment 2

The screenshot shows a web browser window with the URL `localhost/web/appointment_2.php`. The page has a blue header with navigation links: MIES, Home, Doctors, Logout, Appointment, and a search bar. On the left, there is a sidebar with a calendar graphic and the text "Select your Doctor". The main content area contains a form for selecting a doctor and describing the desire. The form fields are: Select Doctor (Choose...), Describe your desise (Felling pain in my back), and a "Next...." button. At the bottom, there is a footer with navigation links, services, and a feedback form.

Select your Doctor
You can see all doctors information.
Click Next .
[View Doctors](#)

Select Doctor
Choose...

Describe your desise
Felling pain in my back

[Next....](#)

MIES
A web application that will contain the medical history data of every patient for hospitals, doctors or patients can access data form anywhere-anytime

Navigation

- Doctors
- Appointments
- Contact
- Health Blogs
- Logins

Services

- Smart Health Tracking
- Medical Consultation
- Blood Bank
- Artificial Recommendation
- Digital Appointment

Send Us Feedback
Name
Email
Rate Satisfactory

9. Take Appointment 3

MIES/Doctor

localhost/web/appointment_3.php

MIES Home Logout Appointment

Search

Set Your Appointment Schedule
If you want you can change / cancel your schedule.
Click Next .

Date

Choose...

Choose...

20-04-2021(Tuesday)
17-04-2021(Saturday)
17-04-2021(Saturday)
19-04-2021(Monday)
19-04-2021(Monday)

MIES
A web application that will contain the medical history data of every patient for hospitals, doctors or patients can access data form anywhere-anytime

Navigation

- Doctors
- Appointments
- Contact
- Health Blogs
- Logins

Services

- Smart Health Tracking
- Medical Consultation
- Blood Bank
- Artificial Recommendation
- Digital Appointment

Send Us Feedback

Name

Email

Rate

☒ Satisfactory

☐ Good / Excellent

10. Take Appointment 4

MIES/Doctor

localhost/web/appointment_3b.php

MIES Home Logout Appointment

Search

Set Your Appointment Schedule
If you want you can change / cancel your schedule.
Click Next .

Date

08:20 - 11:50

Choose...

08:20 - 11:50

16:00 - 20:00

MIES
A web application that will contain the medical history data of every patient for hospitals, doctors or patients can access data form anywhere-anytime

Navigation

- Doctors
- Appointments
- Contact
- Health Blogs
- Logins

Services

- Smart Health Tracking
- Medical Consultation
- Blood Bank
- Artificial Recommendation
- Digital Appointment

Send Us Feedback

Name

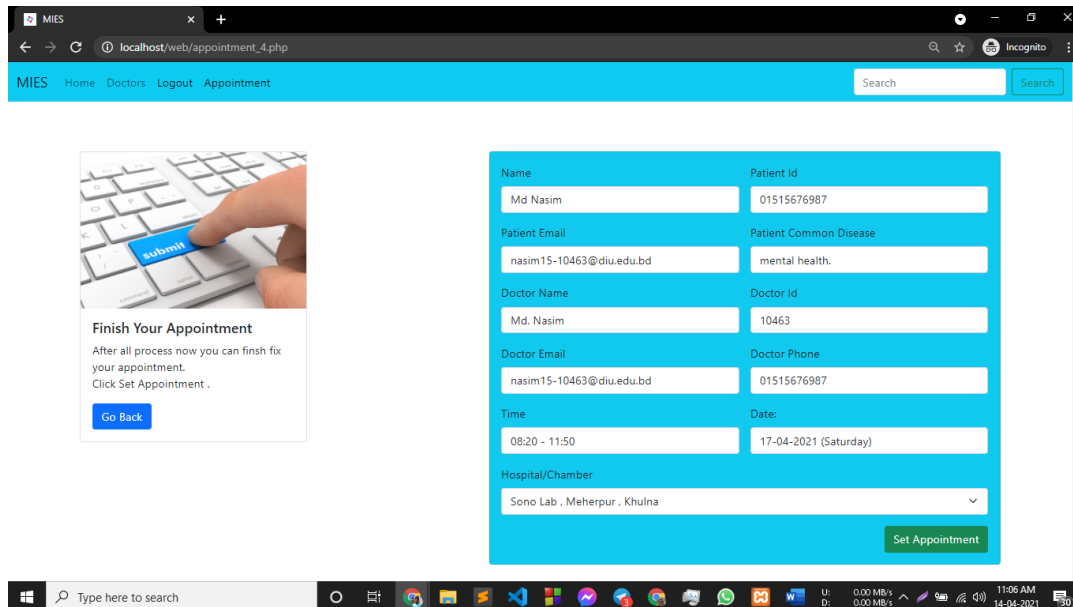
Email

Rate

☒ Satisfactory

☐ Good / Excellent

11. Take Appointment 5



The screenshot shows a web browser window with the URL `localhost/web/appointment_4.php`. The page has a blue header with navigation links: [MIES](#), [Home](#), [Doctors](#), [Logout](#), and [Appointment](#). A search bar is located on the right. The main content area is divided into two sections. On the left, there is a card titled "Finish Your Appointment" with a sub-header "After all process now you can finish fix your appointment. Click Set Appointment ." and a "Go Back" button. On the right, there is a large form titled "Set Appointment" with the following fields:

Name	Patient Id
Md Nasim	01515676987

Patient Email	Patient Common Disease
nasim15-10463@diu.edu.bd	mental health.

