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ROLL: 1807045

DOCTOR APPOINTMENT

OBJECTIVES ---To develop an interective JAVA Desktop Application to Fix **doctor appointment for patients** where they can choose doctors, fix appointments, create items, get prescriptions from doctors and rate the doctors.

Here is an admin to control the whole precess who can monitor, control and change the options.

Doctors are also able to use this application to visit patients, give prescriptions and monitor patients status.

Patients can visit websites (such as **appointments** online, get **health** tips and check the **details** of all **medicine** available in market **directly** from this **application**.

Introduction This DOCTOR APPOINTMENT application is a JAVA desktop application specially designed for PATIENTS and DOCTORS and an intemidiate users called admin to control the options of this application. For Patients they can login and sign up in this application, choose doctors as they like and fix appointment with his/her fiseable time .And they can get short prescription from doctor via this application. One can keep record the medical

Items he purchased by price, quantity and product name.

For **Doctors** they can sign up here as the patients can find then easily ,they can have an appointment with the patients , Visit them and give them a short prescription to cure them. There is a option of rating where doctors can be rated by patients and thus get much exposure.

There is also an Admin who controls all the main activity like he can add patients doctors, fix appointments that patients. Were requested, he alos manage the rating system of doctors given by the patients. He plays a vital role in this application

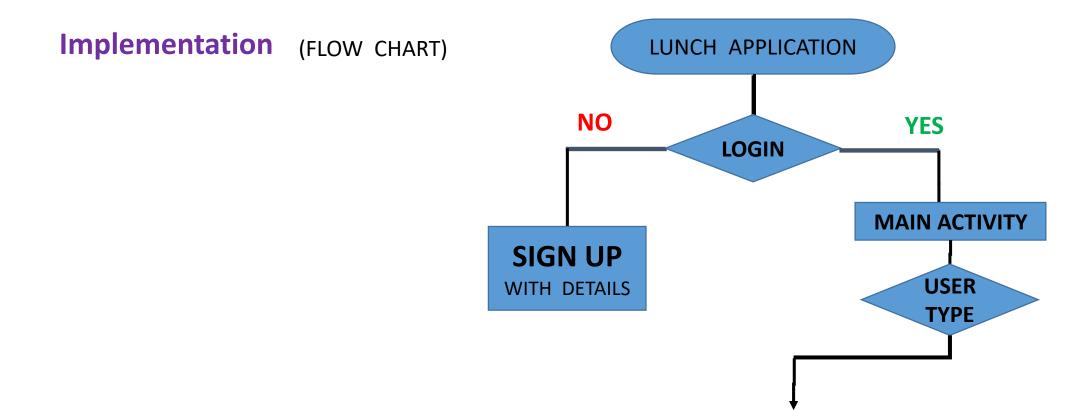
All the three users can login in this application and here there is three Panels for three different users. We have different features for three individual users. Like the patient and the doctor can see the prescriptions given but the admin can't see that. For security purpose all the names of patients and doctors are encrypted to Admin. He can only see the ID No. Of the patients and doctors.

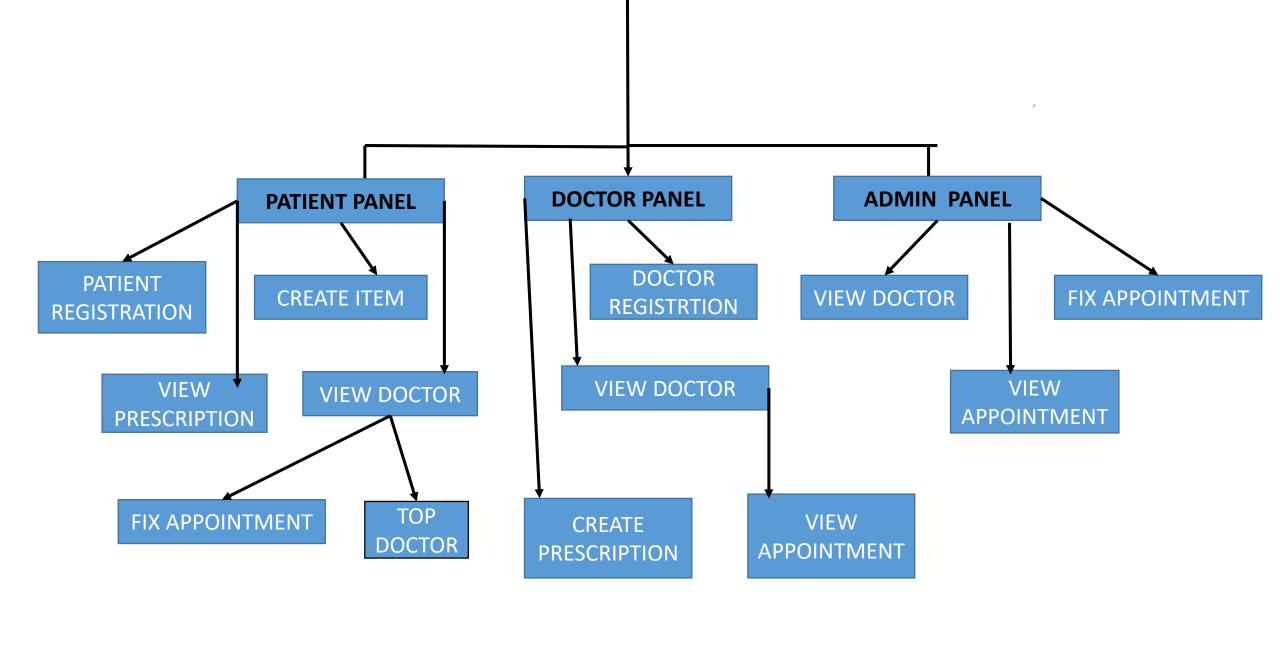
Here there is an option for the patients only to view websites directly from the application in it's run time. Using this feature the patients are able to see the doctors in different departments (like cardiologist, cancer, medicine etc.) in different country locations. All this are done through web technology. Moreover the patients also can have health tips free in Bangla and also check details of the medicines available in the market. These are the main features of this

application. Now get back to the instruments that are been used to make this application .those are listed below :

- 1. Netbeans IDE 8.2
- 2. Xampp Mysql local host
- 3. A Browser(Microsoft Edge)
- 4. A well configuraed Laptop

JAVA Swing was used as the design and operation part and as the database the xampp MySql was been used. A Browser was used to deal with the database. But to integrate the functionality of web JAVAFx was been used.





