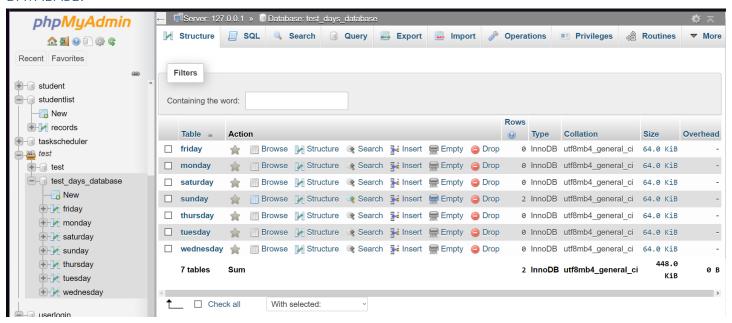
PROJECT NAME:

DAILY TASK SCHEDULER

PROJECT ABSTRACT:

This Application is basically a GUI version of TOLIST which was previously in terminal mode with some additional features. It has CRUD operations which are done using SQL database. A Pomodoro timer also included in this application to enhance the productivity to track the time on a specific task by the user. This Task Scheduler schedules the task according to the week days in accordance with the system date and time .

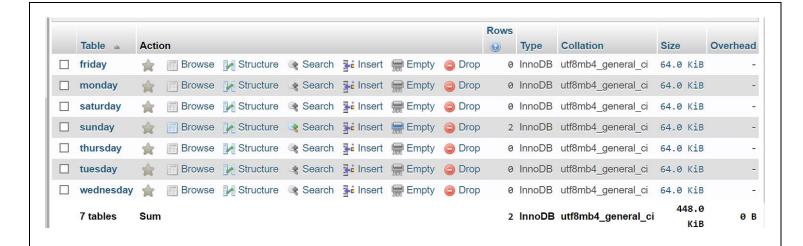
DATABASE:



Test days database

Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, sunday TABLE:

These Tables are used to store the task that are added by the user for each week days accordingly.



```
id tasks from_time to_time
```

PSFUDO CODF:

DailyTaskScheduler.JAVA:

```
package daily.task.scheduler;

public class DailyTaskScheduler {
   public static void main(String[] args) {
       new HomePage().setVisible(true);
   }
}
```

DbOperations.JAVA:

```
/*
For Creating the table
CREATE TABLE 'test_days_database'.'sunday' ( 'id' INT NOT NULL AUTO_INCREMENT , 'tasks' VARCHAR(30) NOT NULL , 'from_time'
VARCHAR(5) NOT NULL , 'to_time' VARCHAR(5) NOT NULL , PRIMARY KEY ('id'), UNIQUE ('tasks', 'from_time', 'to_time')) ENGINE =
InnoDB;
*/
package daily.task.scheduler;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Map;
import java.util.logging.Level;
import java.util.logging.Level;
import java.vtil.logging.Level;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.Table.DefaultTableModel;
public class DbOperations {
```

