



**Military Institute of Science & Technology  
(MIST) Mirpur Cantonment, Dhaka-1216,  
Bangladesh**

**Department of Computer Science & Engineering**

CSE 220: Object Oriented Programming Sessional-II

**Group No: 1 (ODD)**

**Name of the Project: EYECARE**

SL No.	Name	Student Id
1	Md Farhan Shahriar	202214301
2	Fahian Al Badar	202214302

# **Introduction:**

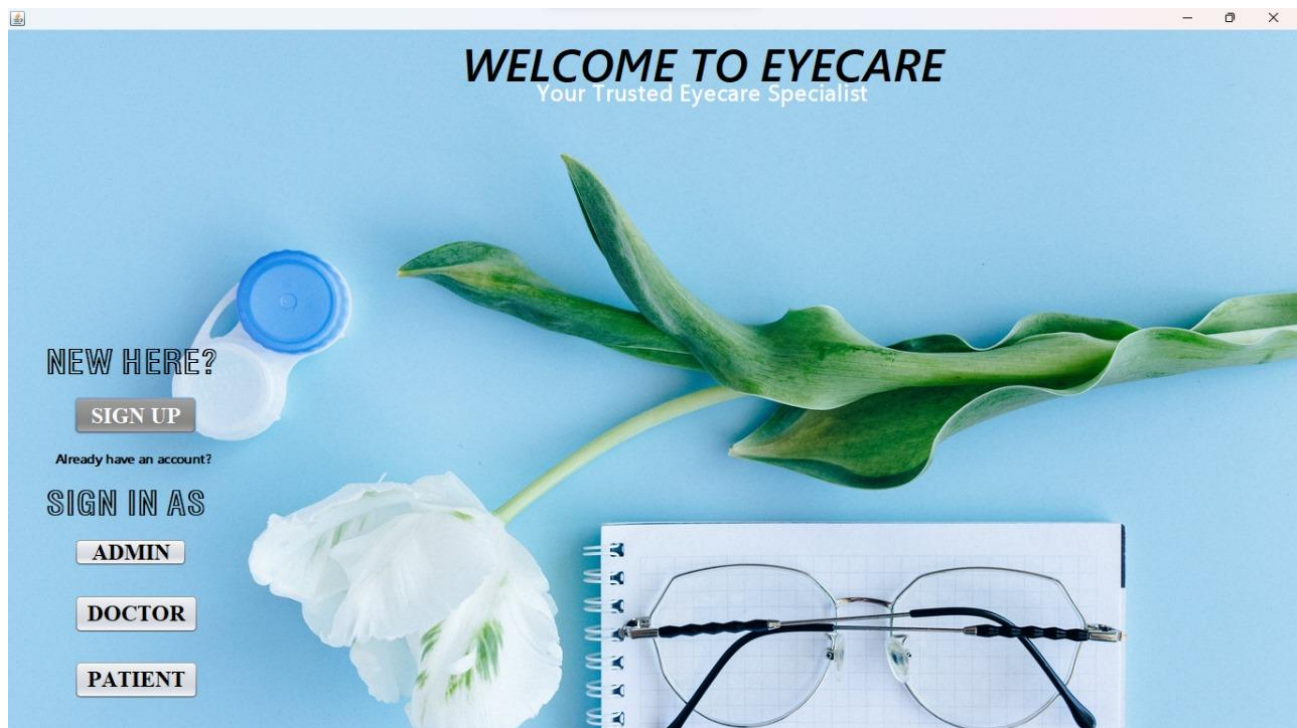
Eyecare, a user-friendly Java-based management system, fundamentally changes how eye clinics operate. By seamlessly integrating functionalities for administrators, doctors, and patients, Eyecare streamlines operations and elevates the overall patient experience. Using Java, Swing and File I/O System, Eyecare is the professional solution to all kind of necessities that might arise in operating an eye clinic

