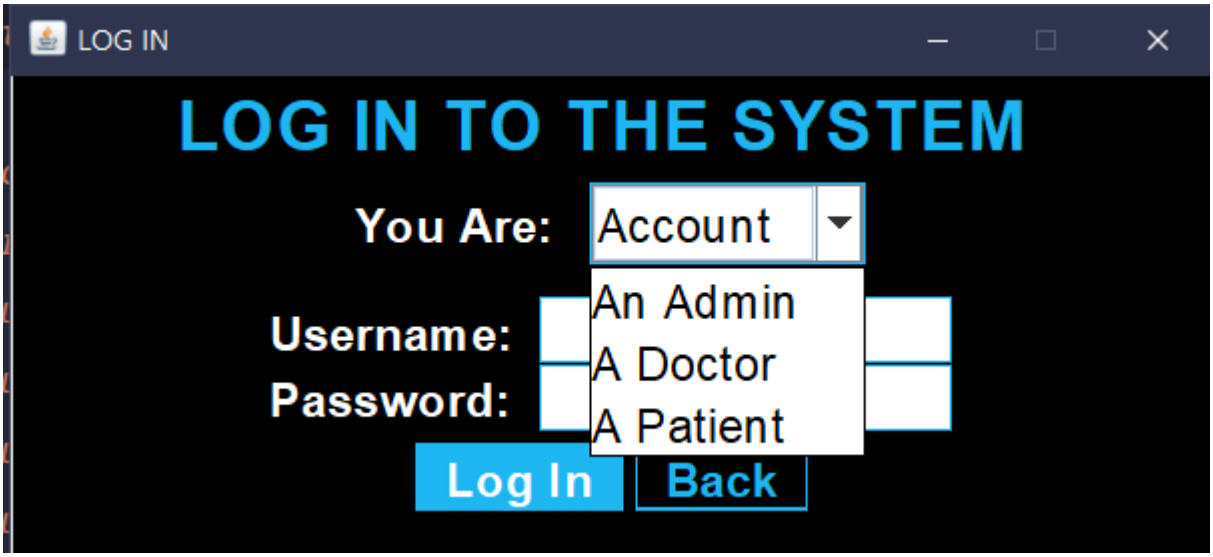
I. DEMONSTRATION

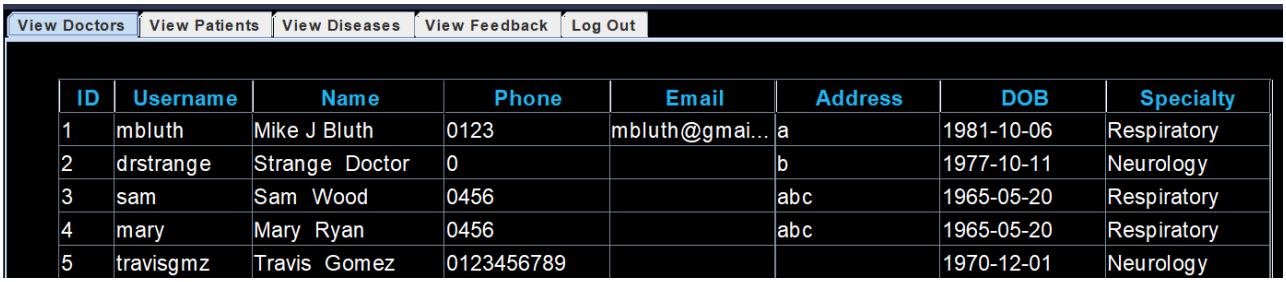
The GUI consists of 3 main sections specified for different purposes:

- Admin: who can manage everything in the database.
- Doctor: who can check their information as well as their patients' information.
- Patient: who can check their information and most importantly use the main feature of the system to predict their disease based on the symptoms.



Login options depending on 3 account types.

What's inside the Admin Dashboard?