Doctor Name	Doctor Id
Md. Nasim	10463

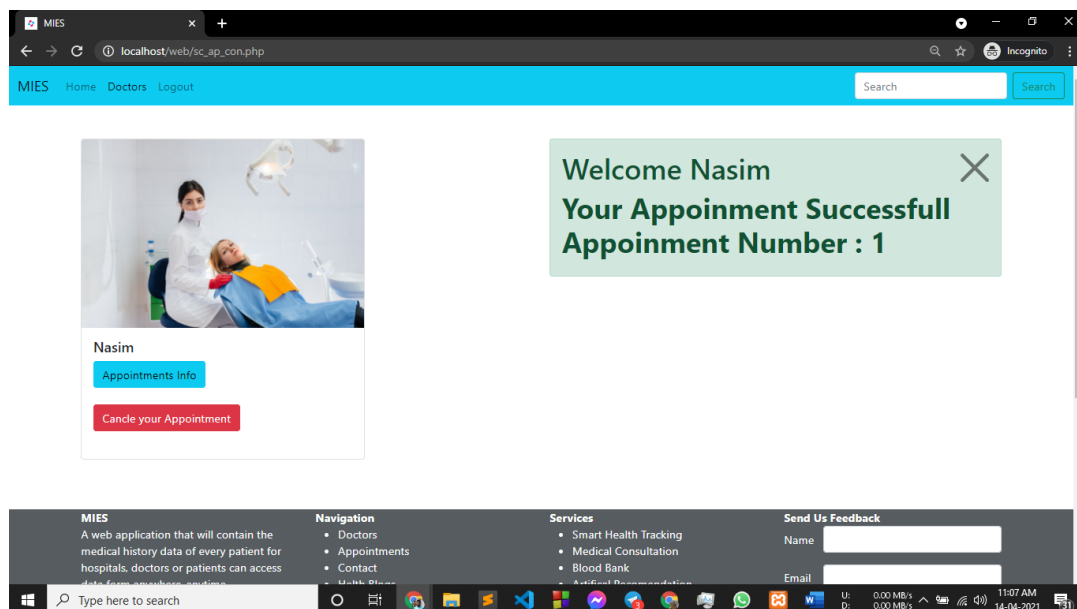
Doctor Email	Doctor Phone
nasim15-10463@diu.edu.bd	01515676987

Time	Date:
08:20 - 11:50	17-04-2021 (Saturday)

Hospital/Chamber: Sono Lab , Meherpur , Khulna

[Set Appointment](#)

12. Confirmed Appointment



The screenshot shows a web browser window with the URL `localhost/web/sc_ap_con.php`. The page has a blue header with navigation links: [MIES](#), [Home](#), [Doctors](#), and [Logout](#). A search bar is located on the right. The main content area is divided into two sections. On the left, there is a card titled "Nasim" with a sub-header "Appointments Info" and a "Cancel your Appointment" button. On the right, there is a large green box with the text "Welcome Nasim Your Appointment Successfull Appointment Number : 1".

MIES
A web application that will contain the medical history data of every patient for hospitals, doctors or patients can access data from anywhere anytime.

Navigation

- Doctors
- Appointments
- Contact
- Health Plan

Services

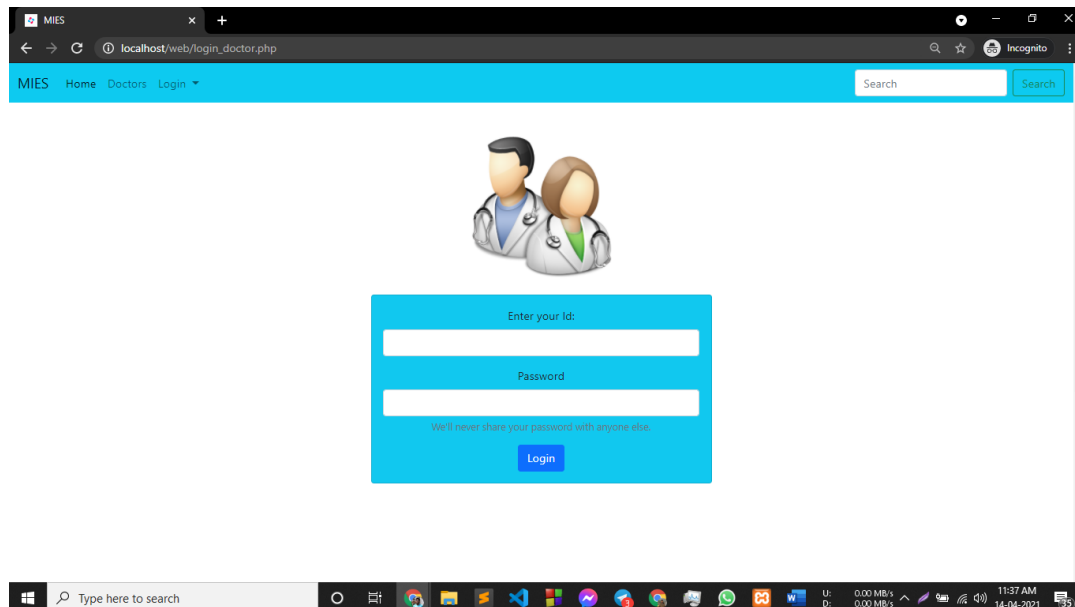
- Smart Health Tracking
- Medical Consultation
- Blood Bank
- Artificial Intelligence

