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/*
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 * and open the template in the editor.
 */
package presenter;

import java.io.BufferedWriter;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;
import java.io.PrintWriter;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.Paths;
import java.nio.file.StandardOpenOption;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.time.LocalDate;
import java.time.ZoneId;
import java.util.ArrayList;
import java.util.Date;
import java.util.List;
import model.Admins;
import utility.DBConnection;

/**
 *
 * @author Adarsha
 */
public class AdminPersister {

    private Connection connection; // Connection object creation
    private PreparedStatement insertAdmin;
    private PreparedStatement getAllAdmins;
    private PreparedStatement deleteAdmin;
    private PreparedStatement loginAdminByUsernameAndPassword;
    private PreparedStatement findAllAdminsByName;
    private PreparedStatement findAllAdminsById;
    private PreparedStatement updateAdmin;

    public AdminPersister(){
        try {
            this.connection = DBConnection.getConnection(); //
database connection
            if (connection != null) {

                insertAdmin = connection.prepareStatement("INSERT
INTO admins (admin_name, username, password, email, phone, address,
campus) "
                    + "VALUES(?, ?, ?, ?, ?, ?, ?)");
                getAllAdmins = connection.prepareStatement("SELECT *
FROM admins");
                deleteAdmin = connection.prepareStatement("DELETE
FROM admins WHERE admin_id = ?");

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        loginAdminByUsernameAndPassword =
connection.prepareStatement("SELECT * FROM admins WHERE username = ? AND
password = ?");

        findAllAdminsById =
connection.prepareStatement("SELECT * FROM admins WHERE admin_id LIKE ?
");

        findAllAdminsByName =
connection.prepareStatement("SELECT * FROM admins WHERE username LIKE ?
");

        // updateAdmin = connection.prepareStatement("UPDATE
admins SET username = ? WHERE admin_name = ? ");
        updateAdmin = connection.prepareStatement("UPDATE
admins SET admin_name = ?, username = ?, password = ?, email = ?, phone =
?, address = ?, campus = ? WHERE admin_id = ?");
    }
    } catch (SQLException e) {
        System.out.println("Connection Failed!");
        System.out.println("SQLException : " + e.getMessage());
    }
}

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boolean registerAdmin(Admins admin) {
    try {
        insertAdmin.setString(1, admin.getAdminName());
        insertAdmin.setString(2, admin.getAdminUsername());
        insertAdmin.setString(3, admin.getAdminPassword());
        insertAdmin.setString(4, admin.getAdminEmail());
        insertAdmin.setString(5, admin.getAdminPhone());
        insertAdmin.setString(6, admin.getAdminAddress());
        insertAdmin.setString(7, admin.getAdminCampus());
        insertAdmin.executeUpdate(); // execute the prepared
statement insert
        return true;

    } catch (SQLException e) {
        System.out.println("SQL Exception: " + e.getMessage());
        return false;
    }
}

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List<Admins> getAllAdmins() {
    List<Admins> adminList = new ArrayList<>();
    try {
        ResultSet adminResult = getAllAdmins.executeQuery();

        System.out.println("Admin details reading from the
database.");
        while (adminResult.next()) {
            int adminId = adminResult.getInt("admin_id");
            String adminName = adminResult.getString("admin_name");
            String adminEmail = adminResult.getString("email");
            String adminPhone = adminResult.getString("phone");
            String adminUsername = adminResult.getString("username");
            String adminPassword = adminResult.getString("password");
            String adminAddress = adminResult.getString("address");
            String adminCampus = adminResult.getString("campus");

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        Admins newAdmin = new Admins(adminName, adminEmail,
adminPhone, adminUsername, adminPassword, adminAddress, adminCampus);
        newAdmin.setAdmin_id(adminId);
        // System.out.println("New added admin is : "+newAdmin);
        adminList.add(newAdmin);
    }
    } catch (SQLException e) {
        System.out.println("SQL Exception: " + e.getMessage());
    }
    // System.out.println("Final admins list to be sent from persister
is :"+ adminList);
    return adminList;
}

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String deleteAdmin(int admin_id) {
    String adminStatus = "";
    try {

        deleteAdmin.setInt(1, admin_id);
        int adminResult = deleteAdmin.executeUpdate();

        if (adminResult > 0) {
            adminStatus = "Admin deleted successfully.";
        } else {
            adminStatus = "Cannot delete the Admin.";
        }

    } catch (SQLException e) {
        adminStatus = "The admin cannot be deleted.";
        System.out.println("The admin cannot be deleted : " +
e.getMessage());
    }
    return adminStatus;
}

