

bankingapp-with-jdbc - bankingapp-with-jdbc/src/com/indium/bankingapp/service/AccountServiceMySQLImpl.java - Eclipse IDE

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Package Explorer

- bankingapp-with-jdbc [indium_javabootcamp-batch]
- JRE System Library [JavaSE-17]
- src
 - com.indium.bankingapp
 - BankingAppMain.java
 - com.indium.bankingapp.model
 - Account.java
 - com.indium.bankingapp.service
 - AccountService.java
 - AccountServiceMySQLImpl.java
- Referenced Libraries
 - mysql-connector-java-8.0.30.jar
- lib

AccountServiceMySQLImpl.java

```
1 package com.indium.bankingapp.service;
2
3 import com.indium.bankingapp.model.Account;
4
5 import java.sql.Connection;
6 import java.sql.DriverManager;
7 import java.sql.PreparedStatement;
8 import java.sql.ResultSet;
9 import java.sql.SQLException;
10 import java.util.ArrayList;
11 import java.util.List;
12
13 public class AccountServiceMySQLImpl implements AccountService<Account> {
14     private static final String DB_URL = "jdbc:mysql://localhost:3306/bankingapp";
15     private static final String DB_USER = "root";
16     private static final String DB_PASSWORD = "DBPassword";
17
18     //Defining SQL queries here
19     private static final String CREATE_ACCOUNT_SQL = "INSERT INTO accounts (id, name, bal";
20     private static final String GET_ALL_ACCOUNTS_SQL = "SELECT * FROM accounts";
21     private static final String GET_ACCOUNT_BY_ID_SQL = "SELECT * FROM accounts WHERE id";
22     private static final String UPDATE_ACCOUNT_SQL = "UPDATE accounts SET name = ?, balan";
23     private static final String DELETE_ACCOUNT_SQL = "DELETE FROM accounts WHERE id = ?";
24
25     @Override
26     public boolean createAccount(Account account) {
27         try (Connection connection = DriverManager.getConnection(DB_URL, DB_USER, DB_PASS
28             PreparedStatement preparedStatement = connection.prepareStatement(CREATE_ACC
29             preparedStatement.setInt(1, account.getId());
30             preparedStatement.setString(2, account.getName());
31             preparedStatement.setDouble(3, account.getBalance());
32             preparedStatement.setDouble(4, account.getRoi());
33             preparedStatement.setString(5, account.getAccountType());
34         } catch (SQLException e) {
35             e.printStackTrace();
36             return false;
37         }
38         return true;
39     }
40
41     @Override
42     public List<Account> getAllAccounts() {
43         List<Account> accounts = new ArrayList<>();
44         try (Connection connection = DriverManager.getConnection(DB_URL, DB_USER, DB_PASS
45             PreparedStatement preparedStatement = connection.prepareStatement(GET_ALL_ACCOUNTS_SQL);
46             ResultSet resultSet = preparedStatement.executeQuery();
47             while (resultSet.next()) {
48                 Account account = new Account(resultSet.getInt("id"), resultSet.getString("name"), resultSet.getDouble("balance"), resultSet.getDouble("roi"), resultSet.getString("account_type"));
49                 accounts.add(account);
50             }
51         } catch (SQLException e) {
52             e.printStackTrace();
53             return new ArrayList<>();
54         }
55         return accounts;
56     }
57
58     @Override
59     public Account getAccountById(int id) {
60         Account account = null;
61         try (Connection connection = DriverManager.getConnection(DB_URL, DB_USER, DB_PASS
62             PreparedStatement preparedStatement = connection.prepareStatement(GET_ACCOUNT_BY_ID_SQL);
63             preparedStatement.setInt(1, id);
64             ResultSet resultSet = preparedStatement.executeQuery();
65             while (resultSet.next()) {
66                 Account account = new Account(resultSet.getInt("id"), resultSet.getString("name"), resultSet.getDouble("balance"), resultSet.getDouble("roi"), resultSet.getString("account_type"));
67             }
68         } catch (SQLException e) {
69             e.printStackTrace();
70             return null;
71         }
72         return account;
73     }
74
75     @Override
76     public boolean updateAccount(Account account) {
77         try (Connection connection = DriverManager.getConnection(DB_URL, DB_USER, DB_PASS
78             PreparedStatement preparedStatement = connection.prepareStatement(UPDATE_ACCOUNT_SQL);
79             preparedStatement.setString(1, account.getId());
80             preparedStatement.setString(2, account.getName());
81             preparedStatement.setDouble(3, account.getBalance());
82             preparedStatement.setDouble(4, account.getRoi());
83             preparedStatement.setString(5, account.getAccountType());
84         } catch (SQLException e) {
85             e.printStackTrace();
86             return false;
87         }
88         return true;
89     }
90
91     @Override
92     public boolean deleteAccount(int id) {
93         try (Connection connection = DriverManager.getConnection(DB_URL, DB_USER, DB_PASS
94             PreparedStatement preparedStatement = connection.prepareStatement(DELETE_ACCOUNT_SQL);
95             preparedStatement.setInt(1, id);
96         } catch (SQLException e) {
97             e.printStackTrace();
98             return false;
99         }
100         return true;
101     }
102 }
```

Task List

Find All Activate...