Send Us Feedback

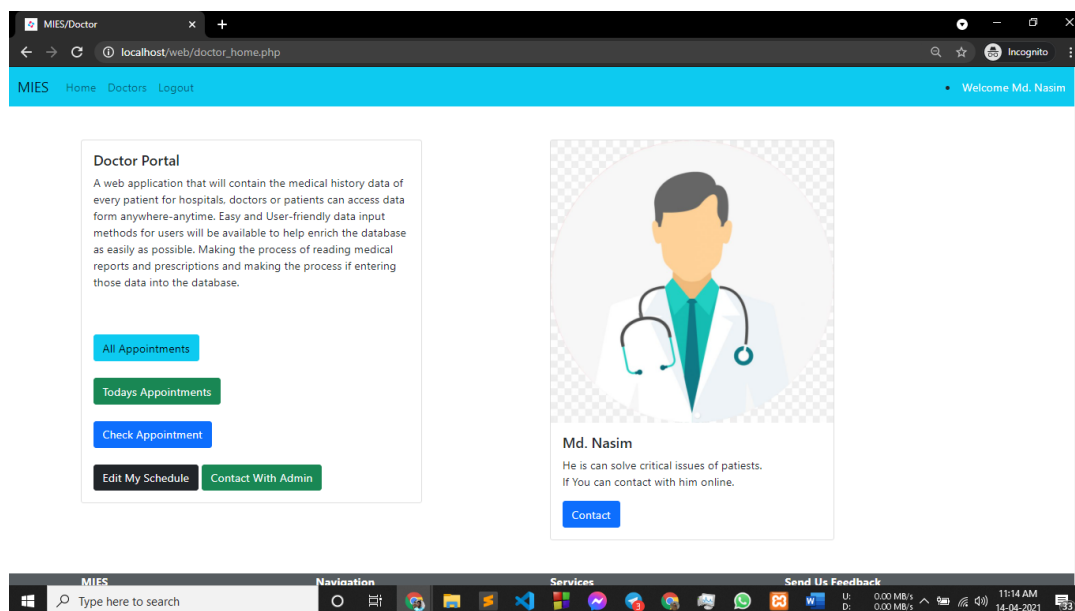
Name:

Email:

13. Doctor Login



14. Doctor Home



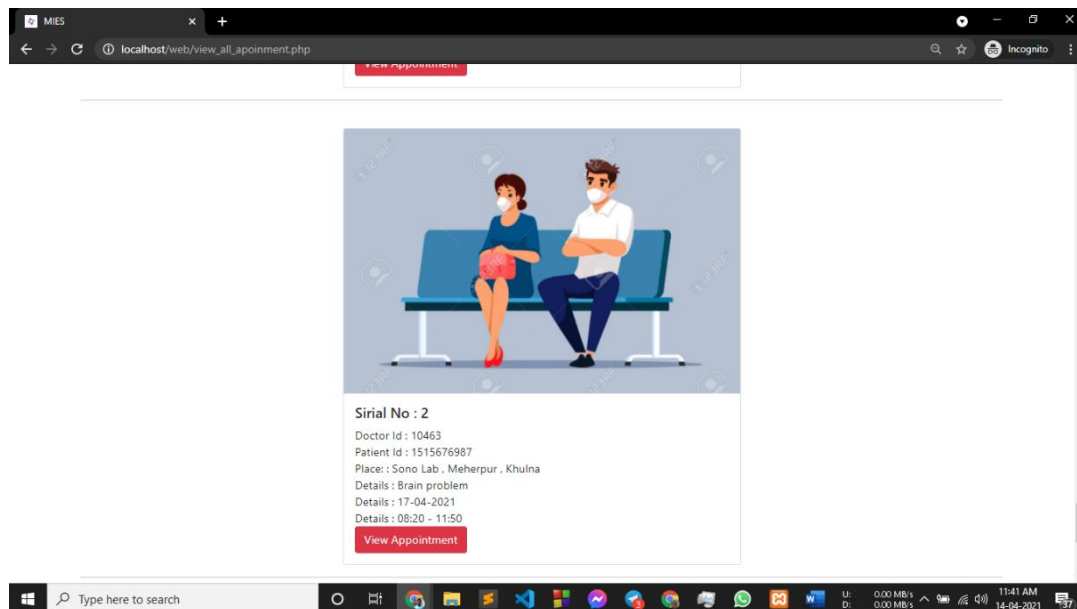
15. Doctor edit Schedule:

The screenshot shows a web browser window with the URL `localhost/web/doc_time.php`. The page has a blue header with navigation links: [MIES](#), [Home](#), [Doctors](#), [Set Time](#), and [Logout](#). A user greeting "Welcome Md. Nasim" is visible in the top right. The main content area is divided into two sections. On the left, there is a placeholder image of a doctor and a "Set Your Schedule" section with the text "You can change your time letter.." and a green "Make an Appointment" button. On the right, there is a "Set Time" form with the following fields: "Select Day" (a dropdown menu with "Choose..." selected), "Start Time" and "End Time" (each with a time picker), "Division" and "District" (each with a dropdown menu with "Choose..." selected), and "Enter Place" (a text input field containing "17/7 Middle palke para , Mirpur 1 , Dhaka 1216"). A blue "Set Time" button is at the bottom of the form. The Windows taskbar at the bottom shows the time as 11:40 AM on 14-04-2021.

