

Database & Client Server

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Batch 2019-23

Project Activity– 2

Milestone – 1

1. Provide the code for database connectivity for each module in the project.

Ans.)

- Code in the mainline:
- Connecting to the server of the SQL.

```
Mainline.java
94  * This is the method that launches the JavaFX application
95  *
96  * @param args are the program parameters and they are not used by this pr
97  *
98  *
99  */
100 public static void main(String[] args) throws Exception {
101     Application.launch(args);
102     // register Oracle thin driver with DriverManager service
103     // It is optional for JDBC4.x version
104     Class.forName("com.mysql.cj.jdbc.Driver");
105
106     // variables
107     final String url = "jdbc:mysql:///PETS_ROLES";
108     final String user = "root";
109     final String password = "23-Oct.@2000";
110
111     // establish the connection
112     Connection con = DriverManager.getConnection(url, user, password);
113
114     // display status message
115     if (con == null) {
116         System.out.println("JDBC connection is not established");
117         return;
118     } else
119         System.out.println("Congratulations," +
120             " JDBC connection is established successfully.\n");
121     // close JDBC connection
122     con.close();
123 }
124 }
```

Problems @ Javadoc Declaration Console Progress

<terminated> Mainline [Java Application] C:\Program Files\Java\jre-9.0.4\bin\javaw.exe (09-Nov-2021, 3:49:24 pm
Tue Nov 09 15:49:47 IST 2021 WARN: Establishing SSL connection without server's iden
Congratulations, JDBC connection is established successfully.

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Project Activity– 2

```
ListItem.java Database.java ✖
1 package actions;
2
3 import java.sql.Connection;
4
5
6 public class Database {
7     Connection connect=null;
8     java.sql.PreparedStatement pst;
9
10    public static Connection databaseConnect() {
11        try {
12            Class.forName("com.mysql.cj.jdbc.Driver");
13
14            // variables
15            final String url = "jdbc:mysql:///PETS_ROLES";
16            final String user = "root";
17            final String password = "23-Oct.@2000";
18
19            // establish the connection
20            Connection connect = DriverManager.getConnection(url, user, password);
21
22            // display status message
23            if (connect == null) {
24                System.out.println("JDBC connection is not established");
25
26            } else
27                System.out.println("Congratulations," +
28                    " JDBC connection is established successfully.\n");
29            return connect;
30        }
31        catch(Exception e) {
32            System.out.println(e);
33            return null;
34        }
35    }
36
37
38
```

➤ Code in the ListItem.java file to insert the data into the table from the java class to SQL database.

```
ListItem.java ✖
680 */
681 protected void saveTheEntry() {
682     // Set this attribute to imply that the tab specific data should not be added
683     tabSpecificIndex = -1;
684
685     // Fetch the index of the selected row in the TableView
686     int theIndex = theListItemList.getSelectionModel().getSelectedIndex();
687
688     // If no entry is selected, give a warning and ignore the request
689     if (theIndex == -1) {
690         Alert alert = new Alert(AlertType.WARNING, "Save is only valid when a row has been selected!", ButtonType.OK);
691         alert.showAndWait();
692         return;
693     }
694
695     // If beyond the end of the list just return (This should never happen,
696     // so we have not spent effort raising a warning )

```

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Project Activity– 2

```
699
700 // If Name field is empty, give a warning, and just return without doing anything.
701 if (theNameField.getText().length() < 1) {
702     Alert alert = new Alert(AlertType.WARNING, "The " + capName + " Name must not be empty", ButtonType.OK);
703     alert.showAndWait();
704     return;
705 }
```

```
ListItem.java
711 theItemDescription = theDescriptionArea.getText();
712
713 PreparedStatement pst;
714 try {
715     pst = cont.prepareStatement("insert into "+table+"( "+ Name+", "+desc+" )"+ "values(?,?)");
716     pst.setString(1, theItemName);
717     pst.setString(2, theItemDescription);
718     pst.executeUpdate();
719 } catch (SQLException e) {
720     // TODO Auto-generated catch block
721     e.printStackTrace();
722 }
723
724
725
726
727 // Create a new item entry based on those values
728 ListItemEntry def = new ListItemEntry(theIndex+1, theItemName, theItemDescription);
729
730 // Place the new item entry back into the list at the position selected
731 de.set(theIndex, def);
732
733 // Place the list back into the TableView
734 theListItemList.setItems(de);
735 theListItemList.getSelectionModel().select(theIndex);
736
737 // Set this attribute to imply that the tab specific data should be added to the parallel
738 // list of tab specific attributes
739 tabSpecificIndex = theIndex;
740 }
741
742 /*****
```

```
Problems Javadoc Declaration Console Progress
Mainline [Java Application] C:\Program Files\Java\jre-9.0.4\bin\javaw.exe (16-Nov-2021, 2:12:26 pm)
Tue Nov 16 14:12:28 IST 2021 WARN: Establishing SSL connection without server's identity verification is not recommended.
Congratulations, JDBC connection is established successfully.

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Congratulations, JDBC connection is established successfully.

Tue Nov 16 14:12:29 IST 2021 WARN: Establishing SSL connection without server's identity verification is not recommended.
Congratulations, JDBC connection is established successfully.

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Project Activity– 2

2. Populate each table and provide the snapshots and provide the txt file for the same.

The screenshot shows the 'PETS Lifecycle Template Management Tool' window with the 'Life Cycles' tab selected. The interface includes a table on the left with columns 'Seq' and 'Life Cycle Name'. The first row contains '1' and 'abc'. To the right of the table are buttons for 'Edit', 'Save', 'Add' (with up and down arrows), and 'Clear'. The 'Life Cycle Name' field contains 'abc' and the 'Life Cycle Description' field contains 'It is able to save a b and c values.' Below the description field is a 'Clear the above Name and Description' button. At the bottom of the window are 'Move Up', 'Move Dn', and 'Delete' buttons.

Seq	Life Cycle Name
1	abc

Life Cycle Name: abc

Life Cycle Description: It is able to save a b and c values.

Life cycle specific attributes

Clear the above Name and Description

Move Up Move Dn Delete

The screenshot shows the 'PETS Lifecycle Template Management Tool' window with the 'Plans' tab selected. The interface includes a table on the left with columns 'Seq' and 'Plan Name'. The first row contains '1' and 'proceed'. To the right of the table are buttons for 'Edit', 'Save', 'Add' (with up and down arrows), and 'Clear'. The 'Plan Name' field contains 'proceed' and the 'Plan Description' field contains 'plan to proceed step by step'. Below the description field is a 'Clear the above Name and Description' button. At the bottom of the window are 'Move Up', 'Move Dn', and 'Delete' buttons.

Seq	Plan Name
1	proceed

Plan Name: proceed

Plan Description: plan to proceed step by step

Clear the above Name and Description

Move Up Move Dn Delete

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Project Activity– 2

[illegible][illegible]

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Project Activity– 2

