


Neeraj Appari S073

Aim:

Write a servlet based program to demonstrate CRUD operations.

Html

Neeraj Appari S073

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Department of Computer Science

Practical - 06

Aim: Write a servlet based program to demonstrate CRUD Operations

Wintrups
+ Steps of servlet + jdbc

- 1) Open Netbeans IDE, Select File → New Project
- 2) Select Java Web → Web Application, then click on Next.
- 3) Give a name to your project and click on Next
- 4) and then click Finish
- 5) Creation of database and table in MySQL using database
- 6) Implementation of required web pages
- 7) Creation of Java Servlet program with JDBC connection
- 8) To use this class Method, create an object in java Servlet program
- 9) Get the data from HTML file

```
<!DOCTYPE html>
```

```
<!--
```

To change this license header, choose License Headers in Project Properties.

To change this template file, choose Tools | Templates and open the template in the editor.

```
-->
```

```
<html>
```

```
  <head>
```

```
    <title>TODO supply a title</title>
```

```
    <meta charset="UTF-8">
```

```
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
```

```
  </head>
```

```
  <body>
```

```
    <div style="border: 5px outset yellowgreen;background-
color: blue;text-align: center;">Neeraj Appari S073</div>
```

```
    <div style="border: 5px outset red;background-color:
lightblue;text-align: center;">Add Record</div>
```

```
    <form action="p6addi" method = "post">
```

Enter ID: <input type="text" name="ID" value="" />
</br>

Enter Name: <input type="text" name="name"
value="" /></br>

Enter Quantity: <input type="text" name="Quantity"
value="" /> </br>

<input type="submit" value="Submit" />
</form>

<div style="border: 5px outset red;background-color:
lightblue;text-align: center;">Update Record</div>

<form action="upd" method = "post">

Enter ID: <input type="text" name="ID" value="" />
</br>

Enter Name: <input type="text" name="name"
value="" /></br>

Enter Quantity: <input type="text" name="Quantity"
value="" /> </br>

<input type="submit" value="Submit" />
</form>

<div style="border: 5px outset red;background-color:
lightblue;text-align: center;">Search Record</div>

<form action="p6ser" method = "post">

Enter ID: <input type="text" name="id" value="" />
</br>

```

        <input type="submit" value="Submit" />
    </form>

    <div style="border: 5px outset red;background-color:
lightblue;text-align: center;">Delete Record</div>

    <form action="p6del" method = "post">

        Enter ID: <input type="text" name="ID" value="" />
    </br>

        <input type="submit" value="Submit" />
    </form>

</body>
</html>

```

Java

1)

```
/*
```

* To change this license header, choose License Headers in Project Properties.

* To change this template file, choose Tools | Templates

* and open the template in the editor.

```
*/
```

```
import java.io.IOException;
```

```
import java.io.PrintWriter;
```

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 *
 * @author LAXMINARAYANRO
 */
public class p6addi extends HttpServlet {

    /**
     * Processes requests for both HTTP <code>GET</code>
     and <code>POST</code>
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
```

* @throws ServletException if a servlet-specific error occurs

* @throws IOException if an I/O error occurs

*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

int Id = Integer.parseInt(request.getParameter("ID"));

String first_name = request.getParameter("name");

int Quantity =
Integer.parseInt(request.getParameter("Quantity"));

try

{

Class.forName("org.apache.derby.jdbc.EmbeddedDriver");//
driver class name

// database path

Connection cn =
DriverManager.getConnection("jdbc:derby://localhost:1527/
ccpcpro");

```

        Statement st = cn.createStatement();

        String str = "insert into p6 values(
        "+Id+", '"+first_name+"', "+Quantity+" )";

        st.executeUpdate(str);

    }

    catch(Exception e)
    {

        out.println(e.getMessage());

    }

    out.println("<div style=\"border: 5px outset
red;background-color: lightblue;text-align: center;\">Record
Added SuccesFully</div>");

}

```

```

// <editor-fold defaultstate="collapsed" desc="HttpServlet
methods. Click on the + sign on the left to edit the code.">

```