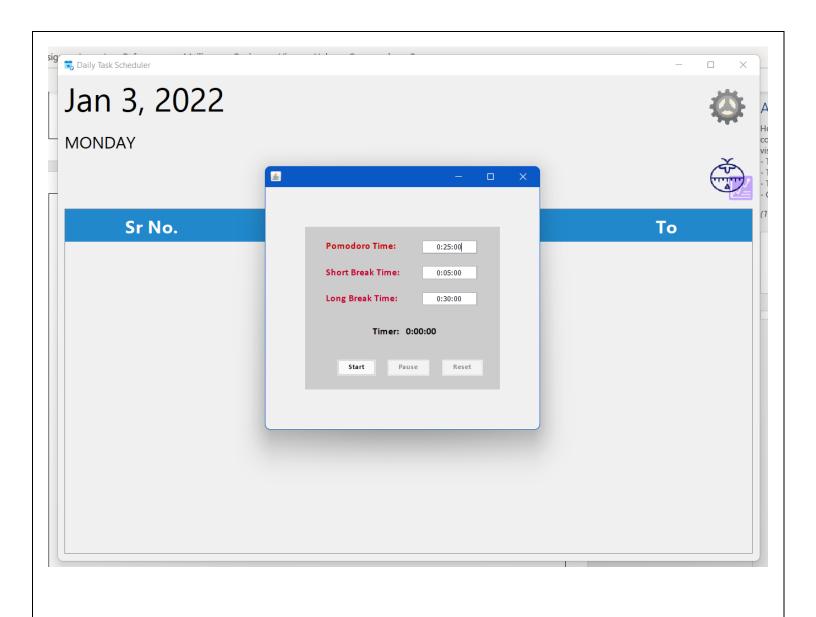
```
private static Map<Integer, Integer> Id;
private final String[] column = new String[] { "Sr No.", "Task", "From", "To" };
private Connection con = null;
private PreparedStatement pst = null;
private ResultSet rs = null;
private final String databaseName = "test_days_database";
private final String url = "jdbc:mysql://localhost:3306/" + databaseName;
class Values {
   int id;
  String task, from, to;
  public Values(int id, String task, String from, String to) {
     this.id = id;
     this.task = task;
     this.from = from;
     this.to = to;
  }
public DefaultTableModel convert(JTable jTable, String tableName) {
  try {
     String query = "select * from " + tableName + " ORDER BY " + tableName + ".id ASC";
     Class.forName("com.mysql.cj.jdbc.Driver");
     con = DriverManager.getConnection(url, "root", "");
     pst = con.prepareStatement(query);
     rs = pst.executeQuery();
     ArrayList<Values> value = new ArrayList<>();
     Id = new HashMap<>();
     while (rs.next()) {
        value.add(new Values(rs.getInt("id"), rs.getString("tasks"), rs.getString("from_time"),
              rs.getString("to_time")));
     Object[][] data = new Object[value.size()][4];
     for (int i = 0; i < value.size(); i++) {</pre>
        data[i][0] = i + 1;
        Id.put(i + 1, value.get(i).id);
        data[i][1] = value.get(i).task;
        data[i][2] = value.get(i).from;
        data[i][3] = value.get(i).to;
     return new DefaultTableModel(data, column) {
        boolean[] canEdit = { false, false, false, false };
Class[] types = new Class[] { Integer.class, String.class, String.class, String.class };
        @Override
        public Class getColumnClass(int columnIndex) { // For type of column.
           return types[columnIndex];
        public boolean isCellEditable(int rowIndex, int columnIndex) { // For not edit the table.
           return canEdit[columnIndex];
  } catch (SQLException e) {
     System.out.println(e);
     JOptionPane.showMessageDialog(null, "Something Wrong.");
  } catch (ClassNotFoundException ex) {
     Logger.getLogger(DbOperations.class.getName()).log(Level.SEVERE, null, ex);
  } finally {
     try {
        if (pst != null) {
           pst.close();
        if (rs != null) {
           rs.close();
     } catch (SQLException e)
```

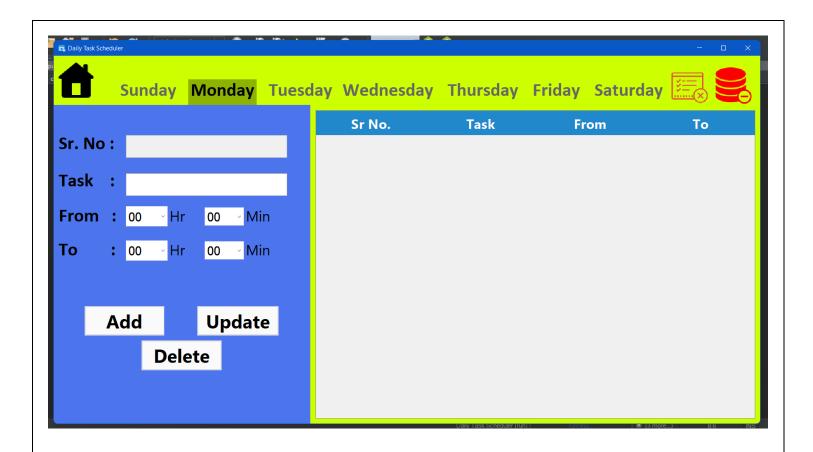
```
JOptionPane.showMessageDialog(null, "Something Wrong.");
  return new DefaultTableModel(new Object[][] {}, column);
public void addData(String Task, String From, String To, String tableName) {
     String query = "insert into " + tableName.toLowerCase() + "(tasks,from_time,to_time) values(?,?,?)";
     Class.forName("com.mysql.cj.jdbc.Driver");
     con = DriverManager.getConnection(url, "root", "");
     pst = con.prepareStatement(query);
     pst.setString(1, Task);
     pst.setString(2, From);
     pst.setString(3, To);
     pst.execute();
  } catch (ClassNotFoundException | SQLException e) {
     JOptionPane.showMessageDialog(null, "Data is in invalid form");
  } finally {
     try {
        if (pst != null) {
           pst.close();
        if (rs != null) {
           rs.close();
     } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, "Something Wrong.");
     }
public void deleteData(String srNo, String tableName) {
     int id = Id.get(Integer.parseInt(srNo));
     String query = "delete from " + tableName.toLowerCase() + " where id=?";
     Class.forName("com.mysql.cj.jdbc.Driver");
     con = DriverManager.getConnection(url, "root", "");
     pst = con.prepareStatement(query);
     pst.setInt(1, id);
     pst.execute();
  } catch (ClassNotFoundException | NumberFormatException | SQLException e) {
     JOptionPane.showMessageDialog(null, "Select Row from the Table");
  } finally {
     try {
        if (pst != null) {
           pst.close();
        if (rs != null) {
           rs.close();
     } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, "Something Wrong.");
  }
public void updateData(String srNo, String task, String from, String to, String tableName) {
     int id = Id.get(Integer.parseInt(srNo));
     String query = "update " + tableName.toLowerCase() + " set tasks=?,from_time=?,to_time=? where id=?";
     Class.forName("com.mysql.cj.jdbc.Driver");
     con = DriverManager.getConnection(url, "root", "");
     pst = con.prepareStatement(query);
     pst.setString(1, task);
     pst.setString(2, from);
     pst.setString(3, to);
     pst.setInt(4, id);
     pst.execute();
  } catch (ClassNotFoundException | NumberFormatException | SQLException e) {
     JOptionPane.showMessageDialog(null, "Data is in invalid form");
  } finally {
```

```
if (pst != null) {
           pst.close();
        if (rs != null) {
           rs.close();
     } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, "Something Wrong.");
  }
public void deleteRowsFromTable(String tableName) {
     String query = "delete from " + tableName;
     Class.forName("com.mysql.cj.jdbc.Driver");
     con = DriverManager.getConnection(url, "root", "");
     pst = con.prepareStatement(query);
     pst.execute();
  } catch (ClassNotFoundException | SQLException e) {
     JOptionPane.showMessageDialog(null, "Connection Error");
  } finally {
     try {
        if (pst != null) {
           pst.close();
        if (rs != null) {
           rs.close();
     } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, "Something Wrong.");
public void deleteAllTableData() {
     String query = "delete from sunday";
     Class.forName("com.mysql.cj.jdbc.Driver");
     con = DriverManager.getConnection(url, "root", "");
     pst = con.prepareStatement(query);
     pst.execute();
     query = "delete from monday";
     pst = con.prepareStatement(query);
     pst.execute();
     query = "delete from tuesday";
     pst = con.prepareStatement(query);
     pst.execute();
     query = "delete from wednesday";
     pst = con.prepareStatement(query);
     pst.execute();
     query = "delete from thursday";
     pst = con.prepareStatement(query);
     pst.execute();
     query = "delete from friday";
     pst = con.prepareStatement(query);
     pst.execute();
     query = "delete from saturday";
     pst = con.prepareStatement(query);
     pst.execute();
  } catch (ClassNotFoundException | SQLException e) {
     JOptionPane.showMessageDialog(null, "Connection Error");
  } finally {
     try {
        if (pst != null) {
           pst.close();
        if (rs != null) {
           rs.close();
     } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, "Something Wrong.");
```

