

**INDIAN INSTITUTE OF INFORMATION  
TECHNOLOGY, ALLAHABAD (UP), INDIA**



**PROJECT : MEDICAL SEARCH ENGINE**

**DATABASE MANAGEMENT SYSTEM  
4<sup>th</sup> SEM PROJECT REPORT**

**SUBMITTED TO:  
DEPARTMENT OF INFORMATION TECHNOLOGY**

**GROUP MEMBERS**

<b>Sr No</b>	<b>Name</b>	<b>Enrollment No</b>
<b>1</b>	<b>Akash Deep</b>	<b>IIT2019064</b>
<b>2</b>	<b>Adelik Om Tyagi</b>	<b>IIT2019070</b>
<b>3</b>	<b>Aditya Rathi</b>	<b>IIT2019073</b>

# **INTRODUCTION**

The objective of this web application is to enable users to get information about symptoms of a disease, medicine recommended for curing the disease and price of medicines can be provided through user interface. In this assigned project we have developed an application where users will be able to register/login using their credentials. Registration will be verified by OTP sent to the given e-mail. This credential will be checked in the database if it goes smoothly then only the user can have access to the dashboard. While registration we have kept in mind that the username or email id cannot be used more than once to create a new account. When registered a confirmation email will be sent to the registered email id which contains OTP for verification. In the dashboard user can enjoy many features like contacting us and viewing information about the project.

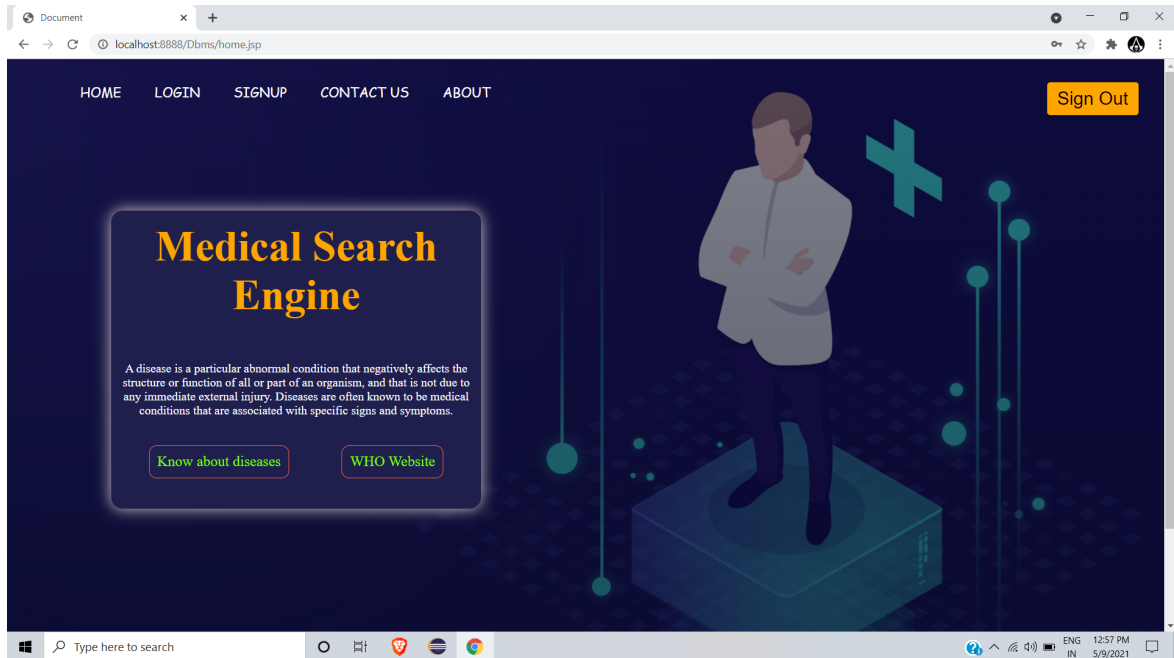
## **TOOLS AND TECHNOLOGIES USED FOR DEVELOPMENT**

We used HTML 5 and CSS 3 for frontend UI development and Java Servlet API and JSP(Java Server Pages) for backend purposes. Additionally, for saving user data we used one of the most popular databases, MySQL. The whole software needs interpreting software. For that purpose, we used Apache Tomcat v10.0.

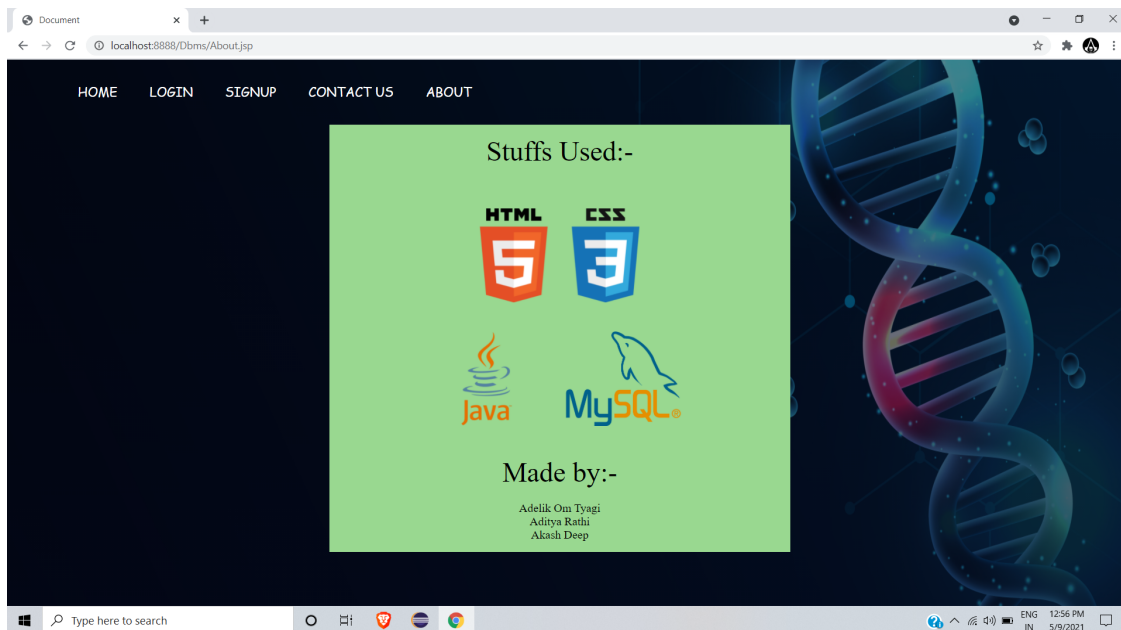
# USE CASES DESCRIPTION

There are many use cases of the application, some of them are described below :

## 1. **Home** - Dashboard where user can access upon successful login



## 2. **About** - Stuffs used and info about the developers.



### 3. **Login** - Users can login into the system.

Document x +

localhost:8888/Dbms/Login.jsp

HOME LOGIN SIGN UP CONTACT US ABOUT

## Login

Username  
Enter your name

Password  
Enter your password

Submit

Login with

Facebook Google

Type here to search

ENG 12:56 PM  
IN 5/9/2021

### 4. **Sign up** - Users can register into the system.

Document x +

localhost:8888/Dbms/SignUp.jsp

HOME LOGIN SIGN UP CONTACT US ABOUT

## Sign Up

Name  
Enter your name

Username  
Enter your username

Date of birth  
mm / dd / yyyy

Email  
Enter your email

City  
Enter your city

Phone Number  
Enter your phone number

Password  
Enter your password

Submit

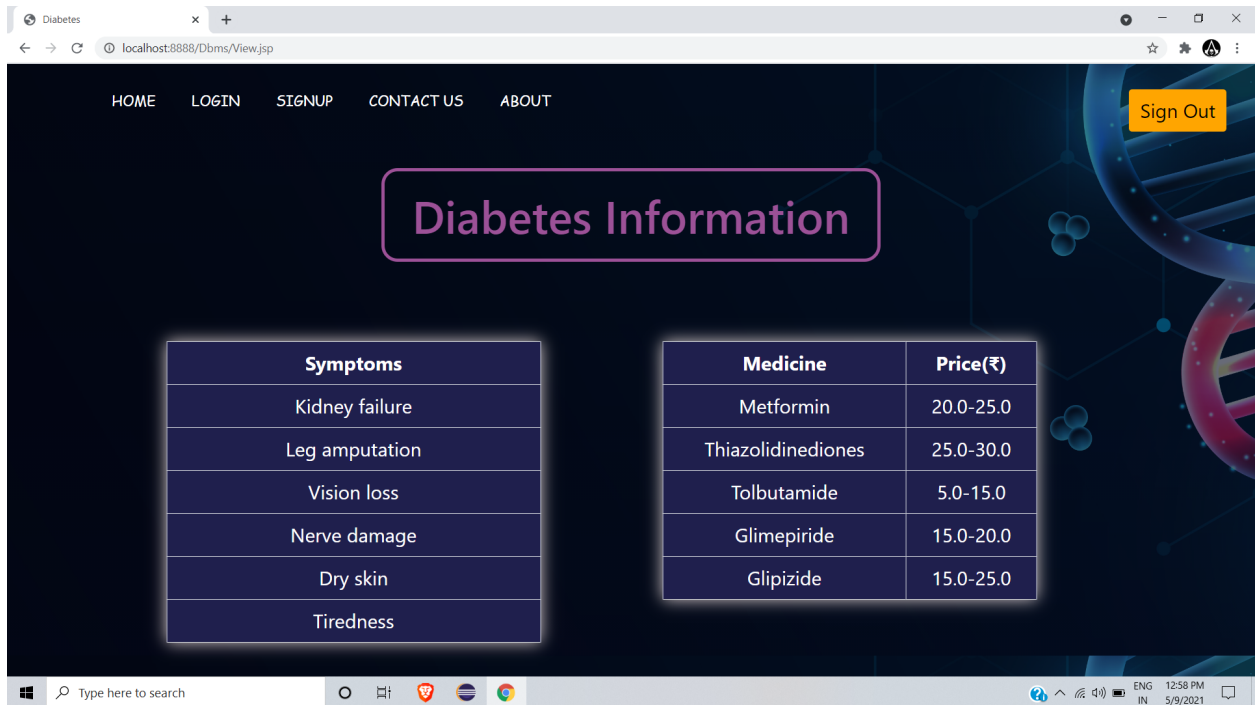
Sign in with

Facebook Google

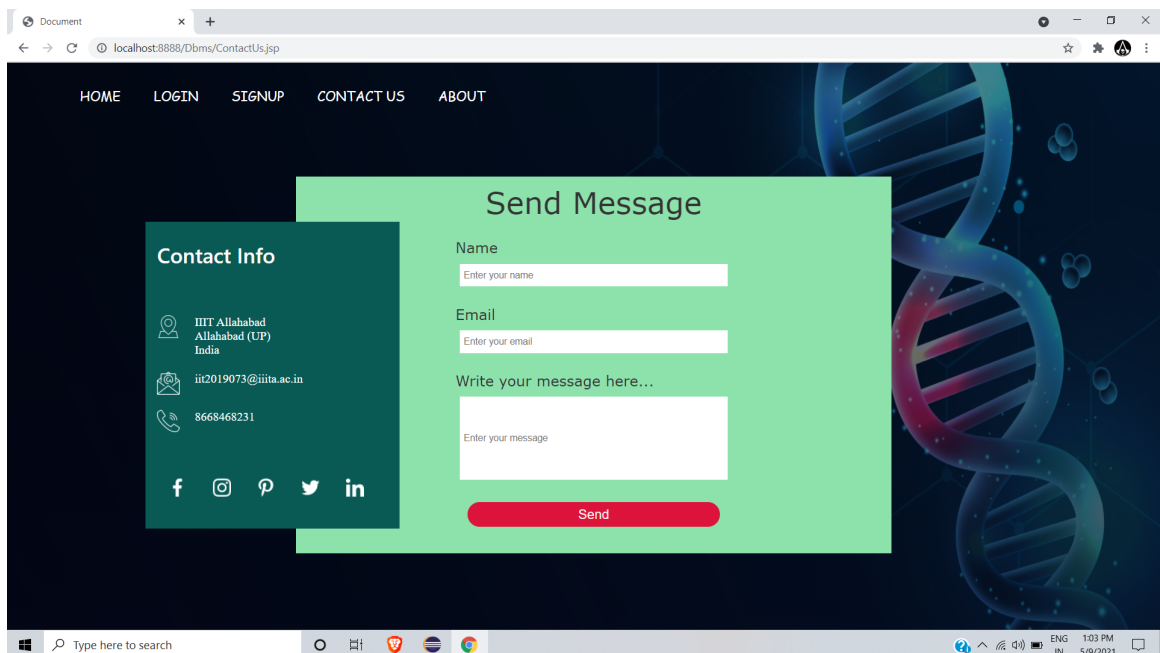
Type here to search

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5. **View disease and medicine info** - Users can get info about the disease, medicines and symptoms.



6. **Contact us** - User can contact and send feedback to developers



7. **Logout** - Users can log out from the system.

# DATABASES

We have used MySQL database in our project to aid us in development of the project. We have taken special precaution to normalize all tables to 3<sup>rd</sup> normal form of DBMS.

There is a database named dbms\_project in which there are in total 4 tables namely,

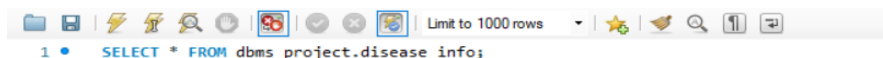
## 1. register(stores user information after successful registration)



A screenshot of a MySQL result grid window. The toolbar includes a 'Filter Rows' input, an 'Export' button, and a 'Wrap Cell Content' checkbox. The table below shows the results of the query.

	name	username	email	city	phone	DOB	password
▶	Aditya	ALR	iit2019073@iiita.ac.in	Mumbai	9823746012	2002-01-20	aaa

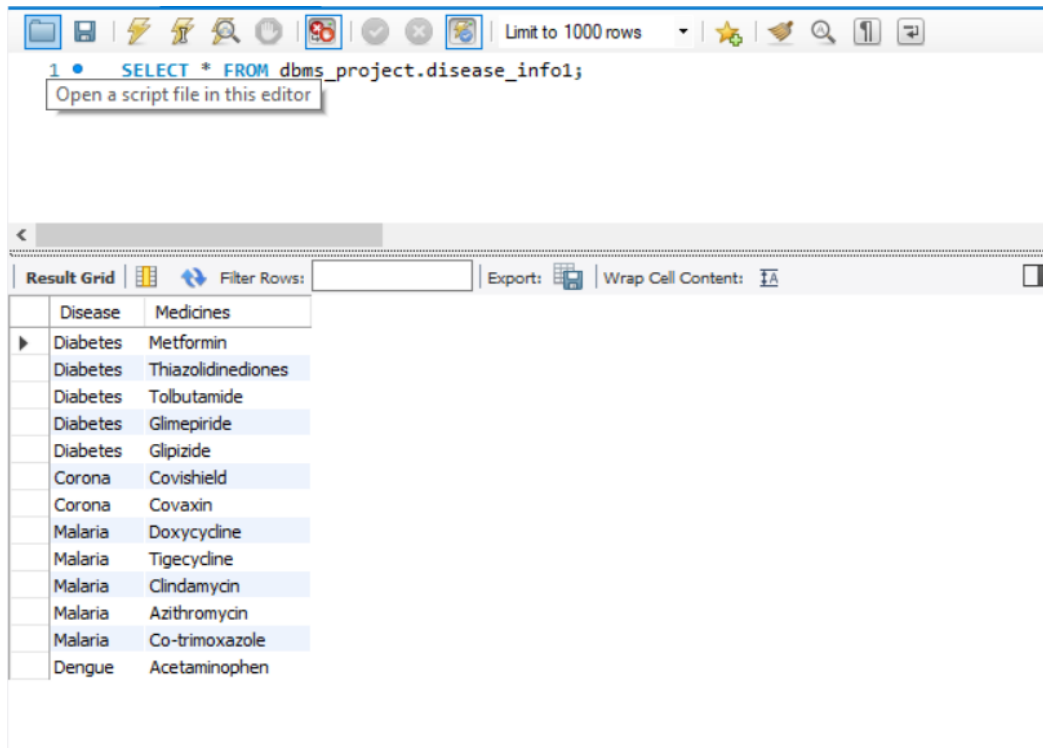
## 2. disease\_info(stores disease and its symptoms information)



A screenshot of a MySQL result grid window. The toolbar includes a 'Filter Rows' input, an 'Export' button, and a 'Wrap Cell Content' checkbox. The table below shows the results of the query.

	Disease	Symptoms
▶	Diabetes	Kidney failure
	Diabetes	Leg amputation
	Diabetes	Vision loss
	Diabetes	Nerve damage
	Diabetes	Dry skin
	Diabetes	Tiredness
	Corona	Fever
	Corona	Dry cough
	Corona	Tiredness
	Corona	Difficulty breathing or shortness of breath
	Corona	Chest Pain
	Malaria	Fever
	Malaria	Flu-like illness
	Malaria	Headache
	Malaria	Diarrhea
	Malaria	Vomiting

### 3. disease\_info1(stores disease and its medicines information)

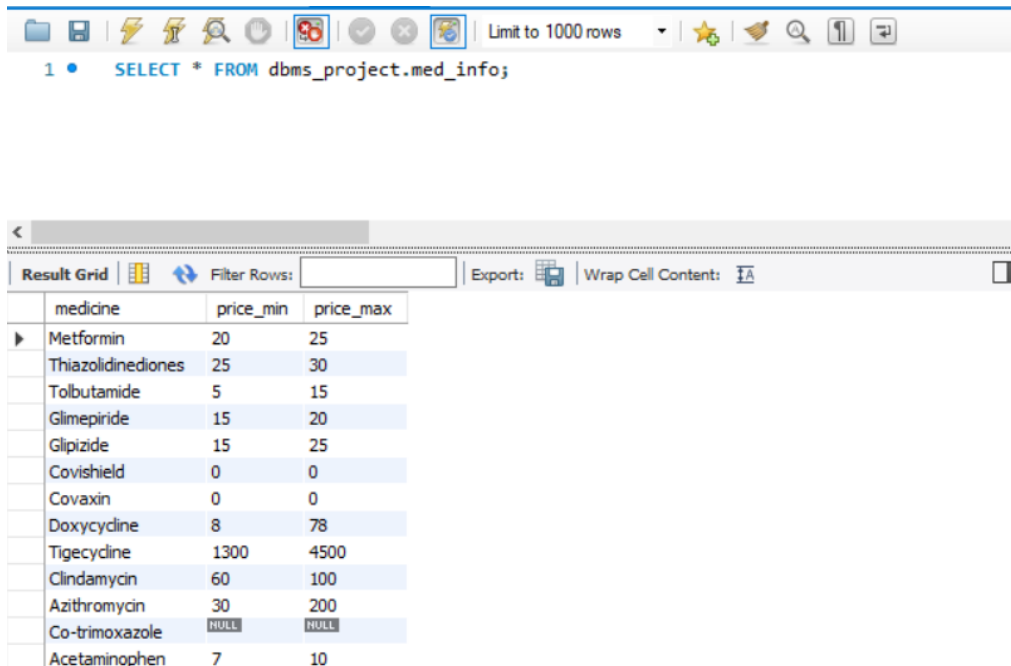


The screenshot shows a database query editor with the following SQL query: `1 • SELECT * FROM dbms_project.disease_info1;`

The results are displayed in a grid format with the following data:

Disease	Medicines
Diabetes	Metformin
Diabetes	Thiazolidinediones
Diabetes	Tolbutamide
Diabetes	Glimepiride
Diabetes	Glipizide
Corona	Covishield
Corona	Covaxin
Malaria	Doxycycline
Malaria	Tigecycline
Malaria	Clindamycin
Malaria	Azithromycin
Malaria	Co-trimoxazole
Dengue	Acetaminophen

### 4. med\_info(store medicine and its price information)



The screenshot shows a database query editor with the following SQL query: `1 • SELECT * FROM dbms_project.med_info;`

The results are displayed in a grid format with the following data:

medicine	price_min	price_max
Metformin	20	25
Thiazolidinediones	25	30
Tolbutamide	5	15
Glimepiride	15	20
Glipizide	15	25
Covishield	0	0
Covaxin	0	0
Doxycycline	8	78
Tigecycline	1300	4500
Clindamycin	60	100
Azithromycin	30	200
Co-trimoxazole	NULL	NULL
Acetaminophen	7	10

# ER DIAGRAM