```

/**

```

```

 * Handles the HTTP <code>GET</code> method.

```

```

 *

```

```
* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error
occurs
* @throws IOException if an I/O error occurs
*/
```

@Override

```
protected void doGet(HttpServletRequest request,
HttpServletRequest response)
```

```
    throws ServletException, IOException {
    processRequest(request, response);
}
```

```
/**
```

```
* Handles the HTTP <code>POST</code> method.
*
* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error
occurs
* @throws IOException if an I/O error occurs
*/
```

@Override


```
protected void doPost(HttpServletRequest request,
HttpServletRequest response)
```

```
    throws ServletException, IOException {
    processRequest(request, response);
}
```

```
/**
```

```
 * Returns a short description of the servlet.
```

```
 *
```

```
 * @return a String containing servlet description
```

```
 */
```

```
@Override
```

```
public String getServletInfo() {
```

```
    return "Short description";
```

```
}// </editor-fold>
```

```
}
```

2)

```
/*
```

```
 * To change this license header, choose License Headers in
Project Properties.
```

* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/

```
import java.io.IOException;  
import java.io.PrintWriter;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.Statement;  
import javax.servlet.ServletException;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;
```

```
/**
```

```
*
```

```
* @author LAXMINARAYANRO
```

```
*/
```

```
public class p6del extends HttpServlet {
```

```
/**
```

* Processes requests for both HTTP `GET` and `POST`

* methods.

*

* @param request servlet request

* @param response servlet response

* @throws ServletException if a servlet-specific error occurs

* @throws IOException if an I/O error occurs

*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

int Id = Integer.parseInt(request.getParameter("ID"));

try

{

//out.println(Id);

```
Class.forName("org.apache.derby.jdbc.EmbeddedDriver");//  
driver class name
```

```
    // database path
```

```
    Connection cn =  
DriverManager.getConnection("jdbc:derby://localhost:1527/  
ccpcpro");
```

```
    Statement st = cn.createStatement();
```

```
    String str = "delete from p6 where ID = "+Id+" ";
```

```
    st.executeUpdate(str);
```

```
    }
```

```
        catch(Exception e)
```

```
    {
```

```
        out.println(e.getMessage());
```

```
    }
```

```
        out.println("<div style=\"border: 5px outset  
red;background-color: lightblue;text-align: center;\">Record  
Deleted SuccesFully</div>");
```

```
    }
```

```
    // <editor-fold defaultstate="collapsed" desc="HttpServlet  
methods. Click on the + sign on the left to edit the code.">
```

```
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error
occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request,
HttpServletRequest response)
    throws ServletException, IOException {
    processRequest(request, response);
}
```

```
/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error
occurs
```

```

    * @throws IOException if an I/O error occurs
    */
    @Override
    protected void doPost(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

```

```

/**

```

```

    * Returns a short description of the servlet.

```

```

    *

```

```

    * @return a String containing servlet description

```

```

    */

```

```

    @Override

```

```

    public String getServletInfo() {

```

```

        return "Short description";

```

```

    } // </editor-fold>

```

```

    }

```

3)

```

import java.io.IOException;

```

```
import java.io.PrintWriter;
import java.sql.*;
import javax.servlet.ServletException;
import javax.servlet.http.*;

public class p6ser extends HttpServlet {

    protected void processRequest(HttpServletRequest
request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        response.setContentType("text/html");
        out.println("<html><body>");
        int id = Integer.parseInt(request.getParameter("id"));

        try
        {

Class.forName("org.apache.derby.jdbc.EmbeddedDriver");//
driver class name

        // database path
```

```
Connection cn =  
DriverManager.getConnection("jdbc:derby://localhost:1527/  
ccpcpro");
```

```
Statement st = cn.createStatement();
```

```
ResultSet rs = st.executeQuery("select * from p6  
where id = "+id+"");
```

```
out.println("<table border=1 width=50% height=50%  
background-color: #4CAF50;\n" +  
" color: white;> ");
```

```
out.println("<tr><th  
>ID</th><th>Name</th><th>Quantity</th><tr>");
```

```
while (rs.next())  
{  
    id = rs.getInt("id");  
    String fn = rs.getString("name");  
    int quantity = rs.getInt("quantity");  
    out.println("<tr><td>" + id + "</td><td>" + fn +  
"</td><td>" + quantity + "</td></tr>");  
}  
out.println("</table>");
```