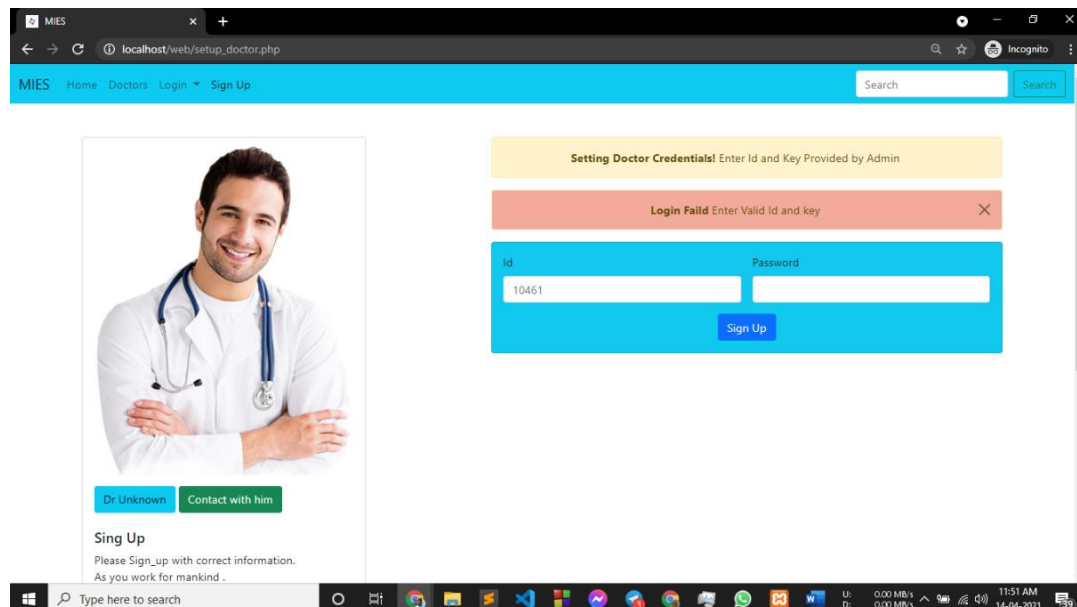
16. Doctor today's Appointment view

The screenshot shows a web browser window with the URL `localhost/web/view_doctor_appointment.php`. The page has a blue header with navigation links: [MIES](#), [Home](#), [Today's Appointments](#), [My all Appointments](#), and [Logout](#). A search bar is located on the right side of the header. Below the header, there is a red notification banner that says "No appointment Today". The main content area is divided into four sections: "MIES" (a description of the application), "Navigation" (a list of links: [Doctors](#), [Appointments](#), [Contact](#), [Health Blogs](#), [Logins](#)), "Services" (a list of services: [Smart Health Tracking](#), [Medical Consultation](#), [Blood Bank](#), [Artificial Recommendation](#), [Digital Appointment](#)), and "Send Us Feedback" (a form with fields for Name, Email, and Rate, and a "Send" button). The footer shows the text "Last Modified Time: 10.00 PM, 27 March 2021" and "All rights reserved to antFarm". The Windows taskbar at the bottom shows the time as 11:43 AM on 14-04-2021.