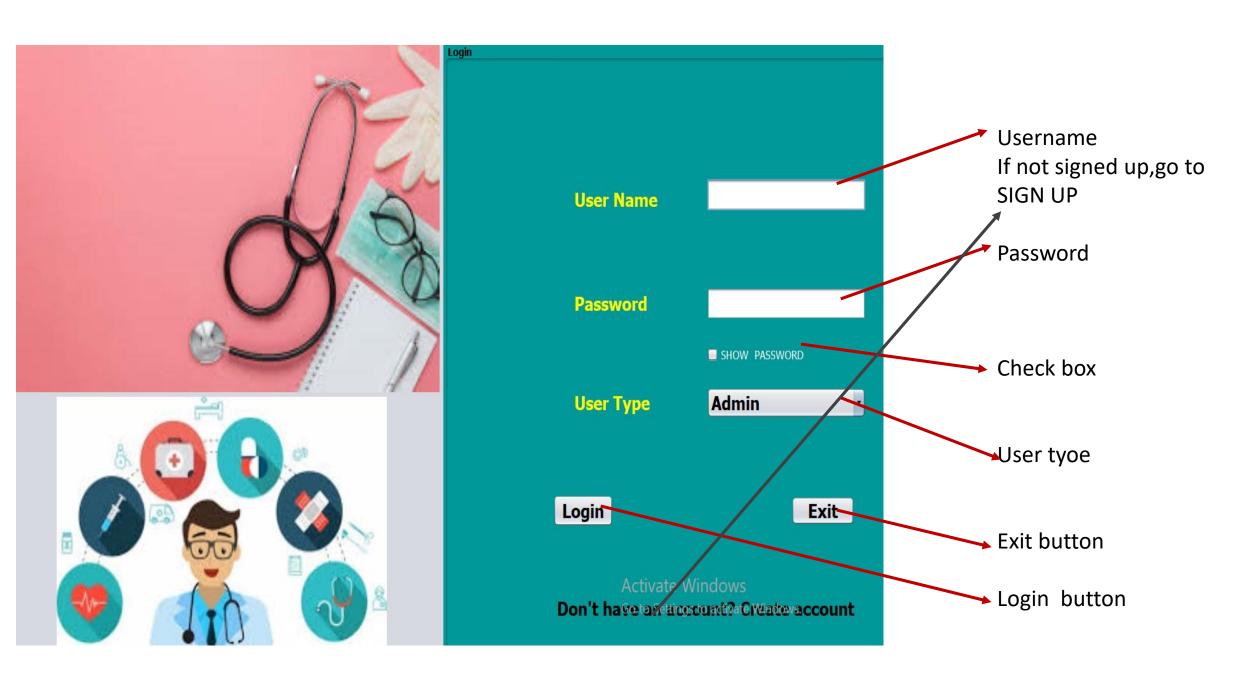


Fig 1—LOG IN PAGE

ONLINE **APPOINTMENT**

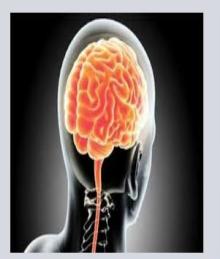




Fig -Sign up page (user creation)

User Creation Password Admin Usertype Add Cancel **Back to Login Page**

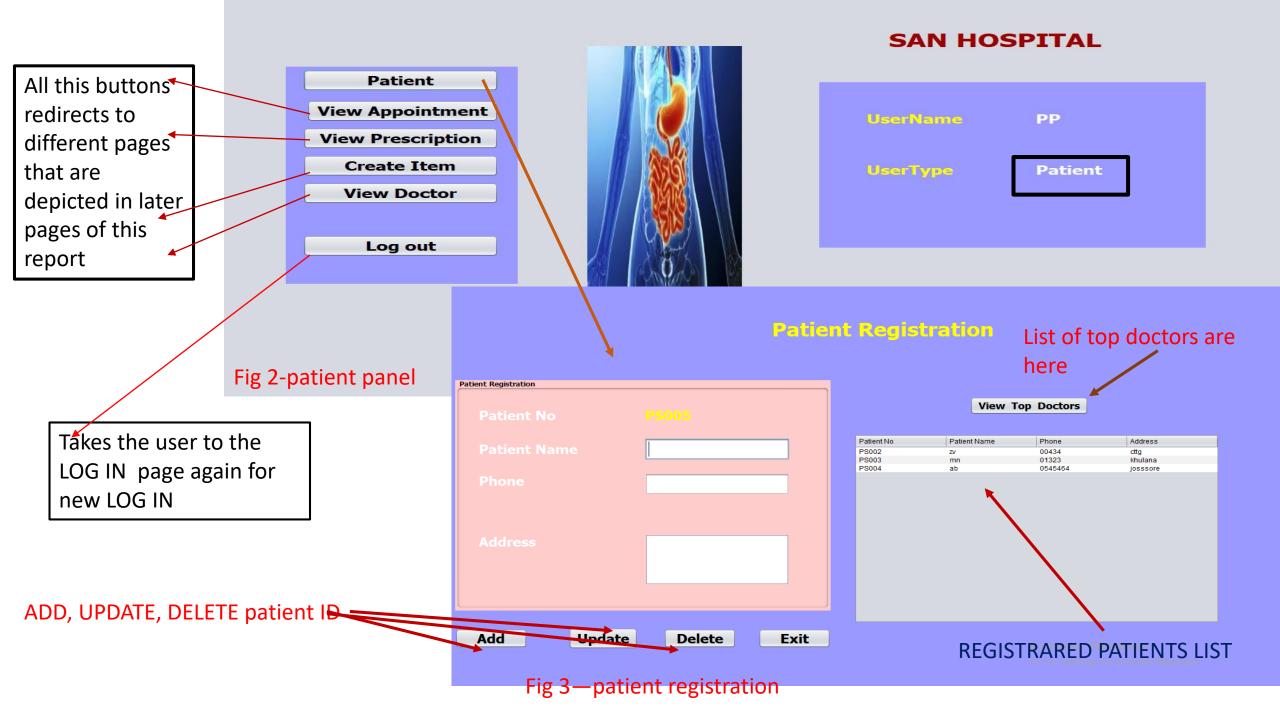
Name, Username, Password & usertype are given to sign up

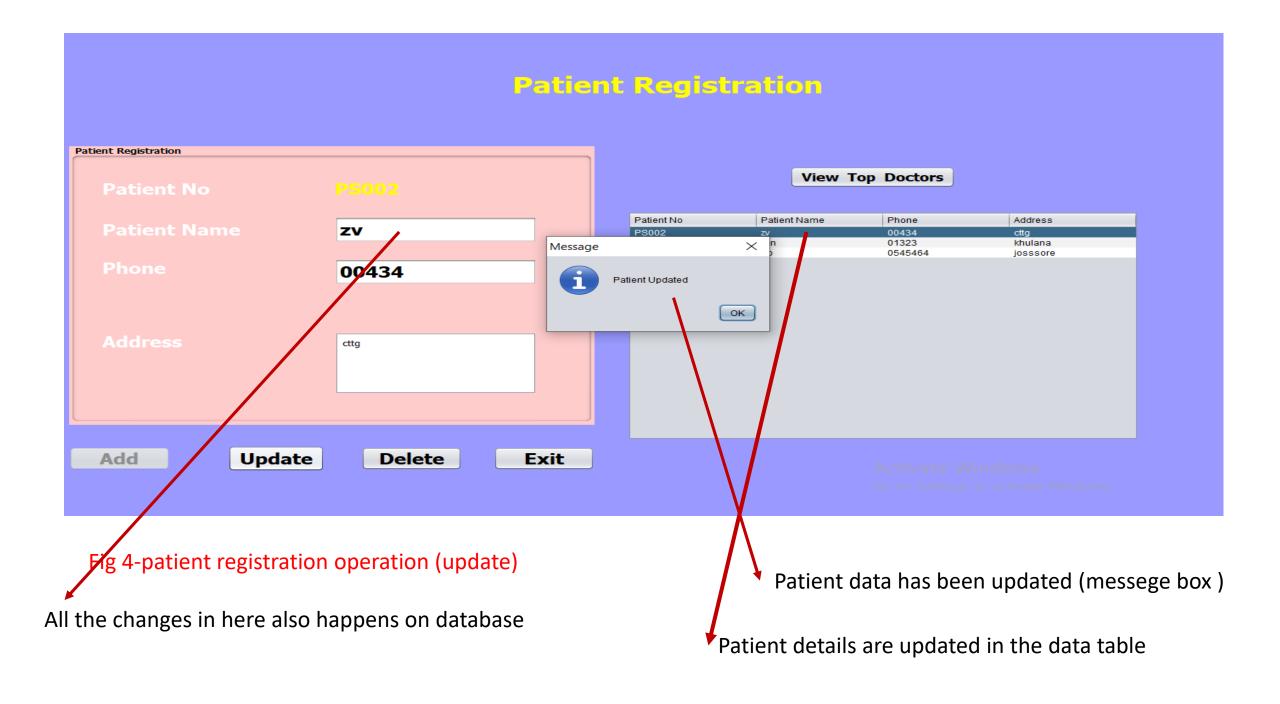
This combobox selscts the usertype that fixes the next page access as patient panel/doctor panel/admin panel

After giving all this info for signup, pressing the button lets one to be a user & saves this data in database & matches in the next trial of LOG IN