```
mysql> select * from life_cycle;
+-----+-----+
| NAME      | DESCRIPTION                                |
+-----+-----+
| abc       | it is able to save a b and c values.    |
| Waterfall | Waterfall                                |
+-----+-----+
2 rows in set (0.07 sec)
```

```
mysql> select * from step;
+-----+-----+
| NAME | DESCRIPTION                                |
+-----+-----+
| aaa  | define the aaa differently              |
| first | frst step                               |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select * from conditions;
+-----+-----+
| NAME | DESCRIPTION                                |
+-----+-----+
| select | item should be selected                |
+-----+-----+
1 row in set (0.07 sec)
```

```
mysql> select * from defects;
+-----+-----+
| NAME | DESCRIPTION                                |
+-----+-----+
| task | task not be added                       |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from plans;
+-----+-----+
| NAME | DESCRIPTION                                |
+-----+-----+
| proceed | plan to proceed step by step        |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from artifacts;
+-----+-----+
| NAME | DESCRIPTION                                |
+-----+-----+
| xyz  | having the different values with different working |
+-----+-----+
1 row in set (0.00 sec)
```

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3. Provide the detailed list of bugs during coding and provide the steps taken to resolve them if resolved, else provide the list of bugs yet not resolved.

Ans.)

- No major bugs find during the code only get some error while coding like the connection error that is resolved by only adding the jar files.
- Get the error in the driver because jar file Is not imported.

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120                 " JDBC connection is established successfully.\n");
121         // close JDBC connection
122         con.close();
123     }
124 }
```

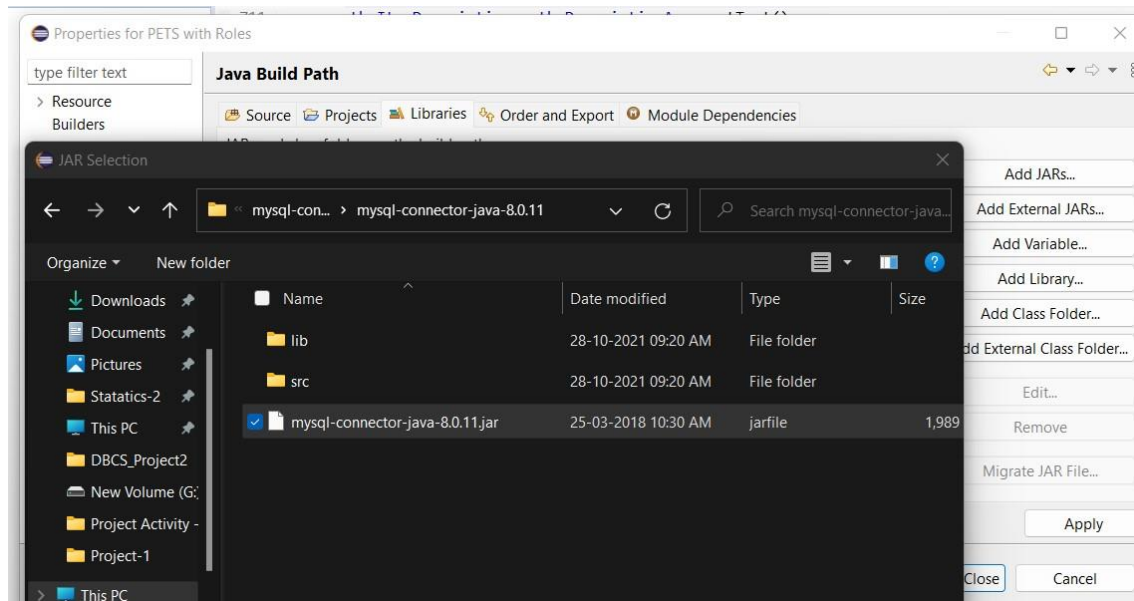
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- Import the jar file to resolve the error of the project.
- Go to the project properties.
- Go the java build path and add the external jars from the location where saved the connector jar file of SQL.



- Click ok to insert the file.
- Click apply to save the changes.