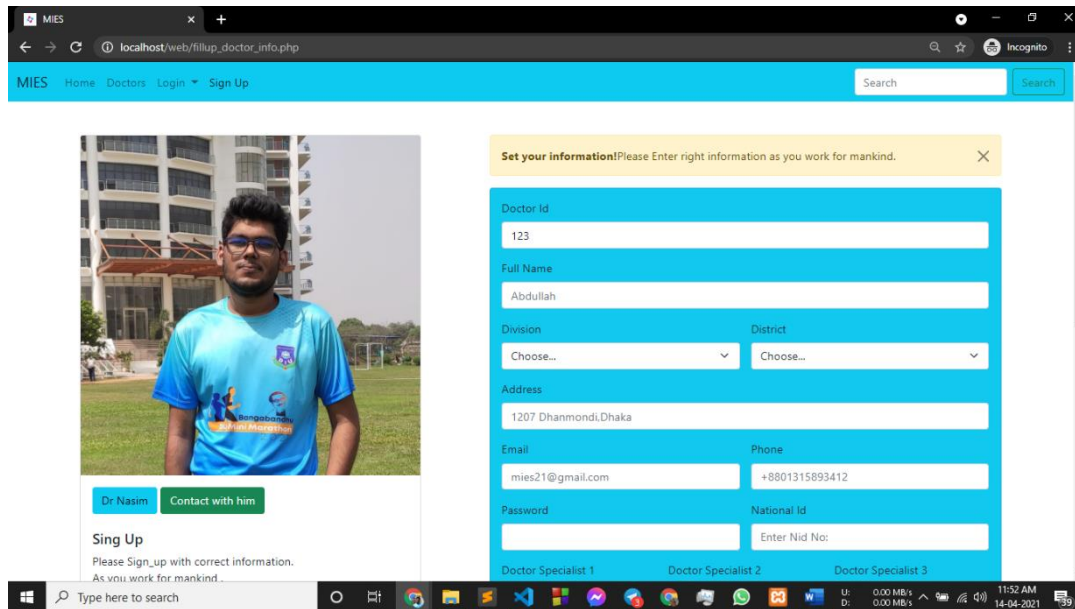
17. Doctor All Appointment view



18. Doctor Sign up 1 , Take id and temporary pin form Admin.

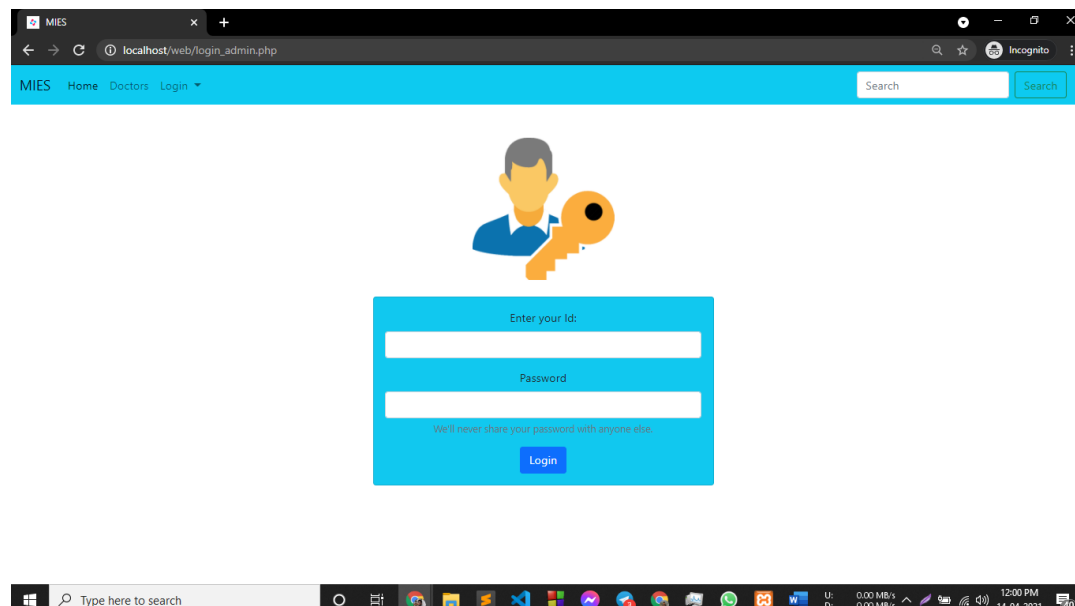


19. Doctor set Up



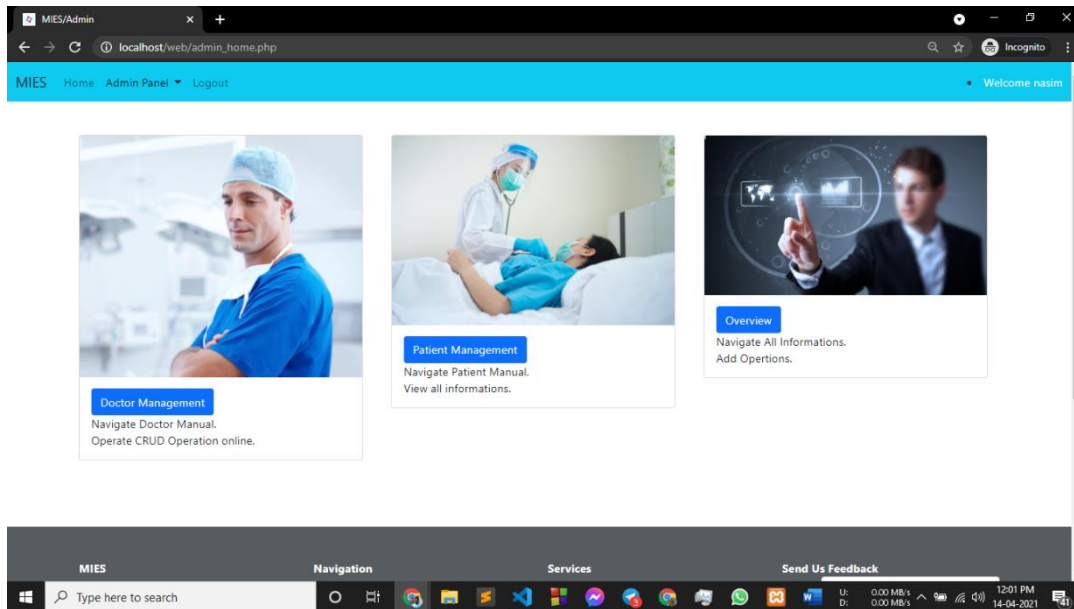
The screenshot shows a web browser window with the URL `localhost/web/flipup_doctor_info.php`. The page has a blue header with the MIES logo and navigation links: Home, Doctors, Login, and Sign Up. A search bar is located on the right. The main content area features a profile picture of a man in a blue shirt, with buttons for 'Dr Nasim' and 'Contact with him'. Below the photo is a 'Sing Up' section with the text 'Please Sign_up with correct information. As you work for mankind...'. To the right is a form titled 'Set your information! Please Enter right information as you work for mankind.' with fields for Doctor Id (123), Full Name (Abdullah), Division (Choose...), District (Choose...), Address (1207 Dhanmondi, Dhaka), Email (mies21@gmail.com), Phone (+8801315893412), Password, and National Id (Enter Nid No:). At the bottom, there are three tabs labeled 'Doctor Specialist 1', 'Doctor Specialist 2', and 'Doctor Specialist 3'. The Windows taskbar at the bottom shows the time as 11:52 AM on 14-04-2021.

