

Introduction to Java

# Clinical Diagnostic System

By Group 3

Presentation

---



Fall | 2022



# Meet the Team

---

Tyler  
Crutchfield

Derrick  
Long

Kiana  
Moore

Efosa  
Osagiede



# Introduction


















We were charged with developing a Clinical Diagnostic System for our final assignment

















































This program contains a database for diseases

We approached this challenge by creating a program based on user input

Each disease in the database has overlapping symptoms that the program accurately diagnoses









































































# MYSQL DATABASE

 	DiseaseID	DiseaseName	DiseaseNotes
<input type="checkbox"/>  Edit  Copy  Delete	1	Cold	A common viral infection of the nose and throat.
<input type="checkbox"/>  Edit  Copy  Delete	2	Covid	an infectious disease caused by the SARS-CoV-2 vir...
<input type="checkbox"/>  Edit  Copy  Delete	3	Pneumonia	An infection that inflames the air sacs in one or ...
<input type="checkbox"/>  Edit  Copy  Delete	4	Food poisoning	Illness caused by food contaminated with bacteria,...
<input type="checkbox"/>  Edit  Copy  Delete	5	Stomach virus	An infection of your intestines that typically cau...

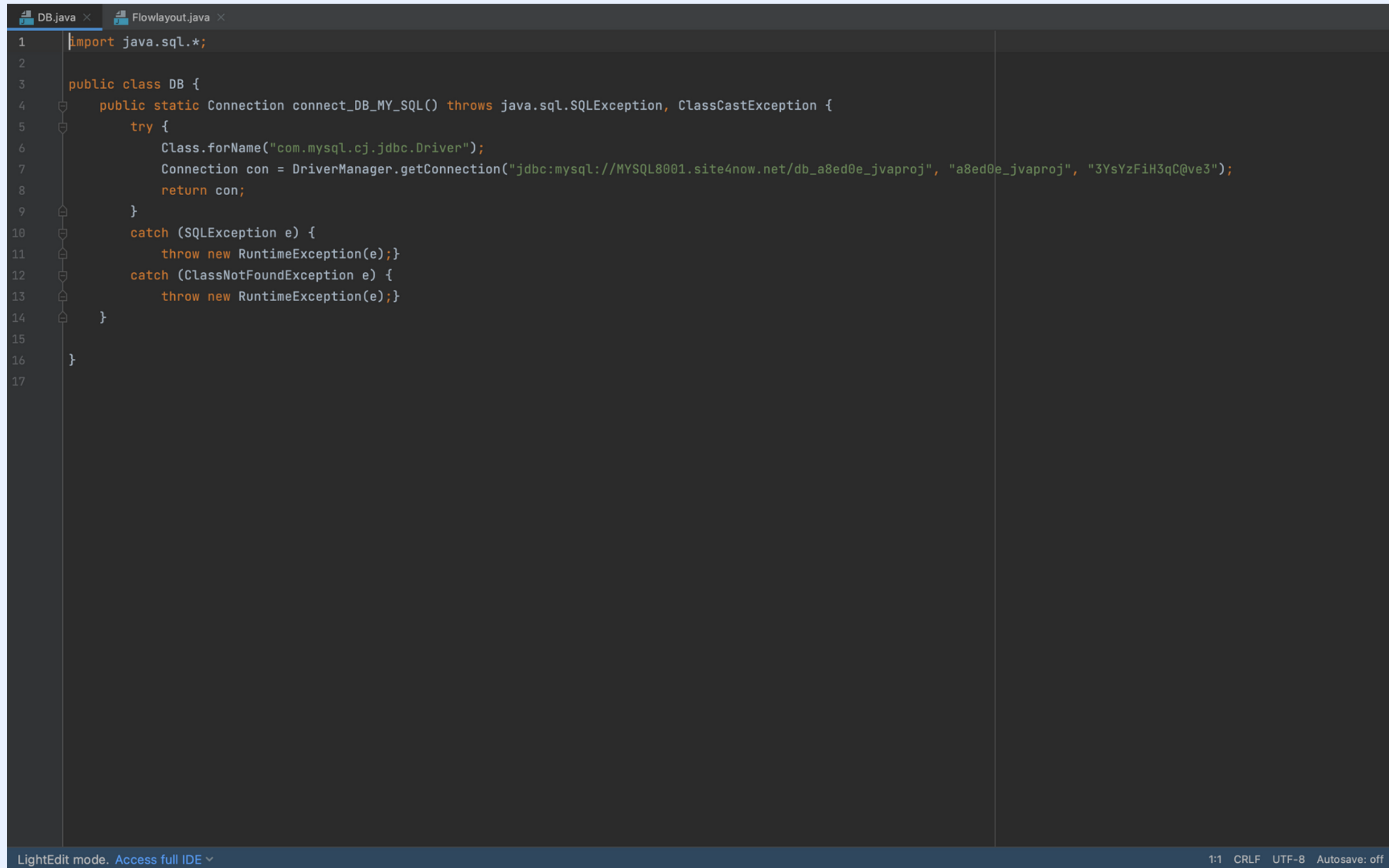
 	SymptomID	SymptomName	SymptomDesc
<input type="checkbox"/>  Edit  Copy  Delete	1	Fever	Temporary increase in average body temperature
<input type="checkbox"/>  Edit  Copy  Delete	2	Fatigue	Feeling overtired, with low energy and a strong de...
