Group 25 WebApp submission: Fast Cure

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Demo Link: https://youtu.be/YgrnqBA22qg

The implementation was done using HTML, CSS, JSP and MySQL. The project was deployed using TomCat server and the IDE used was Eclipse.

Files submitted:
i) queries.txt: This file has all the queries to set up the data base and populate all the tables for the demo.
ii) WebContent.zip: This is the WebContent folder of the project with all the JSP and HTML files as well as the other jar files required.
iii) README.pdf

Instructions for deploying the WebApp:
i) Install Eclipse Neon IDE and have TomCat server 8.6 installed. Also install MySQL 8.0
ii) Run the queries.txt file to create the database.
iii) Create a WebApp project and replace the WebContent folder with the submitted one in Eclipse.
iv) Run on TomCat server.

Functionalities:

Patient:
1) Register (Implemented all check constraints)
2) Login (Handled all error cases like wrong password, etc.)
3) Add phone number (can enter multiple phone numbers)
4) Display patient details
5) Display patient phone numbers
6) Add health tracker (can update whenever patient feels to do so)
7) Book appointment (patient first needs to update health tracker)
8) Add symptoms (provided while booking appointment)
9) Automatic allotment of doctor (as per symptoms, see NOTE 2)
10) View allotted doctor's contact details.
11) Logout and View Home buttons
12) Display all appointments (with prescription if doctor has provided)
13) Display health tracker (all the entries till now)

Doctor:
1) Register (Implemented all check constraints)
2) Login (Handled all error cases like wrong password, etc.)
3) Add phone number (can enter multiple phone numbers)
4) Display doctor details
5) Display doctor phone numbers
6) View all assigned patients
7) View the medical history of a particular patient (using health tracker)
8) View predicted disease (prediction of diseases a patient might have, see NOTE 1)
9) Add prescription for patient

10) View contact details of the patient.
11) Logout and View Home buttons.

NOTE 1: The symptoms of the patients are matched to the symptoms of the predefined diseases. All the diseases which have the match count equal to the maximum match count are displayed to the doctor as possible diseases the patient might have.

NOTE 2: The doctors are assigned based on the diseases found in NOTE 1. All the departments to which the diseases belong are checked for doctors. The doctor with minimum number of patients assigned currently is assigned to the patient. If no doctor has registered till now then we display the unavailability.