20. Admin Login

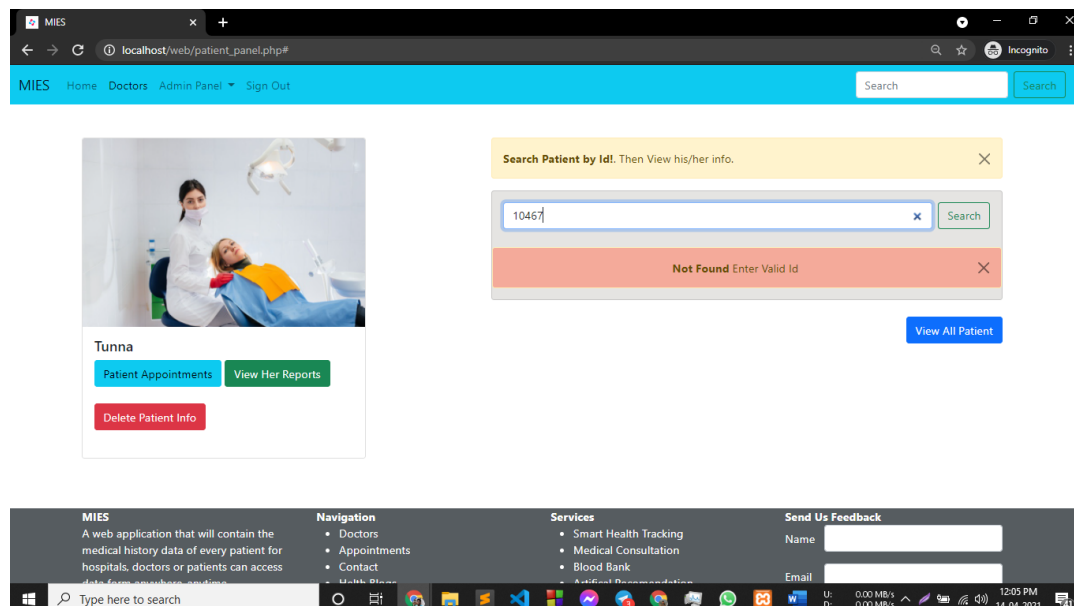


The screenshot shows a web browser window with the URL `localhost/web/login_admin.php`. The page has a blue header with the MIES logo and navigation links: Home, Doctors, Login, and Sign Up. A search bar is located on the right. The main content area features a large illustration of a person holding a key. Below the illustration is a login form with fields for 'Enter your Id:' and 'Password', and a 'Login' button. A message below the password field states 'We'll never share your password with anyone else.' The Windows taskbar at the bottom shows the time as 12:00 PM on 14-04-2021.

21. Admin Home



22. Patient Portal(admin)



23. Search Patient

MIES

Home Doctors Admin Panel Sign Out

Search

Search Patient by Id!. Then View his/her info.

01515676987

Search

Name: Nasim

Lived In : Meherpur

Common Disese: mental health.

Phone No: 01515676987

Email: nasim15-10463@diu.edu.bd

View All Patient

MIES

A web application that will contain the medical history data of every patient for hospitals, doctors or patients can access

Navigation

- Doctors
- Appointments
- Contact

Services

- Smart Health Tracking
- Medical Consultation
- Blood Bank

Send Us Feedback

Name

Type here to search

12:05 PM 14-04-2021

24. View patient appointment

MIES

Home Doctors Admin Panel Sign Out

Search

Search Patient by Id!. Then View his/her info.

11111

Search

Patient Id: 11111

Doctor Id 10468

Date: 14-04-2021

Time : 14:00 - 15:00

Appointment Id: 12

View All Patient

MIES

A web application that will contain the medical history data of every patient for hospitals, doctors or patients can access