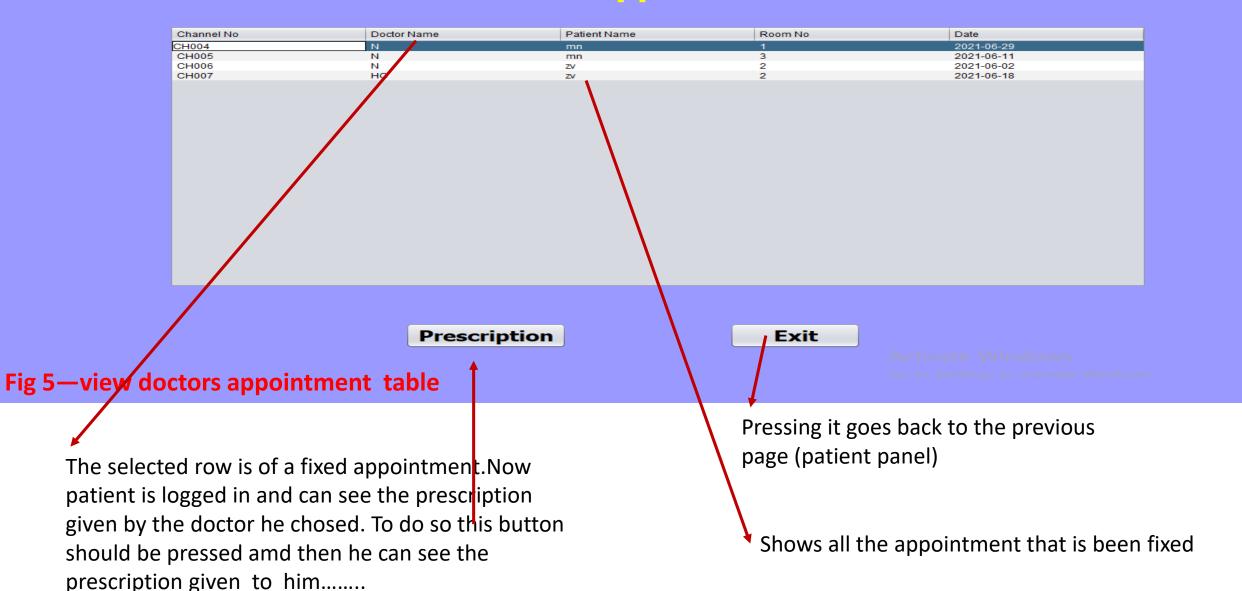
Cancel the visibility of current page

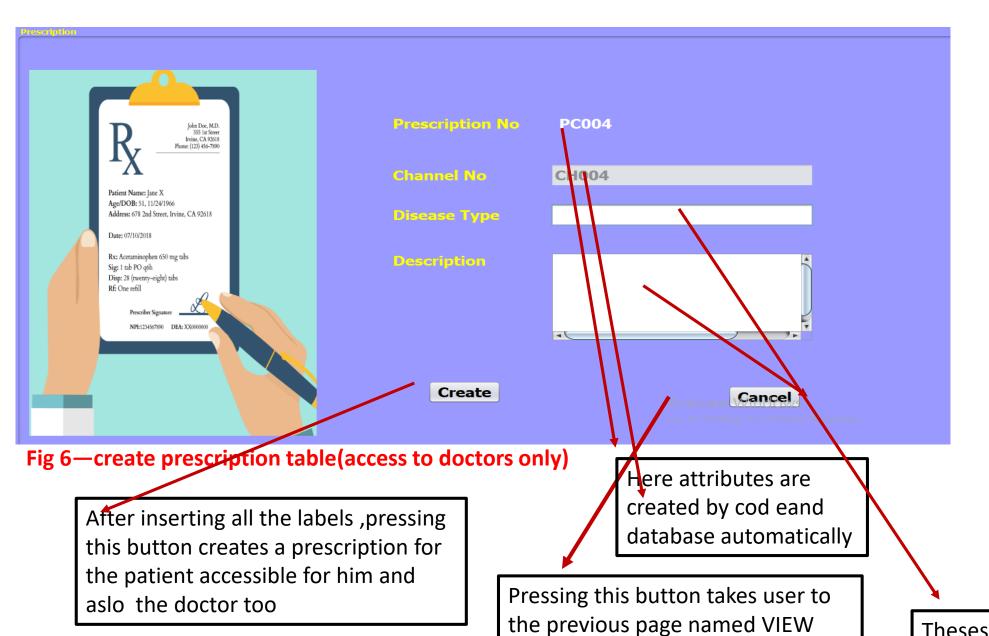
If the user is already signed up then directly he can log in by username & password in "LOG IN "page





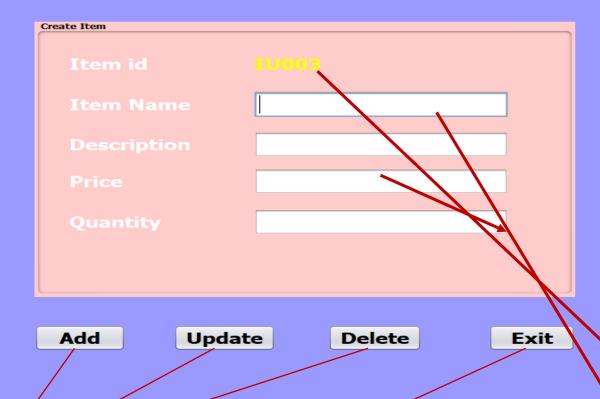
View Appointment





APPOINTMENT

Theses are editable by doctors



Created Items are listed in this table serially that are given by patients

Fig 7— Create Item table by Patients

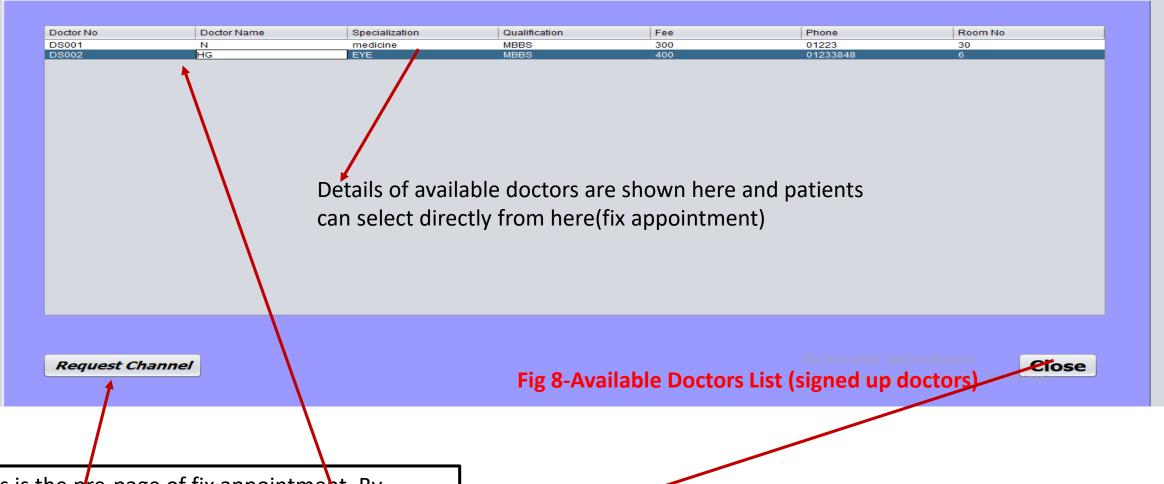
This label is created is created automatically by the code and database is constant

Other labels are been editable by the patient himself in run time & saved in data base

These three buttons are used to ADD ,UPDATE, DELETE the data of created items by patient manually

