CareU User Manual

Development Team: Group 6

Client Team: Group 14

External Dependencies:

1. Basic Dependencies
- spring-boot-starter-data-jpa
- spring-boot-starter-security
- spring-boot-starter-thymeleaf
- spring-boot-starter-web
- thymeleaf-extras-springsecurity5
- spring-boot-starter-mail
- spring-boot-devtools
- spring-boot-starter-test
- spring-security-core
- spring-security-test
- bootstrap
- jquery
- webjars-locator-core

2. Special Dependencies:
- spring-security-oauth2-client: This has been used for performing Gmail Authentication and Social Media sign up.
- mysql-connector-java: This has been used for establishing a connection between the application and the database.
- pdfbox: This dependency is used for generating a PDF based on a template. We have used this for generating the bill pdf file.
- spring-boot-starter-oauth2-client: This has been used for performing Gmail Authentication and Social Media sign up.

Build Documentation:

- CSV Dump file for bank database. This file needs to be run in the database before executing the file. This file has already been run in DEV, TEST, PROD databases, so if you want to run it in databases other than these or in your local database then you need to use the .csv file and perform an import.
- The deployments are automated using CI/CD pipeline. Based on the branch the spring will pickup the active profiles and deploy to Heroku.
- To manually build and run the application clone the repo and use **mvn clean install.**

Features/User Scenarios:

1. **<u>Doctor Registration:</u>** This is the user registration page which is common for both the Doctor and Patient. Only the common details of Doctor and Patient is taken here.
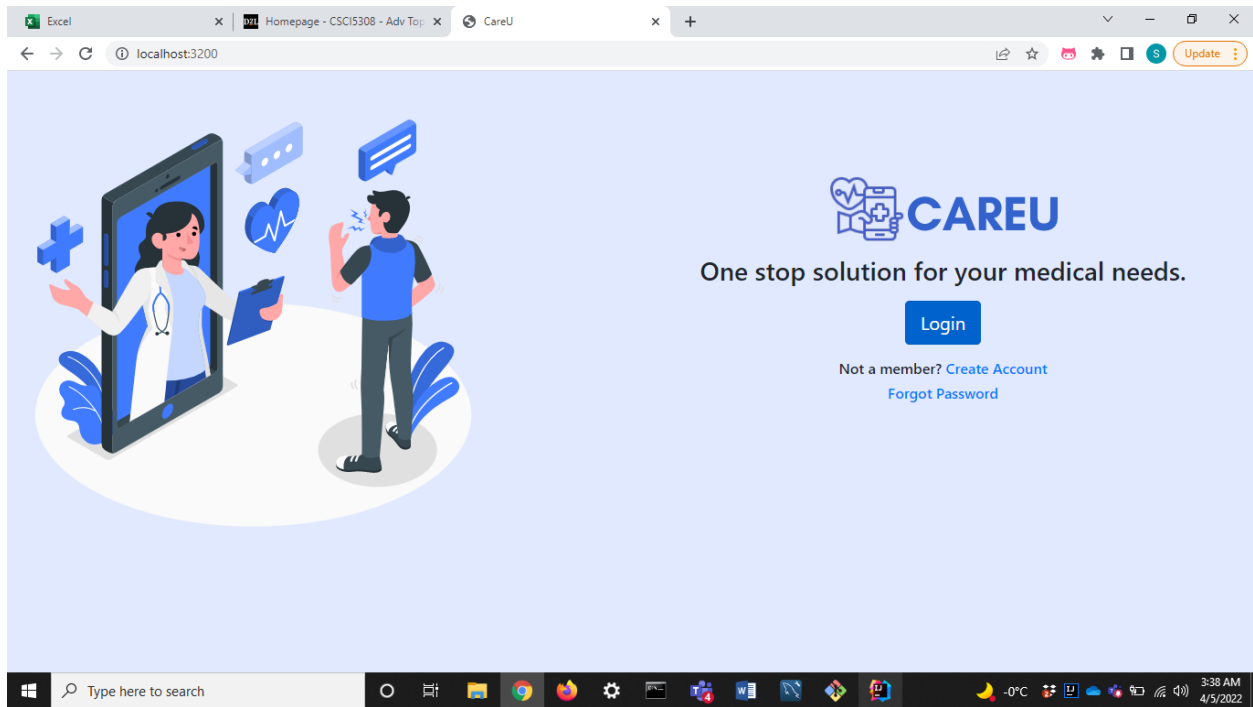
Fig 1.1: Application Landing Page (Click on **Create Account**)

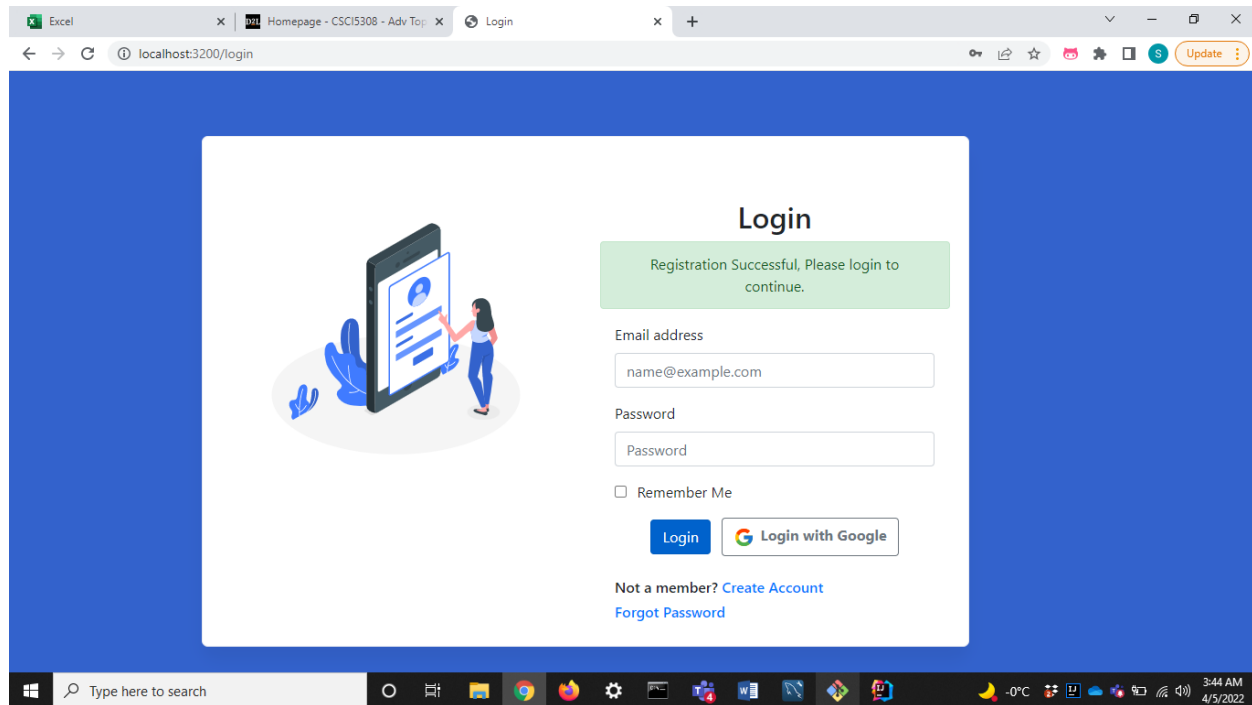Fig 1.2: User Registration Page (Enter Registration Details)

Fig 1.3: User Registration Successful Page

2. **<u>Doctor Login:</u>** This is the user login page which is common for both Doctor & Patient. If the login is successful Doctor is redirected to Doctor Homepage and Patient to Patient Homepage.
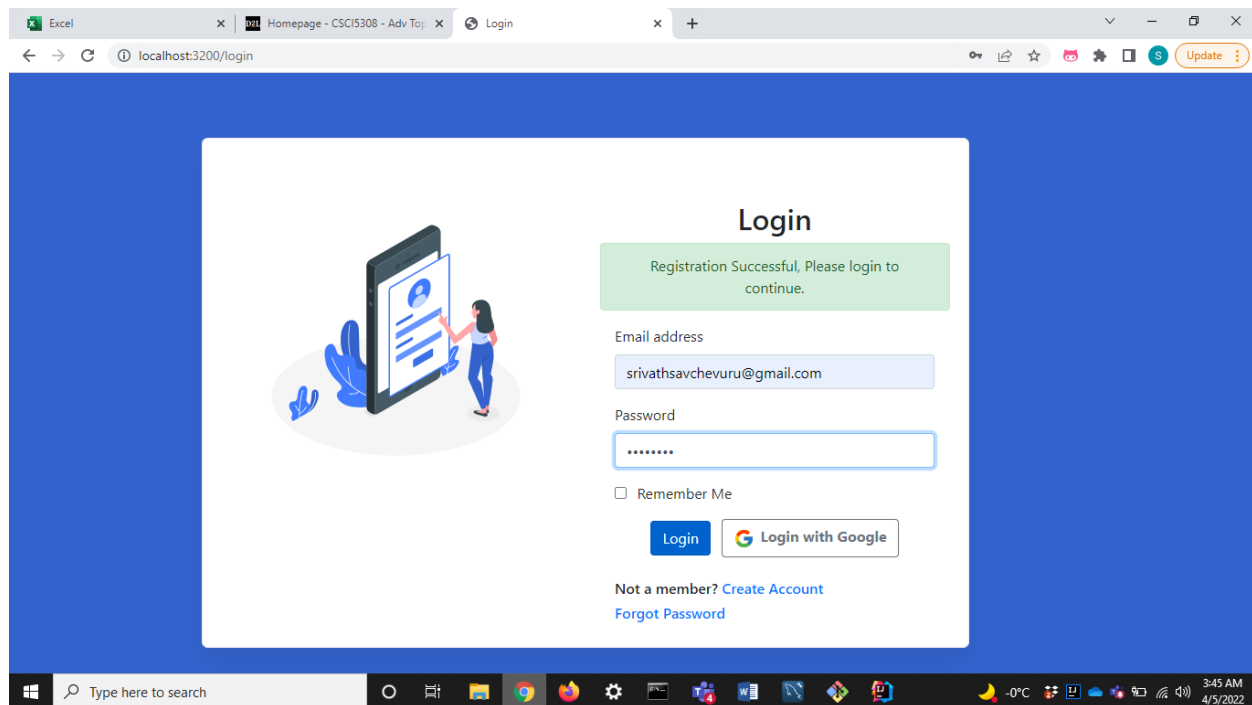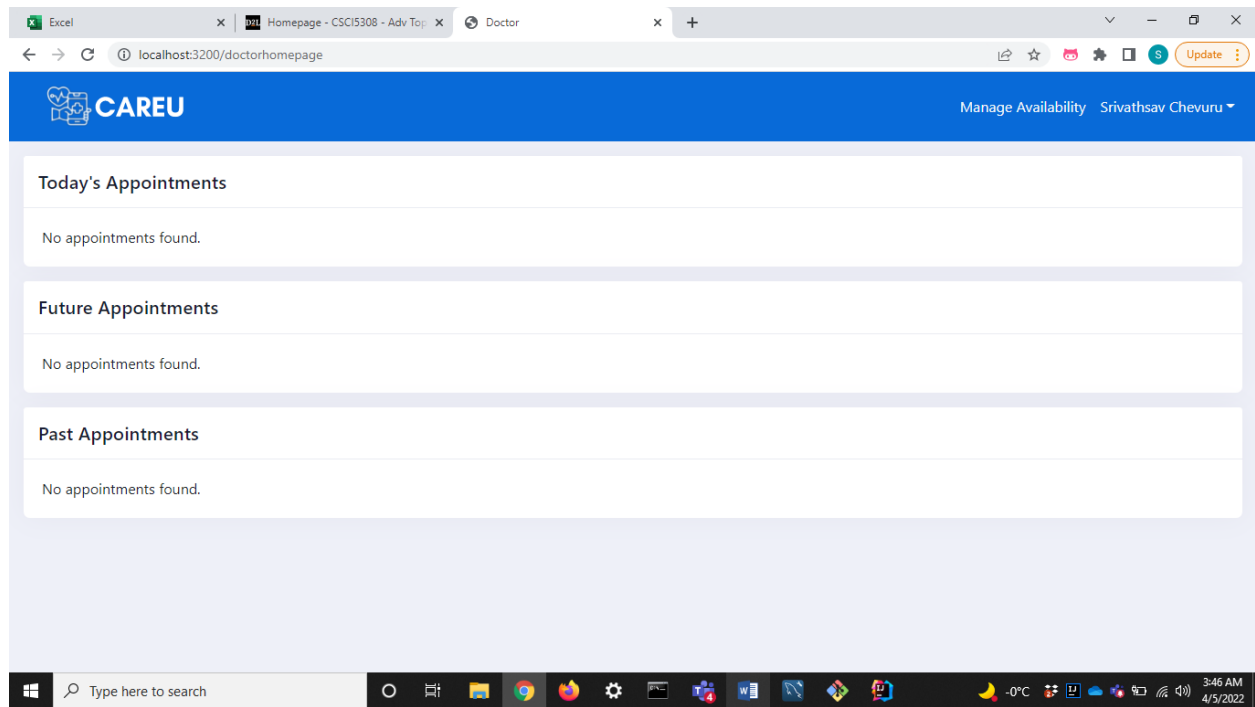
Fig 2.1: User Login Page (Enter the login details)

Fig 2.2: Doctor Homepage (You can click on CareU at any page to come to homepage)

3. **Doctor Profile Page:** In the user registration page only the very important details are taken from the user since it is common for Patient as well as Doctor. The Doctor specific details are taken here in the Doctor Profile page. It also asks the Doctor to upload his/her license along with profile details. To open this page hover on name in the top-right corner and click on Profile Settings. Clicking on Cancel will redirect to the homepage.