Navigation

- Doctors
- Appointments
- Contact

Services

- Smart Health Tracking
- Medical Consultation
- Blood Bank

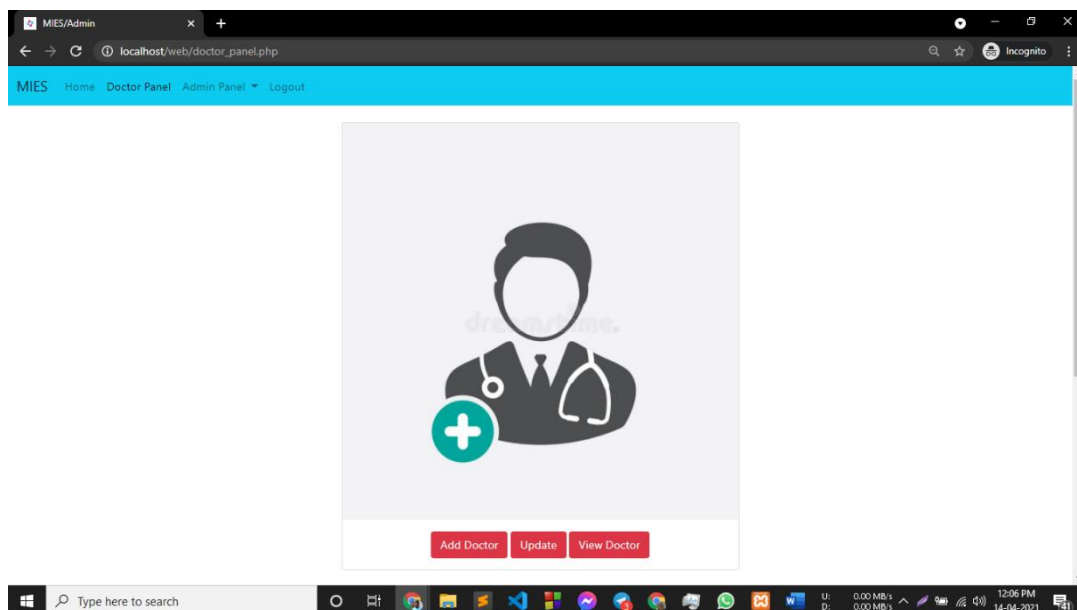
Send Us Feedback

Name

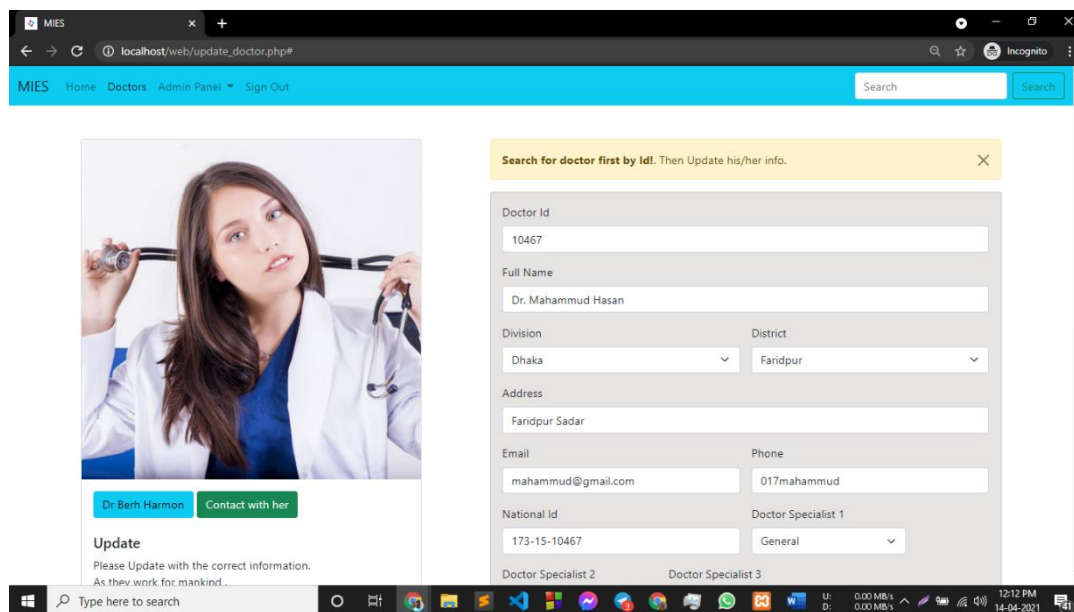
Type here to search

12:05 PM 14-04-2021

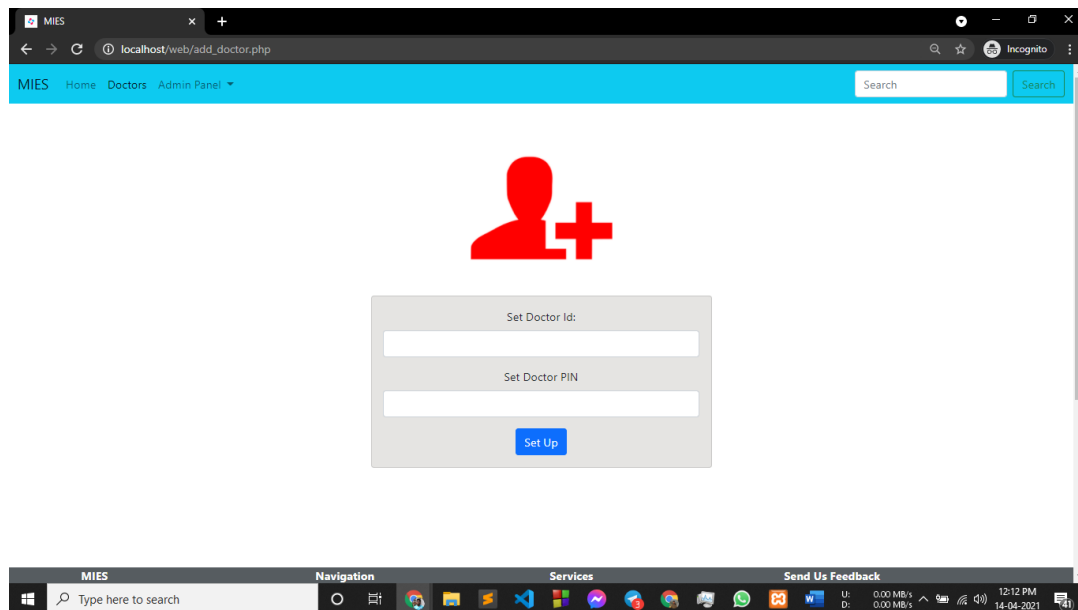
25. Doctor Portal(admin)



