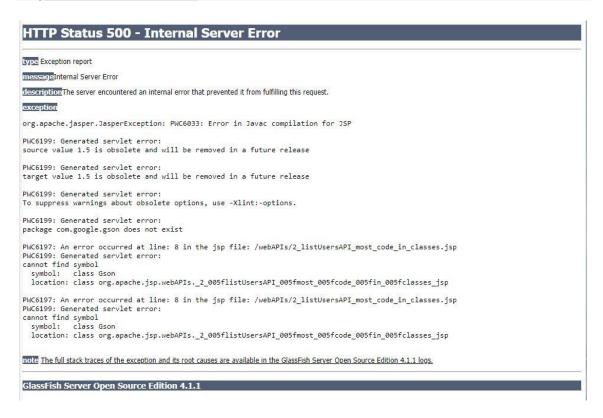
3344 Web API Homework

1. Missing Database Driver

- To simulate this error, remove the mysql driver (Right click on the Jar file and select "remove")
- To fix this error, add reference of two jar files (gson-2.6.2.jar, mysql-connector-java-5.1.14-bin.jar)

```
Output X
GlassFish Server 4.1.1 × Web_API_Sample (run) ×
PWC6197: An error occurred at line: 8 in the jsp file: /webAPIs/2_listUsersAPI_most_code_in_classes.jsp
     PWC6199: Generated servlet error:
cannot find symbol
        symbol: class Gson
      location: class org.apache.jsp.webAPIs._2_005flistUsersAPI_005fmost_005fcode_005fin_005fclasses_jsp
PWC6157: An error occurred at line: 8 in the jsp file: /webAPIs/2_listUsersAPI_most_code_in_classes.jsp
      PWC6199: Generated servlet error:
      cannot find symbol
         symbol: class Gson
         location: class org.apache.jsp.webAPIs._2_005flistUsersAPI_005fmost_005fcode_005fin_005fclasses_jsp
                at org.apache.jasper.compiler.DefaultErrorHandler.javacError(DefaultErrorHandler.java:129)
                at org.apache.jasper.compiler.ErrorDispatcher.javacError(ErrorDispatcher.java:299)
                at org.apache.jasper.compiler.Compiler.generateClass(Compiler.java:392)
                at org.apache.jasper.compiler.Compiler.compile(Compiler.java:453)
at org.apache.jasper.JspCompilationContext.compile(JspCompilationContext.java:625)
                at org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapper.java:375) at org.apache.jasper.servlet.JspServlet.serviceJspFile(JspServlet.java:473)
                at org.apache.jasper.servlet.JspServlet.service(JspServlet.java:377) at javax.servlet.http.HttpServlet.service(HttpServlet.java:790)
                at org.apache.catalina.core.StandardWrapper.service(StandardWrapper.java:1682)
                 at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:318)
                at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:160)
                 at org.apache.catalina.core.StandardPipeline.doInvoke(StandardPipeline.java:734)
```



2. Database Unreachable

- To simulate this error, not tunneled in. If we are not tunneled in (or our PC/MAC is unable to connect to cis-linux2's MySql database management system for any reason)
- To fix this error, tunneled in

```
dbError: "Problem getting connection:Communications link failure The last packet sent successfully to the server was 0 milliseconds ago. The driver has not received any packets from the server.",

webUserList: [ ]
}
```

3. Database Not Authorized

- To simulate this error, change something in our connect string (perhaps incorrect database name, or username or password)

For example: String dbAndPass = "SP20_3344_tuk85873?user=tuk85873&password=123456";

- To fix this error, correct database name, or username or username or password

```
{
    dbError: "Problem getting connection:Access denied for user 'tuk85873'@'cis-linux2-priv.temple.edu' (using password: YES)",
    webUserList: [ ]
}
```

4. Syntax error in SQL Statement

- To simulate this error, change something in our sql statement (perhaps misspell a keyword or table name or column name)

<u>For example</u>: String sql="SELECT web_user_id, user_email, user_password, membership_fee, birthday FROM webUser ORDER BY web_user_id";

- To fix this error, correct the table name in our sql statement

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

- To simulate this error, misspell a column name in the constructor of the StringData class

<u>For example</u>: this.webUserId = FormatUtils.formatInteger(results.getObject("webuserid"));

- To fix this error, correct the misspelled column name

```
+ - <u>View source</u> s
  dbError: "",
- webUserList: [
          webUserId: "",
          userEmail: ""
          userPassword: "",
          birthday: "",
          membershipFee: "",
         errorMsg: "Exception thrown in model.webUser.StringData (the constructor that takes a ResultSet): Column 'webuserid' not found."
          webUserId: "",
          userEmail: ""
          userPassword: "",
          birthday: "",
         errorMsg: "Exception thrown in model.webUser.StringData (the constructor that takes a ResultSet): Column 'webuserid'
not found."
          webUserId: "",
          userEmail: ""
          userPassword: "",
          membershipFee: ""
          errorMsg: "Exception thrown in model.webUser.StringData (the constructor that takes a ResultSet): Column 'webuserid'
```

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

- To simulate this error, convert data of one type using the wrong data type for formatting method

<u>For example</u>: this.birthday = FormatUtils.formatString(results.getObject("birthday"));

- To fix this error, correct the format data type

```
+ - View source #
{
    dbError: "",
  - webUserList: [
      - {
             webUserId: "1",
             userEmail: "tuk85873@temple.edu",
             userPassword: "test123!",
             birthday: "",
             membershipFee: "",
             errorMsg:
             webUserId: "2",
userEmail: "cindytran311@gmail.com",
             userPassword: "abc456!",
             birthday: "",
             membershipFee: "",
             errorMsg: "Exception thrown in model.webUser.StringData (the constructor that takes a ResultSet): java.sql.Date cannot
be cast to java.lang.String"
             webUserId: "3",
userEmail: "htran@yahoo.com",
             userPassword: "123abc@",
             birthday: "",
             membershipFee: "",
            errorMsg: "Exception thrown in model.webUser.StringData (the constructor that takes a ResultSet): java.sql.Date cannot be cast to java.lang.String"
```