Fig 3.1: Doctor Profile Page (Enter the profile details here)

Fig 3.2: Doctor License Upload (Upload the license here)
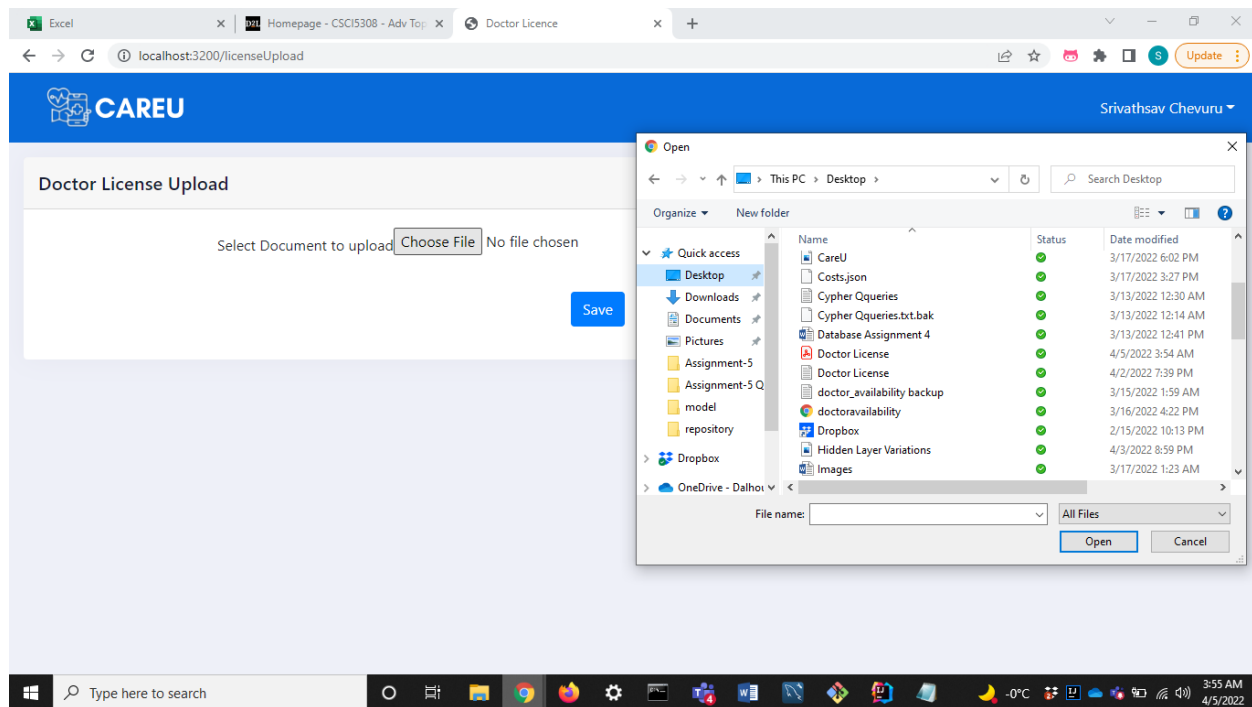
Fig 3.3: Doctor License Upload (Upload the license here)
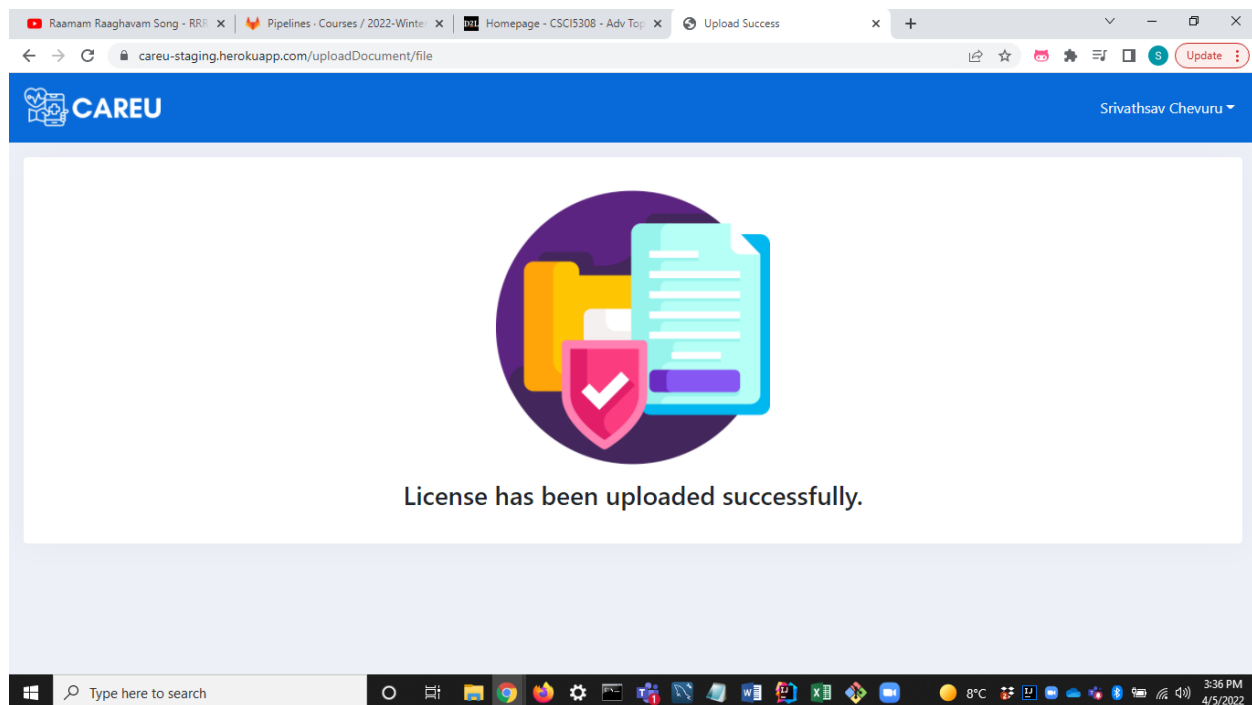
Fig 3.4: Doctor License Upload Success Page

4. **Doctor Manage Availability:** Doctor has the option of adding his availability. He can add multiple availability at a particular day. He should each available slot separately. For example: If an appointment takes 30 mins and he is available for 1 hour on a particular day. He has to add 3 entries one for each available appointment slot that day. This has been done keeping in mind that there will be a multitude of doctors and all are different kinds of doctors and basing on the specialization the appointment time may vary. Appointment for Cardiologist may take longer than Appointment for Ear Specialist. The steps for adding availability:
   a. Select date, start time and end time.
   b. Click on Add.
   c. Now select date, start time and end time again to add multiple time slots.
   d. You can also delete added appointments by clicking on Delete button.
   e. Once you are done adding all the slots, Click on Save Availability.

Fig 4.1: Doctor Manage Availability Homepage
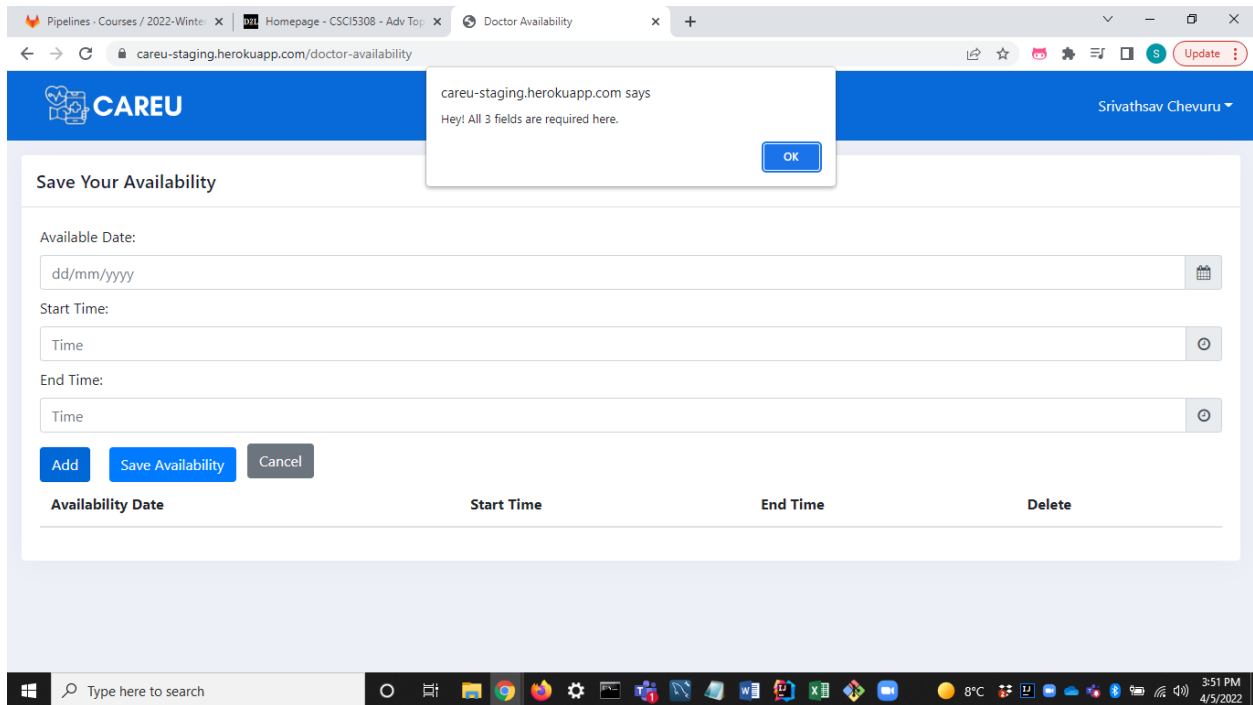
Fig 4.2: Doctor cannot add null values
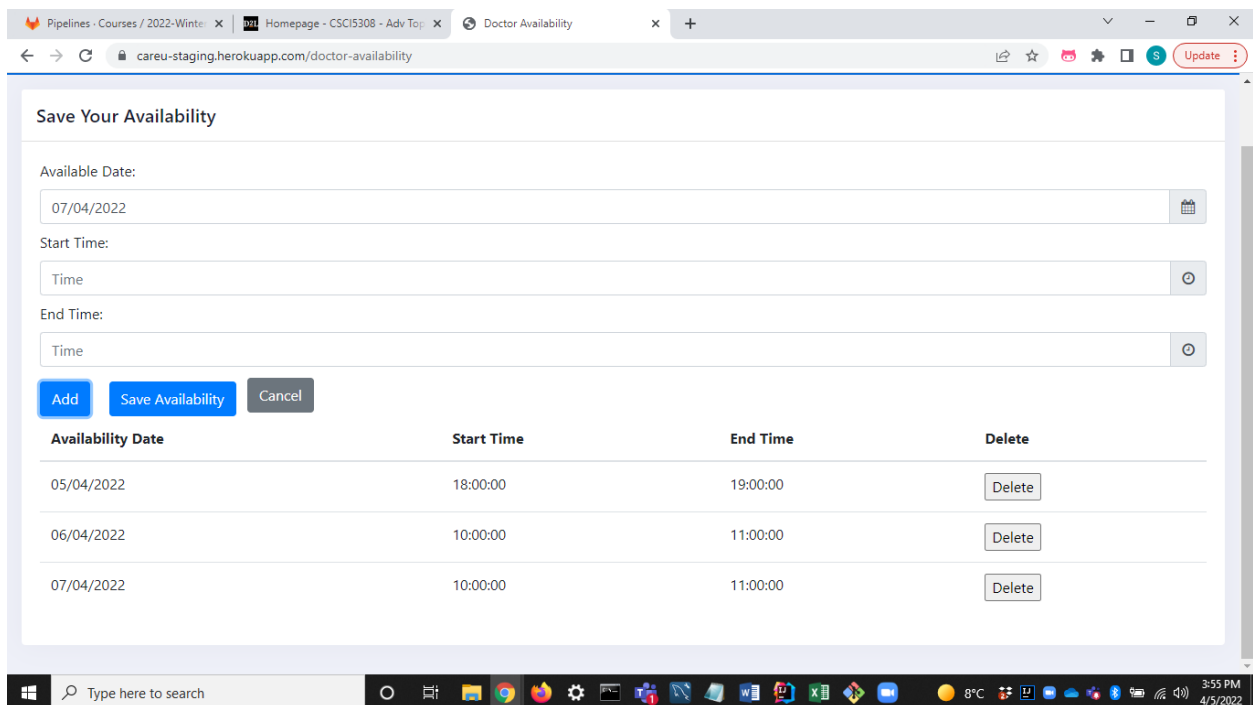
Fig 4.3: Doctor Adds multiple appointment slots
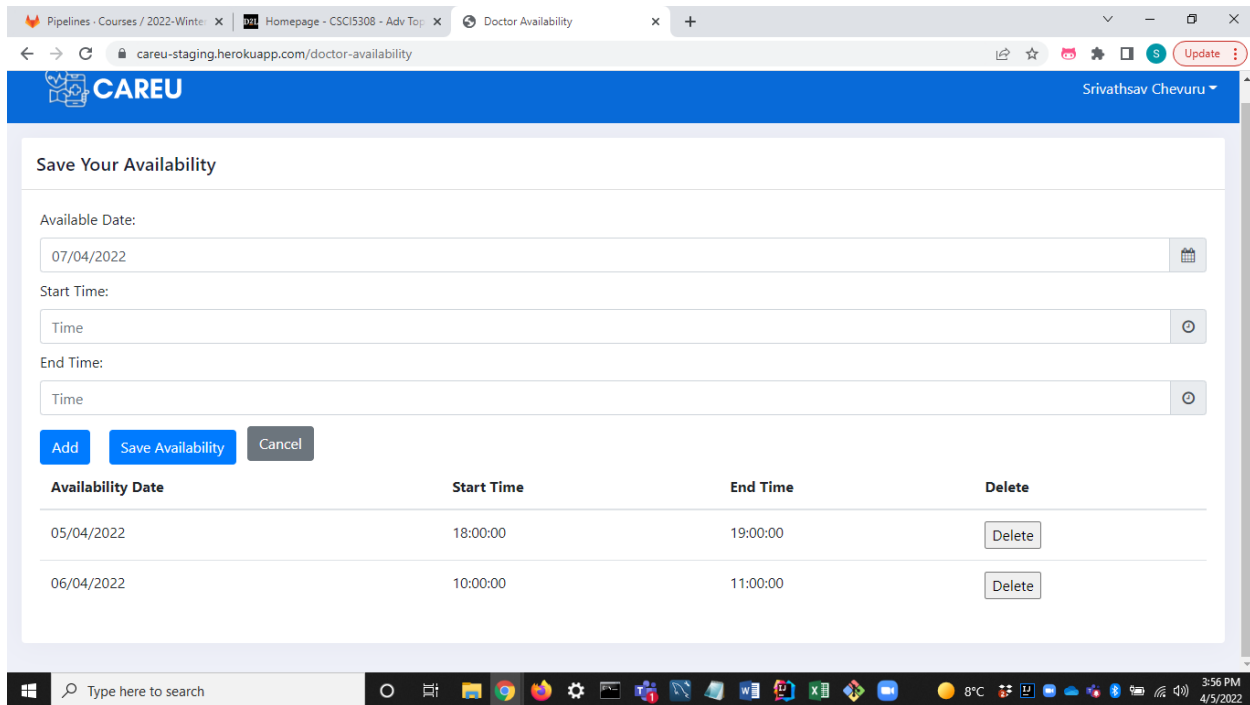
Fig 4.4: Doctor can click on delete and delete added appointment