```
        out.println("</html></body>");
        cn.close();
    }
    catch (Exception e)
    {
        out.println(e.getMessage());
    }
}
```

```
        out.println("<div style=\"border: 5px outset
red;background-color: lightblue;text-align: center;\">Record
Updated SuccesFully</div>");
    }
```

```
// <editor-fold defaultstate="collapsed" desc="HttpServlet
methods. Click on the + sign on the left to edit the code.">
```

```
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error
occurs
 * @throws IOException if an I/O error occurs
```

```

*/

@Override
protected void doGet(HttpServletRequest request,
HttpServletRequest response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error
occurs
 * @throws IOException if an I/O error occurs
 */

@Override
protected void doPost(HttpServletRequest request,
HttpServletRequest response)
    throws ServletException, IOException {
    processRequest(request, response);
}

```

```
/**
```

```
 * Returns a short description of the servlet.
```

```
 *
```

```
 * @return a String containing servlet description
```

```
 */
```

```
@Override
```

```
public String getServletInfo() {
```

```
    return "Short description";
```

```
}// </editor-fold>
```

```
}
```

```
4)
```

```
/*
```

```
 * To change this license header, choose License Headers in  
Project Properties.
```

```
 * To change this template file, choose Tools | Templates
```

```
 * and open the template in the editor.
```

```
*/
```

```
import java.io.IOException;
```

```
import java.io.PrintWriter;
```

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
/**
```

```
 *
```

```
 * @author LAXMINARAYANRO
```

```
 */
```

```
public class upd extends HttpServlet {
```

```
    /**
```

```
        * Processes requests for both HTTP GET
and POST
```

```
        * methods.
```

```
        *
```

```
        * @param request servlet request
```

```
        * @param response servlet response
```

* @throws ServletException if a servlet-specific error occurs

* @throws IOException if an I/O error occurs

*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

int Id = Integer.parseInt(request.getParameter("ID"));

String name = request.getParameter("name");

int Quantity =

Integer.parseInt(request.getParameter("Quantity"));

try

{

Class.forName("org.apache.derby.jdbc.EmbeddedDriver");//
driver class name

// database path

Connection cn =

DriverManager.getConnection("jdbc:derby://localhost:1527/
ccpcpro");

```

        Statement st = cn.createStatement();

        String str = "update p6 set
name='"+name+"',Quantity='"+Quantity+" where ID =
"+Id+"";

        st.executeUpdate(str);

    }

    catch(Exception e)
    {
        out.println(e.getMessage());
    }

    out.println("<div style=\"border: 5px outset
red;background-color: lightblue;text-align: center;\">Record
Updated SuccesFully</div>");

}

```

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

```
/**
```

```
* Handles the HTTP <code>GET</code> method.
```

```
*
```

```
* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error
occurs
```

```
* @throws IOException if an I/O error occurs
```

```
*/
```

```
@Override
```

```
protected void doGet(HttpServletRequest request,
HttpServletRequest response)
```

```
    throws ServletException, IOException {
```

```
    processRequest(request, response);
```

```
}
```

```
/**
```

```
* Handles the HTTP <code>POST</code> method.
```

```
*
```

```
* @param request servlet request
```

```
* @param response servlet response
```

```
* @throws ServletException if a servlet-specific error
occurs
```

```
* @throws IOException if an I/O error occurs
```

```
*/
```

```
@Override
```

```
protected void doPost(HttpServletRequest request,  
HttpServletRequest response)
```

```
    throws ServletException, IOException {  
        processRequest(request, response);  
    }
```

```
/**
```

```
 * Returns a short description of the servlet.
```

```
 *
```

```
 * @return a String containing servlet description
```

```
 */
```

