Database Management System

CS30202

Assignment 4

Web Application for a Hospital Management System

Design Report

Submitted by group name: disks_overloaded

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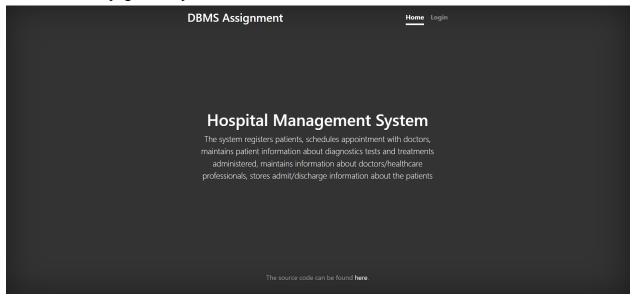
Frontend Language: HTML, CSS, JavaScript

Backend Language: Python **Database server:** Postgresql

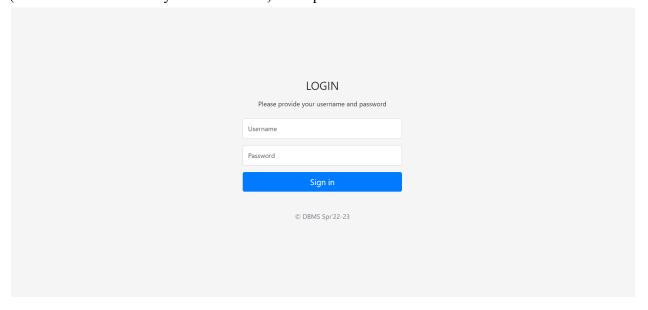
Interface and Workflow:

For all users

• **Home:** A home page for any user



• Login: All users have to log in with username (employeeID) and password. A new user (new users are created by administrators) has a password same as the username.

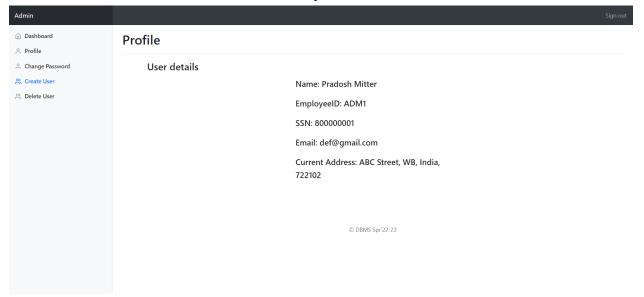


• Change Password: All users can change their password after logging in.

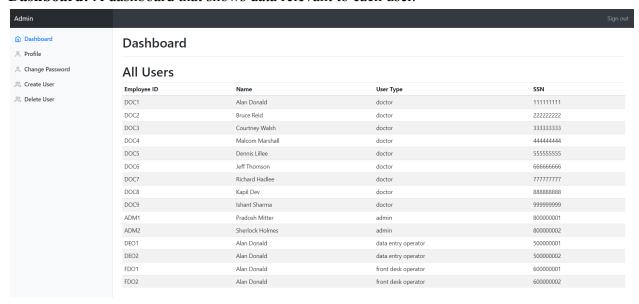
Change Password

Password details	
Old Password	
New Password	
Confirm Password	
Confirm Pa	assword
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• **Profile:** All users can view their details in their profile

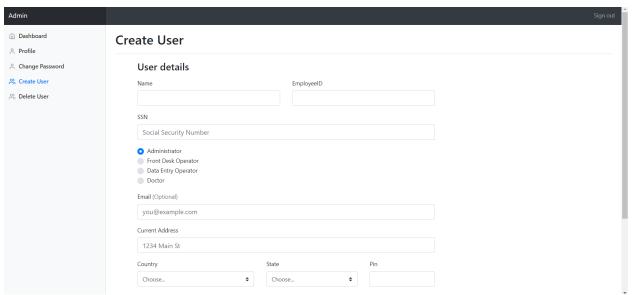


• Dashboard: A dashboard that shows data relevant to each user.

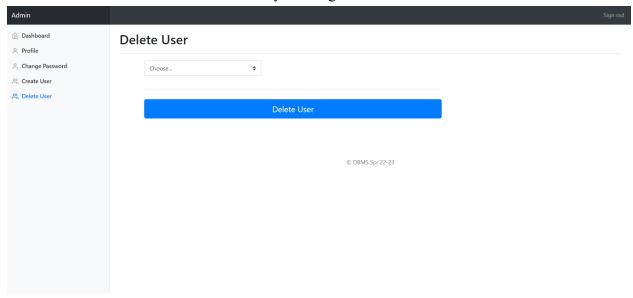


For administrators

• Create user: Administrators can create new users by filling up necessary details of a user.