26. Doctor Update



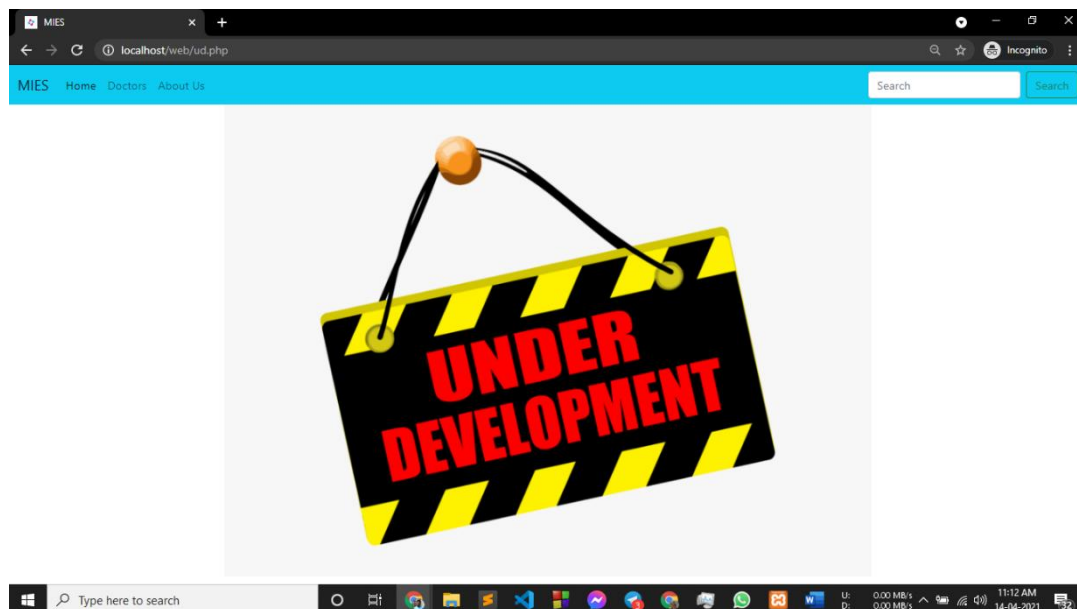
27. Create Doctor id



The screenshot shows a web browser window with the URL `localhost/web/add_doctor.php`. The page has a blue header with the MIES logo and navigation links: Home, Doctors, and Admin Panel. A search bar is located on the right. The main content area features a red icon of a person with a plus sign. Below this is a form with two input fields: 'Set Doctor Id:' and 'Set Doctor PIN'. A blue 'Set Up' button is at the bottom of the form. The Windows taskbar at the bottom shows the time as 12:12 PM on 14-04-2021.

28. Under development ()

We wanted to add dozens of new pages but time was really short.




29. About Us

MIES/Admin x +


localhost/web/about_us.php

Incognito


Team antFarm



Sik Noman
Felling Happy to Alive.
Try to become a man of Value.
Responsible for System Design



Ahmed Ragib Hassan
I'm the biggest meme maker.
Design and Database Implimentor



Nasim Parvez
Also Known As Time Bug.
No magic can help you. It's you who will help you.
Responsible for System Backend Operation

Type here to search

01:10 PM
14-04-2021

Project outcomes

1. Transfer entire medical services to online so we can tackle worldwide pandemics and health hazards more efficiently
2. Create a central and secure patient medical history database for medical use
3. Make Medical disease detection, Specialist selection, Treatment Appointments, Medication easy, online based and automated from patients' point of view
4. Make instant access of accurate pre-recorded medical data for Doctors to use so that they can deliver flawless and fruitful treatment to patients

Future plan

1. To establish a reliable central medical server for Hospitals, Doctors and patients to access in order to ensure better and hassle-free treatment.
2. To develop a Text and Image recognition input system where the database can directly take inputs from prescription and test reports.
3. To develop an Automated specialist suggestion system from symptoms given by patients to make the process easier.

Conclusion

Our DevTeam has tirelessly worked to develop a Web Application using the popular web development tools and languages to construct a reliable medical service. We have not only gained great experience but also gained more confidence in our ability to contribute in the field of Web development and produce Web applications which will make significant difference in our life style. This prototype is only the stepping stone and we wish to go beyond in this field of service.