ID	Username	Name	Phone	Email	Address	DOB	Specialty
1	mbluth	Mike J Bluth	0123	mbluth@gmai...	a	1981-10-06	Respiratory
2	drstrange	Strange Doctor	0		b	1977-10-11	Neurology
3	sam	Sam Wood	0456		abc	1965-05-20	Respiratory
4	mary	Mary Ryan	0456		abc	1965-05-20	Respiratory
5	travisgmz	Travis Gomez	0123456789			1970-12-01	Neurology

Admin can view all available doctors and their information as well as patients' information. An admin can also view and add diseases and symptoms. Last but not least, admin can take a look at patients' feedback to a specific doctor with recorded time.
Login: admin - 123

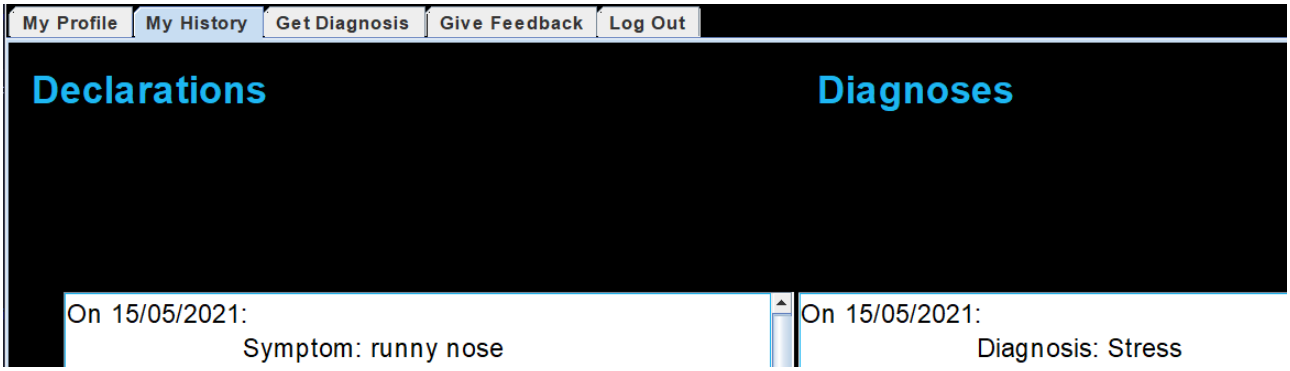
What's inside the Doctor Dashboard?

A doctor can search for his/her patients based on appointments to view all the information about them including the feedback that was given to him/her

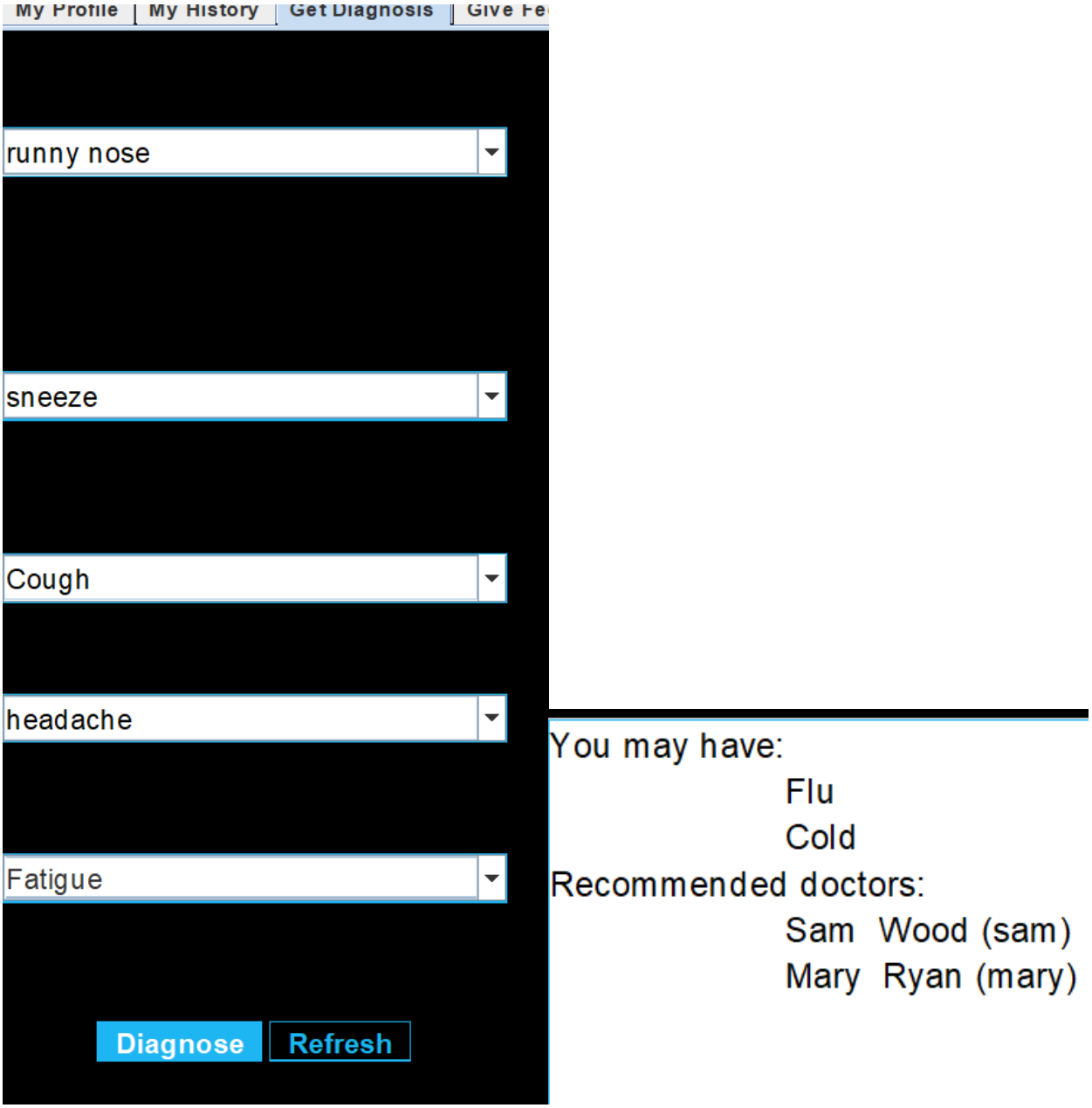
A doctor can also manage to add new diseases with their specific symptoms as well.
Note: diseases that have been added will also be added in their specialty. Example: Mike Bluth's speciality is Respiratory so disease A will be added and classified as a disease in the Respiratory category.
Login: mbluth - 123