<input type="checkbox"/>  Edit  Copy  Delete	3	Headache	Painful sensation in any part of the head
<input type="checkbox"/>  Edit  Copy  Delete	4	Dehydration	Dangerous loss of body fluid caused by illness, sw...
<input type="checkbox"/>  Edit  Copy  Delete	5	Chills	Feeling of being cold, though not necessarily in a...
<input type="checkbox"/>  Edit  Copy  Delete	6	Sneezing	Sudden blast of air or mucus expelled from the mou...
<input type="checkbox"/>  Edit  Copy  Delete	7	Sore throat	Pain or irritation in the throat
<input type="checkbox"/>  Edit  Copy  Delete	8	Cough	Sudden, forceful hacking sound to release air and ...
<input type="checkbox"/>  Edit  Copy  Delete	9	Nausea	Queasy sensation including an urge to vomit
<input type="checkbox"/>  Edit  Copy  Delete	10	Diarrhea	Loose, watery stools that occur more frequently th...
<input type="checkbox"/>  Edit  Copy  Delete	11	Runny nose	Excess drainage, ranging from a clear fluid to thi...
<input type="checkbox"/>  Edit  Copy  Delete	12	Abdominal pain	Pain from inside the abdomen or the outer muscle w...
<input type="checkbox"/>  Edit  Copy  Delete	13	Belching	Excess gas in the stomach or upper intestine relea...
<input type="checkbox"/>  Edit  Copy  Delete	14	Watery eyes	Too many tears draining from the eyes
<input type="checkbox"/>  Edit  Copy  Delete	15	Loss of appetite	Reduced desire to eat
<input type="checkbox"/>  Edit  Copy  Delete	16	Wheezing	High-pitched whistling sound made while breathing



# MYSQL DATABASE

<div>←T→</div>				DiseaseID	SymptomID	DiseaseName	SymptomName
<input type="checkbox"/>		Edit		Copy		Delete	1 6 Cold Sneezing
<input type="checkbox"/>		Edit		Copy		Delete	1 7 Cold Sore throat
<input type="checkbox"/>		Edit		Copy		Delete	1 8 Cold Cough
<input type="checkbox"/>		Edit		Copy		Delete	1 11 Cold Runny nose
<input type="checkbox"/>		Edit		Copy		Delete	1 14 Cold Watery eyes
<input type="checkbox"/>		Edit		Copy		Delete	2 1 Covid Fever
<input type="checkbox"/>		Edit		Copy		Delete	2 2 Covid Fatigue
<input type="checkbox"/>		Edit		Copy		Delete	2 3 Covid Headache
<input type="checkbox"/>		Edit		Copy		Delete	2 7 Covid Sore throat
<input type="checkbox"/>		Edit		Copy		Delete	2 8 Covid Cough
<input type="checkbox"/>		Edit		Copy		Delete	3 1 Pneumonia Fever
<input type="checkbox"/>		Edit		Copy		Delete	3 2 Pneumonia Fatigue
<input type="checkbox"/>		Edit		Copy		Delete	3 5 Pneumonia Chills
<input type="checkbox"/>		Edit		Copy		Delete	3 15 Pneumonia Loss of appetite
<input type="checkbox"/>		Edit		Copy		Delete	3 16 Pneumonia Wheezing
<input type="checkbox"/>		Edit		Copy		Delete	4 1 Food poisoning Fever
<input type="checkbox"/>		Edit		Copy		Delete	4 4 Food poisoning Dehydration
<input type="checkbox"/>		Edit		Copy		Delete	4 9 Food poisoning Nausea
<input type="checkbox"/>		Edit		Copy		Delete	4 10 Food poisoning Diarrhea
<input type="checkbox"/>		Edit		Copy		Delete	4 12 Food poisoning Abdominal pain
<input type="checkbox"/>		Edit		Copy		Delete	5 1 Stomach virus Fever
<input type="checkbox"/>		Edit		Copy		Delete	5 4 Stomach virus Dehydration
<input type="checkbox"/>		Edit		Copy		Delete	5 9 Stomach virus Nausea
<input type="checkbox"/>		Edit		Copy		Delete	5 10 Stomach virus Diarrhea
<input type="checkbox"/>		Edit		Copy		Delete	5 13 Stomach virus Belching

# CONNECTED TO DATABASE



```
1  import java.sql.*;
2
3  public class DB {
4      public static Connection connect_DB_MY_SQL() throws java.sql.SQLException, ClassCastException {
5          try {
6              Class.forName("com.mysql.cj.jdbc.Driver");
7              Connection con = DriverManager.getConnection("jdbc:mysql://MYSQL8001.site4now.net/db_a8ed0e_jvaproj", "a8ed0e_jvaproj", "3YsYzFiH3qC@ve3");
8              return con;
9          }
10         catch (SQLException e) {
11             throw new RuntimeException(e);}
12         catch (ClassNotFoundException e) {
13             throw new RuntimeException(e);}
14     }
15
16 }
17
```

LightEdit mode. Access full IDE ▾

1:1 CRLF UTF-8 Autosave: off

# QUERIES

```
lab6_OOP > src > Main > main
```

```
Project
└─ lab6_OOP C:\Users\obles\IdeaProjects\lab6_OOP
   └─ src
      ├── DB
      ├── Disease
      └── Main
      └─ Symptom
      └─ lab6_OOP.iml
   └─ External Libraries
      └─ < 18 > C:\Program Files\Java\jdk-18.0.2.1
```

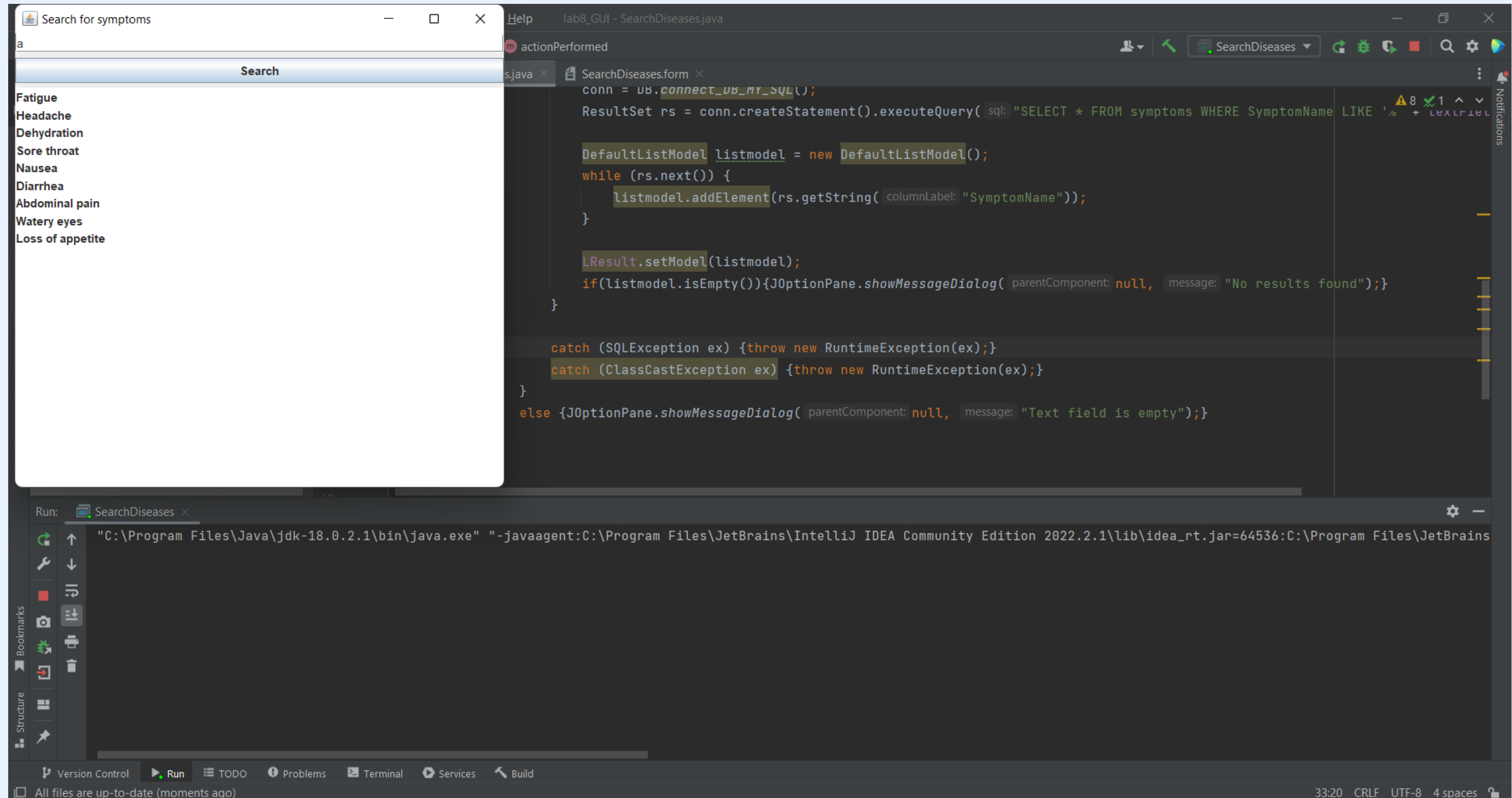
```
Run: Main ×
```

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.2.1\lib\idea_rt.jar=56984:C:\Program Files\JetBrains"
-----1st Query-----
Please enter the disease name
Cold
-----
A common viral infection of the nose and throat.
-----
-----2nd Query-----
Please enter the disease name
Pneumonia
-----
Pneumonia | Fever
Pneumonia | Fatigue
Pneumonia | Chills
Pneumonia | Loss of appetite
Pneumonia | Wheezing
-----
Process finished with exit code 0
```

```
Version Control Run Debug TODO Problems Terminal Services Build
```

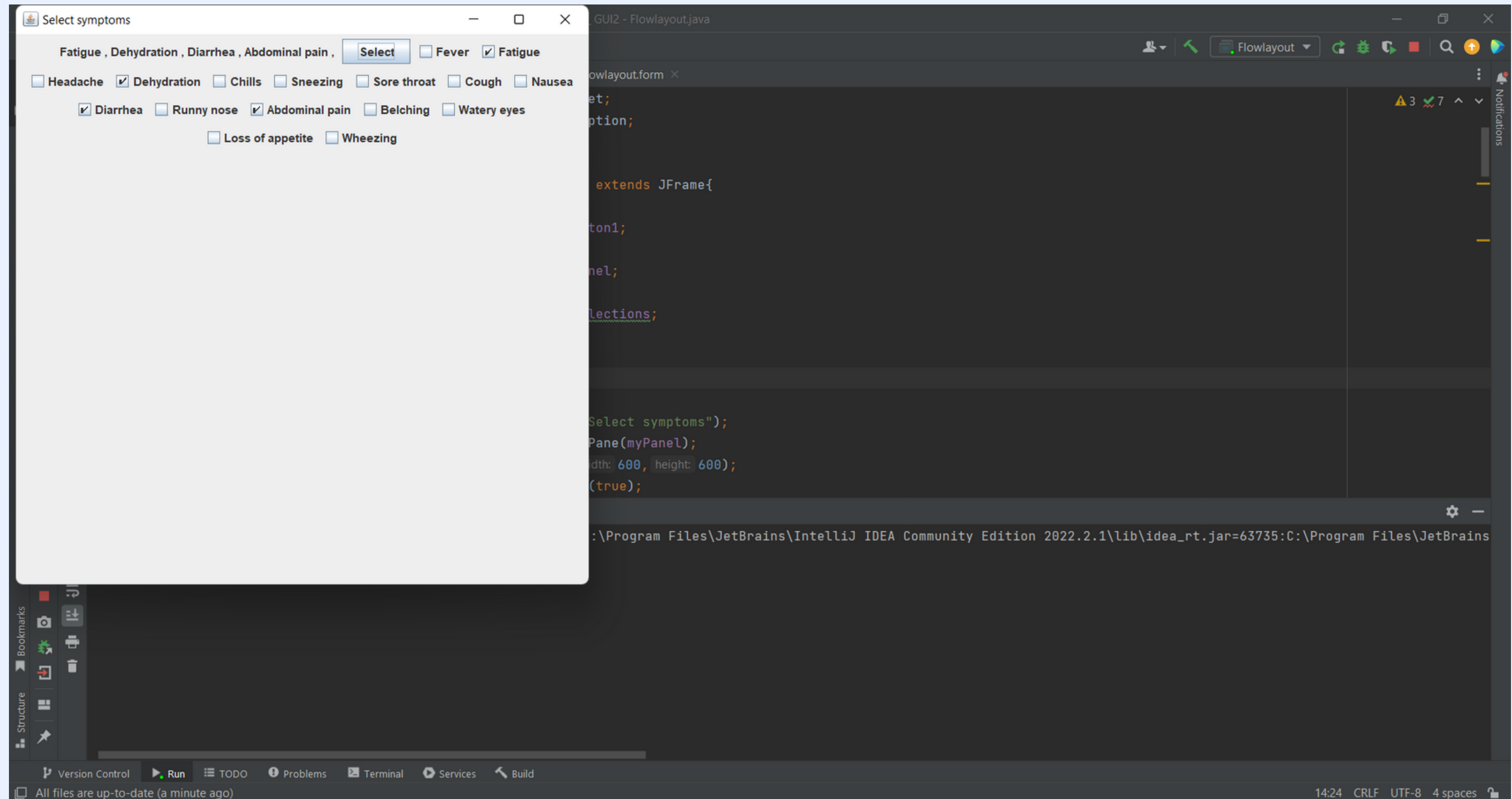
All files are up-to-date (moments ago) 20:1 CRLF UTF-8 4 spaces

# SEARCH FORM





# SYMPTOM CHECKBOXES



# FINAL DELIVERABLE

Our Clinical Diagnostic System provides diagnostic findings after capturing user input

Select symptoms

Check symptoms that apply:

☐ Fever

☐ Fatigue

☐ Headache

☐ Dehydration

☐ Chills

☐ Sneezing

☐ Sore throat

☐ Cough

☒ Nausea

☐ Diarrhea

☐ Runny nose

☒ Abdominal pain

☐ Belching

☐ Watery eyes

☐ Loss of appetite

☐ Wheezing

Enter your name:

Efosa

Submit

Hi Efosa! Your symptoms are 'Nausea', 'Abdominal pain', '0')

Efosa, You may have Food poisoning, Stomach virus,