5. **Edit Doctor Profile Details:** This enables the Doctor to edit the already entered profile details. For the reference of the Doctor the old data will be repopulated in the fields. If the user wants to edit it then he can edit and click on save.
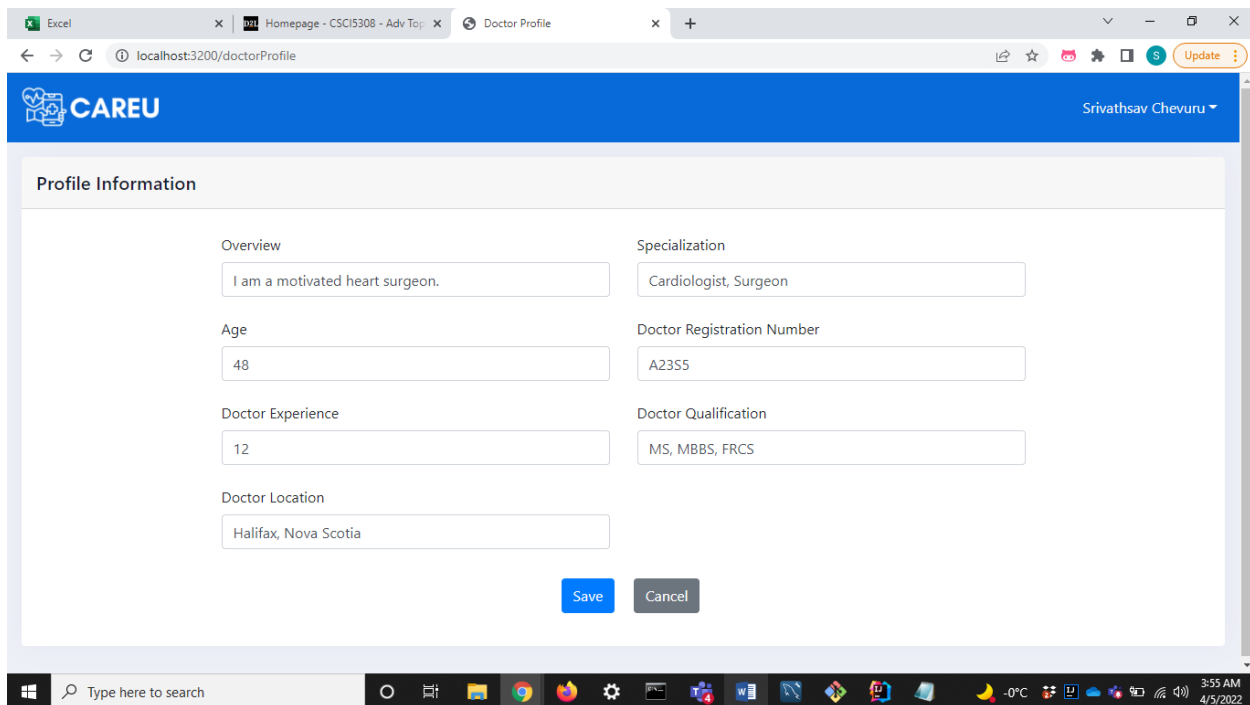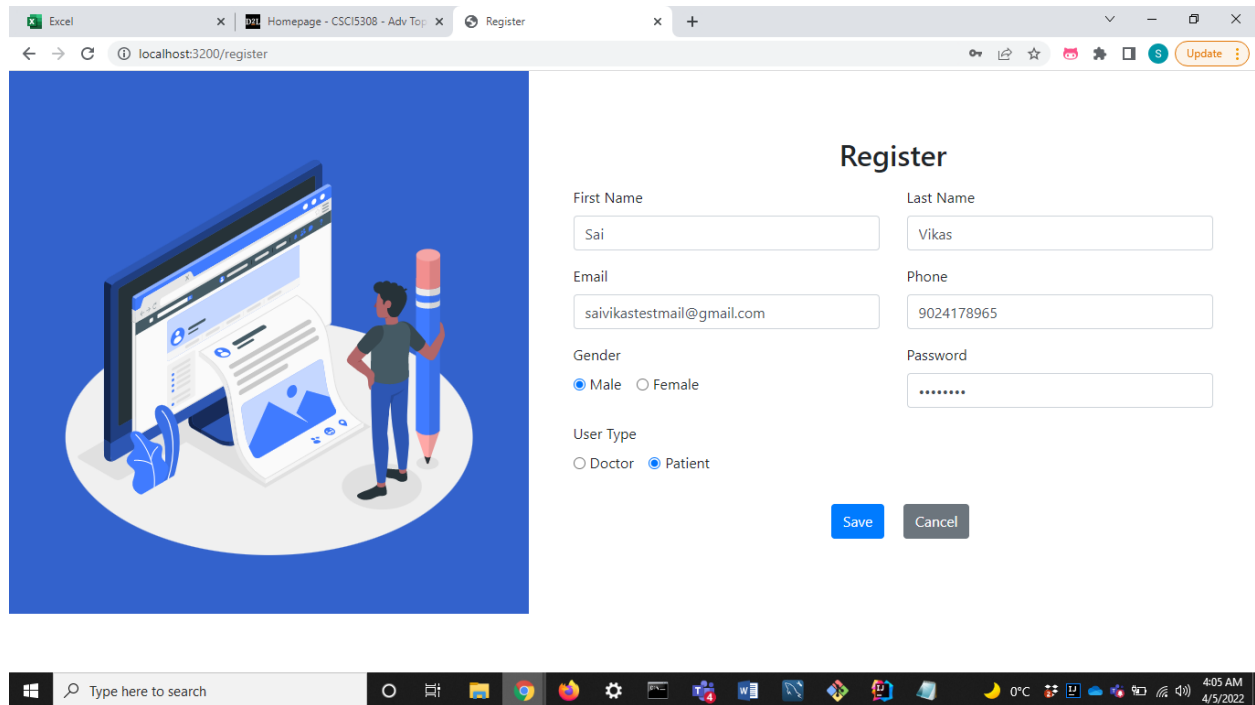
6. **<u>Patient Registration:</u>** The Patient can register by signing up as Patient by changing the User Type using the radio button.

Fig 5.1: Patient Registration (Enter the Patient Registration Details)

7. **<u>Patient Login:</u>** The Patient Login page allows patients to login to the application. After successful login you are redirected to Patient Homepage.
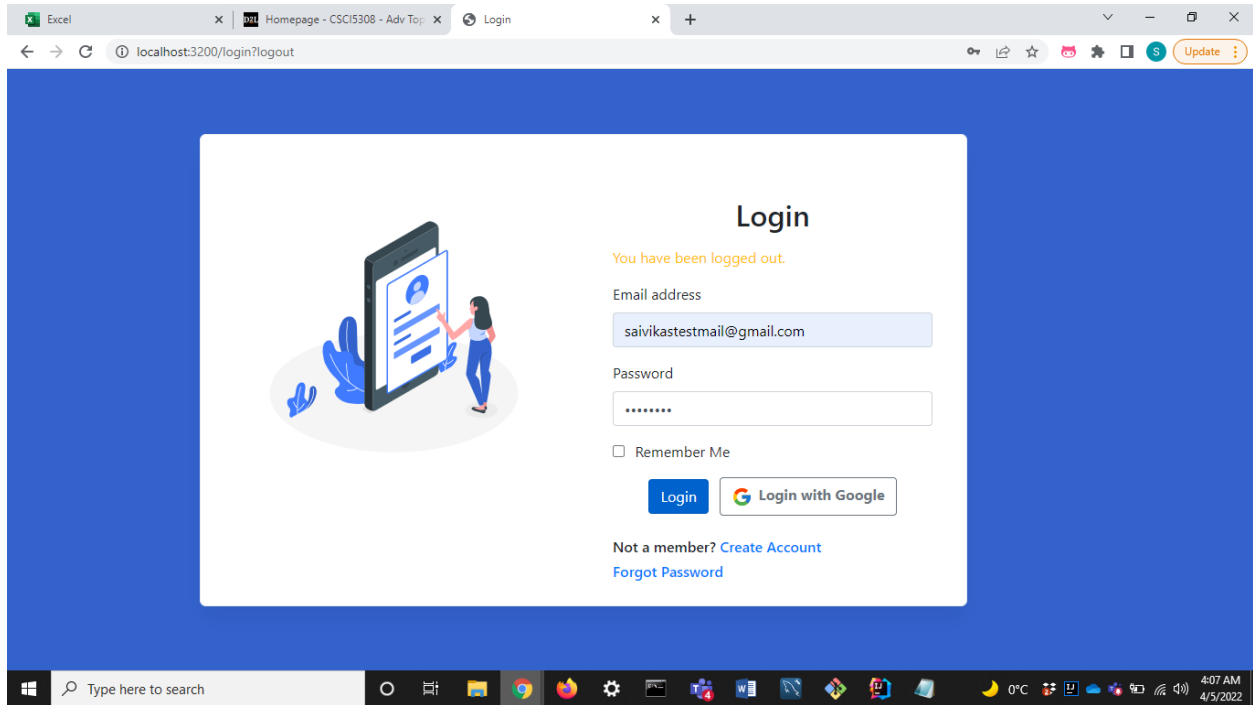
Fig 6.1: User Login Page
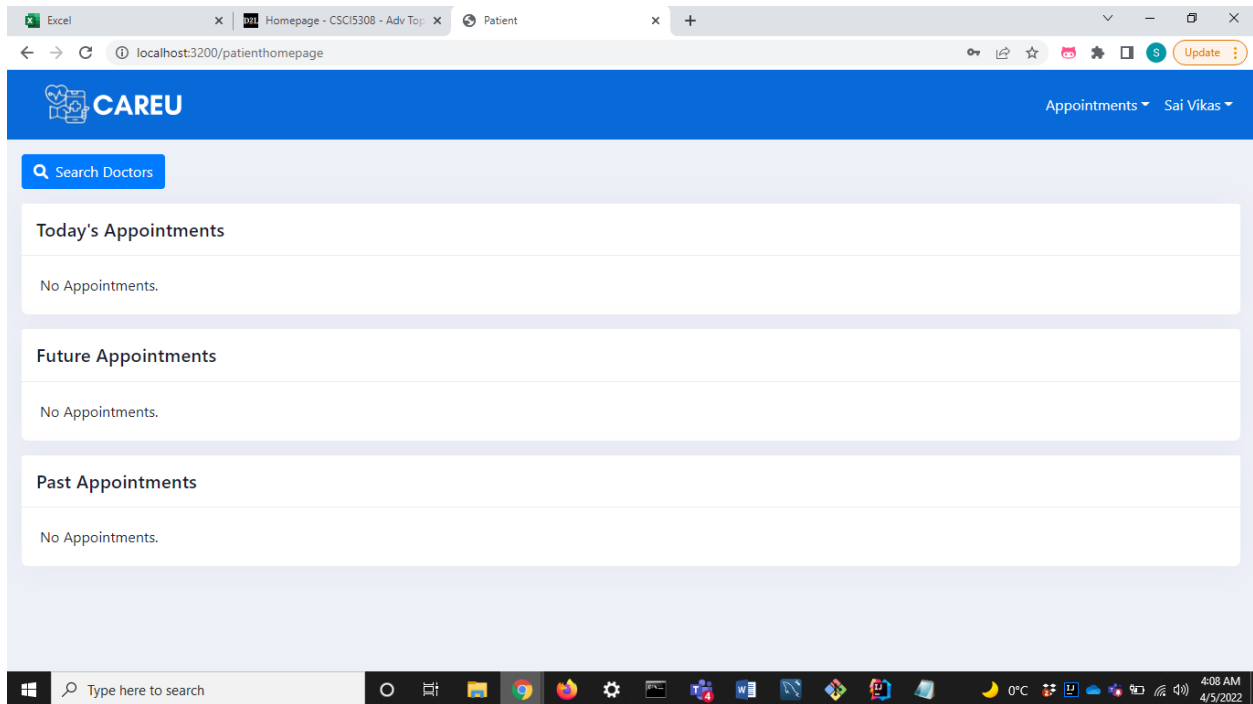
Fig 6.2: Patient Homepage