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boolean isAdminExist(String username, String password) {
    try {
        loginAdminByUsernameAndPassword.setString(1, username);
        loginAdminByUsernameAndPassword.setString(2, password);
        ResultSet loginResult =
loginAdminByUsernameAndPassword.executeQuery();
        if (loginResult.next()) {
            return true;
        }
    } catch (SQLException e) {
        System.out.println("SQL Exception: " + e.getMessage());
    }
    return false;
}

```

```

void writeToFile(String notification) {
    try {

        File myObj = new File("AdminLog.txt");
        if (myObj.createNewFile()) {
            System.out.println("File created: " + myObj.getName());
        } else {

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        System.out.println("File already exists.");
    }
} catch (IOException e) {
    System.out.println("An error occurred.");
    e.printStackTrace();
}

Path p = Paths.get("AdminLog.txt");
try (BufferedWriter writer = Files.newBufferedWriter(p,
StandardOpenOption.APPEND)) {
    writer.write(notification+"\n");

    System.out.println("Successfully wrote to the file.");
} catch (IOException e) {
    System.out.println("An error occurred.");
    e.printStackTrace();
}
}

public Date getDateFromLocalDate(LocalDate date) {
    Date newDate = null;
    if (date != null) {
        newDate =
Date.from(date.atStartOfDay(ZoneId.systemDefault()).toInstant());
    }
    return newDate;
}

public List<Admins> findAllAdminsById(int admin_id) {
    //String id = Integer.toString(adminId);
    Admins admin = new Admins();
    List<Admins> searchedAdmins = new ArrayList();
    try {
        findAllAdminsById.setInt(1, admin_id);
        ResultSet adminResult = findAllAdminsById.executeQuery();

        System.out.println("Admin details reading from the
database.");
        while (adminResult.next()) {
            int adminId = adminResult.getInt("admin_id");
            String adminName = adminResult.getString("admin_name");
            String username = adminResult.getString("username");
            String email = adminResult.getString("email");
            String phone = adminResult.getString("phone");
            String address = adminResult.getString("address");
            String campus = adminResult.getString("campus");
            String password = adminResult.getString("password");

            admin = new
Admins(adminName,email,phone,username,password,address,campus);
            admin.setAdmin_id(adminId);

            searchedAdmins.add(admin);
        }
    } catch (SQLException e) {
        System.out.println("SQL Exception: " + e.getMessage());
    }
}

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        return searchedAdmins;
    }

    public List<Admins> findAllAdminsByName(String keyword) {
        Admins admin = new Admins();
        List<Admins> searchedAdmins = new ArrayList();
        try {
            findAllAdminsByName.setString(1, "%" + keyword + "%");
            ResultSet adminResult = findAllAdminsByName.executeQuery();

            System.out.println("Admin details reading from the
database.");
            while (adminResult.next()) {
                int adminId = adminResult.getInt("admin_id");
                String adminName = adminResult.getString("admin_name");
                String username = adminResult.getString("username");
                String email = adminResult.getString("email");
                String phone = adminResult.getString("phone");
                String address = adminResult.getString("address");
                String campus = adminResult.getString("campus");
                String password = adminResult.getString("password");

                admin = new
Admins(adminName, email, phone, username, password, address, campus);
                admin.setAdmin_id(adminId);

                searchedAdmins.add(admin);
            }
        } catch (SQLException e) {
            System.out.println("SQL Exception: " + e.getMessage());
        }
        return searchedAdmins;
    }

    //
    // boolean updateAdmin(String column, String username, String
adminName) {
    //     try{
    //         updateAdmin.setString(1, username);
    //         updateAdmin.setString(2, adminName);
    //
    //         updateAdmin.execute();
    //     } catch (SQLException e) {
    //         System.out.println("SQL Exception: " + e.getMessage());
    //         return false;
    //     }
    //     return true;
    // }

    boolean updateAdmin(Admins admin) {
        try {
            int myID = admin.getAdmin_id();
            updateAdmin.setInt(8, myID);

            updateAdmin.setString(1, admin.getAdminName());
            updateAdmin.setString(2, admin.getAdminUsername());
            updateAdmin.setString(3, admin.getAdminPassword());
            updateAdmin.setString(4, admin.getAdminEmail());

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        updateAdmin.setString(5, admin.getAdminPhone());
        updateAdmin.setString(6, admin.getAdminAddress());
        updateAdmin.setString(7, admin.getAdminCampus());
        updateAdmin.executeUpdate(); // execute the prepared
statement insert
        return true;

    } catch (SQLException e) {
        System.out.println("SQL Exception: " + e.getMessage());
        return false;
    }

}

}
```