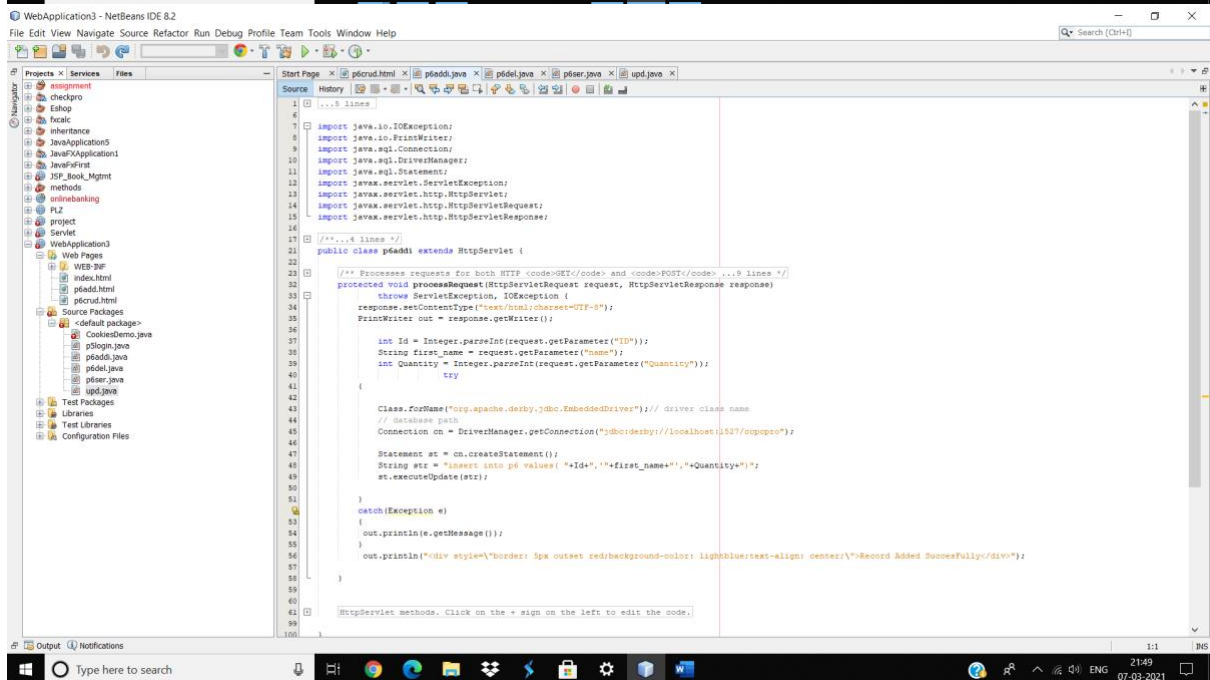
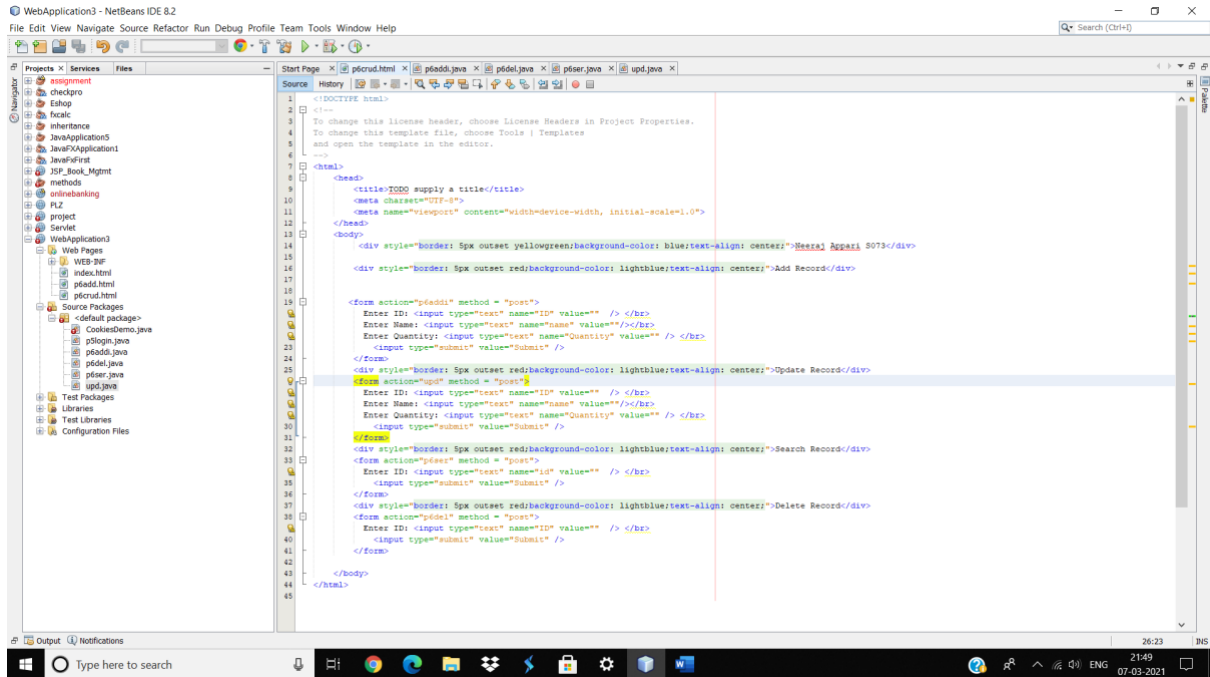
```
@Override
```