Pressing this button takes user to the previous page named VIEW APPOINTMENT

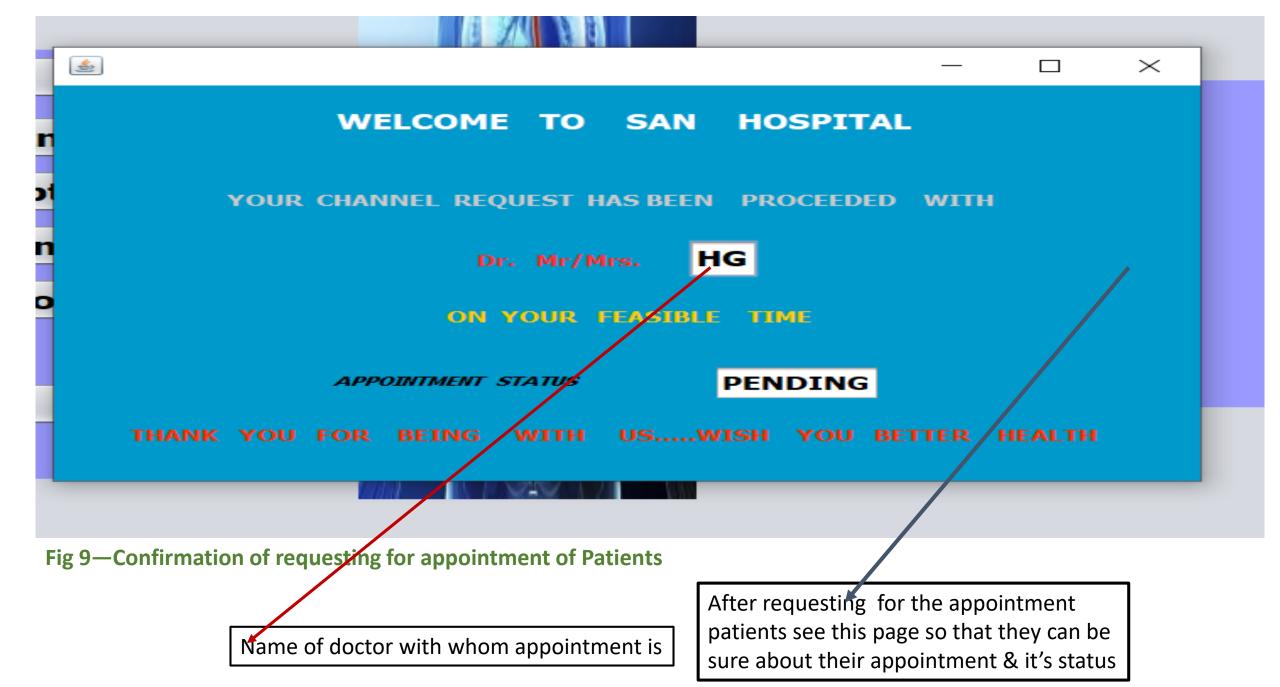
Doctor List

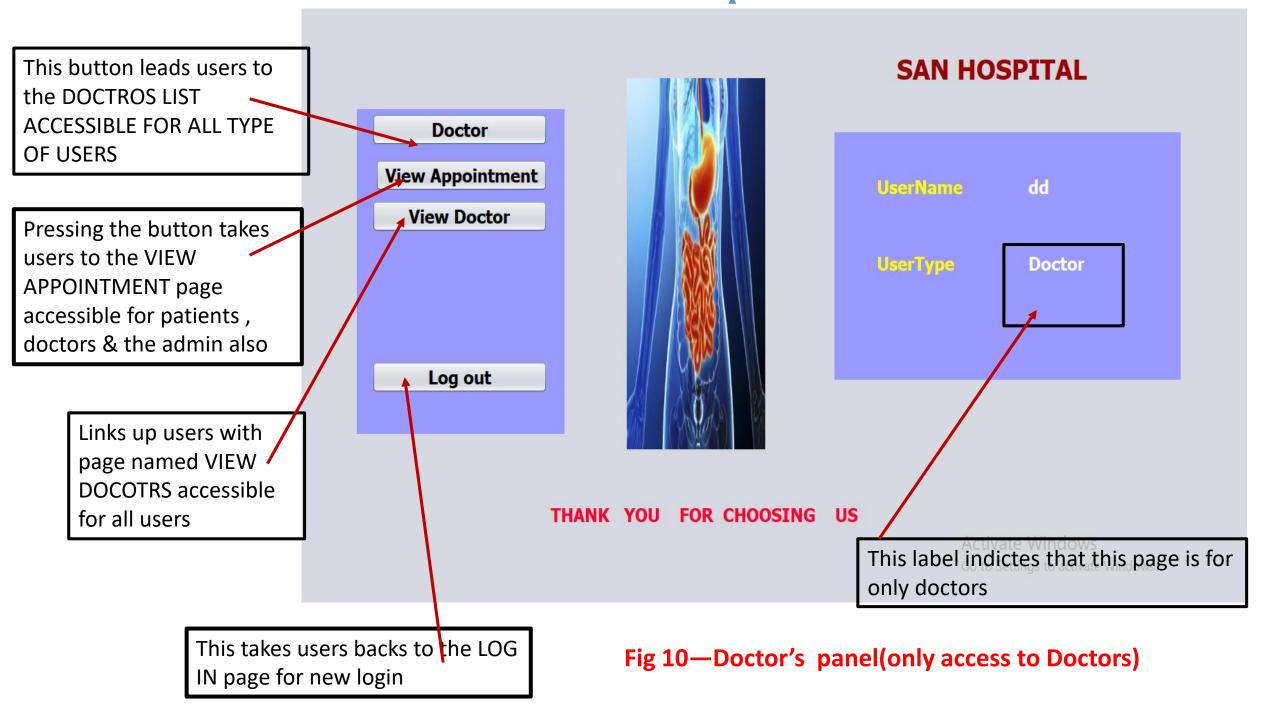


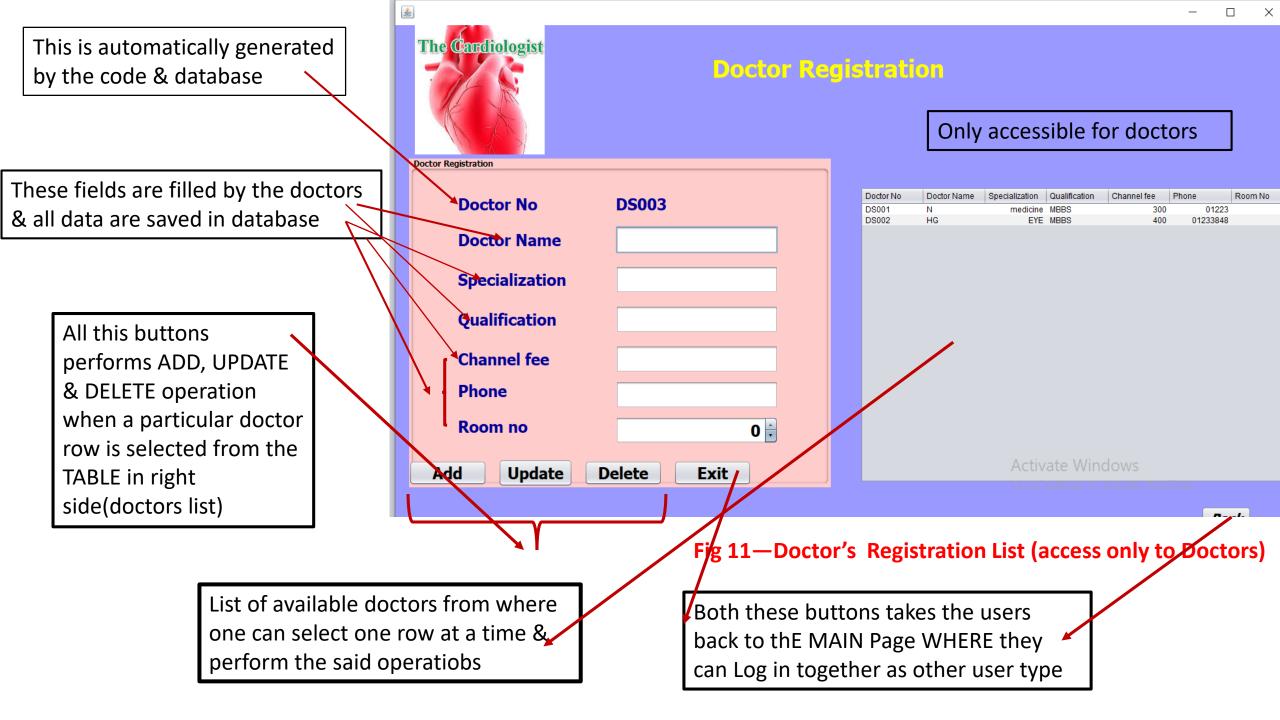
This is the pre-page of fix appointment. By selecting the available doctors from this list and pressing this button patients can request for appointment to the admin that will be approved later by admin in a fiseable time of patient given

Pressing this button takes user to the previous page named VIEW APPOINTMENT

(It is the main functional page of this application)



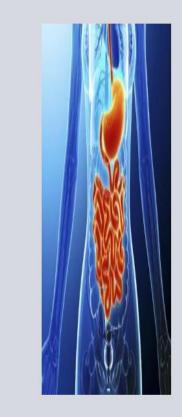




Pressing this button admin can give patients details & make him a user os this application. Next time that patient can directly LOG IN to use this application

This button takes the Admin to his main functional page whre he can check the appointment requests of patients and confim the appointments & if he confirms the patient gets an confirmation page accessible from the patients panel

This button takes the Admin to the page VIEW DOCTOR also accessible for both Doctors & Patients



Patient

Fix Appoinment

View Doctor

Log out

SAN HOSPITAL

UserName aa
UserType Admin

THANK YOU FOR CHOOSING US

Activate Windows

Fig 12—Admin Panel (main page for admin)

Pressing this button takes the user to the main page where he can also LOGIN as a patient and fix his own appointment with available doctors

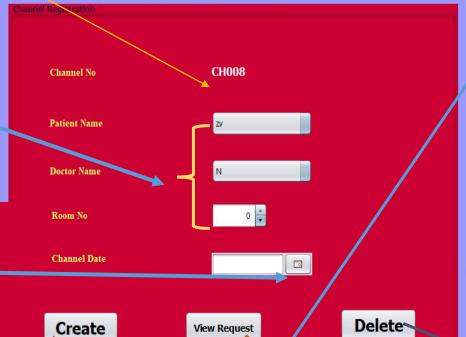
This is automatically generated by the code & database

From this three combobox admin can select any of the available patient, doctors &also the room no. where the chamber of the doctor is



JAVA calender used by the admin to fix the appointment date





Pressing the buttor

appointment by the

row from this TABLE

Admin by selecting one

creates a new

By choosing one row & pressing this button an appointment can be deleted

This button shows
Admin the Ipending
appointment requests
by Patients

CH004

CH005

CH006

DS001

DS001

DS001 DS002 PS003

PS003

PS002

Takes back to the Admin panel page

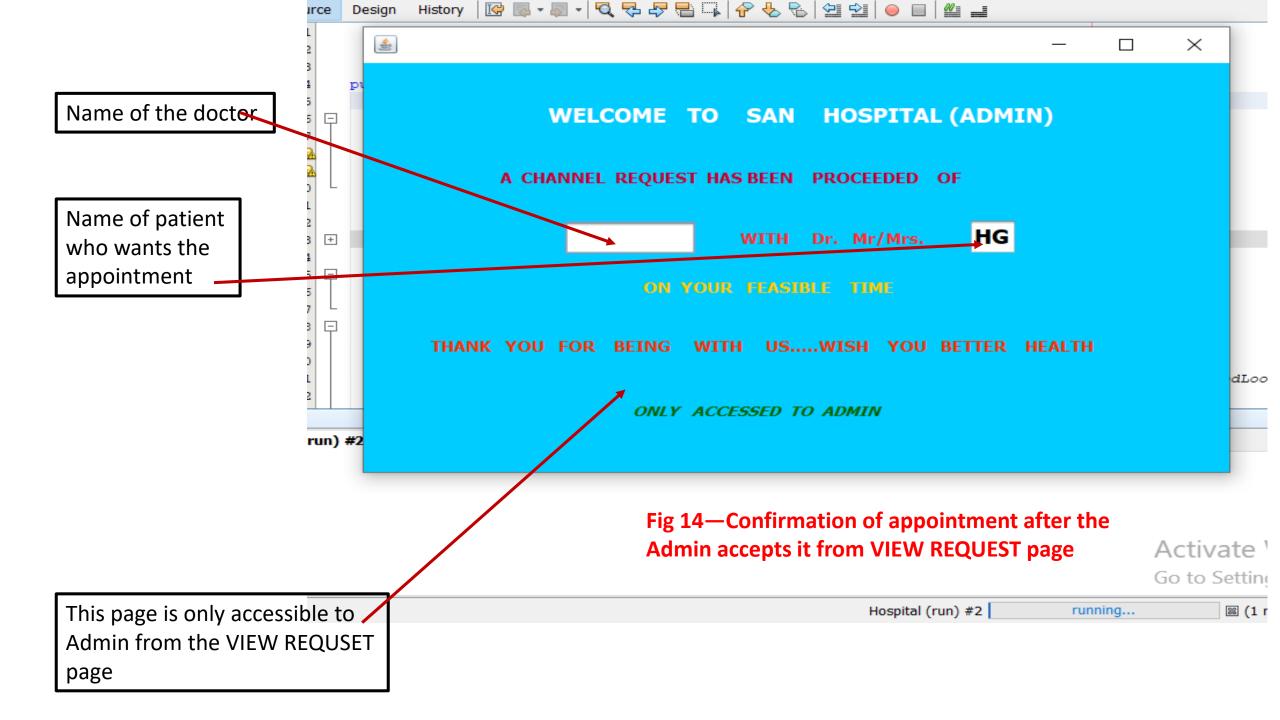
CLOSE

Fig 13

2021-06-29

2021-06-11

2021-06-18



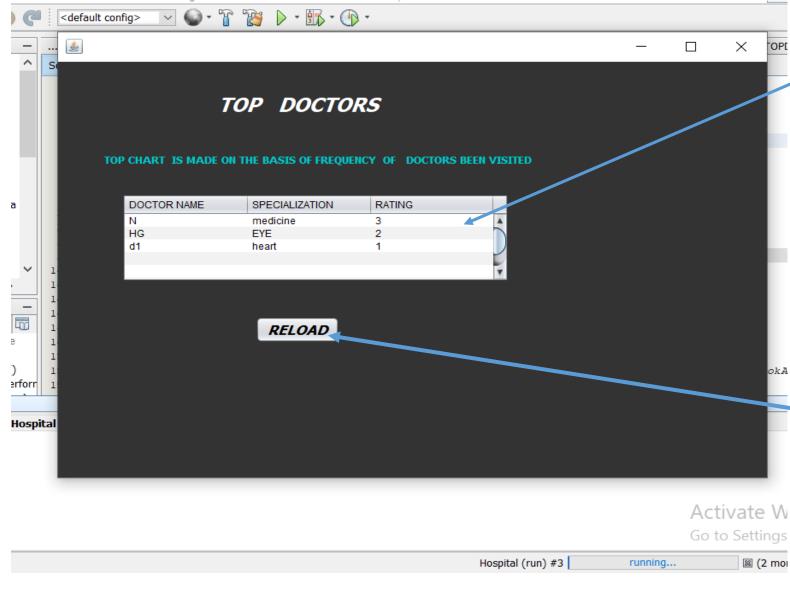


Fig 15—List of Top Doctors (according to rating given by patients)

This TABLE represents the HIGH Rated doctors available here. Patients can rate the doctors after visiting him on appointment. And on the basis of that rating the doctor list here is been sorted

This button reload this page.Because if the rating of any doctor is changed, then after reload the correct rating of all doctors can be seen. The ratings are saved in localhost database

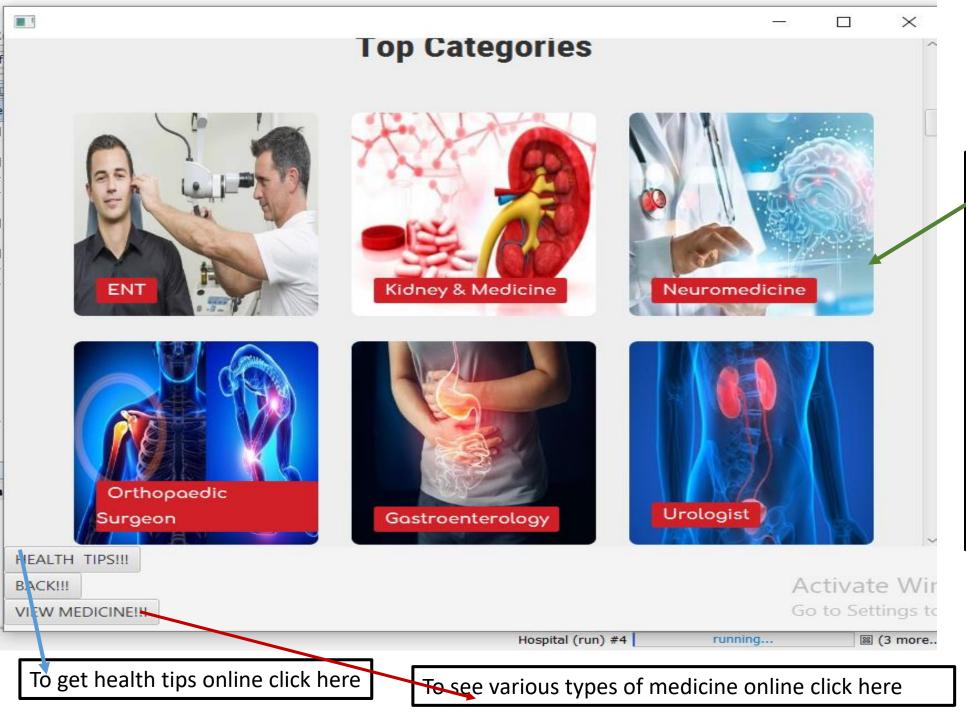


Fig 16—WebView -1 online website to fix appointment of different departments (like kidney & medicine, urologist etc.) doctors.

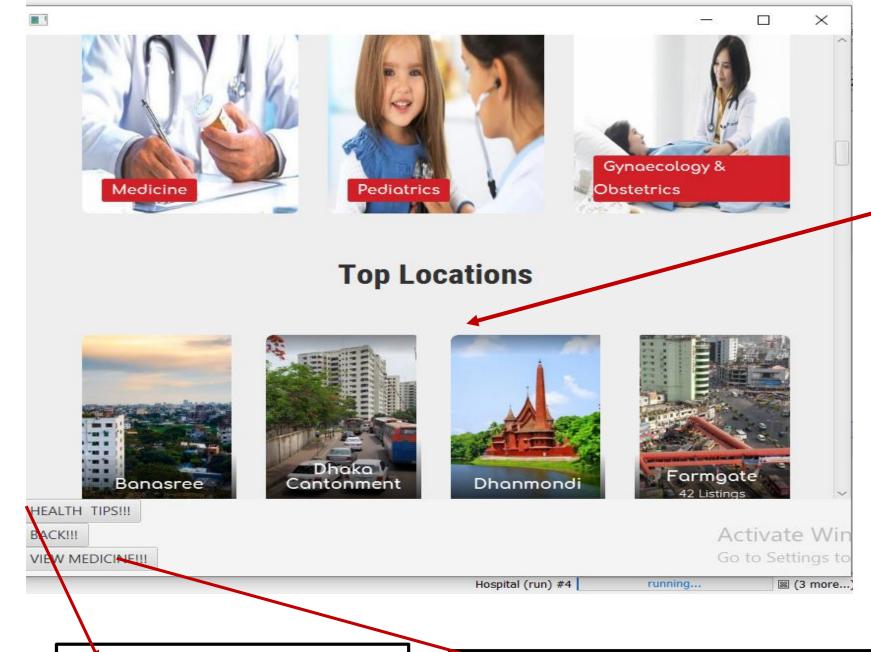


Fig 17—WebView 2—the same website previously shown gives feature to find doctors on your suitable location on your own city

To get health tips online click here

To see various types of medicine online click here

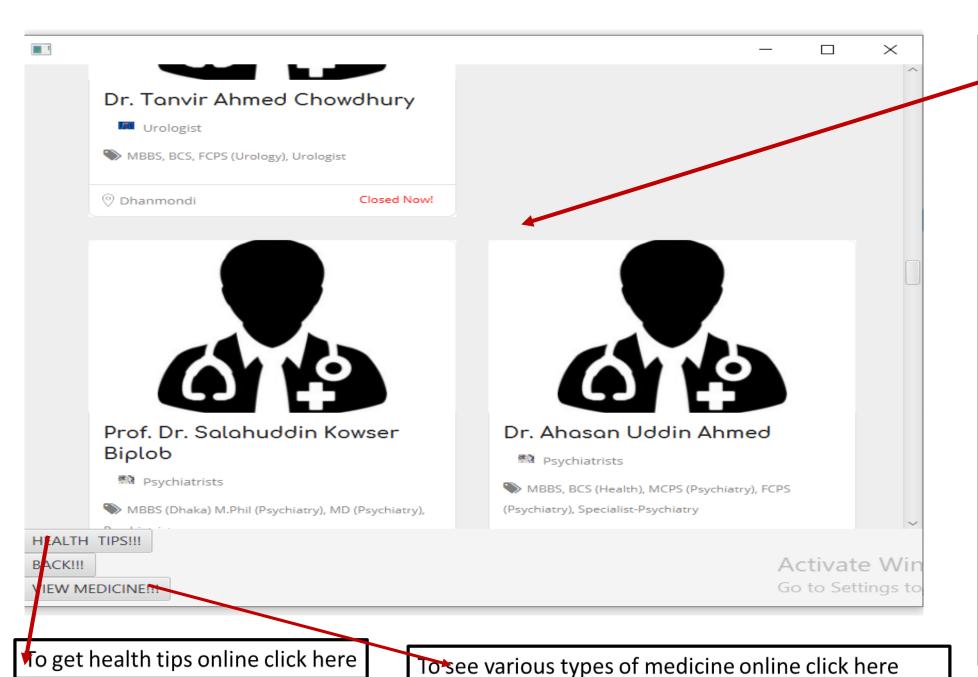


Fig 18-WebView 3 the same website previously explained also gives advantages to see the doctord available here for the appointment .The only access of this website is to the Patients.

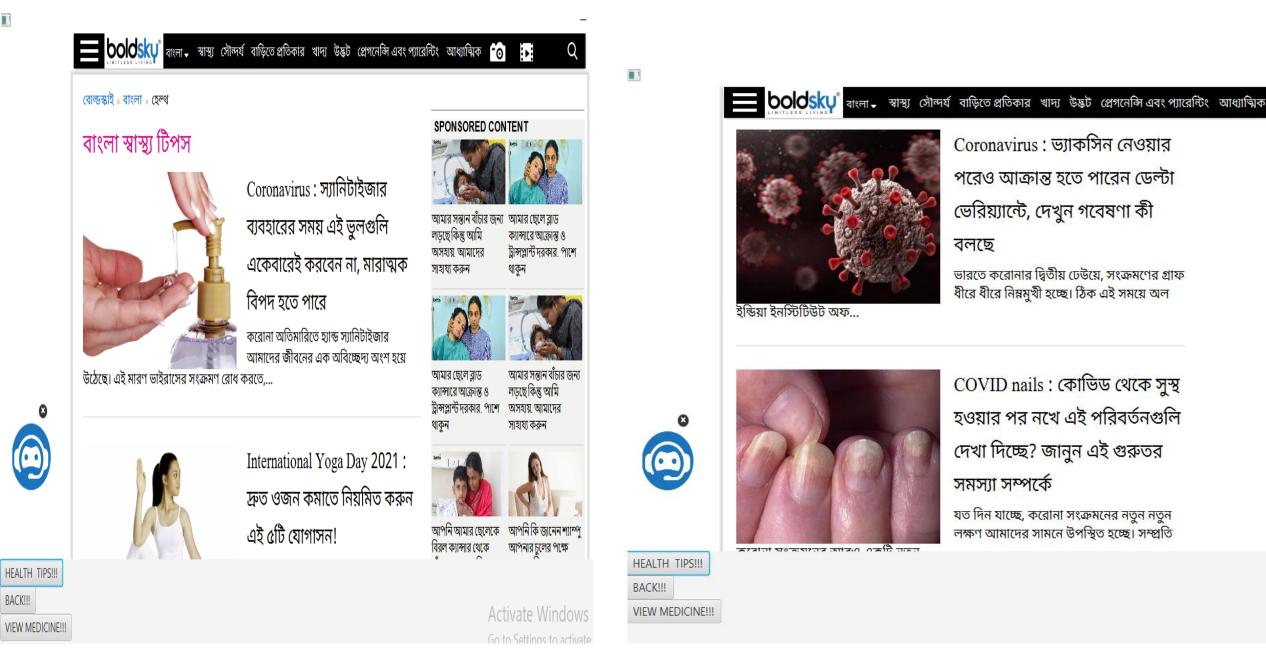


Fig 19—WebView 4—the websites for health tips(2 pages are shown in figure)

List of Generic Names (Allopathic)

LA Browse Alphabetically

5-Fluorouracil [5-FU]

Fluorouracil is indicated alone or in combination for- Carcinoma of the colon or rectum Carcinoma of the stomach and exocrine pancreas Carcinoma of the liver Carcinoma of the breast Carcinoma ...

Abacavir + Lamiyudine + Zidovudine

This is indicated in combination with other antiretrovirals or alone for the treatment of human immunodeficiency virus type 1 (HIV-1) infection.

Abiraterone Acetate

Abiraterone Acetate is a CYP17 inhibitor indicated in combination with prednisone for the treatment of patients with Metastatic castration-resistant prostate cancer (CRPC). Metastatic high-risk castration-sensitive ...

Acarbose

Acarbose is indicated as an adjunct to diet and exercise to improve glycemic

HEALTH TIPS!!!

BACK!!!

VIEW MEDICINE!!!

Acetylcysteine

Acetylcysteine is indicated as an adjuvant treatment in certain clinical condition characterized by the presence of thick and viscous mucoid or mucopurulent secretions such as: Chronic bronchopulmonary ...

Acidic component [HCO3 Hemodialysis Solution] This solution is used in Haemodialysis.

Acitretin

Acitretin is indicated in severe extensive psoriasis which is resistant to other forms of therapy, palmo-plantar pustular psoriasis, severe congenital ichthyosis, severe Darier's disease (keratosis ...

Activated Charcoal

Diarrhoea poisoning due to foods, heavy meals drugs. Flatulence due to diet other factors.

> Activate Windows Go to Settings to activate Windo

> > Zytiga

UniMed UniHealth

Unit Price : to 1,665.82

250 mg

Abiraterone Acetate

Innovator's Monograph

Indications

Abiraterone Acetate is a CYP17 inhibitor indicated in combination with prednisone for the treatment of patients with

- Metastatic castration-resistant prostate cancer (CRPC).
- Metastatic high-risk castration-sensitive prostate cancer (CSPC).

Therapeutic Class

Cytotoxic Chemotherapy

Pharmacology

Abiraterone is an orally active inhibitor of the steroidal enzyme CYP17A1 (17 alphahydroxylase/C17,20 lyase). It inhibits CYP17A1 in a selective and irreversible manner via covalent binding mechanism. CYP17A1 is an enzyme that catalyzes the biosynthesis of androgen and is highly expressed in testicular, adrenal, and prostatic tumor tissue. More specifically, abiraterone inhibits the conversion of 17-hydroxyprognenolone to dehydroepiandrosterone (DHEA) by the

Available Brand Names

View Details

FILTER BY COMPANY

Abiret

250 mg Drug International Ltd.

Unit Price : ੇ 500.00

Zytix

250 mg Beacon Pharmaceuticals Ltd.

Unit Price : ৳ 580.00

Fig 20—WebView 5-website for searching medicine details available in the

HEALTH TIPS!!!

Dosage & Administration

Metastatic castration-resistant prostate cancer: Abiraterone 1,000 mg orally once daily with prednisone 5 mg orally twice daily.

Metastatic castration-sensitive prostate cancer: Abiraterone 1,000 mg orally once daily with prednisone 5 mg orally once daily.

Patients receiving Abiraterone should also receive a gonadotropin-releasing hormone (GnRH) analog concurrently or should have had bilateral orchiectomy. Abiraterone must be taken on an empty stomach with water at least 1 hour before or 2 hours after a meal. Do not crush or chew tablets.

Dose Modification:

- For patients with baseline moderate hepatic impairment (Child-Pugh Class B), reduce the Abiraterone starting dose to 250 mg once daily.
- For patients who develop hepatotoxicity during treatment, hold Abiraterone until recovery.
 Retreatment may be initiated at a reduced dose. Abiraterone should be discontinued if patients develop severe hepatotoxicity.
- * চিকিৎসকের পরামর্শ মোতাবেক ঔষধ সেবন করুন

Interaction

HEALTH TIPS!!!

VIII VAL NACDICINICIII

B/CK!!!

CYP3A4 Inducers: Avoid concomitant strong CYP3A4 inducers during Abiraterone treatment. If a strong CYP3A4 inducer must be co-administered, increase the Abiraterone dosing frequency.

CYP2D6 Substrates: Avoid co-administration of Abiraterone with CYP2D6 substrates that have a narrow therapeutic index. If an alternative treatment cannot be used, exercise caution and

Side Effects

The most common adverse reactions are fatigue, arthralgia, hypertension, nausea, edema, hypokalemia, hot flush, diarrhea, vomiting, upper respiratory infection, cough, and headache.

Pregnancy & Lactation

The safety and efficacy of Abiraterone have not been established in females. Based on findings from animal studies and the mechanism of action, Abiraterone can cause fetal harm and potential loss of pregnancy. There are no human data on the use of Abiraterone in pregnant women. The safety and efficacy of Abiraterone have not been established in females. There is no information available on the presence of abiraterone acetate in human milk, or on the effects on the breastfed child or milk production.

Precautions & Warnings

Mineralocorticoid excess: Closely monitor patients with cardiovascular disease. Control hypertension and correct hypokalemia before treatment. Monitor blood pressure, serum potassium and symptoms of fluid retention at least monthly.

Adrenocortical insufficiency: Monitor for symptoms and signs of adrenocortical insufficiency. Increased dosage of corticosteroids may be indicated before, during and after stressful situations.

Hepatotoxicity: Can be severe and fatal. Monitor liver function and modify, interrupt, or discontinue Abiraterone dosing as recommended.

Increased fractures and mortality in combination with radium Ra 223 dichloride: Use of Abiraterone plus prednisone/prednisolone in combination with radium Ra 223 dichloride is not recommended.

BACK!!!

BACK!!!

To get health tips online click here

To see various types of medicine online click here

Fig 20—WebView 5website for searching medicine details available in the market

Q - Search (Ctrl+I) File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help ...ava viewPrescription.java × Channel.java × According Channel.java × ReqChan.java × ReqChan.java × topdoctor.java × topdoct Projects X Files Source History 🔯 🖫 - 💹 - 💆 🔁 👺 🖶 🖫 🖓 😓 🖭 💇 🥚 🔲 🕮 🚅 Source Packages import javafx.event.EventHandler; - default package import javafx.scene.Scene; - 📑 Channel.java import javafx.scene.control.Button; 🖟 📑 Doctor.java import javafx.scene.layout.StackPane; - 📑 Item.java import javafx.scene.layout.VBox; 🐴 Load.java import javafx.scene.web.WebEngine; · 🗟 Login.java import javafx.scene.web.WebView; - 🗟 Main.java import javafx.stage.Stage; - 📑 Patient.java Prescription.java public class Load extends Application { RegAdmn.java public static void main(String[] args) { ReqChan.java launch(args); · 📑 TOPDOC2.java User.java public void start (Stage stage) throws Exception{ tondoctor iava WebView myWebView = new WebView(); final WebEngine engine = myWebView.getEngine(); start - Navigator X engine.load("https://bddoctorlist.com/"); Members Button btn = new Button("HEALTH TIPS!!!"); Load :: Application btn.setOnAction(new EventHandler<Action vent>(){ main(String[] args) o start(Stage stage) ↑ App public void handle(ActionEvent event) { engine.load("https://bengali.boldsky.com/lealth/");] Button btn1 = new Button("BACK!!!"); 27 btnl.setOnAction(new EventHandler<ActionEvent>() public void handle(ActionEvent event) { To get health tips online click here engine.load("https://bddoctorlist.com/"); 32 Button btn2 = new Button("VIEW MEDICINE!!!"); Activate Windows 33 😑 btn2.setOnAction(new EventHandler<ActionEvent>(){ Go to Settings to activate Windo public void handle(ActionEvent event){

Hospital - NetBeans IDE 8.2

Fig 21—webview 6—A portion of code for the webview is done with JAVAFx. These websites are third party websites..

Not developed by the developer of the code.(DONE USING API)

To see various types of medicine online click here

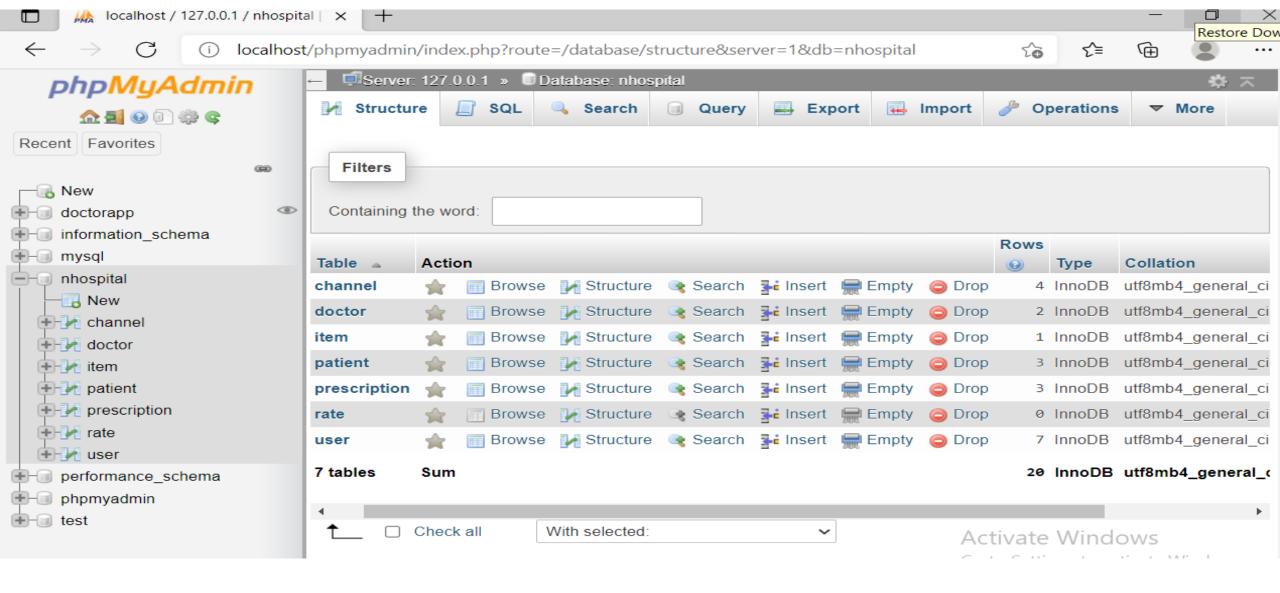
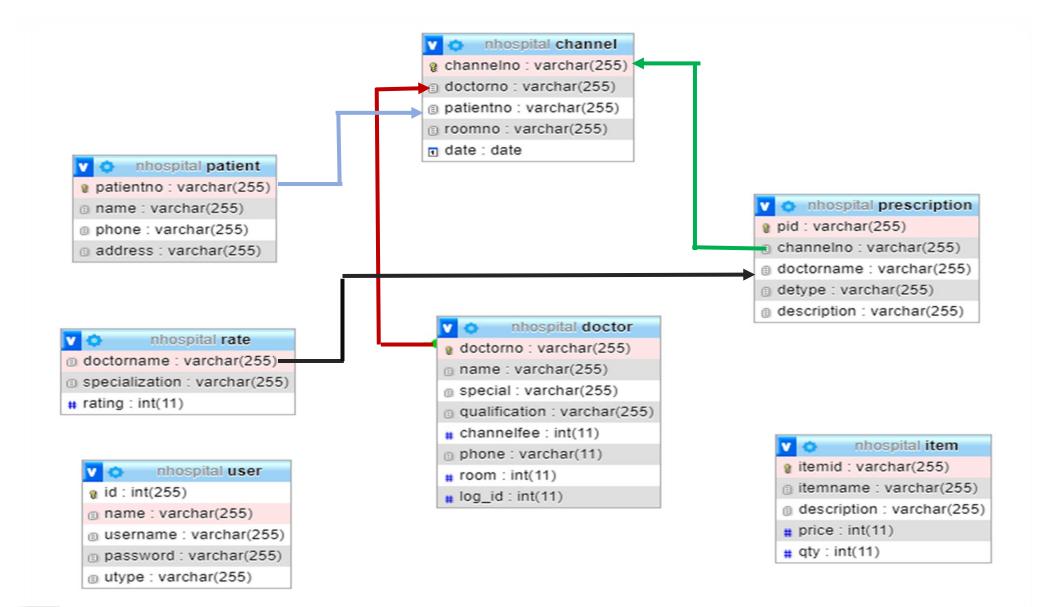


Fig 22—Database (MySql)—showing the TABLES used in the database to run the application. JDBC mysql rar file had been imported to the library of this JAVA application at first. Then all the data tables were made manually by the developers of the application

Schema Diagram



Target vs. Actual Accomplishment

At the beginning of developing the application I have some ideas to implement in this application. Almost all the features has been added to this software as possible I could. But two features could not be added to this application. One is the use of GOOGLE MAP to find the doctors easily in nearest position of the patients. But it was much difficult in JAVA and also the project deadline was short. The another feature I excluded here is the payment system of the doctors for the previously said reasons. But I hope this application will be very useful for the patients (my targeted users).

Risks and Issues

Here in this application we have three different users namely Patients, Doctors, Admin. We collect some data from our users. And store the data in the local database. So there has an issue with data security. Some personal information of our users are been collected by us. If any evil mind takes access to the local server he can steal the information of the users. But in developing this application we were concerned to only develop user friendly features for our projects not the security issue of the application. So here comes the risk. But we should be concern about the data security. As data are very much private and important.

Discussion & Conclution

The JAVA DESKTOP application named DOCTOR APPOINTMENT I developed performs mainly the appointment of doctors via online. The main users of this application are the patients. Here they can request for appointment with the doctor they like seeing the doctor profile, rate the doctors, get immediate prescription (always saved in the database), save the details of medical items they are consuming. Moreover the patients can make the appointments so easily in website integrated with this application, get regular updated health tips, know about the details of any medicine found in this country. These web based feature are added by using API's. Hopefully these features give this application LIFE. The application is very user friendly to use. It has a modest GUI (graphical user interface) that anyone will like. For now my targeted users are the patients. But the doctors and an Admin also uses this application. The role of Admin inn this application is very much important as he controls most of the systems in this application. The main feature the appointment is not confirmed until the Admin don't accepts it.

Here is a security issue discussed in the previous point. As a developer I will try to solve it as much as I can. There are also two features not been added in this application (google map & payment system). I will also try to integrate these two features in near future. And I will keep developing this application to make it a better product. This is only a Demo version for the project.

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THANK YOU