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

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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.
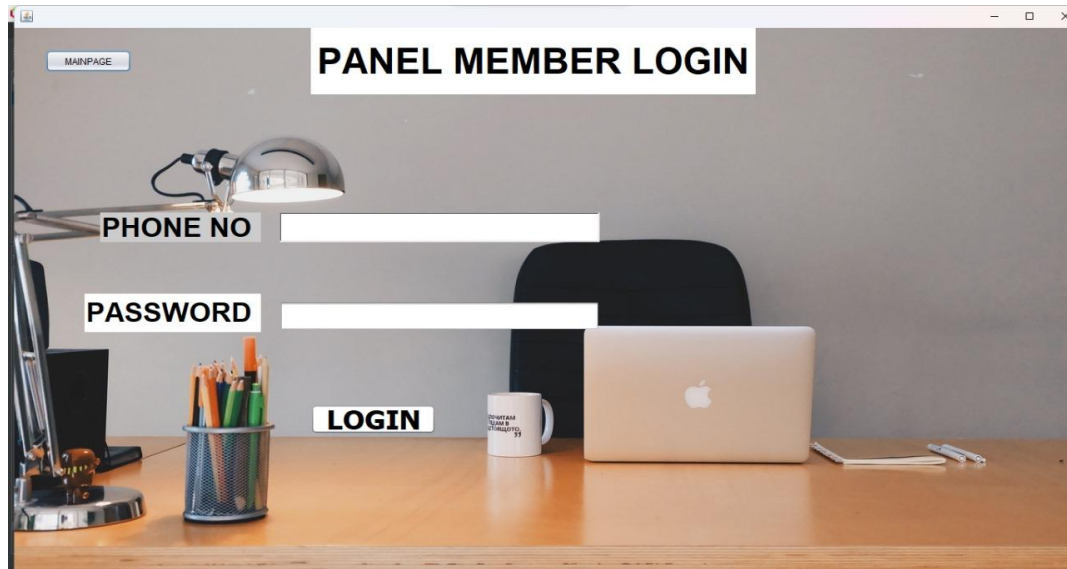
Features:

GUI Design

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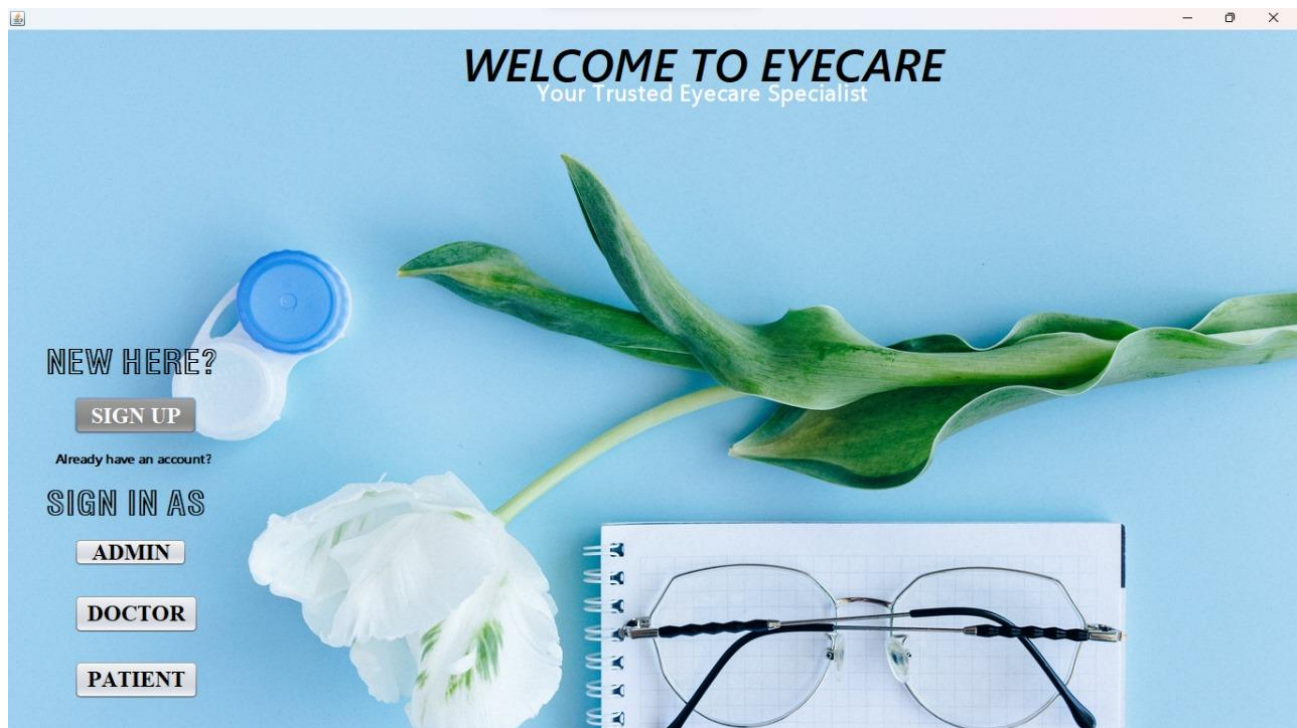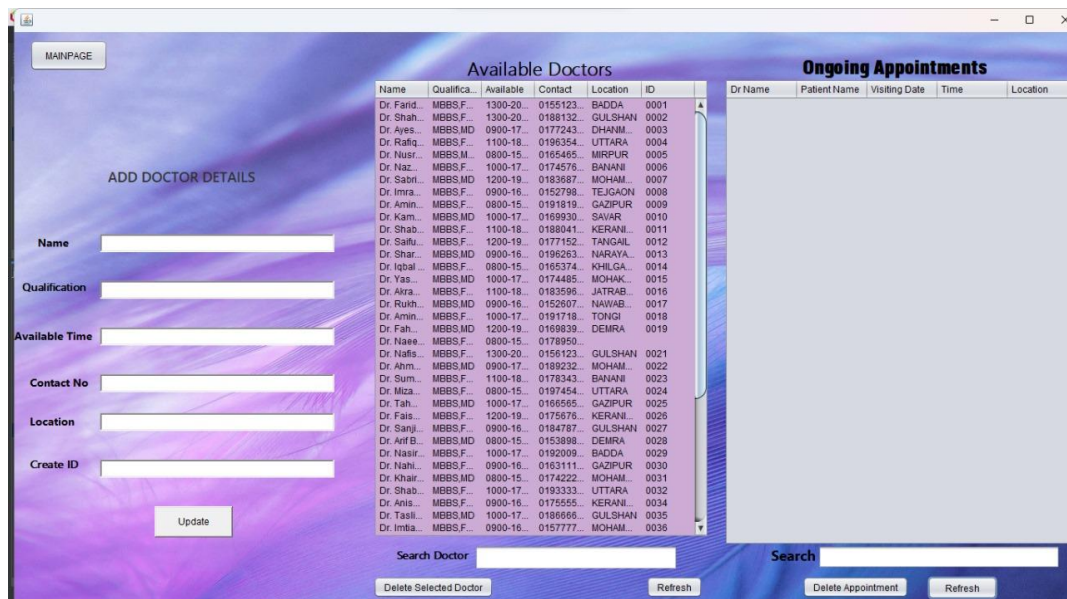

Figure 01: Welcome screen

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

Figure 04: Dashboard (Doctor)
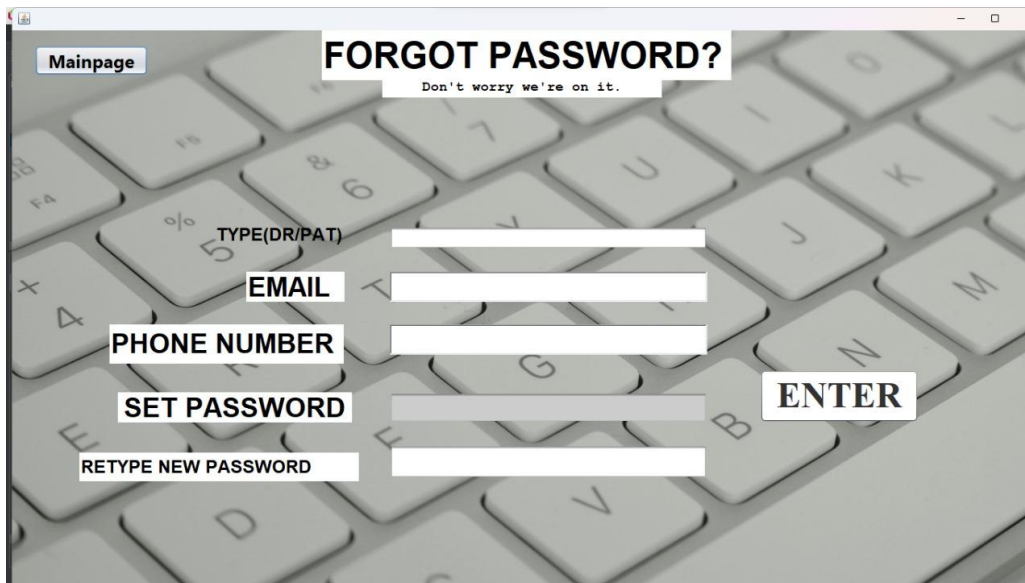
This is the login page for the doctors. Besides login, a doctor can also request for a new password in case he/she forgets the password.