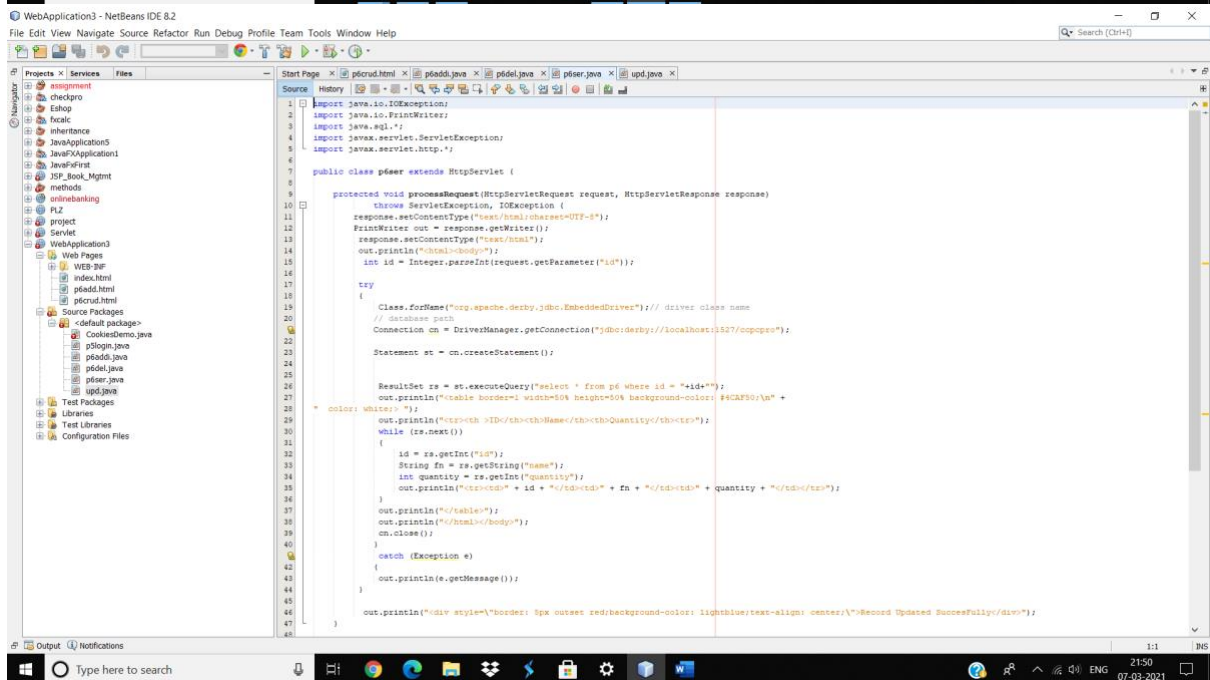
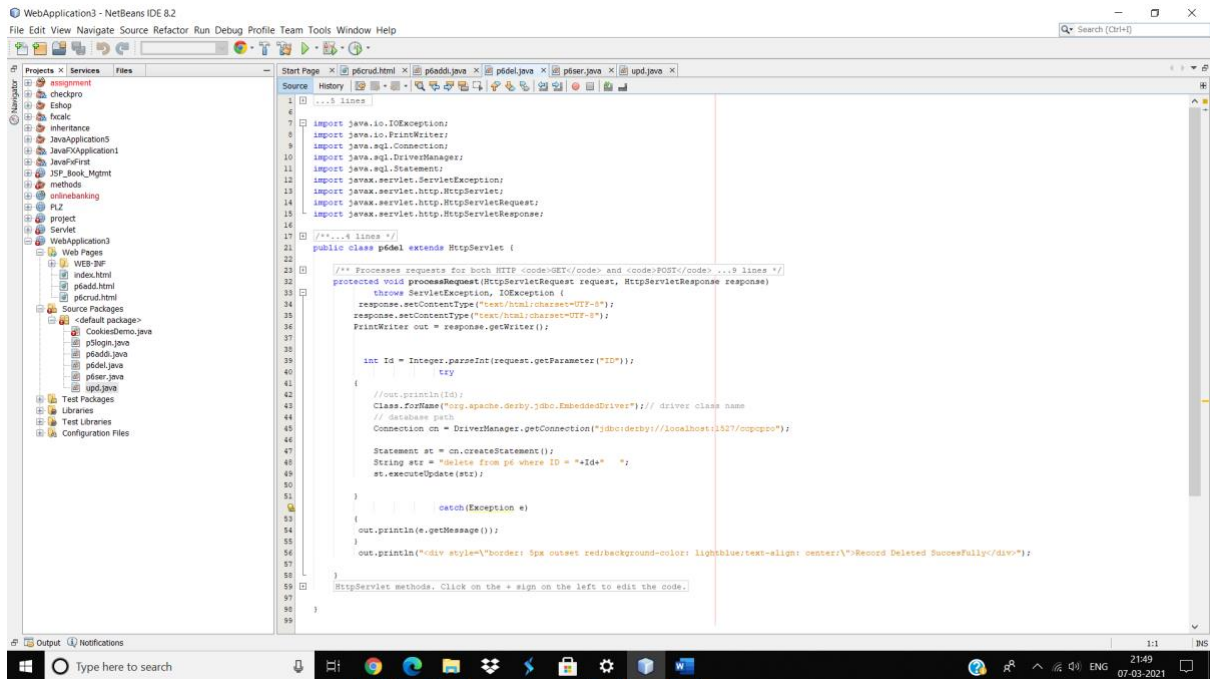
```
public String getServletInfo() {
```