8. Book Appointment: If you click on the Search Doctors then you would get a list of Doctors. By default, it will show all the available doctors. The patient can also search based on Specialization, Doctor First Name, Doctor Last Name.
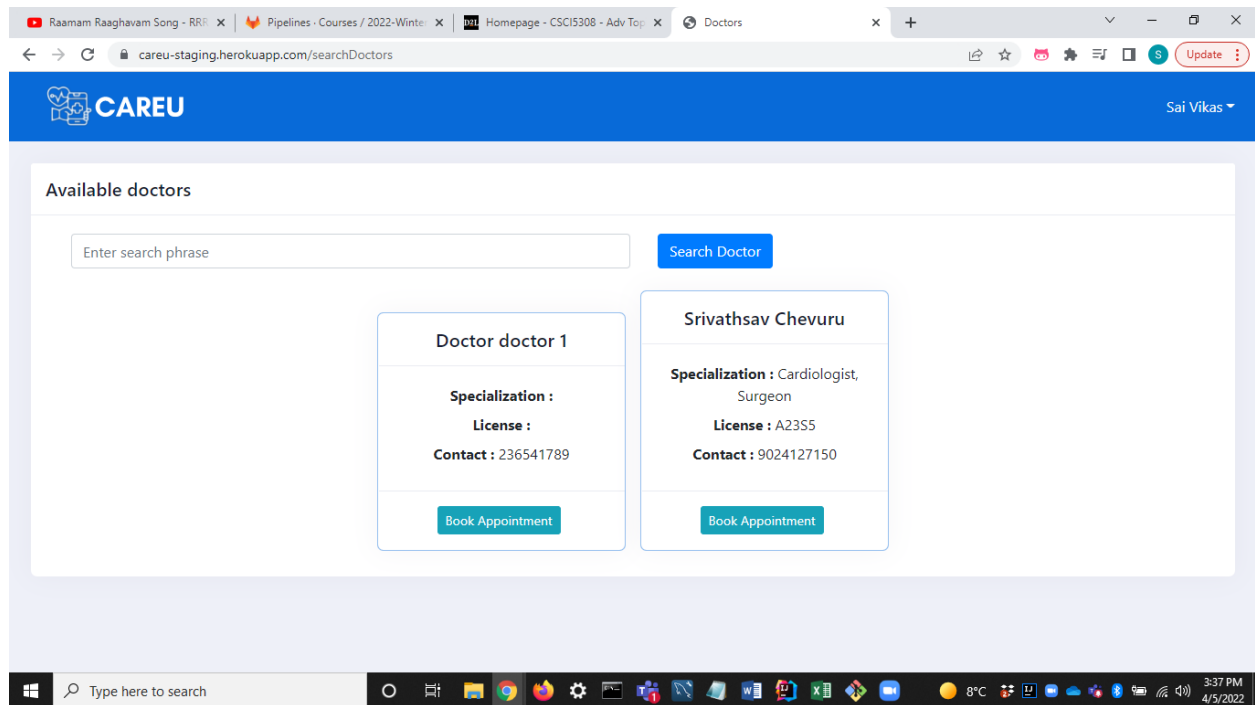
Fig 7.1: Default View of Search Doctors
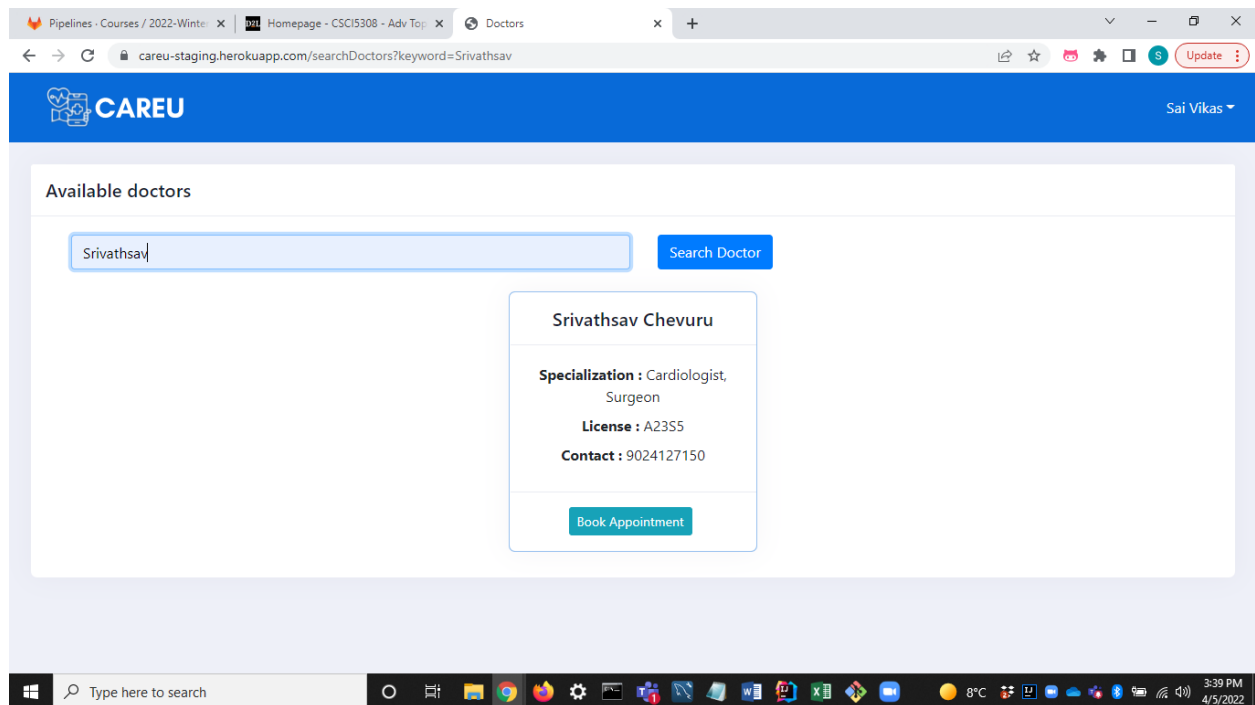
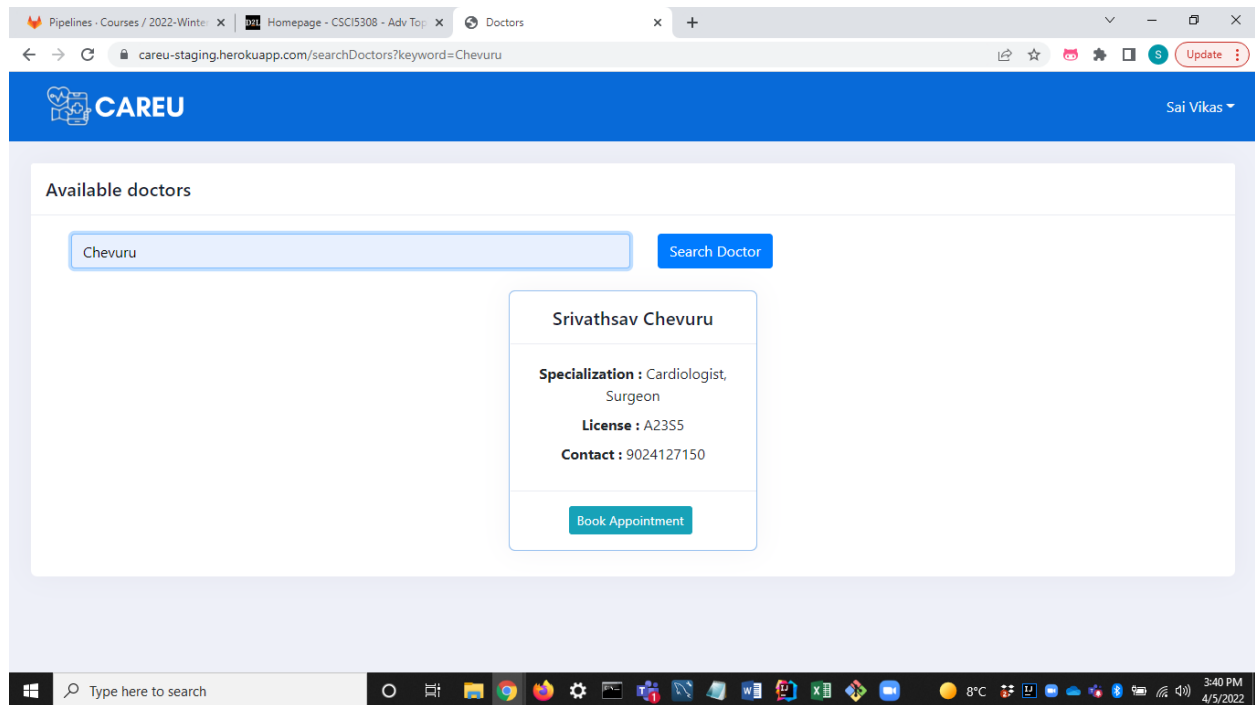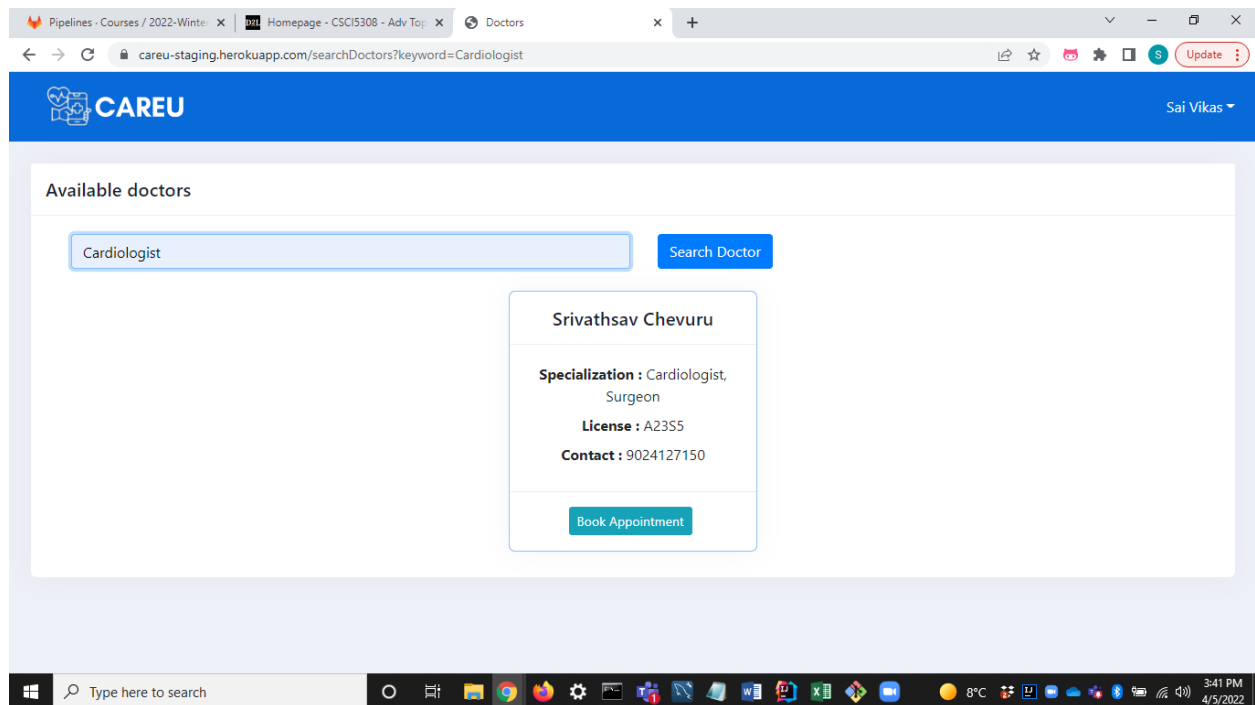Fig 7.2: Search Based on First Name

Fig 7.3: Search Based on Last Name
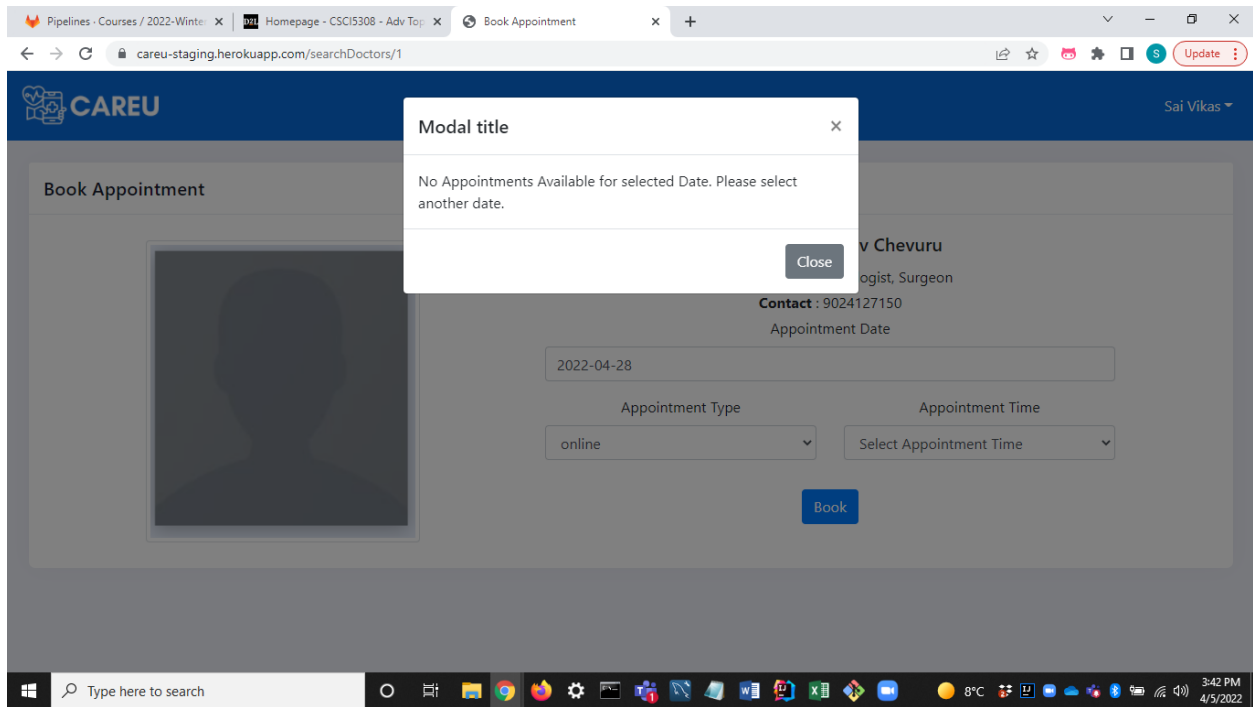

Fig 7.4: Search Based on Specialization

Fig 7.5: If no appointment slots are available that day (Doctor is not available that day)
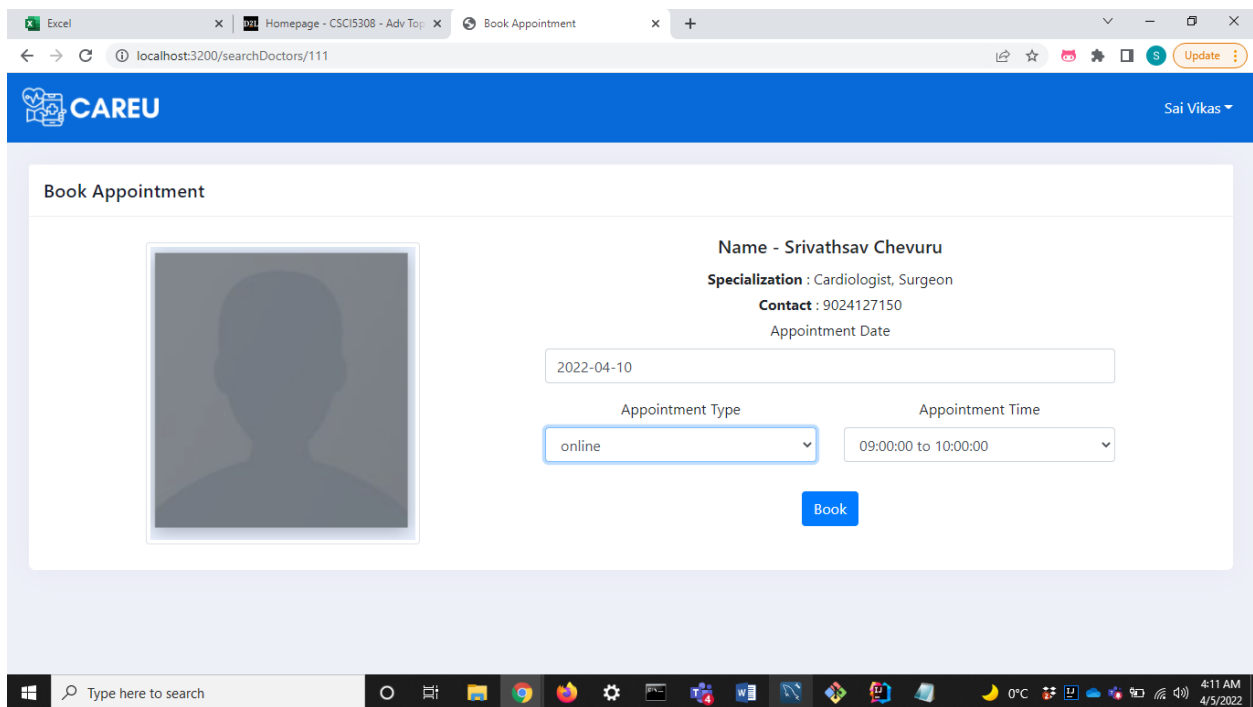
Fig 7.6: Select appointment date and time from available list.