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.
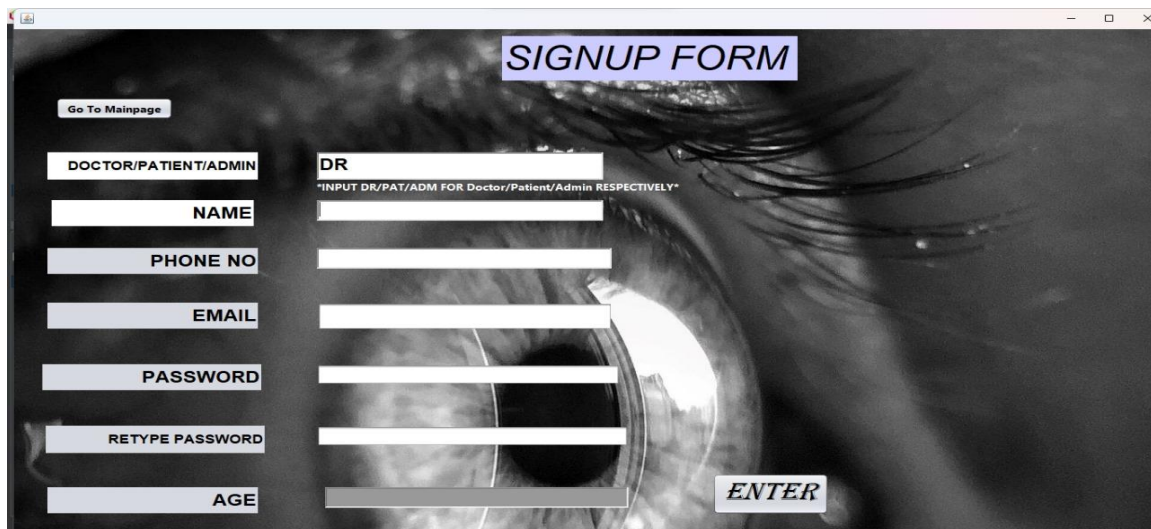
Figure 06: New Password Request Page

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.

