

Project Description:

Bar97 is my project that will allow users to order drinks from the UI and communicate with the “bartender”: The UI will fetch the data from the backend, and display the data. Once the users make the purchase, the order will be sent back to the server. Then the server will update the stock(database), also creating an invoice text file as a check.

Video demo with narrative:

<https://drive.google.com/file/d/1rAlK6pPyJWDvXGuVv-fFHvqTKZsLbhDb/view?usp=sharing>

File Link:

<https://github.com/JiuqiZhang/JavaFinal>

Because gradescope seems to unzip the file itself, dividing the whole zip file into some random files.

So I just uploaded the two java file. And following is the link to the whole project.

Instructions to run:

1. change the database name, user name, and password to your PostgreSQL database from

BarServer.java line 251:

```

237     try{
238         connection.close();
239     }catch(SQLException e){
240         System.out.println(e);
241     }
242     return menu;
243 }
244
245 public static void connectServer(){
246     try{
247         Class.forName("org.postgresql.Driver");
248         String dbName = "javaFinal";
249         String userName = "9ussell7hang";
250         String password = "";
251         connection = DriverManager.getConnection("jdbc:postgresql://localhost:5432/" + dbName + " " + user + " " + password);
252         if (connection == null){
253             System.out.println("Connection failed");
254         }
255         else{
256             System.out.println("Connection with database succeeded~");
257             //System.out.println(connection);
258         }
259     }
260 }catch(ClassNotFoundException | SQLException e){
261     System.out.println(e);
262 }

```

2. If you are going to run the server again after the first build. Then comment out line 26, and 27 from BarServer.java once the data table is created, otherwise, it will give an error message like data table already existed etc.
3. Then you should be good to go. Enjoy your drinks!! ❤️

```

15     *
16     * @author 9ussell7hang
17     */
18     public class BarServer {
19         static Connection connection = null;
20         static Statement statement = null;
21         static ServerSocket ss;
22
23
24         public static void main(String[] args) {
25
26             createTable();
27             insertValues();
28
29
30
31         }

```

Original Project Idea:

Here's my final project idea:

I will be using JAVA GUI, File IO, Networking (sockets), and JDBC to create an online drinks ordering system.

- This system shall have a server-side that connects to the database and a front-end UI for users to browse the products, add items to their cart, and make purchases.
- The database shall have a table that contains information on the stock of different products.
- This system will have the clientside UI that gets data from the backend server and show all the products. If the product is out of stock, the frontend UI shall be able to let the users know and disable the product from adding to their cart.
- Once the user made the purchase, the data shall be able to send to the backend. And the server should be able to generate a file as the invoice. For example, if Pete ordered on Feb 24th, 2021. The file name should be "Peter_2_24_21_"+ {the order number}.

Here's the confirmation email from Professor:



Daniel Katz-Braunschweig
to me ▾

Tue, Apr 26, 4:01 PM ☆ ↩ ⋮

Approved! I'm looking forward to ordering a margarita!

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Some explanation:

For this assignment, I used PostgreSQL to connect with JDBC. I created two folders, BarServer.java is the server, and the BarGUI is the UI.