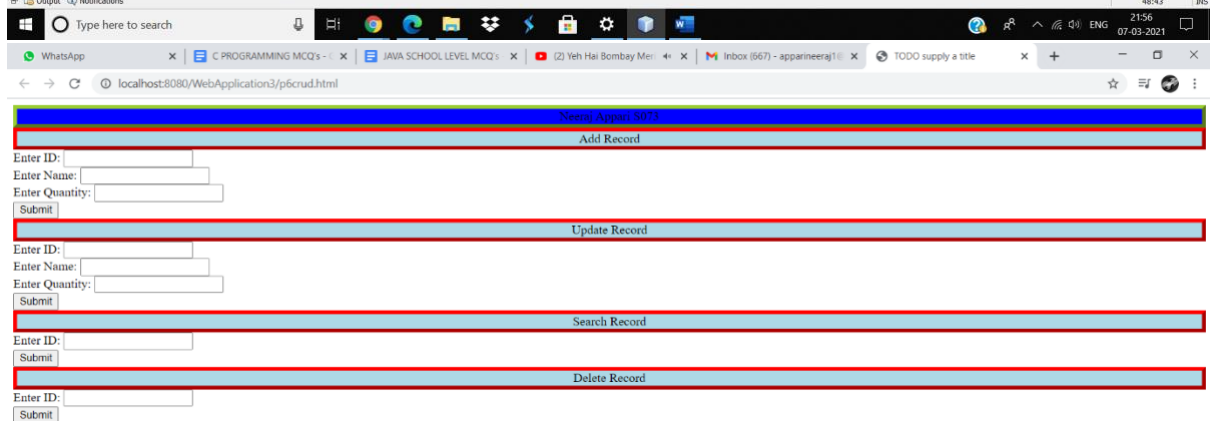
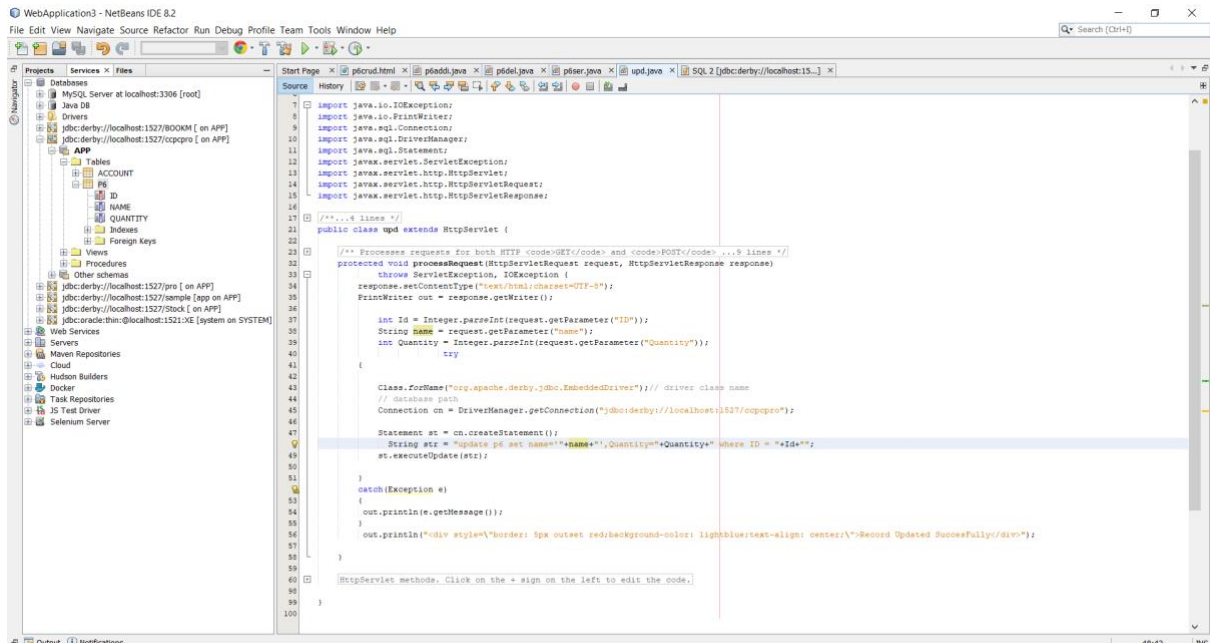
```
    return "Short description";
```

```
}// </editor-fold>
```

```
}
```