1. Empowering administrators: With dedicated tools for managing appointments, staff schedules, and patient records, Eyecare ensures efficient clinic operations, leaving administrators free to focus on strategic initiatives. The administrators can manage all the functionalities of the clinic smoothly and if it is required, they can easily pinpoint any sort of mismanagement and deal with the matter right away.
2. Enhancing doctor efficiency: Doctors enjoy access to comprehensive patient information, diagnostic data analysis tools, and treatment plan formulation resources, all readily available within the Eyecare interface. The streamlined approach would allow the doctors to allocate their time wisely depending on the necessity of each patient. Also, doctors can easily decide a course of action for each patient through background reading and past records of their regular patients.
3. Empowering patients: Patients benefit from a user-friendly interface that empowers them to book appointments, view their medical records, and communicate directly with their doctors, fostering a more informed and engaged healthcare journey. The informed decision of the patients, by taking help from Eyecare, will ensure better treatment and faster recovery. The one-to-one interaction will also allow the patients to realize the extent of their problems and also to take necessary preventive measures.
4. Bridging the gap: Eyecare acts as a bridge between healthcare professionals and patients, facilitating collaboration and fostering an efficient environment that optimizes eye care delivery and patient outcomes. It would also help the patients to get treatment based on priority as well as emergency. It will also work universally as one can remotely avail the facilities of the eye clinic.

## Features:

### GUI Design

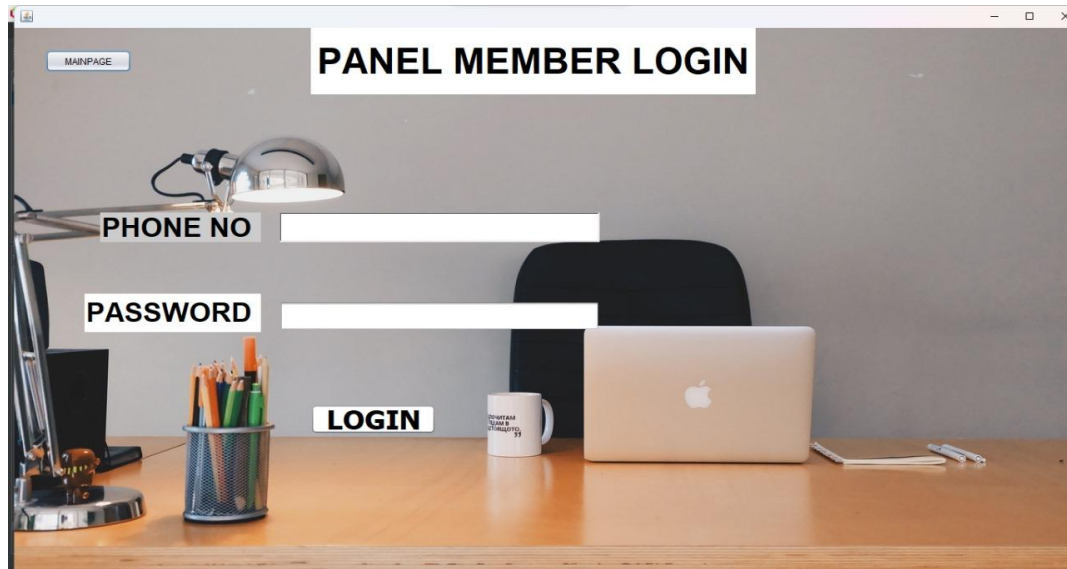
An eye soothing welcome page for all kinds of users (Admin, Doctors and Patients)