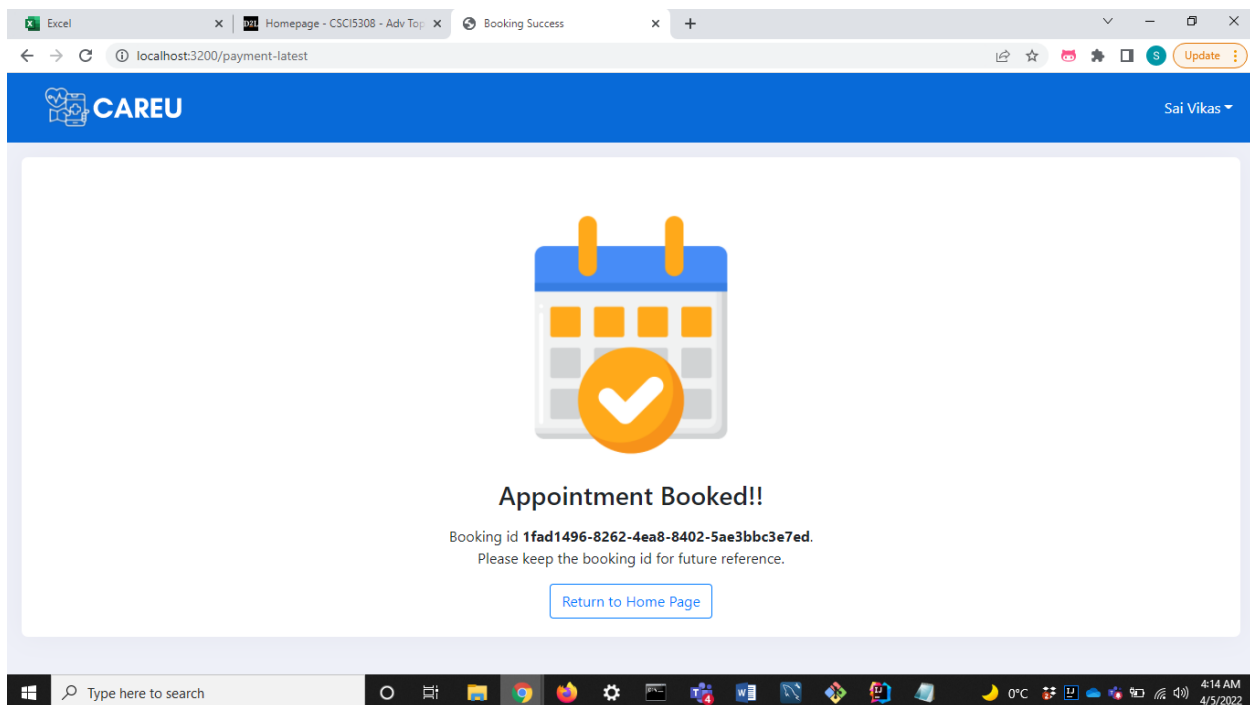Fig 7.7: Add payment details to complete booking of appointment

Fig 7.8: Payment Success & Booking Success
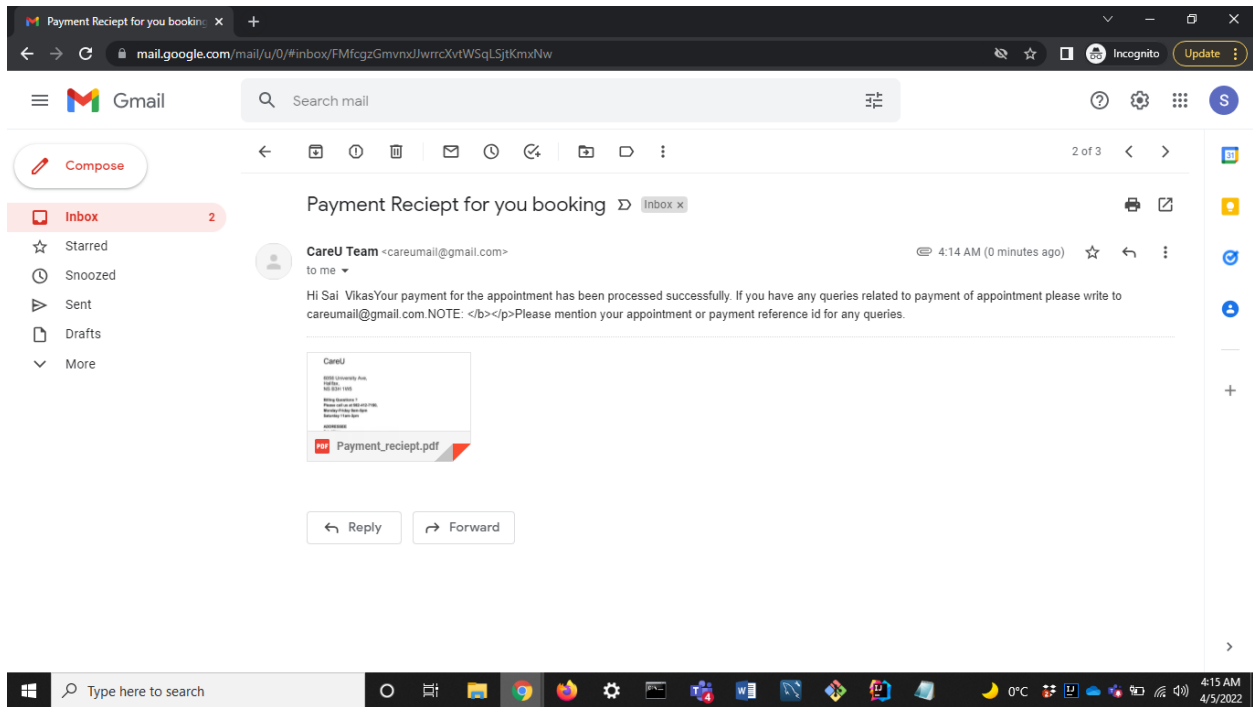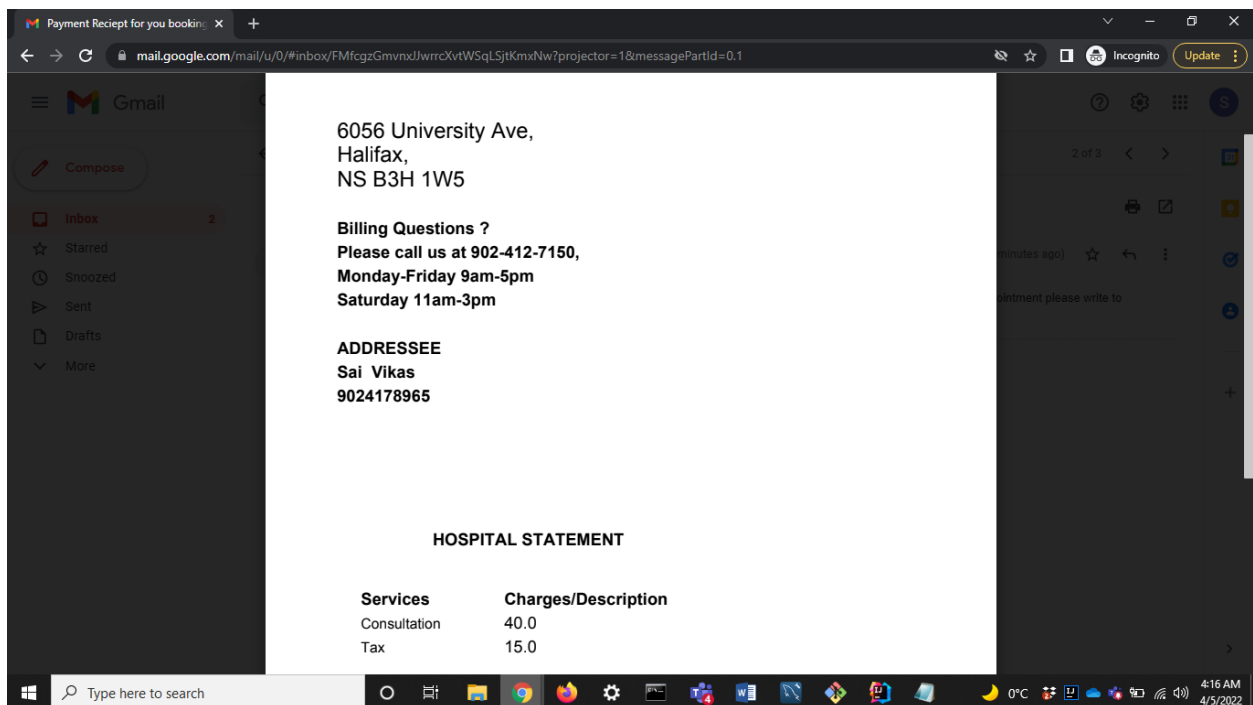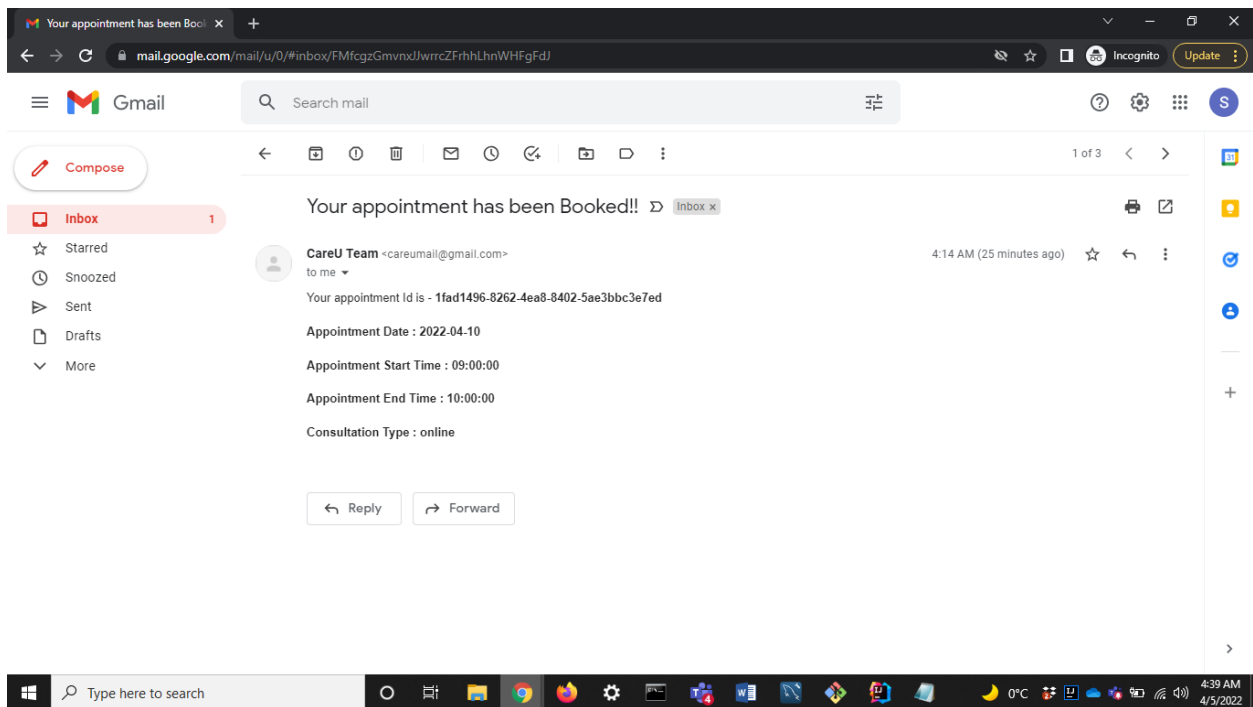
Fig 7.9: Bill PDF mail for reference

Fig 7.10: Bill PDF sample

Fig 7.11: Booking Appointment Success Mail (This does not consist the bill but contains only appointment details)
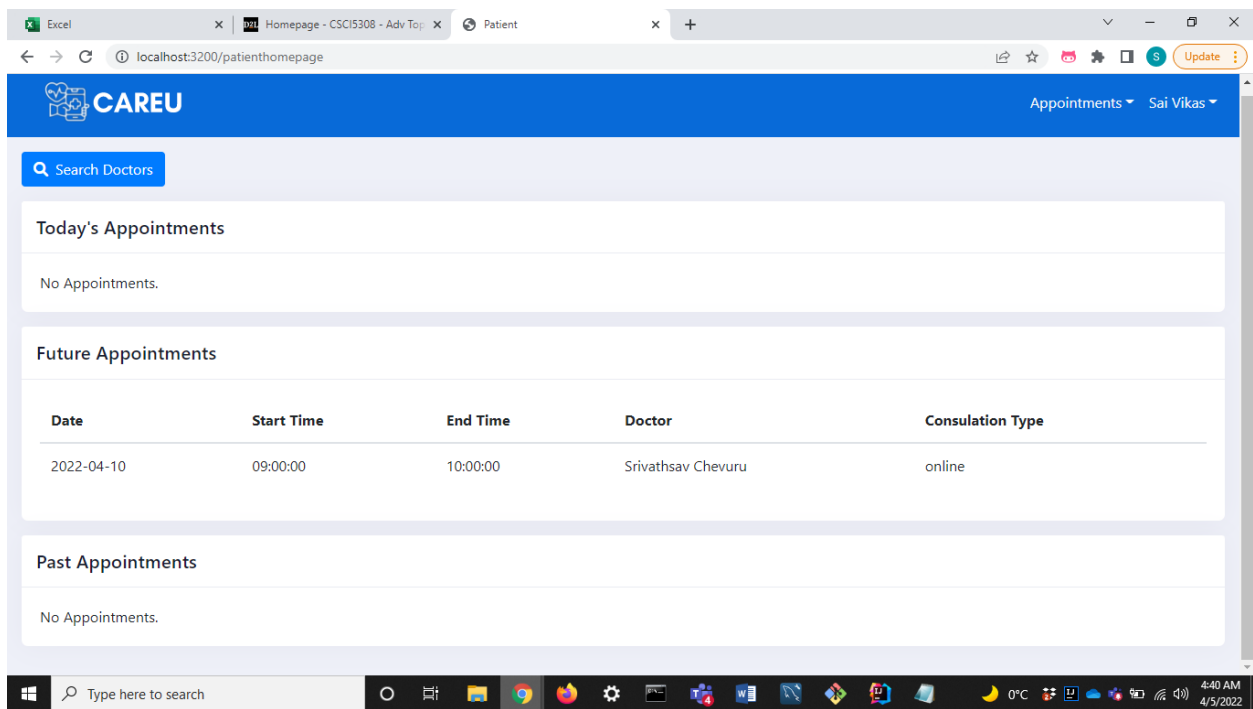

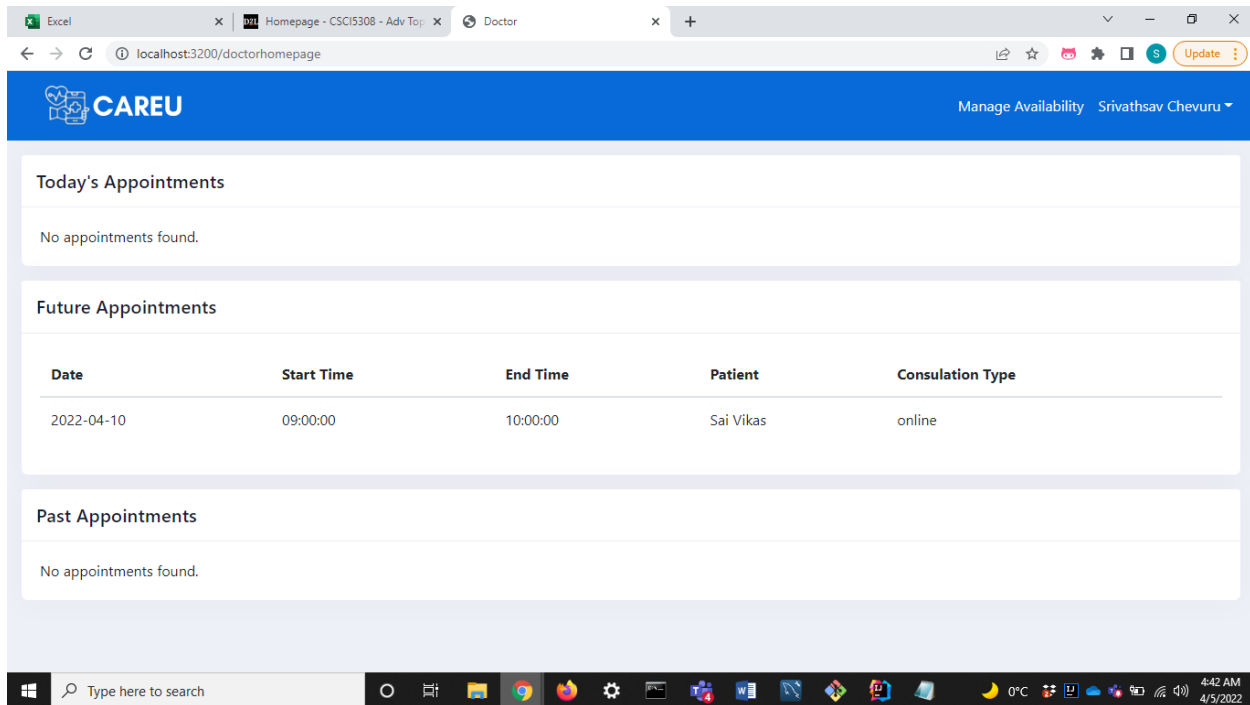Fig 7.12: Patient Homepage after appointment booking success