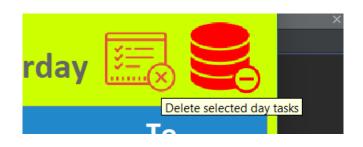
OUTPUT:



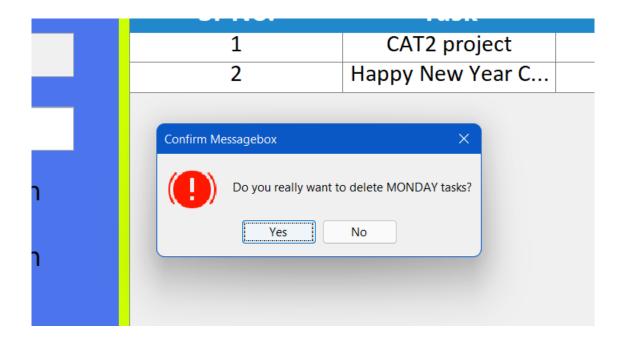


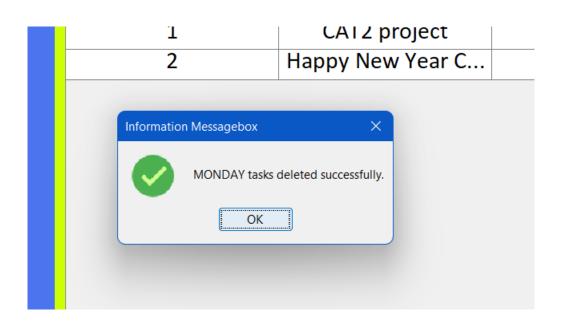


Sr No.	Task	From	То
1	CAT2 project	02:02	03:03
2	Happy New Year C	01:03	02:02









CONCLUSION AND FUTURE ENHANCEMENTS: THE ABOVE PROGRAM CAN BE ENHANCED BY ADDING LOGIN AUTHETICATION SYSTEM FOR INDIVIDUAL USERS, MORE UI/UX CAN BE ENHANCED, SMALL RECTIFICATIONS IN THE CONVENTION OF THE FEATURES CAN BE MADE TO IMPROVE THE PERFORMANCE OF THE APPLICATION BETTER.			