What’s inside the Patient's Dashboard?

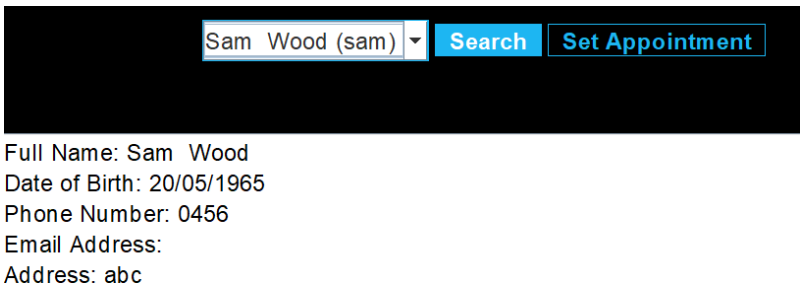
Patients can have a glance at their history activity. They can view what they had declared and what they had diagnosed.
Login: janedoe - 123



Patients get to choose the symptoms they have experienced and get diagnosed immediately along with recommended doctors.



What patients have to do next is just choose one doctor and set the appointment.



HOW TO RUN THE PROGRAM?

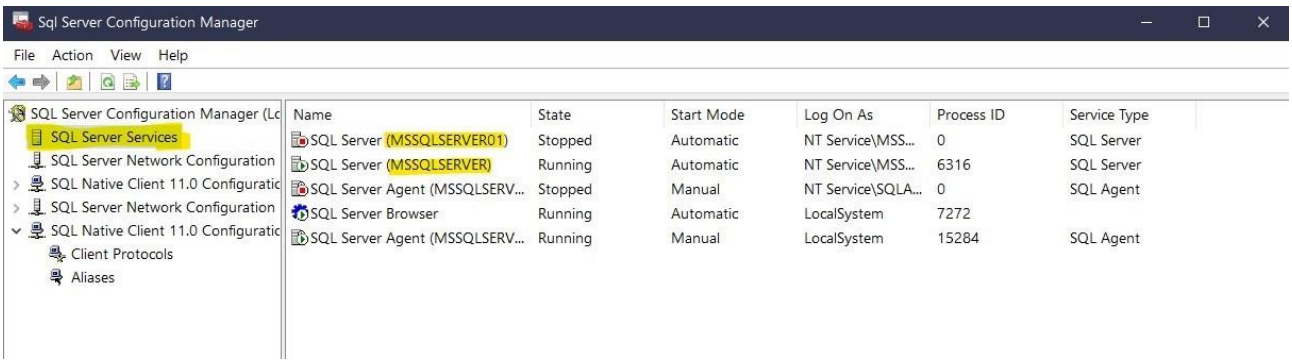
- First off, make sure to backup the database using SHPS.bak in your local machine in order to access it in the application.

- For developers, you can run this program in your favourite IDE, specifically, the Main class. **Note:** Please make sure you already added the SQL JDBC JAR file in your Project Settings section. Otherwise, you won't be able to connect to the database.
- The default url to connect to the database is
  "jdbc:sqlserver://localhost;database=SHPS;integratedSecurity=true;"

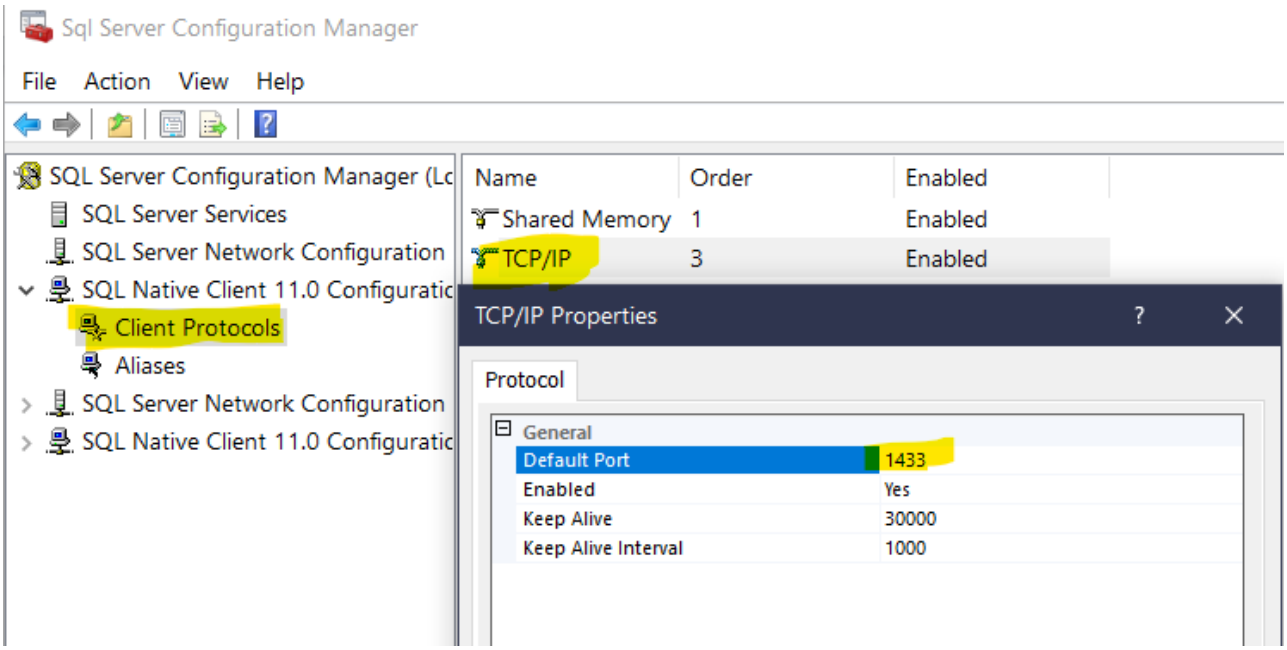
- The above url is supposed to find your default localhost name, default instance and default port of your local. If you have any problem while connecting the database, please make sure to adjust the url to fit your machine's requirements.

  ### How to fix?:

  - To find your localhost name, press hotkeys Windows + R and type cmd to run Command Prompt. Type hostname then press Enter to receive your localhost name.
  - To find your instance name, open SQL Server Configuration Manager. The instance name is highlighted in the right panel of the window.



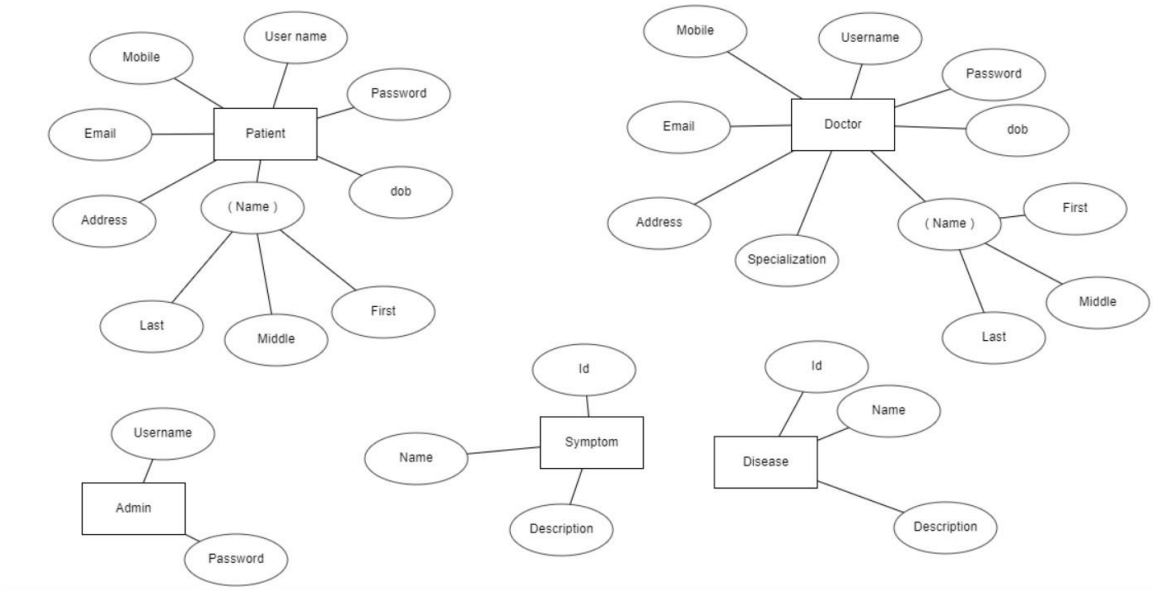
- Same for finding default port. In this case, it's 1433.

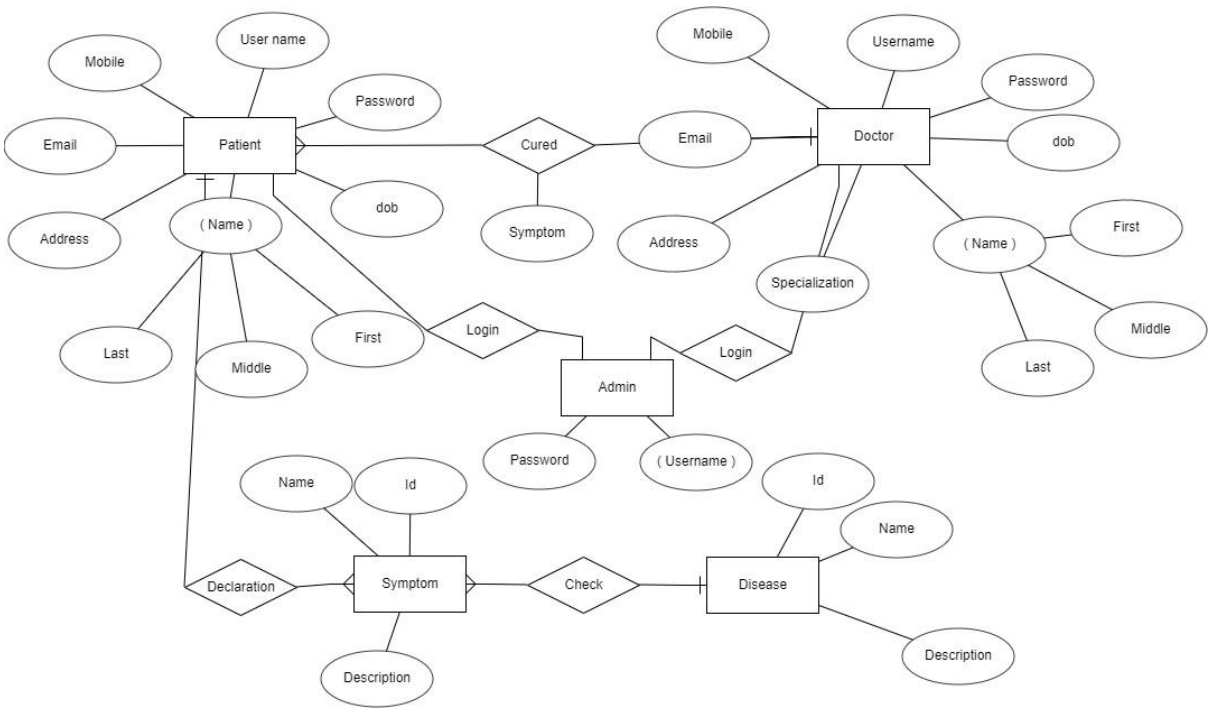


- The project has successfully brought out the real value to the users as many important features are available for managing a health database system in various aspects.
- The project was designed in a clean and coherent manner, both on and under the surface. The user interface is simple, understandable at first glance. The system working underneath performs well enough to help the program run without bugs.

What needs to be improved?

- More advanced features along with advanced database design should be developed in order to bring great user experience.
- Patients should have more ways of inputting their symptoms instead of dropdown boxes. The program was hard-coded with some diseases instead of flexibly predicting it.





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