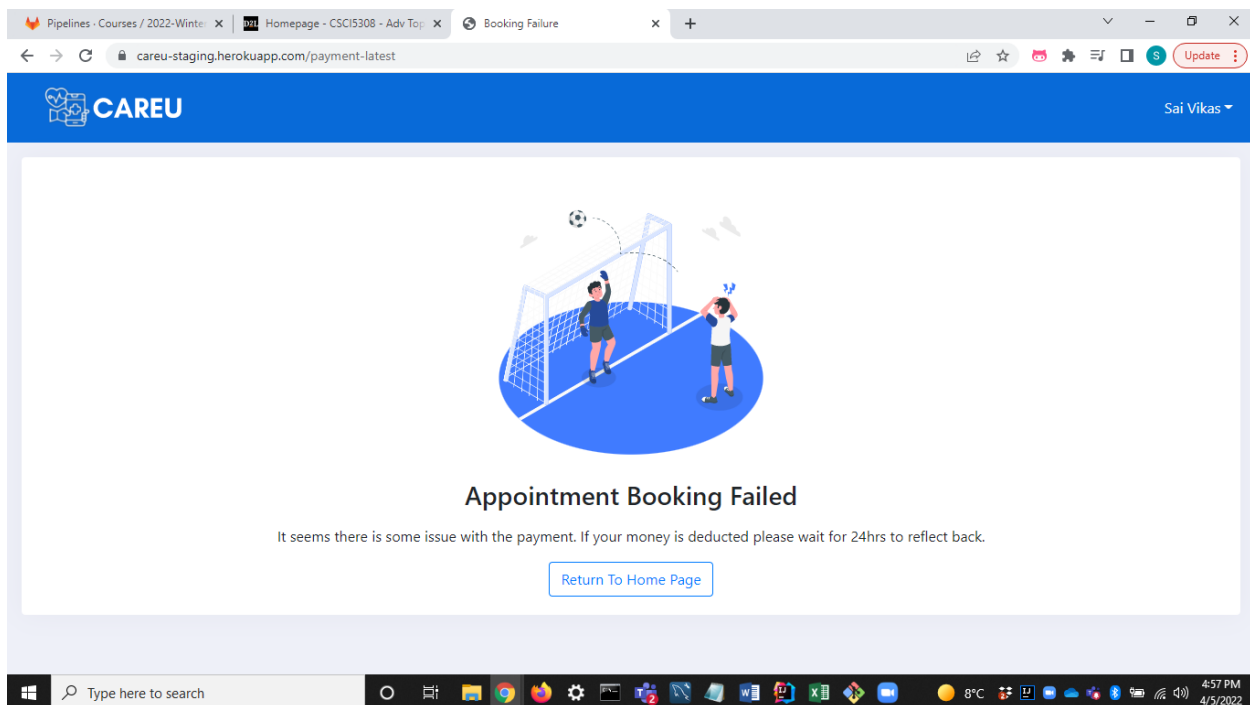Fig 7.13: Doctor Homepage after appointment success

Fig 7.14: Appointment booking failure page (Failure will happen if payment is not processed correctly, payment failure can happen due to wrong card number, unsupported card type, wrong expiry month & expiry date, insufficient funds, if card has expired but is still being used)

8. **Patient Cancel Appointment:** Patient can cancel appointment which he has booked. To do that he has to hover on Appointments which is on top right corner of the page. Then click on Cancel Appointment.
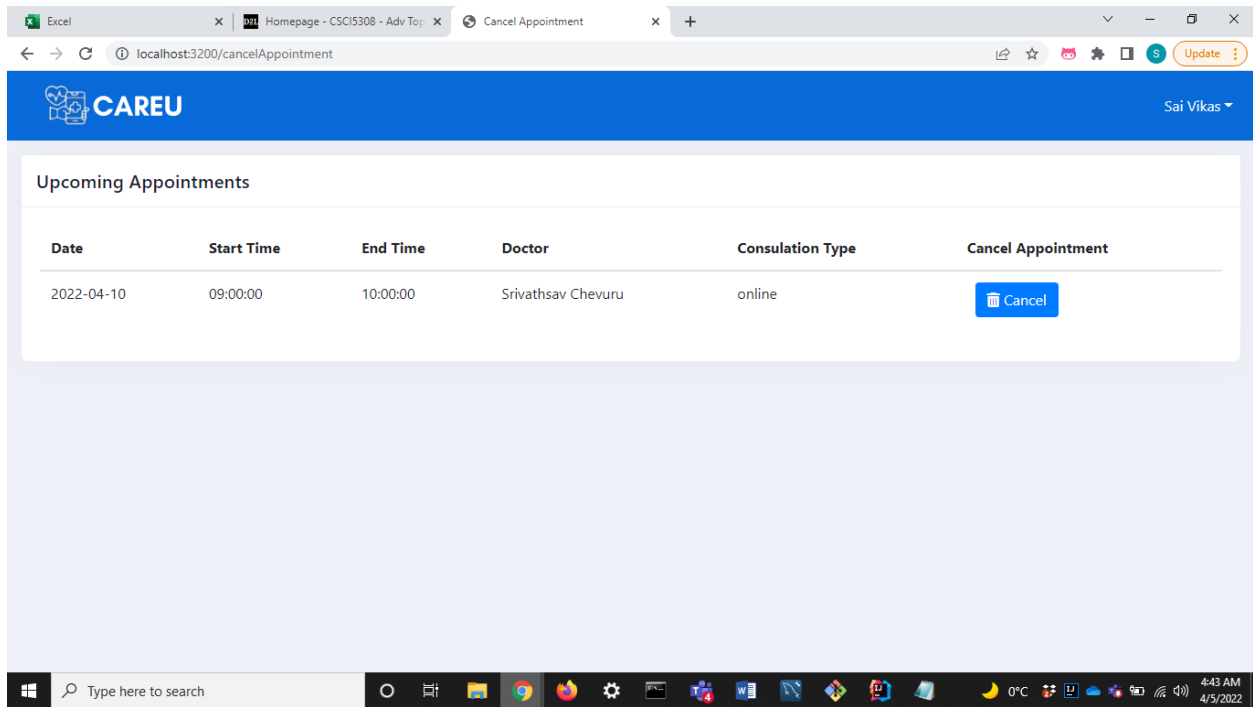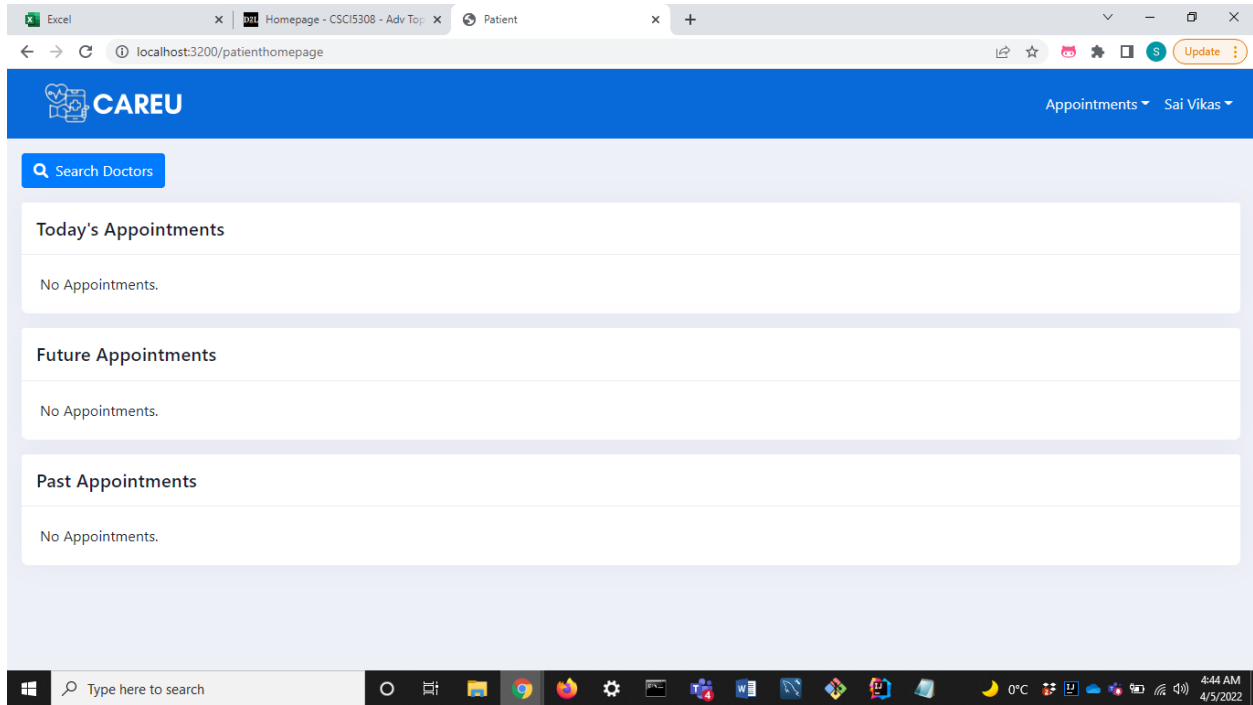

Fig 8.1: Cancel Appointment Page
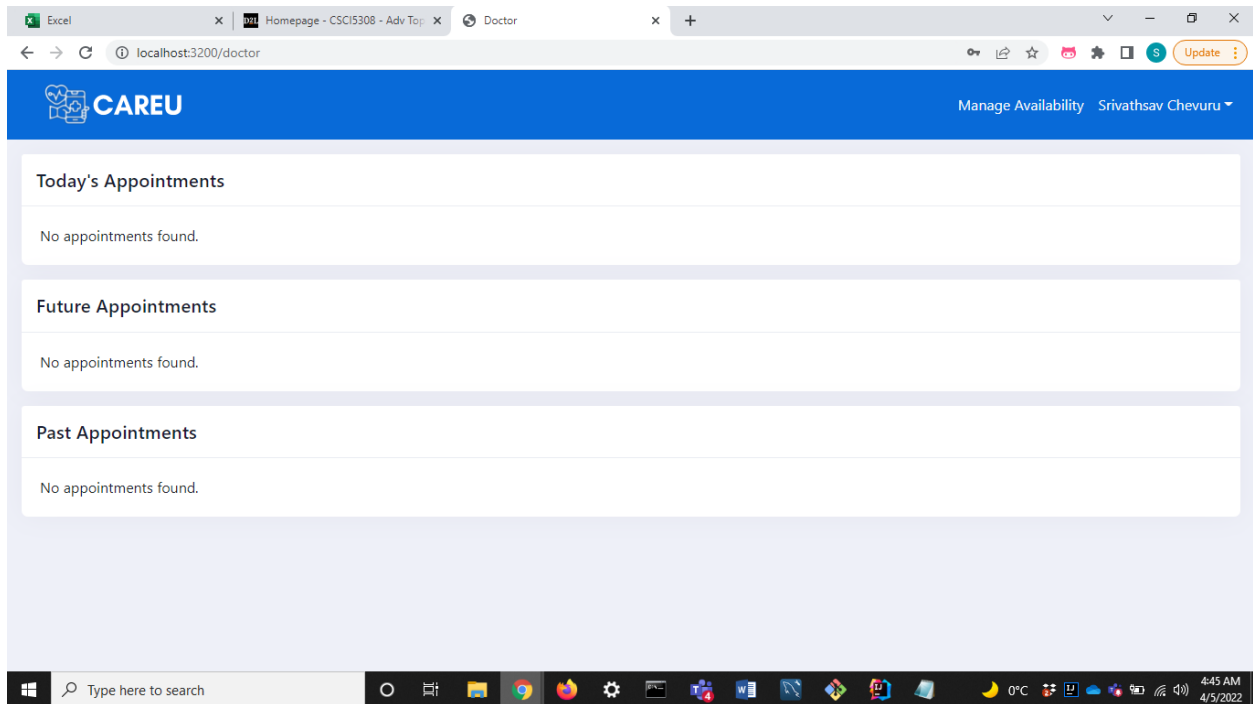
Fig 8.2: Patient Homepage after cancelling

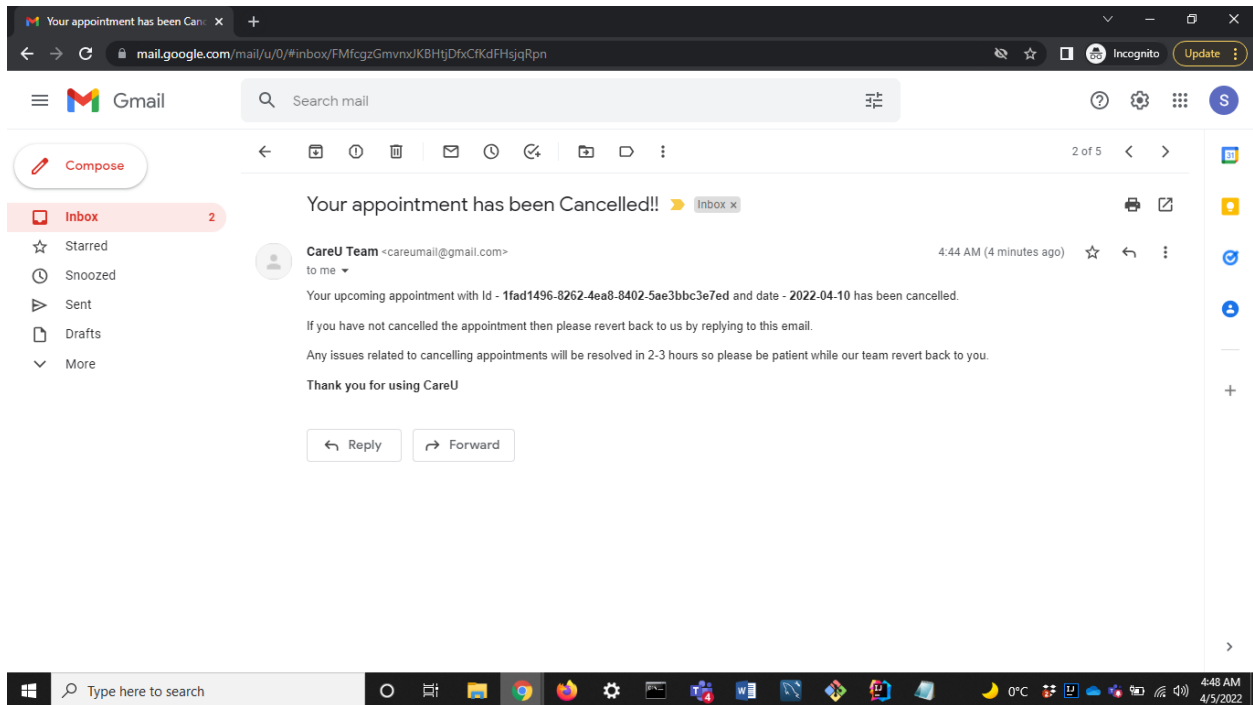Fig 8.3: Doctor Homepage after cancelling