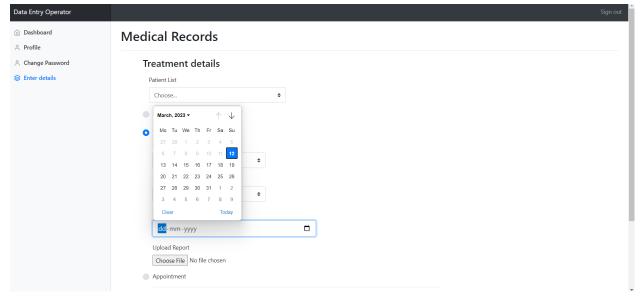


• **Delete user:** Administrators can delete any existing user.



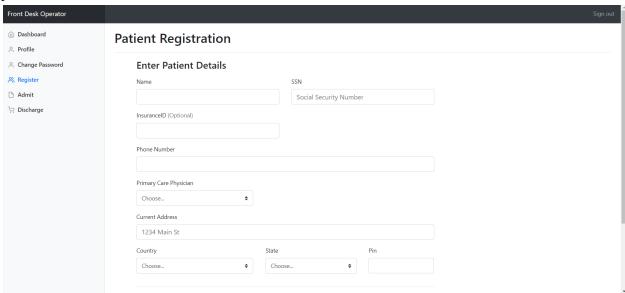
For data entry operators

• Enter details: Data entry operators can enter medication and test details of a patient and can schedule appointments with doctors.

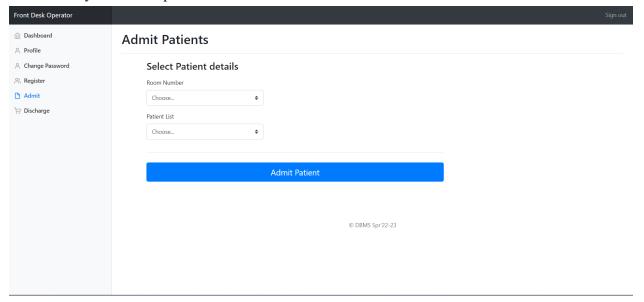


For front desk operators

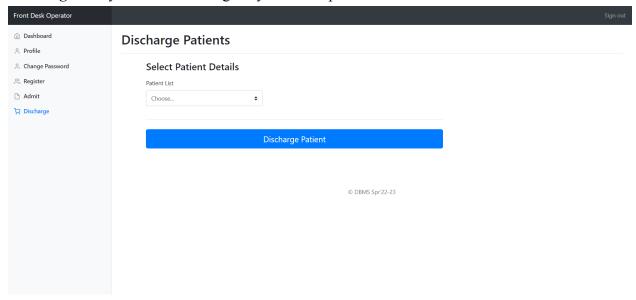
• **Register:** Front desk operators can register patients by filling up necessary details of a patient.



• Admit: They can admit patients and allot them a room.

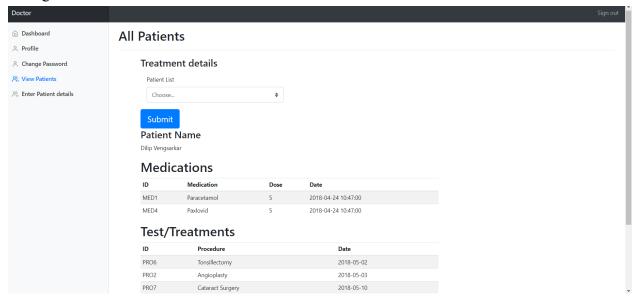


• **Discharge:** They can also discharge any admitted patient.

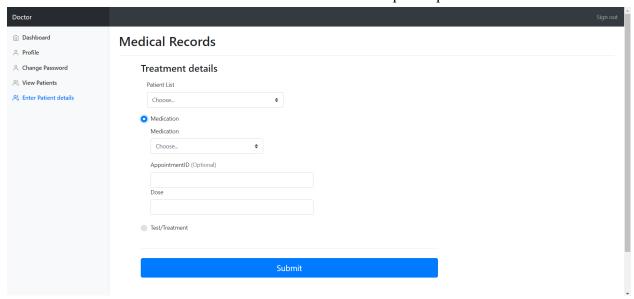


For doctors

• **View Patient:** Doctors can see all the medications and treatments a patient has undergone.



• Enter Patient Details: Doctors can enter details about their prescription or a treatment.



Internal features:

- For data security, passwords have been hashed using the 'bcrypt' library.
- Data entry operators and doctors can upload a test report of a patient.
- The PCP of a patient gets an email with a report attached, as soon as any report is uploaded.

Schema of the database:

