

Task1 : ToDo Application

Documented By

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Why we use To-Do Application—

Writing your daily tasks on a list can help you increase productivity and decrease stress. To-do lists enable you to segment your goals into achievable activities and complete large projects by breaking them into smaller assignments. Recording tasks can allow you to better manage your time and encourages you to achieve more throughout your day. In this article, we discuss the benefits of having a daily to-do list, how it can boost your mental health, and provide tips on how to create an effective list.

Having a to-do list can make things much easier. Whether you are looking to achieve more of your goals or controlling your time better, a to-do list will help you. You can get a positive boost to your career by becoming the person who is always on top of things and feel good every day.

Technology used

- JAVA
- SERVLET
- JSP
- JDBC
- MYSQL WORKBENCH
- Bootstrap

SOFTWARE USED

OPERATING SYSTEM : WINDOWS

BROWSER: GOOGLE CHROME EDITOR: ECLIPSE IDE

SERVER: TOMCAT

References

<https://www.javatpoint.com>

<https://www.geeksforgeeks.org>

<https://www.digitalocean.com>

Code:

```
//index.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Home</title>
<%@include file = "css.jsp" %>
</head>
```

```

<body>
<%@include file = "Navbar.jsp" %> //including jsp file

<div class="container p-5">
<div class="card">
<div class="card-body bg-light">
<p class="fs-1 text-center p-5 fw-bold text-success">Welcome <br>
to <br>
ToDo Application<br></p>
</div>
</div>
</div>
<%@include file = "js.jsp" %>
</body>
</html>

```

//Navbar.jsp

```

<nav class="navbar navbar-expand-lg navbar-dark bg-primary">
  <div class="container-fluid">
    <a class="navbar-brand">ToDo Application</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle
navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav ml-auto">
        <li class="nav-item active">
          <a class="tn btn-sm nav-link active" aria-current="page"
href="index.jsp">Home</a>
        </li>
        <li class="nav-item">
          <a class="tn btn-sm nav-link active" aria-current="page"
href="AddTask.jsp">Add Task</a>
        </li>
        <li class="nav-item">
          <a class="tn btn-sm nav-link active" aria-current="page"
href="View.jsp">View Details</a>
        </li>
      </ul>
    </div>
  </div>
</nav>

```

//css.jsp

```

<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.c
ss"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgPJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">

```

//js.jsp

```

<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.
js" integrity="sha384-
IQsoLX15PILFhosVNUbq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwPtgFTxbJ8NT4GN1R8p"
crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js"
integrity="sha384-
cVKIPhGWiC2Al4u+LWgxfKTRICfu0JtXr+EQDz/bglDoEyl4H0zUF0QKbrJ0EcQF"
crossorigin="anonymous"></script>

```

//AddTask.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Add tasks</title>
<%@include file = "css.jsp" %>
</head>
<body class="bg-light">
<%@include file = "Navbar.jsp" %>

<div class="container p-4">
<div class = "row">
<div class="col-md-6 offset-md-3">
<div class="card">
<div class="card-body">
<p class="fs-3 text-center">Add Task</p>

<form action="reg" method="post">
    <div class="mb-3">
        <label class="form-label">subject</label>
        <input type="text" name="sub" class="form-control" required>
    </div>
    <div class="mb-3">
        <label class="form-label">chapter</label>
        <input type="text" name="chap" class="form-control" required>
    </div>
    <div class="mb-3">
        <label class="form-label">Last Date</label>
        <input type="date" name="date" class="form-control" required>
    </div>
    <div class="mb-3">
        <label class="form-label">Status</label>
        <input type="text" name="status" class="form-control" required>
    </div>

    <div class="mb-3 form-check">
        <input type="checkbox" class="form-check-input">
        <label class="form-check-label">Checked</label>
    </div>
    <button type="submit" class="btn btn-primary">Submit</button>
</form>
</div>
</div>
</div>
</div>

```

```

</div>
<%@include file = "js.jsp" %>
</body>
</html>

```

//View.jsp

```

<%@page import = "java.sql.Connection" %>
<%@page import = "com.to.jdbc.DBcon" %> //importing another packages to
<%@page import = "com.to.entity.user" %> //use those codes

<%@page import = "com.task.dao.UserDao" %>
<%@page import = "java.util.List" %>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>View details</title>
<%@include file = "css.jsp" %>
</head>
<body class="bg-light">
<%@include file = "Navbar.jsp" %>

<% Connection con = DBcon.getCon(); //connect the jdbc file to
//store data in our database
%>

<div class="container p-4">
<div class="card">
<div class="card-body">
<p class="fs-1 text-center ">All Tasks Details</p>
<table class="table">
    <thead>
        <tr>
            <th scope="col">Subjects</th>
            <th scope="col">Chapters</th>
            <th scope="col">Date</th>
            <th scope="col">Status</th>
            <th scope="col">Remove</th>
        </tr>
    </thead>
    <tbody>

    <%
        UserDao dao = new UserDao(DBcon.getCon()); //creating object from
//UserDao file and calling
List<user> list = dao.getAll(); // method from that class

        for(user u:list){
    %>
        <tr>
            <th scope="row">
            <td><%=u.getSub() %></td>
            <td><%=u.getChap() %></td>
            <td><%=u.getDate() %></td>
            <td><%=u.getStatus() %></td>
            <td><a href="delete?id=<%=u.getId() %>" class="btn btn-sm btn-danger
ms-1">Delete</a></td>

```

```

        </tr>
    <%
    }
    %>

</tbody>
</table>
<a href="index.jsp" class="btn btn-sm btn-primary ms-1">Exit</a>
</div>
</div>

</div>
<%@include file = "js.jsp" %>
</body>
</html>

```

```

//DBcon.java

package com.to.jdbc;
import java.sql.Connection;
import java.sql.DriverManager;
public class DBcon {
    private static Connection con=null;
    public static Connection getCon() {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");

            con=DriverManager.getConnection("jdbc:mysql://localhost:3306/todo","root","Aliva@2000");
        }catch(Exception e) {
            e.printStackTrace();
        }
        return con;
    }
}

//user.java

package com.to.entity;

public class user {
    private int id;
    private String Sub;
    private String chap;
    private String date;
    private String status;
    public user() {
        super(); //creating constructor
    }
}

```

```

    public user(String sub, String chap, String date, String status) {
        super();
        Sub = sub;
        this.chap = chap;
        this.date = date;
        this.status = status;
    }
    public int getId() {          //getter and setter method to get and set
        return id;               //the entities
    }
    public void setId(int id) {
        this.id = id;
    }
    public String getSub() {
        return Sub;
    }
    public void setSub(String sub) {
        Sub = sub;
    }
    public String getChap() {
        return chap;
    }
    public void setChap(String chap) {
        this.chap = chap;
    }
    public String getDate() {
        return date;
    }
    public void setDate(String date) {
        this.date = date;
    }
    public String getStatus() {
        return status;
    }
    public void setStatus(String status) {
        this.status = status;
    }
    @Override
    public String toString() {
        return "user [id=" + id + ", Sub=" + Sub + ", chap=" + chap +
        ", date=" + date + ", status=" + status + "];" //to get the entities
    }
}

```

```
//UserDao.java
```

```
package com.task.dao;
```

```
import java.sql.Connection;
```

```
import java.sql.PreparedStatement;
```

```
import java.sql.ResultSet;
```

```
import java.util.*;
```

```
import com.to.entity.user;
```

```

public class UserDao {

    private Connection con;

    public UserDao(Connection con) {    //constructure and Connection c
        super();                        //connection class object
        this.con = con;
    }

    public boolean addtask(user us) {    //insert data to table by query
        boolean f = false;              //default value set to varify
        try {
            String sql="insert into users(sub,chap,date,status)
values(?,?,?,?)";
            PreparedStatement ps=con.prepareStatement(sql);

            ps.setString(1, us.getSub());    //to execute para-
            ps.setString(2, us.getChap());    //-meterized query
            ps.setString(3, us.getDate());    //set and get method
            ps.setString(4, us.getStatus());    //to store data

            int n = ps.executeUpdate();

            if(n==1) {
                f=true;
            }

        } catch (Exception e) {

```



```

        e.printStackTrace(); //it is a tool to handle exception
    }
    //and errors.

    return f;
}

public List<user> getAll() { //List from user class to
    List<user> list=new ArrayList<user>(); //view the data stored
    user s=null; //user class object,set as null

    try {

        String sql="select * from users";

        PreparedStatement ps=con.prepareStatement(sql);

        ResultSet rs = ps.executeQuery();

        while(rs.next()) {

            s=new user();

            s.setId(rs.getInt(1));

            s.setSub(rs.getString(2));

            s.setChap(rs.getString(3));

            s.setDate(rs.getString(4));

            s.setStatus(rs.getString(5));

            list.add(s);

        }

    } catch (Exception e) {

        e.printStackTrace();

    }

    return list;
}

```

```

public user getById(int id) {

    user s=null;

    try {

        String sql="selec * from users where no=?";

        PreparedStatement ps=con.prepareStatement(sql);

        ps.setInt(1, id);


        ResultSet rs = ps.executeQuery();

        while(rs.next()) {

            s=new user();

            s.setId(rs.getInt(1));

            s.setSub(rs.getString(2));

            s.setChap(rs.getString(3));

            s.setDate(rs.getString(4));

            s.setStatus(rs.getString(5));

        }

    }catch(Exception e) {

        e.printStackTrace();

    }

    return s;

}

```

```

public boolean delete(int id) {

    boolean f = false;

    try {

        String sql="delete from users where no=?";

```

```
        PreparedStatement ps = con.prepareStatement(sql);

        ps.setInt(1, id);

        int i= ps.executeUpdate();

        if(i == 1) {

            f = true;

        }

    }catch(Exception e) {

        e.printStackTrace();

    }

    return f;

}

}
```

//Reg.java

```
package com.task.servlet;

import java.io.IOException;

import com.task.dao.UserDao;

import com.to.entity.user;

import com.to.jdbc.DBcon;

import jakarta.servlet.ServletException;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;
```

```

import jakarta.servlet.http.HttpSession;

@WebServlet("/reg")    //servlet url

public class Reg extends HttpServlet {

    @Override

    protected void doPost(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {

        String sub= req.getParameter("sub");

        String chap=req.getParameter("chap");

        String date=req.getParameter("date");

        String status=req.getParameter("status");

        user us = new user(sub,chap,date,status);

        UserDao dao = new UserDao(DBcon.getCon());

        HttpSession ses=req.getSession(); //view and manipulate
                                           //information about a session

        boolean f=dao.addtask(us);

        if(f) {
            ses.setAttribute("Succcesful","tasks added
Succesfully*");
            resp.sendRedirect("View.jsp"); //forward to view.jsp fie
        }else {
            //to the response
            ses.setAttribute("Error!","Something Wrong!!!");
            resp.sendRedirect("AddTask.jsp");
        }
    }
}

```

```

    }

}

}

//Deleteservlet.java

package com.task.servlet;

import java.io.IOException;

import com.to.jdbc.DBcon;

import jakarta.servlet.ServletException;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.http.HttpSession;

import com.task.dao.*;

import com.to.jdbc.*;

@WebServlet("/delete")

public class Deleteservlet extends HttpServlet {

    @Override

    protected void doGet(HttpServletRequest req, HttpServletResponse

resp) throws ServletException, IOException {

```

```

        int id=Integer.parseInt(req.getParameter("id"));

        UserDao dao = new UserDao(DBcon.getCon());

        boolean f = dao.delete(id);

        HttpSession ses=req.getSession();

        if(f) {

            ses.setAttribute("Succcesful","tasks deleted
Succesfully*");

            resp.sendRedirect("View.jsp");

        }else {

            ses.setAttribute("Error!","Something Wrong!!!");

            resp.sendRedirect("View.jsp");

        }

    }

}

```

DataBase-Connection

CREATE DATABASE todo;

USE todo;

CREATE TABLE users(id INT PRIMARY KEY AUTO-INCREMENT , sub VARCHAR(45) NOT NULL,
Chap VARCHAR(45) NOT NULL, date VARCHAR(45) NOT NULL, status VARCHAR(10) NOT
NULL);