Fig 8.4: Appointment Cancellation Mail

9. **Forgot Password:** If a user forgets his password this feature enables him to reset the password. You have to first enter the mail to which you want the reset link to be sent. You would get a password reset link to your mail.
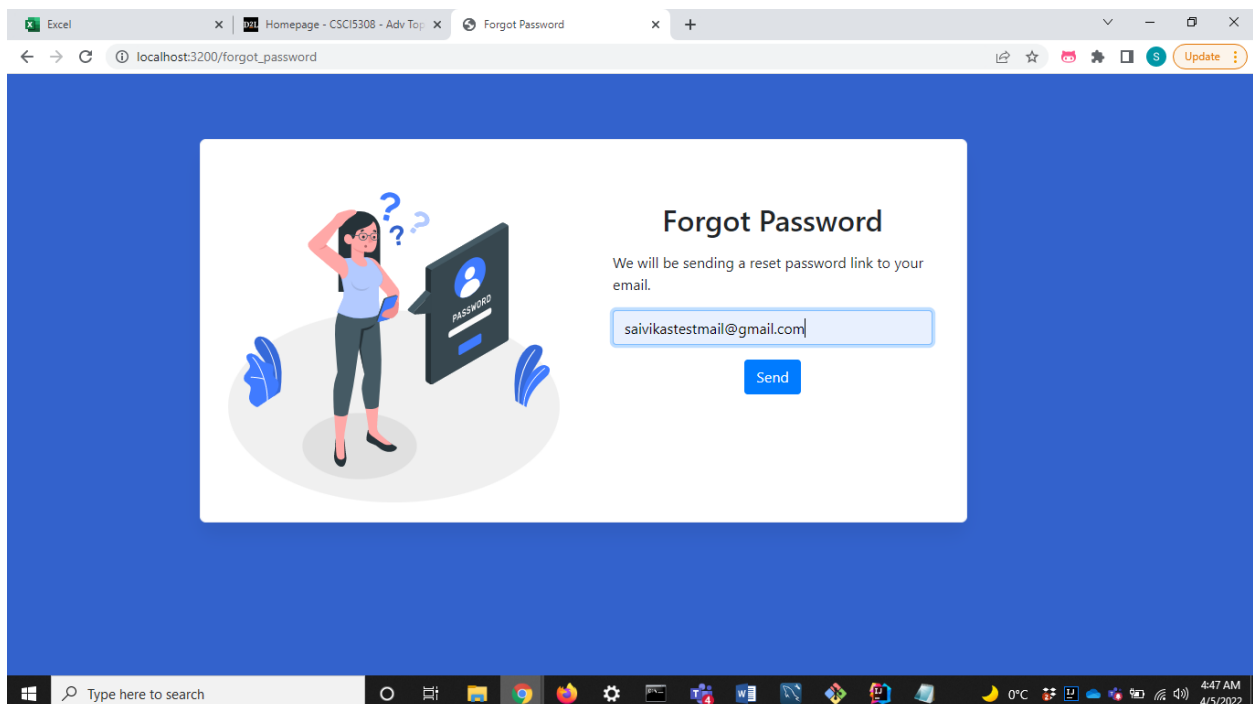
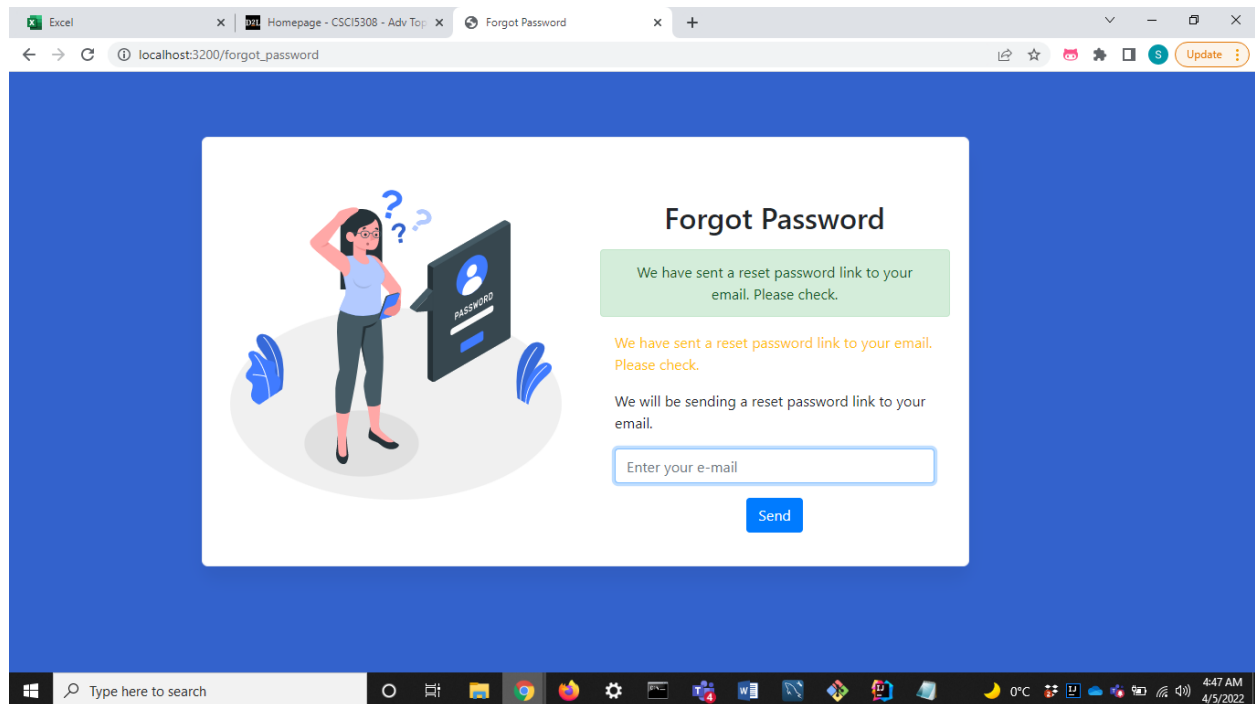Fig 9.1: Forget Password Homepage (Enter the password reset mail)

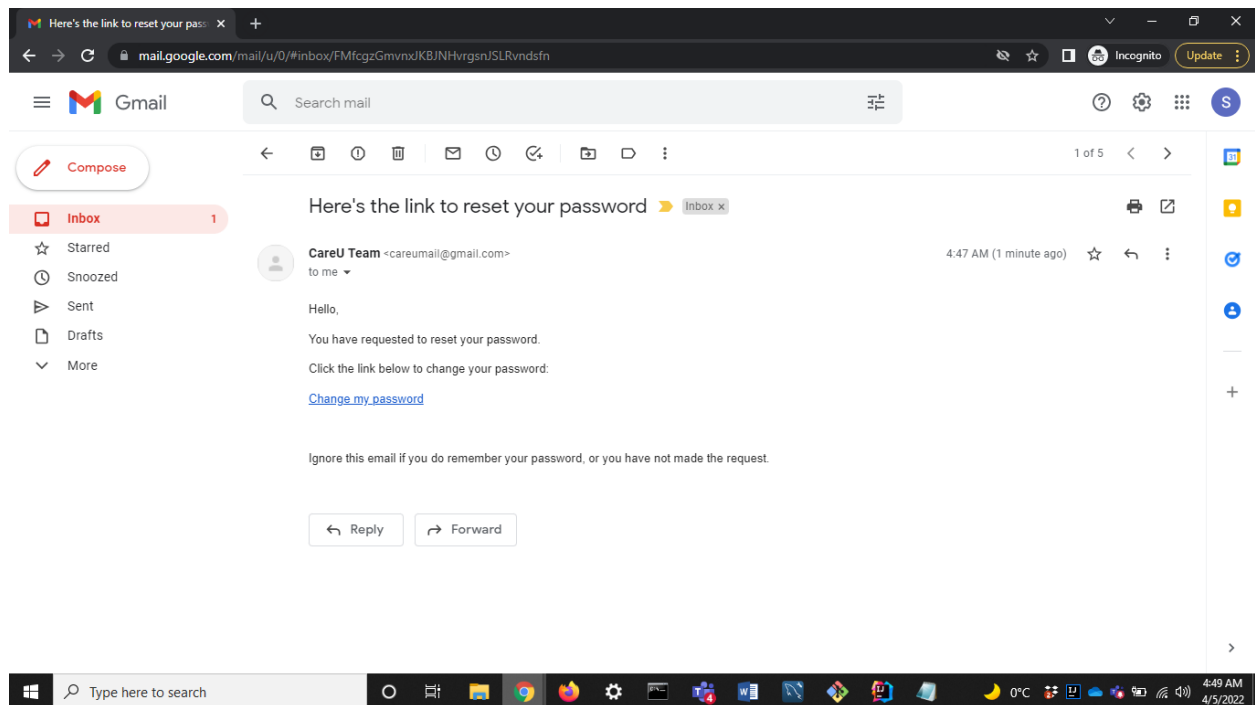Fig 9.2: Password Reset mail has been sent.
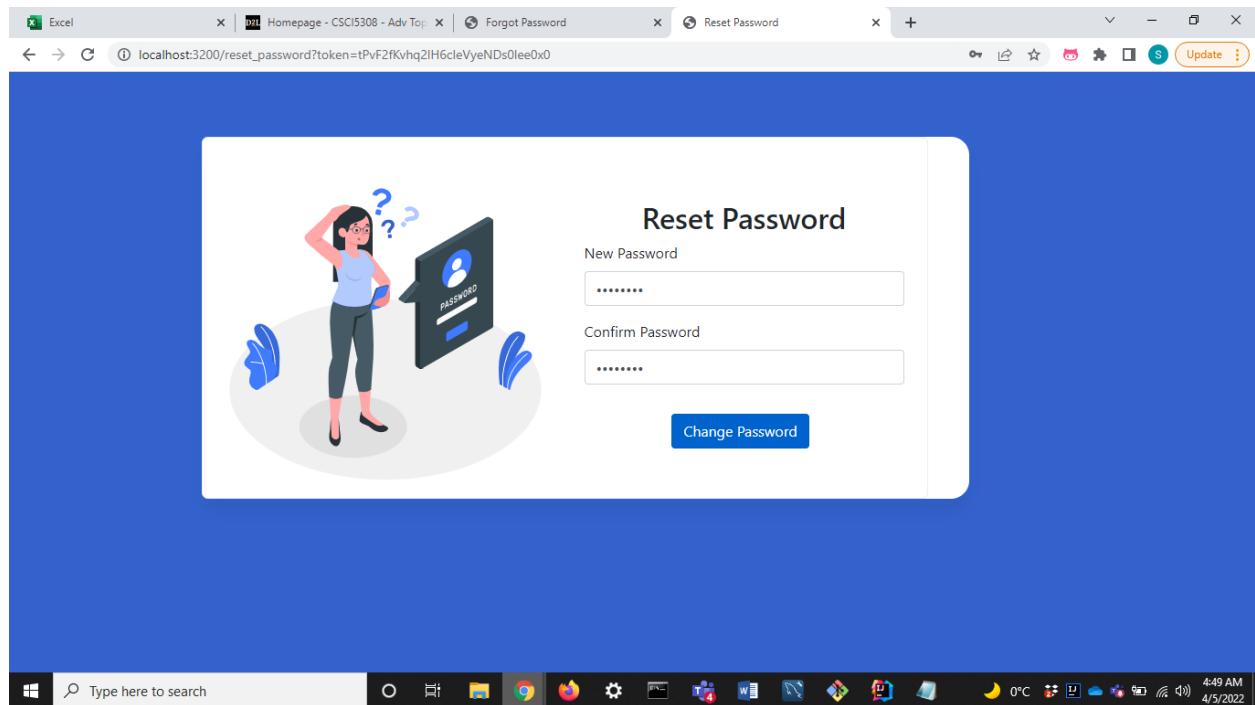
Fig 9.3: Password reset link mail
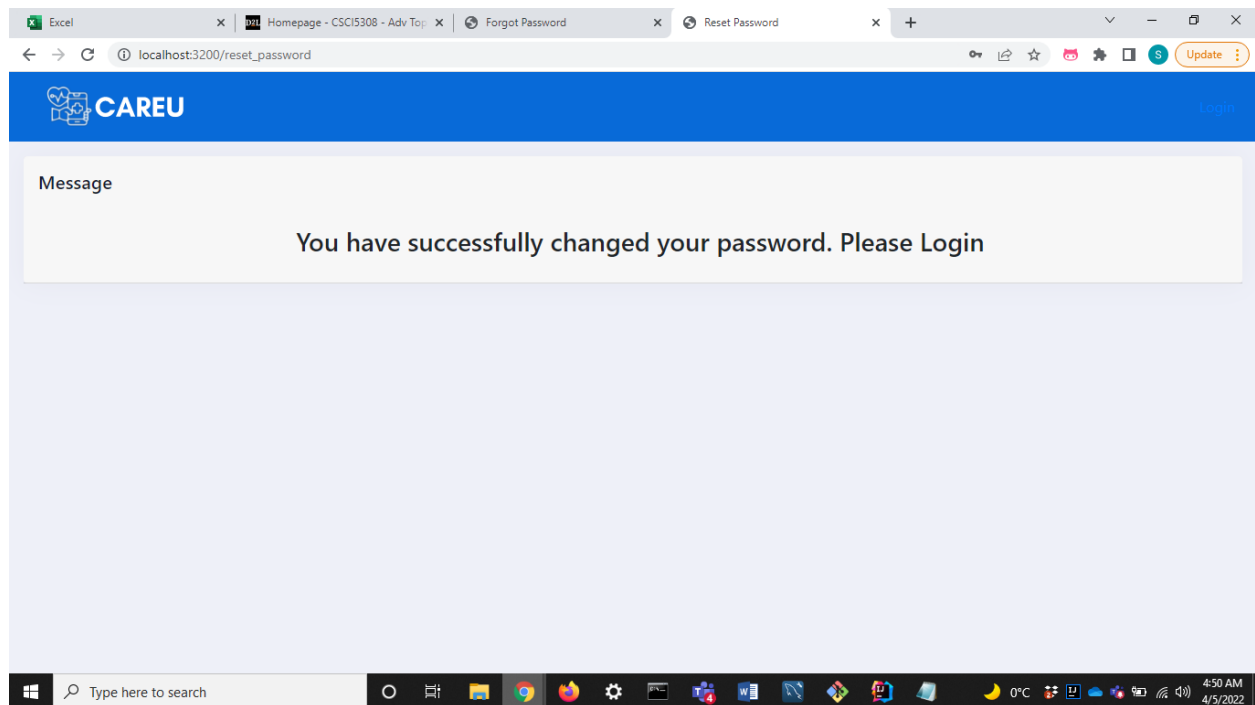