Outline

- com.indium.bankingapp.service
 - AccountServiceMySQLImpl
 - DB_URL : String
 - DB_USER : String
 - DB_PASSWORD : String
 - CREATE_ACCOUNT_SQL : String
 - GET_ALL_ACCOUNTS_SQL : String
 - GET_ACCOUNT_BY_ID_SQL : String
 - UPDATE_ACCOUNT_SQL : String
 - DELETE_ACCOUNT_SQL : String
 - createAccount(Account) : boolean
 - getAllAccounts() : List<Account>

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AccountServiceMySQLImpl.java

```
34
35     int rowsAffected = preparedStatement.executeUpdate();
36     return rowsAffected > 0;
37 } catch (SQLException e) {
38     e.printStackTrace();
39     return false;
40 }
41 }
42
43 @Override
44 public List<Account> getAllAccounts() {
45     List<Account> accounts = new ArrayList<>();
46
47     try (Connection connection = DriverManager.getConnection(DB_URL, DB_USER, DB_PASS
48         PreparedStatement preparedStatement = connection.prepareStatement(GET_ALL_AC
49         ResultSet resultSet = preparedStatement.executeQuery();
50
51         while (resultSet.next()) {
52             int id = resultSet.getInt("id");
53             String name = resultSet.getString("name");
54             double balance = resultSet.getDouble("balance");
55             double roi = resultSet.getDouble("roi");
56             String accountType = resultSet.getString("account_type");
57
58             Account account = new Account(id, name, balance, roi, accountType);
59             accounts.add(account);
60         }
61     } catch (SQLException e) {
62         e.printStackTrace();
63     }
64
65     return accounts;
66 }
```

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 - AccountServiceMySQLImpl
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```
67  
68 @Override  
69 public Account getAccount(int id) {  
70     try (Connection connection = DriverManager.getConnection(DB_URL, DB_USER, DB_PASS  
71         PreparedStatement preparedStatement = connection.prepareStatement(GET_ACCOUNT  
72         preparedStatement.setInt(1, id);  
73         ResultSet resultSet = preparedStatement.executeQuery();  
74  
75         if (resultSet.next()) {  
76             String name = resultSet.getString("name");  
77             double balance = resultSet.getDouble("balance");  
78             double roi = resultSet.getDouble("roi");  
79             String accountType = resultSet.getString("account_type");  
80  
81             return new Account(id, name, balance, roi, accountType);  
82         }  
83     } catch (SQLException e) {  
84         e.printStackTrace();  
85     }  
86  
87     return null;  
88 }  
89  
90 @Override  
91 public boolean updateAccount(int id, Account account) {  
92     try (Connection connection = DriverManager.getConnection(DB_URL, DB_USER, DB_PASS  
93         PreparedStatement preparedStatement = connection.prepareStatement(UPDATE_ACC  
94         preparedStatement.setString(1, account.getName());  
95         preparedStatement.setDouble(2, account.getBalance());  
96         preparedStatement.setDouble(3, account.getRoi());  
97         preparedStatement.setString(4, account.getAccountType());  
98         preparedStatement.setInt(5, id);  
99     }  
100 }
```

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```
90= @Override
91 public boolean updateAccount(int id, Account account) {
92     try (Connection connection = DriverManager.getConnection(DB_URL, DB_USER, DB_PASS
93         PreparedStatement preparedStatement = connection.prepareStatement(UPDATE_ACC
94         preparedStatement.setString(1, account.getName());
95         preparedStatement.setDouble(2, account.getBalance());
96         preparedStatement.setDouble(3, account.getRoi());
97         preparedStatement.setString(4, account.getAccountType());
98         preparedStatement.setInt(5, id);
99
100     int rowsAffected = preparedStatement.executeUpdate();
101     return rowsAffected > 0;
102 } catch (SQLException e) {
103     e.printStackTrace();
104     return false;
105 }
106
107
108= @Override
109 public boolean deleteAccount(int id) {
110     try (Connection connection = DriverManager.getConnection(DB_URL, DB_USER, DB_PASS
111         PreparedStatement preparedStatement = connection.prepareStatement(DELETE_ACC
112         preparedStatement.setInt(1, id);
113
114     int rowsAffected = preparedStatement.executeUpdate();
115     return rowsAffected > 0;
116 } catch (SQLException e) {
117     e.printStackTrace();
118     return false;
119 }
120
121 }
```

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