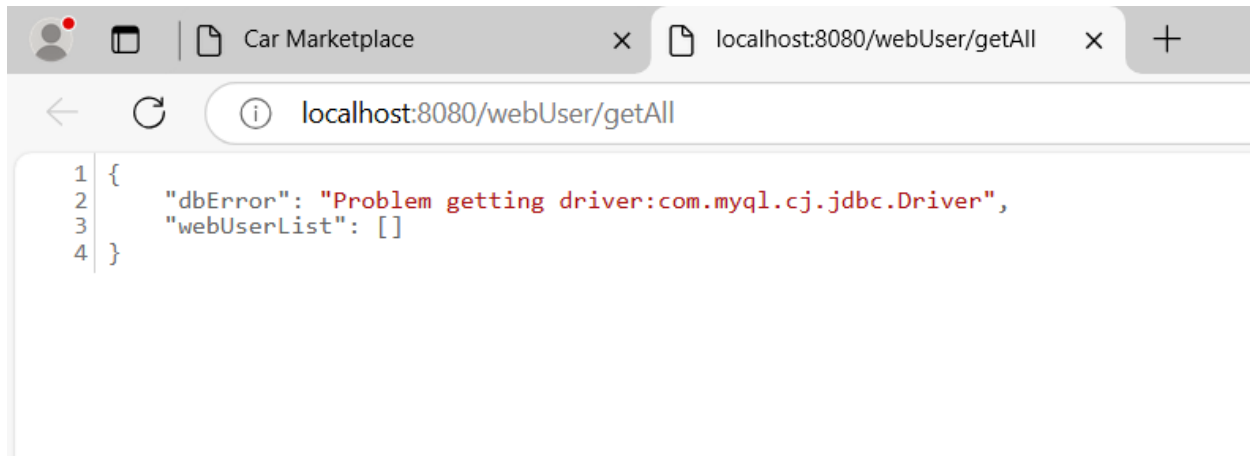


Toker Ahmed

Homework 5 Web API

1. Missing Database Driver

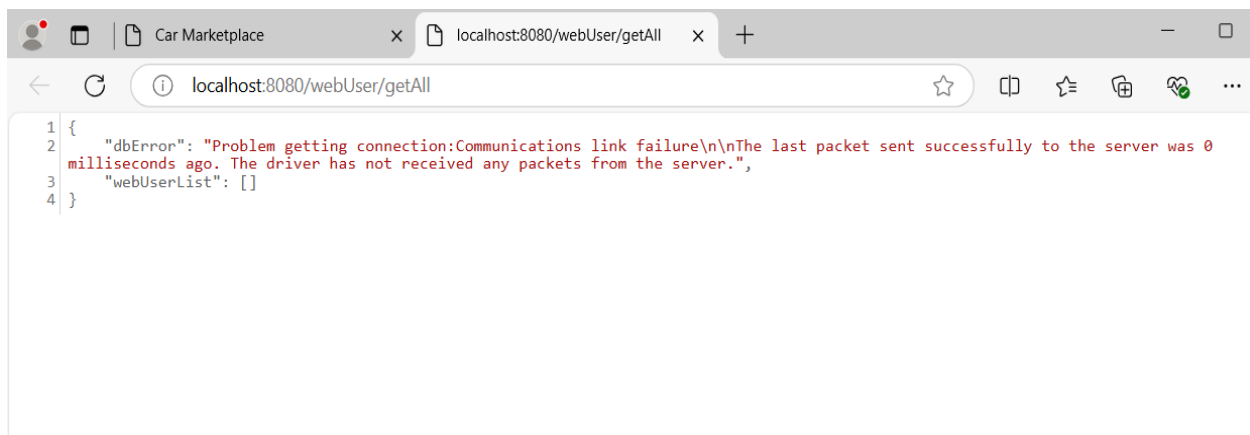


```
1 {
2   "dbError": "Problem getting driver:com.mysql.cj.jdbc.Driver",
3   "webUserList": []
4 }
```

This error occurred because in DbConn.java file, the string value of DRIVER variable was misspelled, and as a result the problem getting driver error occurred.

It was fixed by typing the correct string value.

2. Database Unreachable

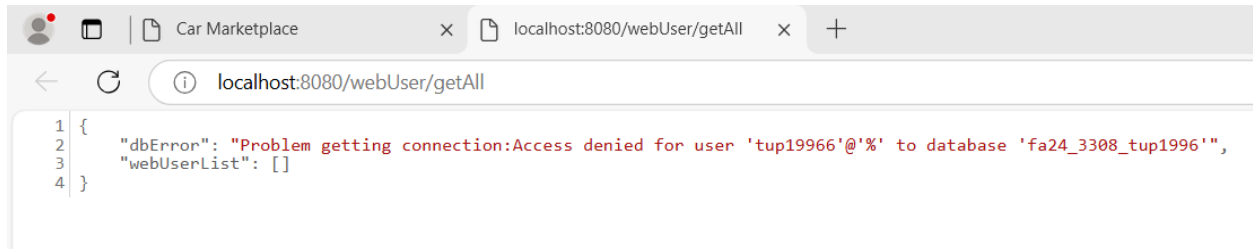


```
1 {
2   "dbError": "Problem getting connection:Communications link failure\n\nThe last packet sent successfully to the server was 0
3   milliseconds ago. The driver has not received any packets from the server.",
4   "webUserList": []
5 }
```

This error occurred by not tunneling into the database, and as a result, the connection with the database could not be established.

It was fixed by tunneling in, i.e writing the command, “ssh -L 3307:cis-linux2.temple.edu:3306 tup19966@cis-linux2.temple.edu” in my command prompt.

3. Database Not Authorized



The screenshot shows a web browser with two tabs: 'Car Marketplace' and 'localhost:8080/webUser/getAll'. The address bar shows 'localhost:8080/webUser/getAll'. The response body is a JSON object with the following structure:

```
1 {
2   "dbError": "Problem getting connection:Access denied for user 'tup19966'@'%' to database 'fa24_3308_tup1996'",
3   "webUserList": []
4 }
```

This error occurred by not using the correct database schema value in the variable dbAndPass from DbConn.java file.

It was fixed by correctly spelling the database schema value.

4. Syntax error in SQL Statement



The screenshot shows a web browser with two tabs: 'Car Marketplace' and 'localhost:8080/webUser/getAll'. The address bar shows 'localhost:8080/webUser/getAll'. The response body is a JSON object with the following structure:

```
1 {
2   "dbError": "",
3   "webUserList": [
4     {
5       "webUserId": "",
6       "userEmail": "",
7       "userPassword": "",
8       "userImage": "",
9       "birthday": "",
10      "membershipFee": "",
11      "userRoleId": "",
12      "userRoleType": "",
13      "errorMsg": "Exception thrown in WebUserView.getAllUsers(): You have an error in your SQL syntax; check the manual that
corresponds to your MariaDB server version for the right syntax to use near 'FROM web_user, user_role where web_user.user_role_id =
user_role.user_role_id...' at line 1"
14    }
15  ]
16 }
```

This error occurred because there was an extra comma at the end of select statement.

It was fixed by removing the extra comma.

5. Error Extracting Data from Result Set (bad column name)

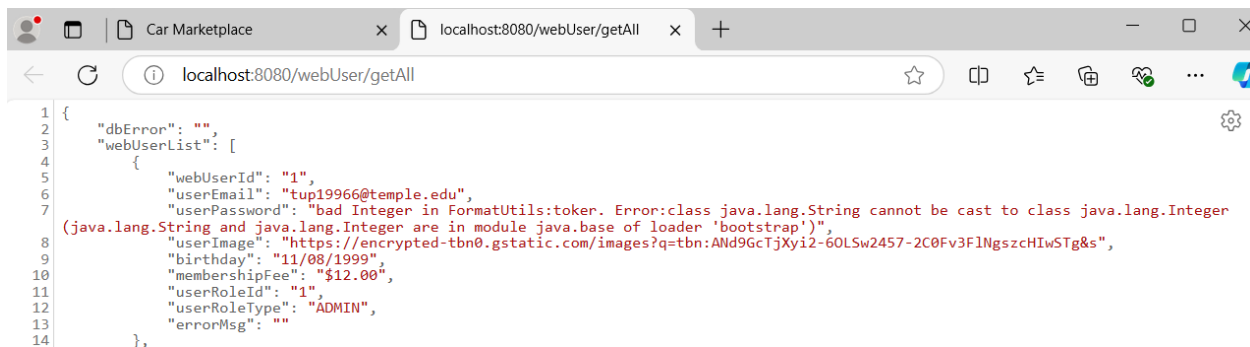


The screenshot shows a web browser window with the address bar displaying 'localhost:8080/webUser/getAll'. The page content is a JSON object with the following structure:

```
1 {
2   "dbError": "",
3   "webUserList": [
4     {
5       "webUserId": "",
6       "userEmail": "",
7       "userPassword": "",
8       "userImage": "",
9       "birthday": "",
10      "membershipFee": "",
11      "userRoleId": "",
12      "userRoleType": "",
13      "errorMsg": "Exception thrown in WebUserView.getAllUsers(): Unknown column 'user_img' in 'field list'"
14    }
15  ]
16 }
```

This error occurred because there was no column named `user_img` in the `webuser` table. Changing it to `user_image` column name fixed the error.

6. Error Extracting Data from Result Set (wrong data type)



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/webUser/getAll'. The page content is a JSON object with the following structure:

```
1 {
2   "dbError": "",
3   "webUserList": [
4     {
5       "webUserId": "1",
6       "userEmail": "tup19966@temple.edu",
7       "userPassword": "bad Integer in FormatUtils:token. Error:class java.lang.String cannot be cast to class java.lang.Integer
8       (java.lang.String and java.lang.Integer are in module java.base of loader 'bootstrap')",
9       "userImage": "https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTjXyi2-60LSw2457-2C0Fv3F1NgszchIwSTg&s",
10      "birthday": "11/08/1999",
11      "membershipFee": "$12.00",
12      "userRoleId": "1",
13      "userRoleType": "ADMIN",
14      "errorMsg": ""
15    }
16  ]
17 }
```

This error occurred because `userPassword` variable was formatted as integer instead of string. It was fixed by correctly formatting it, i.e using `Format(fmtString())` for `userPassword`.