WhatsApp x C PROGRAMMING MCQ's - x JAVA SCHOOL LEVEL MCQ's x (2) Yeh Hai Bombay Mer x Inbox (567) - apparineeraj1 x TODO supply a title x

localhost:8080/WebApplication3/p6crud.html

Neeraj Appaji S073

Add Record

Enter ID: 1

Enter Name: Neeraj

Enter Quantity: 1233

Submit

Update Record

Enter ID:

Enter Name:

Enter Quantity:

Submit

Search Record

Enter ID:

Submit

Delete Record

Enter ID:

Submit

Type here to search

WhatsApp x C PROGRAMMING MCQ's - x JAVA SCHOOL LEVEL MCQ's x (2) Yeh Hai Bombay Mer x Inbox (567) - apparineeraj1 x localhost:8080/WebApplication3/p6add.html

Record Added Successfully

Type here to search

21:51 07-03-2021

WhatsApp x C PROGRAMMING MCQ's - x JAVA SCHOOL LEVEL MCQ's - x (2) Yeh Hai Bombay Meri Jaan x Inbox (567) - apparineeraj1 x TODO supply a title x

localhost:8080/WebApplication3/p6crud.html

Neeraj Appaji S073

Add Record

Enter ID:

Enter Name:

Enter Quantity:

Submit

Update Record

Enter ID:

Enter Name:

Enter Quantity:

Submit

Search Record

Enter ID:

Submit

Delete Record

Enter ID:

Submit

NetBeans IDE 8.2

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+F)

Projects Services Files

Databases

- MySQL Server at localhost:3306 [root]
 - Java DB
 - Drivers
 - jdbc:derby://localhost:1527/BOOKM [on APP]
 - jdbc:derby://localhost:1527/cqcpgr [on APP]
 - APP
 - Tables
 - ACCOUNT
 - P6
 - ID
 - NAME
 - QUANTITY
 - Indexes
 - Foreign Keys
 - Views
 - Procedures
 - Other schemas
 - jdbc:derby://localhost:1527/jra [on APP]
 - jdbc:derby://localhost:1527/sample (app on APP)
 - jdbc:derby://localhost:1527/Stock [on APP]
 - jdbc:oracle:thin:@localhost:1521:XE [system on SYSTEM]
- Web Services
- Servers
- Maven Repositories
- Cloud
- Hudson Builders
- Docker
- Task Repositories
- JS Test Driver
- Selenium Server

Start Page x p6crud.html x p6add.java x p6del.java x p6ser.java x upd.java x SQL 2 (jdbc:derby://localhost:1527/...) x

Connection: jdbc:derby://localhost:1527/cqcpgr [on APP]

```
1 SELECT * FROM APP.P6 FETCH FIRST 100 ROWS ONLY;
```

SELECT * FROM APP.P6 FETC...

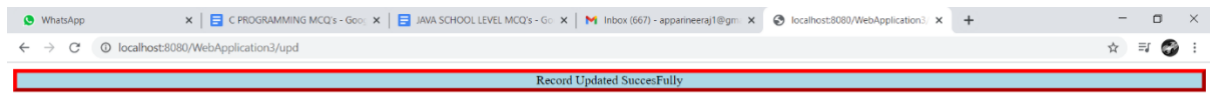
Max rows: 100 Fetched Rows: 1 Matching Rows:

#	ID	NAME	QUANTITY
1	1	Neeraj	1233

Output Notifications

Type here to search

21:55 07-03-2021



WhatsApp x C PROGRAMMING MCQ's - Goo... x JAVA SCHOOL LEVEL MCQ's - G... x (no subject) - appanneeraj1@gm... x TODO supply a title x

localhost:8080/WebApplication3/p6crud.html

Neeraj Appaji S073

Add Record

Enter ID:

Enter Name:

Enter Quantity:

Update Record

Enter ID:

Enter Name:

Enter Quantity:

Search Record

Enter ID:

Delete Record

Enter ID:

Type here to search

WhatsApp x C PROGRAMMING MCQ's - Goo... x JAVA SCHOOL LEVEL MCQ's - G... x Inbox (667) - appanneeraj1@gm... x localhost:8080/WebApplication... x

localhost:8080/WebApplication3/p6user

ID	Name	Quantity
1	Neeraj	7787

Record Updated SuccesFully

WhatsApp x C PROGRAMMING MCQ's - Goo... x JAVA SCHOOL LEVEL MCQ's - Goo... x Inbox (667) - appanneeraj1@gmail... x TODO supply a title x

localhost:8080/WebApplication3/p6crud.html

Servlet App001 S073

Add Record

Enter ID:

Enter Name:

Enter Quantity:

Update Record

Enter ID:

Enter Name:

Enter Quantity:

Search Record

Enter ID:

Delete Record

Enter ID:

Type here to search

WhatsApp x C PROGRAMMING MCQ's - Goo... x JAVA SCHOOL LEVEL MCQ's - Goo... x Inbox (667) - appanneeraj1@gmail... x localhost:8080/WebApplication3/p6crud.html x

localhost:8080/WebApplication3/p6crud.html

Record Deleted Successfully

Type here to search

WhatsApp x C PROGRAMMING MCQ's - Goo... x JAVA SCHOOL LEVEL MCQ's - Goo... x Inbox (667) - appanneeraj1@gmail... x localhost:8080/WebApplication3/p6crud.html x

localhost:8080/WebApplication3/p6crud.html