**Figure 01: Welcome screen**

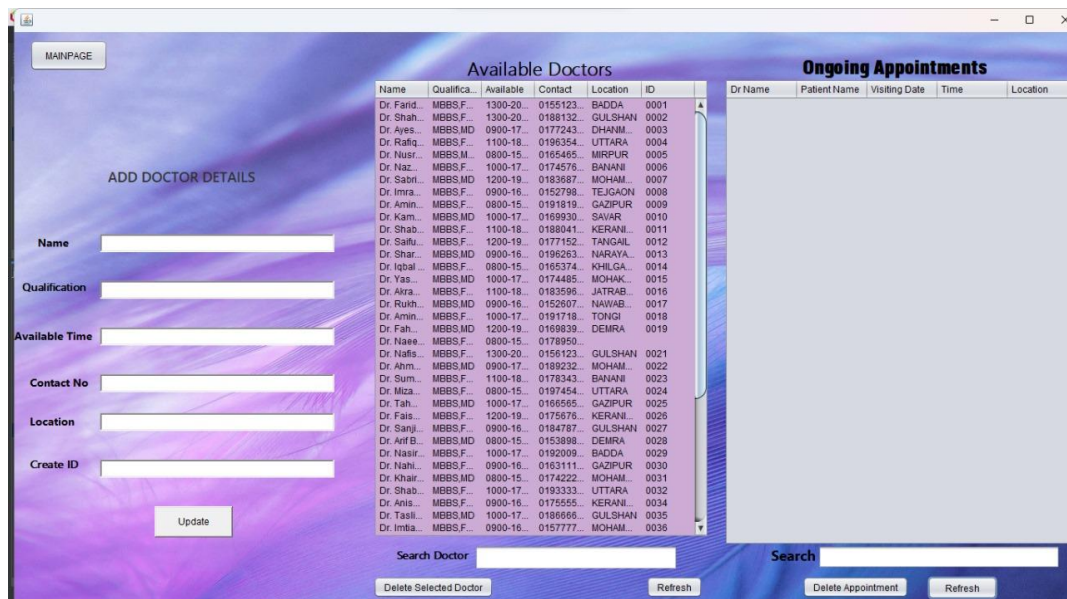
## Separate GUI for Admin, Doctor and Patient

The Admin member can login from this screen or retract back to the welcome screen.



**Figure 02:** Login page (Admin)

Once the Admin member logs in, he/she can see the available doctors as well as can add more doctors if required.



**Figure 03:** Dashboard (Admin)

A doctor can view patient requests, ongoing appointments as well as can add new patients for treatment

The screenshot displays a web application interface for a doctor's dashboard. It features three main sections: 'PATIENT REQUEST', 'ONGOING APPOINTMENTS', and 'APPOINT PATIENT'. The 'PATIENT REQUEST' section has a table with columns for Name, Age, Phone No, Location, and Problems. The 'ONGOING APPOINTMENTS' section has a table with columns for Dr Name, Patient Name, Visiting Date, Time, and Location. The 'APPOINT PATIENT' section includes form fields for Name Of Doctor, Patient Name, Visiting Date, Visiting Time, and Location, along with a SUBMIT button. A Search bar and Refresh button are located at the bottom left. A Mainpage button is at the bottom right.

**Figure 04:** Dashboard (Doctor)

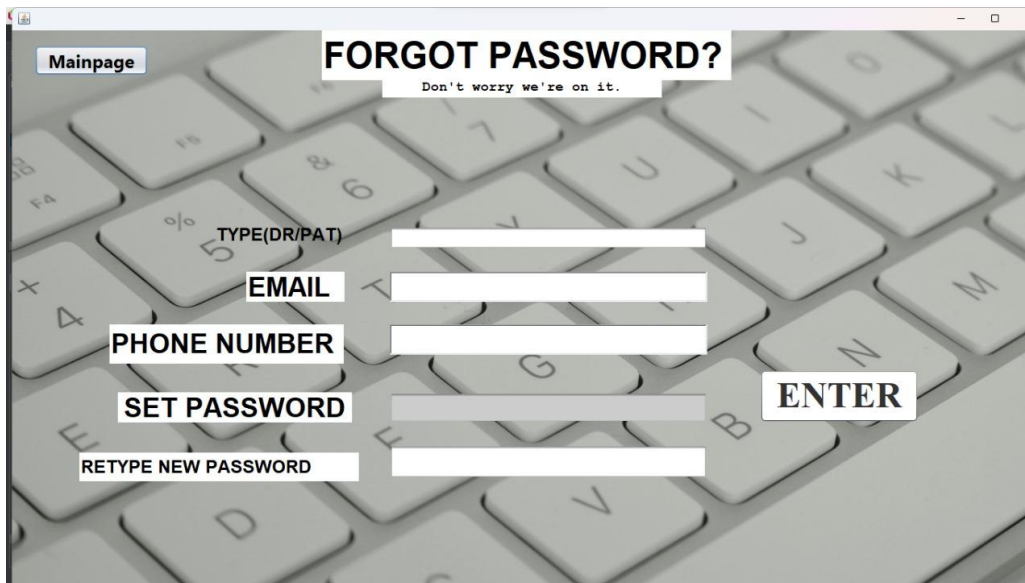
This is the login page for the doctors. Besides login, a doctor can also request for a new password in case he/she forgets the password.

The screenshot shows a login page for doctors. It features a background image of a doctor in a white coat holding a stethoscope. The page has a 'Mainpage' button in the top left corner. The main heading is 'HELLO DOCTOR'. Below this, there are two input fields: 'PHONE NO' and 'PASSWORD'. A 'LOGIN' button is positioned below the password field. To the right of the login button is a link that says 'Forgot PASSWORD?'. A 'Mainpage' button is also present in the top left corner of the login area.

**Figure 05:** Login Page (Doctor)



Once a user requests for a new password, the user would be diverted to the page given below to set their new password.



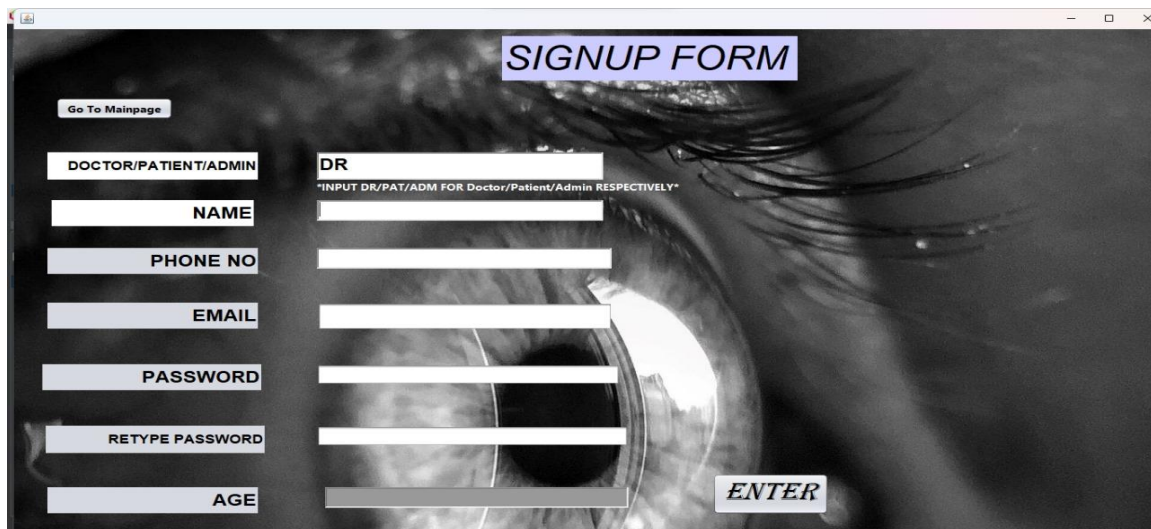
**Figure 06:** New Password Request Page

A patient can register as an user and once the account is created they can simply login using their phone number and password.



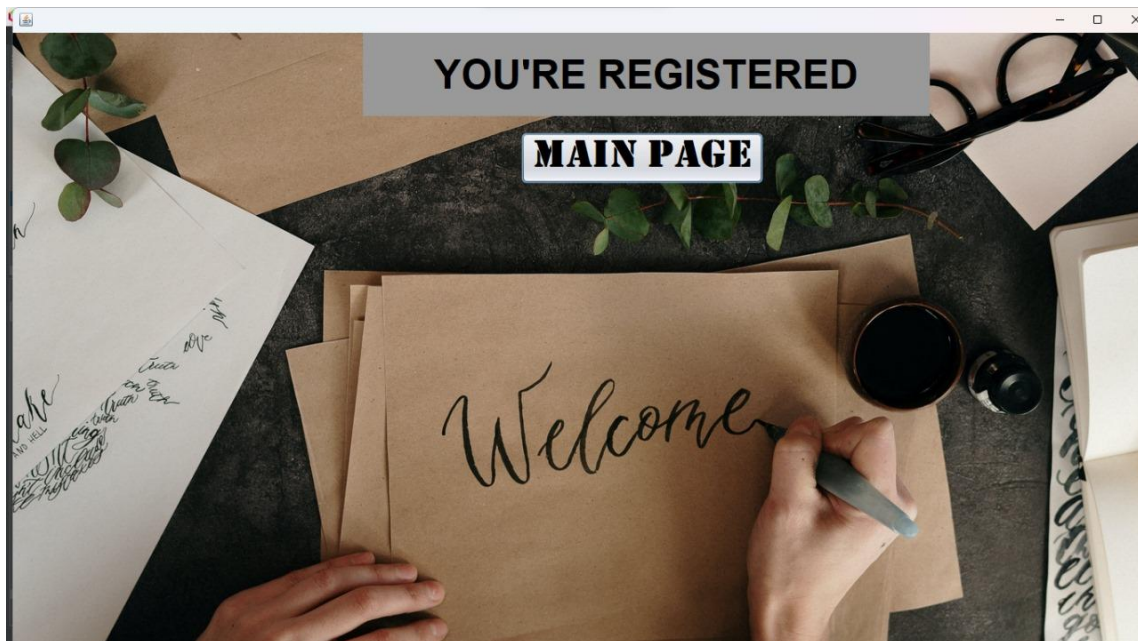
**Figure 07:** Login Page ( Patient)

This is the main signup page for any kind of user. The users are distinguished by the keywords DR, PAT and ADM used for doctors, patients and admin members respectively.

A screenshot of a web browser displaying a sign-up form. The background is a close-up of a human eye. The form is titled "SIGNUP FORM" in a purple box. On the left, there is a "Go To Mainpage" button. Below it, a dropdown menu is set to "DOCTOR/PATIENT/ADMIN". The form fields are: "NAME", "PHONE NO", "EMAIL", "PASSWORD", "RETYPE PASSWORD", and "AGE". A "DR" label is next to the first field, with a note below it: "INPUT DR/PAT/ADM FOR Doctor/Patient/Admin RESPECTIVELY". An "ENTER" button is at the bottom right.

**Figure 08:** Main Sign Up Form

Once registered, the user will see a congratulatory message on the screen.



**Figure 09:** Registration Confirmation Page



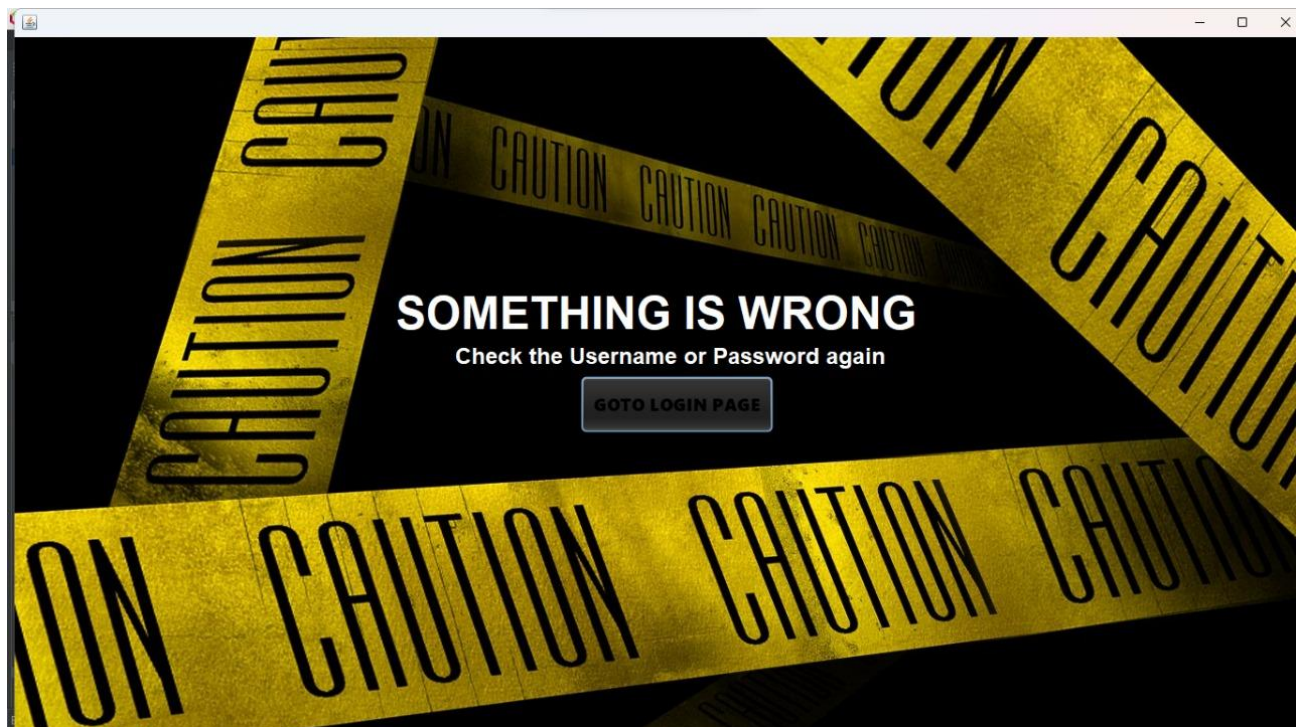


Figure 10: Registration Failure Message

The patients can see the list of doctors and take an appointment seeing the availability of a doctor.

**LIST OF DOCTORS**

Name	Qualification	Available	Contact	Location
Dr. Yasmin Be...	MBBS,MD	1000-1700	01744854567	MOHAKHALI
Dr. Akram Ho...	MBBS,FRCS	1100-1800	01835964567	JATLABARI
Dr. Rukhsar K...	MBBS,MD	0900-1600	01526074567	NAWABGANJ
Dr. Aminul Ha...	MBBS,FCPS	1000-1700	01917184567	TONGI
Dr. Fahimida I...	MBBS,MD	1200-1900	0198394567	DEMIRA
Dr. Naeem Ah...	MBBS,FRCP	0800-1500	01789504567	
Dr. Nafisa Ra...	MBBS,FRCS	1300-2000	01561234567	GULSHAN
Dr. Ahmed Kh...	MBBS,MD	0900-1700	01892324567	MOHAMMADP...
Dr. Sumaiya A...	MBBS,FCPS	1100-1800	01783434567	BANANI
Dr. Mizanur R...	MBBS,FRCP	0800-1500	01974544567	UTTARA
Dr. Tahmina J...	MBBS,MD	1000-1700	01665654567	GAZIPUR
Dr. Faisal Ah...	MBBS,FCPS	1200-1900	01756764567	KERANIGANJ
Dr. Sanjida H...	MBBS,FRCS	0900-1600	01847874567	GULSHAN
Dr. Anif Begum	MBBS,MD	0800-1500	01538984567	DEMIRA
Dr. Nasir Ahm...	MBBS,FCPS	1000-1700	01920094567	BADDA
Dr. Nahid Akter	MBBS,FRCP	0900-1600	01631114567	GAZIPUR
Dr. Khairul Isl...	MBBS,MD	0800-1500	01742224567	MOHAMMADP...
Dr. Shabbab R...	MBBS,FCPS	1000-1700	01933334567	UTTARA
Dr. Anisur Ra...	MBBS,FRCP	0900-1600	01755554567	KERANIGANJ
Dr. Taslima A...	MBBS,MD	1000-1700	01866664567	GULSHAN
Dr. Imtiaz Hos...	MBBS,FCPS	0900-1600	01577774567	MOHAMMADP...
Dr. Farhana B...	MBBS,MD	0800-1500	01988884567	BADDA
Dr. Anwar Ah...	MBBS,FCPS	1000-1700	01699994567	UTTARA
Dr. Sultana Ak...	MBBS,MD	1100-1800	01700004567	GAZIPUR
Dr. Jahangir K...	MBBS,FRCP	0900-1600	01511114567	MOHAMMADP...
Dr. Rubina Su...	MBBS,MD	1000-1700	01622224567	BANANI
Dr. Kazi Rahm...	MBBS,FCPS	1200-1900	01733334567	KERANIGANJ
Dr. Ayesha Akt...	MBBS,MD	0900-1600	01844444567	GULSHAN
Dr. Mustafaizur ...	MBBS,FCPS	1000-1700	01955554567	MOHAMMADP...
Dr. Sabina Ho...	MBBS,MD	0900-1600	01666664567	UTTARA
Dr. Abul Hasan	MBBS,FRCP	1000-1700	01777774567	BADDA
Dr. Fariha Akter	MBBS,MD	1200-1900	01888884567	BANANI
Dr. Nizam Ah...	MBBS,FCPS	0800-1500	01999994567	KERANIGANJ
Dr. Raisul Isla...	MBBS,FCPS...	1000-1200	01111144558	mist
rtg	mbbs	1000-1200	01555489654	mirpur

**CHECK FOR APPOINTMENT**

Dr Name	Patient Na.	Visiting Date	Time	Location
Dr. Kamal ...	Imran Hos...	Sat Nov 18 ...	0930hrs	Mirpur Eye ...
Dr. Akram ...	Aminul Khan	Fri Nov 24 ...	0900hrs	Dhanmon...
Dr. Nusrat ...	Sadia Akter	Sun Nov 2 ...	1630hrs	Mirpur Eye ...
Dr. Amina ...	Shahid Khan	Tue Nov 28 ...	0800hrs	Gulshan E...
Dr. Saifur ...	Mehedi Ha...	Thu Nov 30 ...	1330hrs	Banani Ey...
Dr. Yasmin ...	Rukhsar H...	Sat Dec 2 ...	1130hrs	Dhanmon...
Dr. Fahmid ...	Zahid Rah...	Mon Dec 4 ...	0800hrs	Mirpur Eye ...
Dr. Sabrina ...	Naimul Ha...	Wed Dec 6 ...	1730hrs	Gulshan E...
Dr. Imran ...	Taslima Ali	Fri Dec 8 1...	1430hrs	Banani Ey...
Dr. Sharmi ...	Karim Akter	Sun Dec 1 ...	1030hrs	Dhanmon...
Dr. Rukhsa ...	Sultana Ra...	Tue Dec 1 ...	0800hrs	Mirpur Eye ...
Dr. Akram ...	Naeem Ho...	Thu Dec 1 ...	1900hrs	Gulshan E...
Dr. Nusrat ...	Imran Akter	Sat Dec 16 ...	1630hrs	Banani Ey...
Dr. Amina ...	Sadia Rah...	Mon Dec 1 ...	1430hrs	Dhanmon...
Dr. Saifur ...	Karim Hos...	Wed Dec 2 ...	1030hrs	Mirpur Eye ...
Dr. Yasmin ...	Sumaiya R...	Fri Dec 22 ...	0800hrs	Gulshan E...
Dr. Fahmid ...	Mehedi Akter	Sun Dec 2 ...	1730hrs	Banani Ey...
Dr. Sabrina ...	Fariha Rah...	Tue Dec 2 ...	1500hrs	Dhanmon...
Dr. Imran ...	Nusrat Ali	Thu Dec 2 ...	1130hrs	Mirpur Eye ...
Dr. Sharmi ...	Imran Akter	Sat Dec 30 ...	0900hrs	Gulshan E...
Dr. Rukhsa ...	Nasir Rah...	Mon Jan 2 ...	1800hrs	Banani Ey...
Dr. Akram ...	Fariha Akter	Wed Jan 4 ...	1530hrs	Dhanmon...
Dr. Nusrat ...	Amin Khan	Fri Jan 6 1...	1300hrs	Mirpur Eye ...

Search:  Refresh

**Take An Appoint...**

NAME:

AGE:

PROBLEM:

Phone No:

Location:

SUBMIT

EYE HOSPITAL NEAR ME

EYE SHOPS NEAR ME

Figure 11: Dashboard (Patient)



### **Limitations:**

1. Absence of OTP in case of new password request.
2. No window for uploading pictures in case the patient wants to apprise the doctor about the severity of the situation.

### **Future Developments and Scopes:**

1. In case of a new password request, a confirmation or a warning email will be sent to the users. OTPs can be implemented as well.
2. A patient can talk or chat with a representative to know availability of doctors in case of an emergency.
3. FAQs section can be added.
4. Databases can be used to handle huge amount of new user's data entry.

## **Conclusion:**

Eyecare is the stepping stone towards the world of information management systems (IMS). Almost all kinds of organizations require IMS. We have used IMS to deal with very specific kinds of problems that people requiring an eye treatment face on a daily basis. Unavailability of an eye specialist or not knowing where and when an ophthalmologist is available deteriorates the current eye situation of the patient. Our project balances the needs of the patients by integrating their queries and necessities with both doctors and admin members. We have also put in the links for nearby eye shops and pharmacies for the eye patients. The project has a lot of potential to be more dynamic and currently uses the functionalities of both Java and Swing.