Figure 08: Main Sign Up Form

Once registered, the user will see a congratulatory message on the screen.
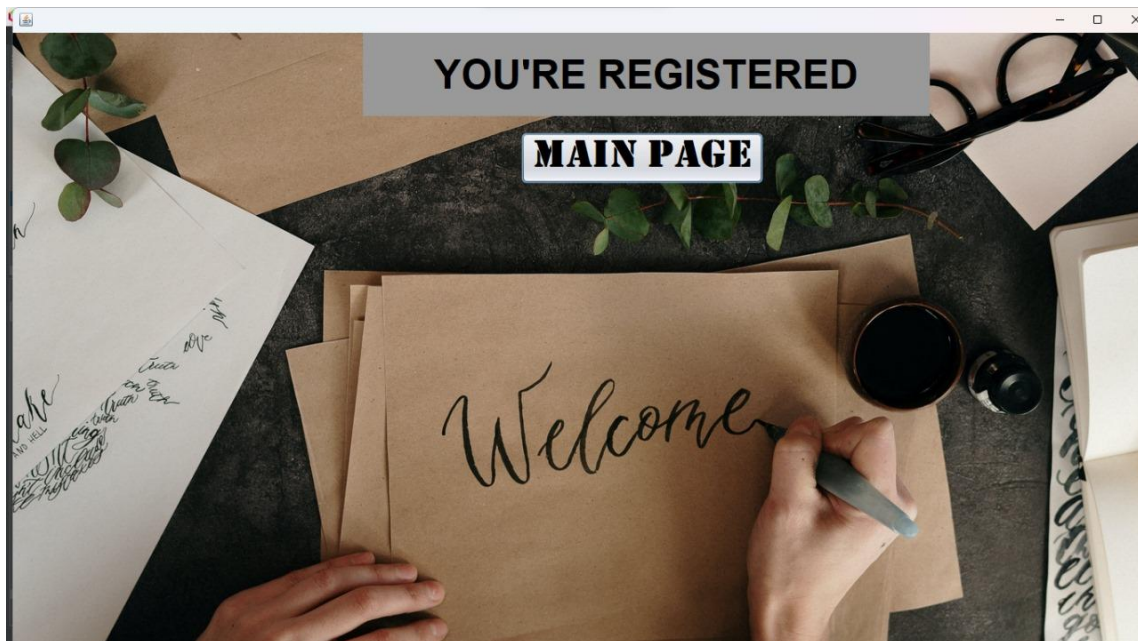
Figure 09: Registration Confirmation Page
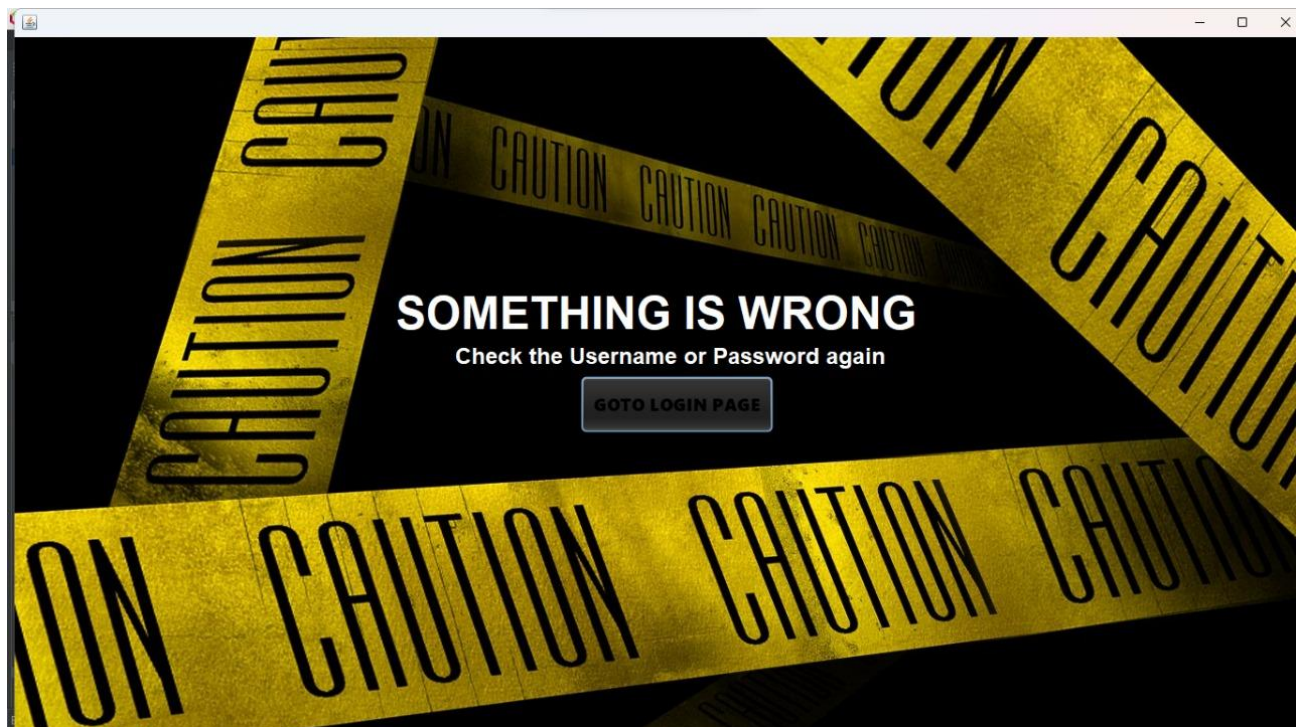
Figure 10: Registration Failure Message

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

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.