Fig 9.4: Password reset link page

Fig 9.5: Password Reset Success Page

10. **<u>Doctor Prescription Feature:</u>** Doctor can add medications in the prescription. This prescription is only available for today's appointment and is disabled for past and future appointments. Doctor can also edit this prescription; the existing medications are repopulated and show to doctor and he can edit that and save the new medications.
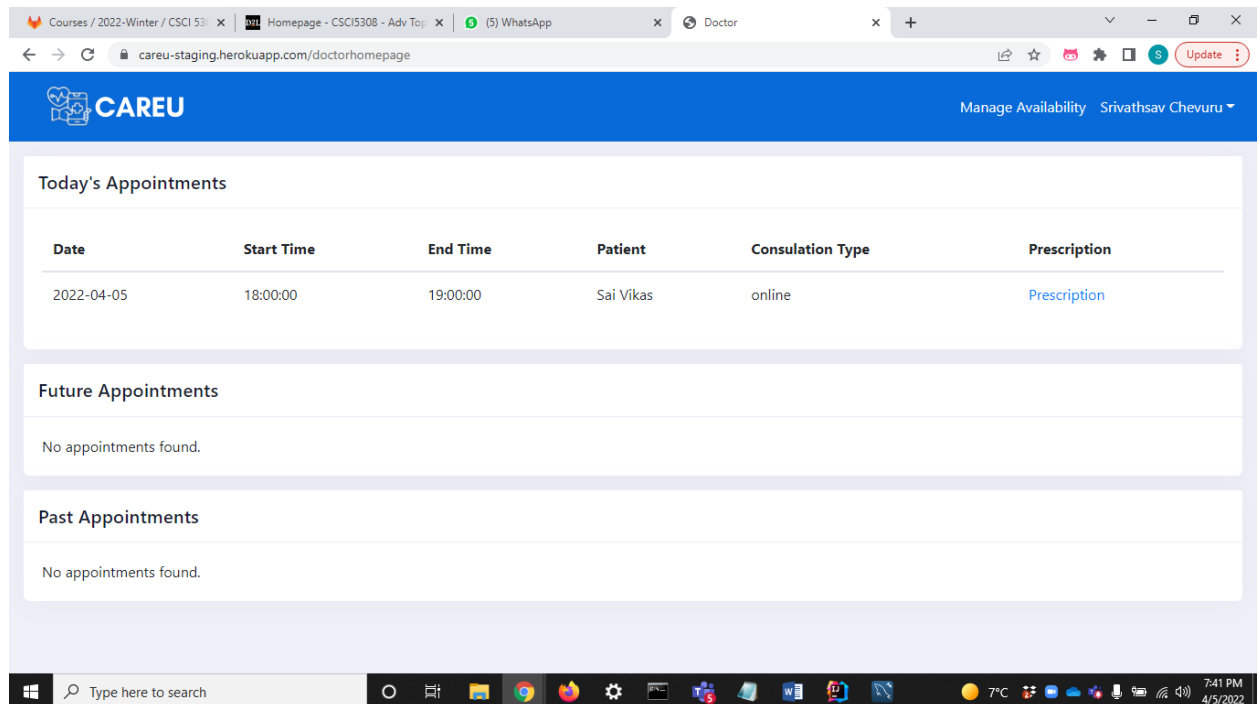

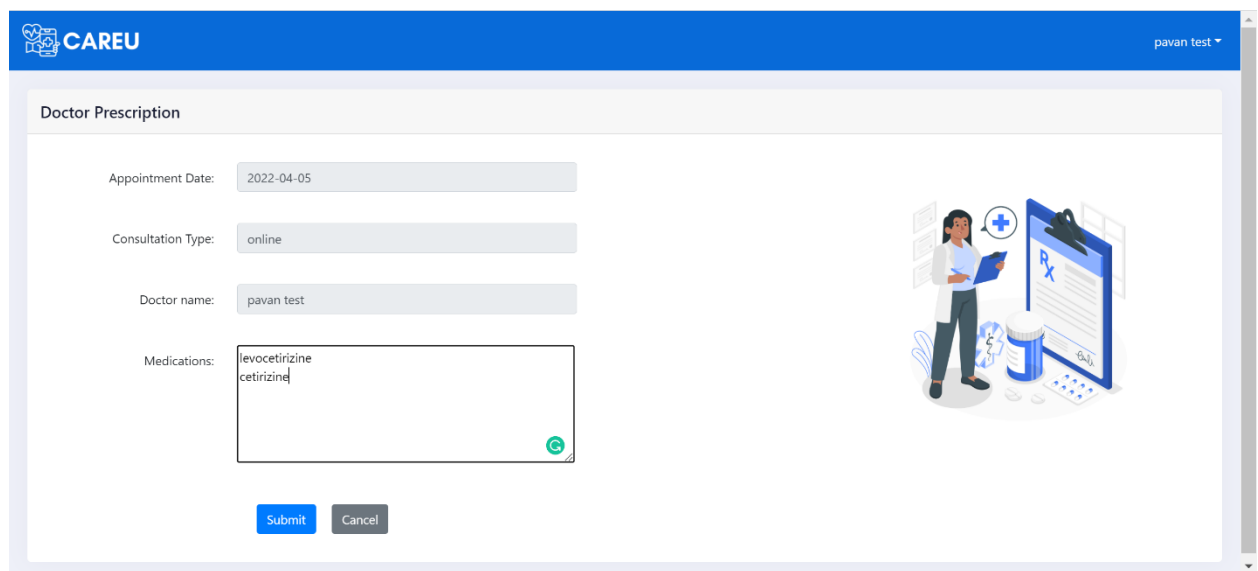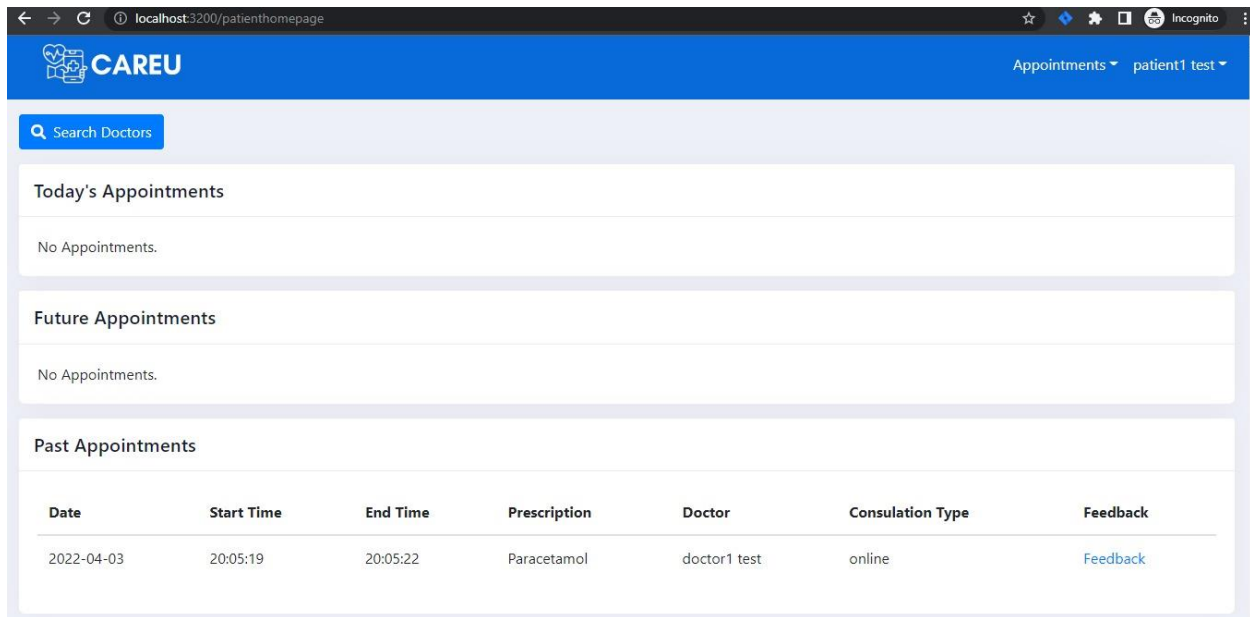Fig 10.1: Doctor Prescription for Present Day Appointment

Fig 10.2: Doctor Prescription (Enter the medications)
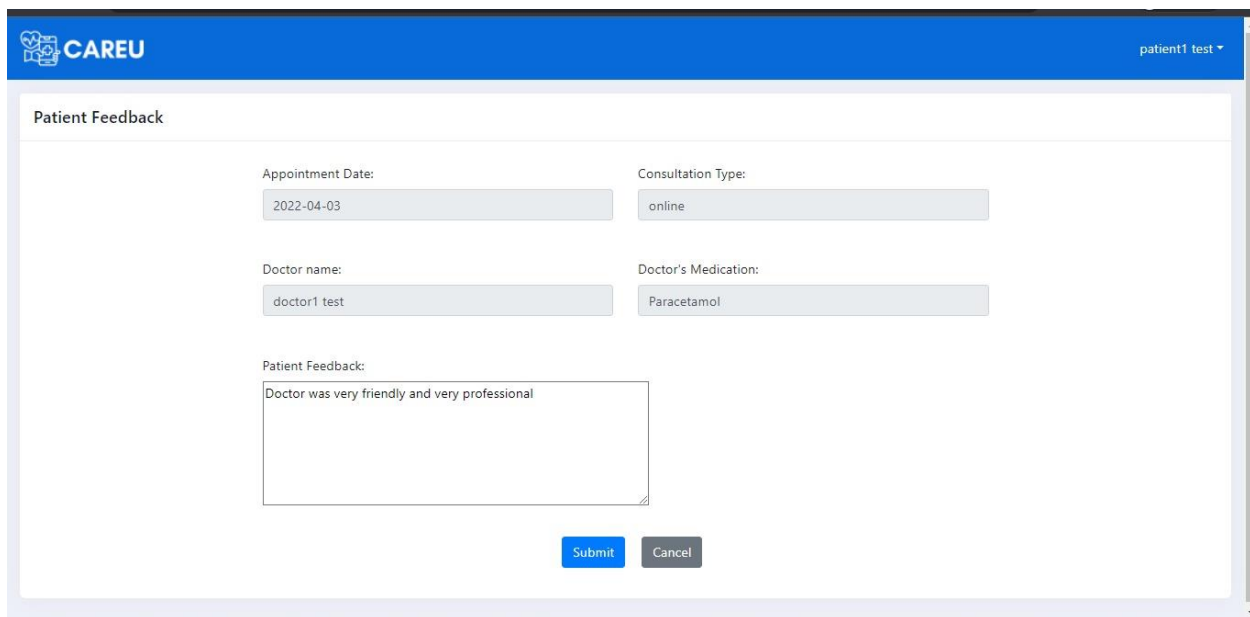
11. **Patient Feedback:** The patients can provide feedback by signing in to their portal. The feedback would only be enabled for past appointments.

Fig 11.1: Feedback in the Patient Homepage

Fig 11.2: Feedback page (Enter the feedback)

12. **Redirection to dial pad for patients:** From a UX perspective we have implemented this feature. The user can easily place a call by clicking on the number that he can see in his appointment. This will redirect him to dial pad. This option would only be available in mobile and not in desktop.
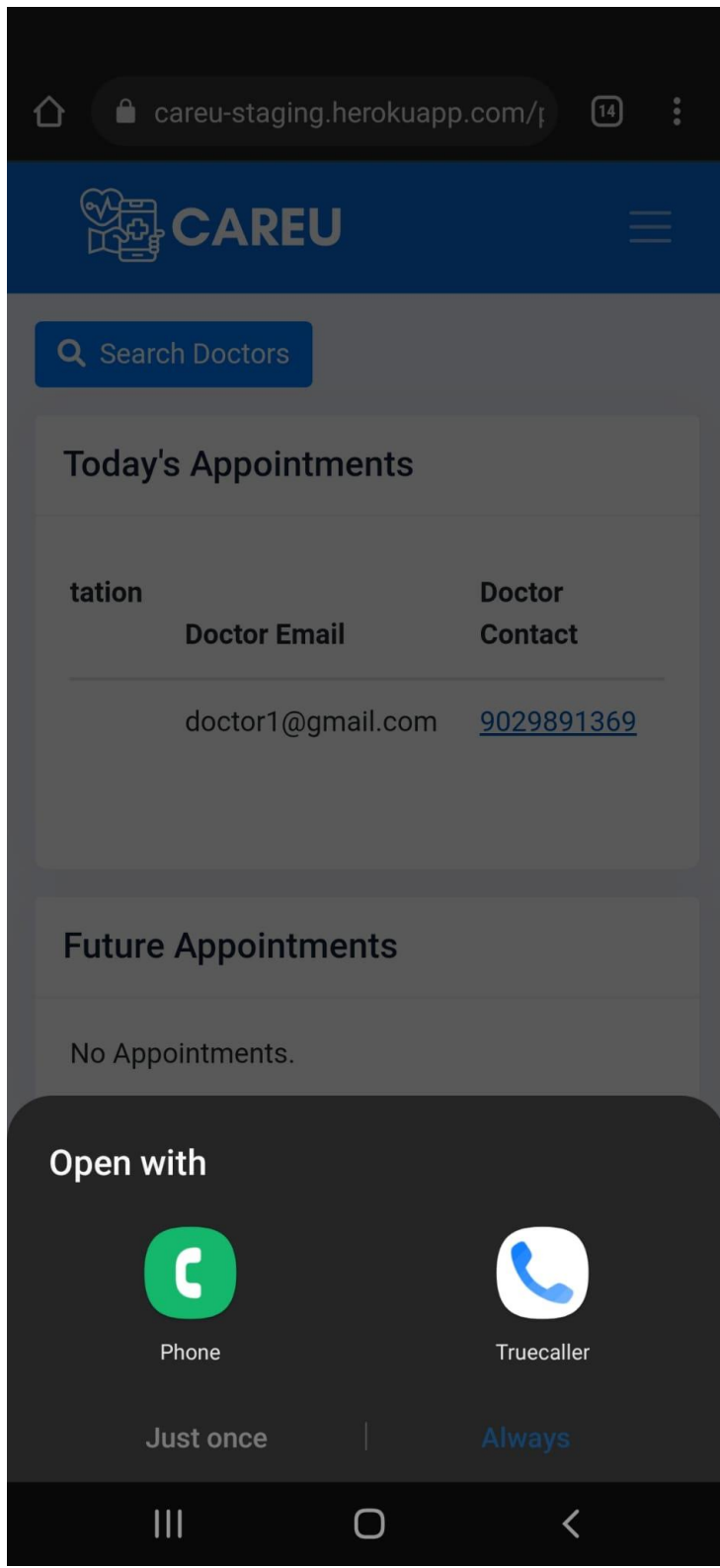
Fig 12.1: Redirection to dial pad (in mobile)

QScored Quality Graph: