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# COMPLAINT REDRESSAL SYSTEM PROJECT SOURCE CODE

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## complaint.sql

```
CREATE DATABASE /*!32312 IF NOT  
EXISTS*/`web_student_tracker` /*!40100 DEFAULT CHARACTER  
SET latin1 */;
```

```
USE `web_student_tracker`;
```

```
/*Table structure for table `complaint` */
```

```
DROP TABLE IF EXISTS `complaint`;
```

```
CREATE TABLE `complaint` (  
  `cid` int(120) NOT NULL AUTO_INCREMENT,  
  `uid` int(120) NOT NULL,  
  `details` varchar(120) CHARACTER SET latin1 DEFAULT  
'technical problem',  
  `status` varchar(120) CHARACTER SET latin1 DEFAULT  
'not seen',  
  PRIMARY KEY (`cid`),  
  KEY `utoc` (`uid`),  
  CONSTRAINT `utoc` FOREIGN KEY (`uid`) REFERENCES  
`user` (`id`) ON DELETE CASCADE  
) ENGINE=InnoDB AUTO_INCREMENT=20 DEFAULT CHARSET=utf8;
```

```
/*Data for the table `complaint` */
```

```
insert into `complaint`(`cid`,`uid`,`details`,`status`)  
values  
(5,7,'select * hellmmm','in process'),  
(6,7,'wrong','paid'),
```

```

(7,7,'Universe problem','not seen'),
(8,7,'select * from user','not seen'),
(10,1,'fridge','under process'),
(11,1,'heavy','not seen'),
(12,1,'hello','not seen'),
(13,1,'doctor','not seen'),
(14,1,'django','not seen'),
(15,1,'javascript','not seen'),
(16,1,'ReactJS','seen'),
(18,7,'guadrians','not seen'),
(19,7,'AngularJS','not seen');

/*Table structure for table `engineer` */

DROP TABLE IF EXISTS `engineer`;

CREATE TABLE `engineer` (
  `eid` int(120) NOT NULL AUTO_INCREMENT,
  `cid` int(120) DEFAULT NULL,
  `ename` varchar(120) CHARACTER SET latin1 DEFAULT
NULL,
  PRIMARY KEY (`eid`),
  KEY `ctoe` (`cid`),
  CONSTRAINT `ctoe` FOREIGN KEY (`cid`) REFERENCES
`complaint` (`cid`) ON DELETE SET NULL
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=utf8;

/*Data for the table `engineer` */

insert into `engineer`(`eid`,`cid`,`ename`) values
(1,16,'Elon Musk'),

```

```

(2,10,'Vimal Pillai'),
(4,11,'Baja Fish Tacos'),
(5,NULL,'Baja Fish Tacos');

/*Table structure for table `product` */

DROP TABLE IF EXISTS `product`;

CREATE TABLE `product` (
  `serialid` int(120) NOT NULL,
  `cid` int(120) DEFAULT NULL,
  `name` varchar(120) CHARACTER SET latin1 DEFAULT NULL,
  `type` varchar(120) CHARACTER SET latin1 DEFAULT NULL,
  `company` varchar(120) CHARACTER SET latin1 DEFAULT
NULL,
  `warantydate` varchar(120) CHARACTER SET latin1
DEFAULT NULL,
  PRIMARY KEY (`serialid`),
  KEY `ctop` (`cid`),
  CONSTRAINT `ctop` FOREIGN KEY (`cid`) REFERENCES
`complaint` (`cid`) ON DELETE SET NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

/*Data for the table `product` */

insert into
`product`(`serialid`,`cid`,`name`,`type`,`company`,`wara
ntydate`) values
(1,NULL,'machyine','eclecgtric','gtodrej','21'),
(2,6,'Hello','electronics','Philips','21/09/1993'),
(3,NULL,'hello','dfsd','Philips','12/12/2019'),

```

```
(7,NULL,'Baja Fish
Tacos','electronics','Philips','12/12/2019'),
(10,5,'Hello','electronics','Philips','21/09/1993'),
(14,NULL,'KFCvimal','electronics','Philips','21/09/1993'
),
(22,15,'Hello','electronics','Godrej','23/6/1981'),
(23,10,'mcdonalds','electronics','Godrej','21/09/1993'),
(100,16,'Computer','electronics','Hewlett
Packard','20/12/2020'),
(233,NULL,'Hello
batman','electronics','dsfds','21/09/1993'),
(333,NULL,'i20','car','hyundai','23/6/1981'),
(1221,18,'Hello','electronics','Philips','21/09/1993'),
(6767,19,'Dell','electronics','Philips','21/09/1993');
```

```
/*Table structure for table `replacement` */
```

```
DROP TABLE IF EXISTS `replacement`;
```

```
CREATE TABLE `replacement` (
  `rid` int(120) NOT NULL AUTO_INCREMENT,
  `cid` int(120) DEFAULT NULL,
  `rname` varchar(120) CHARACTER SET latin1 DEFAULT
NULL,
  `price` int(120) DEFAULT NULL,
  PRIMARY KEY (`rid`),
  KEY `ctor` (`cid`),
  CONSTRAINT `ctor` FOREIGN KEY (`cid`) REFERENCES
`complaint` (`cid`) ON DELETE CASCADE
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8;
```

```

/*Data for the table `replacement` */

insert into `replacement`(`rid`,`cid`,`rname`,`price`)
values
(1,16,'sdf',334);

/*Table structure for table `user` */

DROP TABLE IF EXISTS `user`;

CREATE TABLE `user` (
  `id` int(120) NOT NULL AUTO_INCREMENT,
  `email` varchar(120) DEFAULT NULL,
  `username` varchar(120) DEFAULT NULL,
  `password` varchar(120) DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT
CHARSET=latin1;

```

---

## Login.jsp

```

<html>
<head>
<title>Login</title>
</head>
<body>
<%@include file="navbar.jsp" %><br />
<div class="container">
<h2><p class="text-center text-success">Complaint
Management System</p></h2>
<hr />

```

```
<div class="col-6 mx-auto my-auto">
<div class="card card-block">
  <div class="card-header text-center bg-
info"><b>Login</b></div>
  <p class="card-body">
    <form action="LoginServlet" class="form-horizontal"
method="GET">
<div class="row">
<div class="col-1 mx-auto">
<label><b>Username</b></label>
</div>
<div class="col-5 mx-auto">
<input type="text" class="form-control" autofocus
name="username" />
</div>
</div><br />
<div class="row">
<div class="col-1 mx-auto">
<label><b>Password</b></label>
</div>
<div class="col-5 mx-auto">
<input type="password" class="form-control"
name="password" />
</div>
</div><br />
<div class="row">
<div class="col-2 mx-auto">
<input type="submit" class="btn btn-primary"
value="Login" />
</div>
```

```
</div>
</form>
<p class="text-center"><a href="/complaint/add-user-
form.jsp">Register</a></p>
</p>
</div>
</div>
</div>
</body>
</html>
```

---

### *Update-complaint-form.jsp*

```
<html>
<head>
<title>Update Complaint</title>
</head>
<body>
  <%@include file="navbar.jsp" %><br />
  <div class="container">
    <h3>Update Complaint</h3>
    <form action="ComplaintControllerServlet" class="form-
horizontal" method="GET">
      <input type="hidden" name = "command" value="UPDATE" />
      <input type="hidden" name = "theComplaintId"
value="${THE_COMPLAINT.cId}" />
      <div class="row">
        <div class="col-2">
          <label><b>Details</b></label>
        </div>
        <div class="col-5">
```



```
<input type="text" class="form-control" name="details"
value="${THE_COMPLAINT.details}"/></td>
</div>
</div><br />
<c:set var="VIMAL" value="vimal" />
<c:set var="USER" value="${sessionScope.name}" />
<c:choose>
<c:when test="${VIMAL eq USER}">
<div class="row">
<div class="col-2">
<label><b>Status</b></label>
</div>
<div class="col-5">
<input type="text" name="status" class="form-control"
value="${THE_COMPLAINT.status}"/>
</div>
</div><br />
</c:when>
</c:choose>
<div class="row">
<div class="col-8 mx-auto">
<input type="submit" class="btn btn-primary"
value="Save" />
</div>
</div>
</form>
<p>
<a href="ComplaintControllerServlet">Back to List</a>
</p>
</div>
</body>
```

```
</html>
```

---

### **Update-user-form.java**

```
<html>
<head>
<title>Update User</title>
</head>
<body>
  <%@include file="navbar.jsp" %><br />
  <div class="container">
    <h3>Update User</h3>
    <form action="UserControllerServlet" class="form-
horizontal" method="GET">
      <input type="hidden" name = "command" value="UPDATE" />
      <input type="hidden" name = "theUserId"
value="${THE_USER.id}" />
      <div class="row">
        <div class="col-2">
          <label><b>Username</b></label>
        </div>
        <div class="col-5">
          <input type="text" name="username" class="form-control"
value="${THE_USER.username}" />
        </div>
      </div><br />
      <div class="row">
        <div class="col-2">
          <label><b>Email</b></label>
        </div>
```

```
<div class="col-5">
  <input type="text" name="email" class="form-control"
value="${THE_USER.email}"/>
</div>
</div><br />
<div class="row">
  <div class="col-2">
    <label><b>Password</b></label>
  </div>
  <div class="col-5">
    <input type="password" name="password" class="form-
control" value="${THE_USER.password}"/>
  </div>
</div><br />
<div class="row">
  <div class="col-8 mx-auto">
    <input type="submit" class="btn btn-primary"
value="Save" />
  </div>
</div>
</form>
<p>
  <a href="ComplaintControllerServlet">Back to List</a>
</p>
</div>
</body>
</html>
```

---

**Navbar.jsp**

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core"
prefix="c" %>
<html>
<head>

<link rel="stylesheet"
href="bootstrap/dist/css/bootstrap.min.css">
<link rel="stylesheet"
href="bootstrap/dist/css/bootstrap-theme.min.css">
<script src="jquery-3.3.1.min.js"></script>
<script src="popper.min.js"></script>
<script
src="bootstrap/dist/js/bootstrap.min.js"></script>

</head>
<body>
<div class="container">
<c:set var="VIMAL" value="vimal" />
<c:set var="USER" value="${sessionScope.name}" />
<c:set var="UID" value="${sessionScope.uid}" />
<c:if test="${not empty USER}">
<h2>Complaint Management</h2>
<hr />
</c:if>
<c:choose>
<c:when test="${VIMAL eq USER}">
<a href="/complaint/HomeControllerServlet">Home</a>
<a
href="/complaint/StudentControllerServlet">Products</a>
```

```
<a
href="/complaint/ComplaintControllerServlet">Complaints<
/a>
<a
href="/complaint/EngineerControllerServlet">Engineers</a
>
<a href="/complaint/UserControllerServlet">Users</a>
<a
href="/complaint/ReplacementControllerServlet">Replaceme
nts</a>
<a href="/complaint/LogoutServlet">Logout</a>
</c:when>
<c:when test="${empty USER}">
</c:when>
<c:otherwise>
<a href="/complaint/HomeControllerServlet">Home</a>
<a
href="/complaint/StudentControllerServlet">Products</a>
<a
href="/complaint/ComplaintControllerServlet">Complaints<
/a>
<c:url var="tempLink" value="UserControllerServlet">
    <c:param name="command"
value="LOAD" />
    <c:param name="userId"
value="${sessionScope.uid}" />
    </c:url>
<a href="${tempLink}">Update</a>
<a href="/complaint/LogoutServlet">Logout</a>
</c:otherwise>
</c:choose>
```

```
</div>
</body>
</html>
```

---

### List-users.jsp

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core"
prefix="c" %>

<!DOCTYPE html>
<html>
<head>
    <title>Complaint Management</title>
</head>
<body>
<%@include file="navbar.jsp" %><br />
<div class="container">
<input type="button" class="btn btn-primary" value="Add
User" onclick="window.location.href='add-user-form.jsp';
return false;" /><br /><br />
<table class="table table-striped table-hover">
    <tr>
        <th>ID</th>
        <th>EmailID</th>
        <th>Name</th>
        <th>Action</th>
    </tr>
    <c:forEach var="temp" items="${USER_LIST}">
        <c:url var="tempLink" value="UserControllerServlet">
            <c:param name="command"
value="LOAD" />
```

```

                <c:param name="userId"
value="${temp.id}" />
            </c:url>

            <c:url var="deleteLink"
value="UserControllerServlet">
                <c:param name="command"
value="DELETE" />
                <c:param name="userId"
value="${temp.id}" />
            </c:url>

            <tr>
                <td> ${temp.id} </td>
                <td> ${temp.email} </td>
                <td> ${temp.username} </td>
                <td>
                    <a
href="${tempLink}">Update</a>
                    |
                    <a href="${deleteLink}"
onclick="if(!(confirm('Are
you sure you want to delete this student?')) return
false">Delete</a>
                </td>
            </tr>
        </c:forEach>
    </table>
</div>
</body>
</html>

```

---

## **add-user-form.jsp**

```
<html>
<head>
<title>Add User</title>
</head>
<body>
  <%@include file="navbar.jsp" %><br />
  <div class="container">
    <h3>Add User</h3>

    <form action="UserControllerServlet" method="POST">
      <input type="hidden" name="command" value="ADD" />
      <div class="row">
        <div class="col-2">
          <label><b>Name</b></label>
        </div>
        <div class="col-5">
          <input type="text" class="form-control" name="name" />
        </div>
      </div><br />
      <div class="row">
        <div class="col-2">
          <label><b>Email</b></label>
        </div>
        <div class="col-5">
          <input type="text" class="form-control" name="email"
/>
        </div>
      </div><br />
      <div class="row">
```



```
<div class="col-2">
<label><b>Password</b></label>
</div>
<div class="col-5">
<input type="password" class="form-control"
name="password1" />
</div>
</div><br />
<div class="row">
<div class="col-2">
<label><b>Confirm Passsword</b></label>
</div>
<div class="col-5">
<input type="password" class="form-control"
name="password2" />
</div>
</div><br />
<div class="row">
<div class="col-8 mx-auto">
<input type="submit" class="btn btn-primary"
value="Save" />
</div>
</div>
</form>
<p>
<a href="UserControllerServlet">Back to List</a>
</p>
</div>
</body>
</html>
```

---

## Add-complaint-form.jsp

```
<html>
<head>
<title>Add Complaint</title>
</head>
<body>
  <%@include file="navbar.jsp" %><br />
  <div class="container">
    <h3>Add Complaint</h3>
    <form action="ComplaintControllerServlet" class="form-
horizontal" method="POST">
      <input type="hidden" name = "command" value="ADD" />
      <div class="row">
        <div class="col-2">
          <label for="det"><b></b>Details</b> </label>
        </div>
        <div class="col-5">
          <input type="text" id="det" class="form-control"
placeholder="details" name="details" />
        </div>
      </div><br />
      <div class="row">
        <div class="col-8 mx-auto">
          <input type="submit" class="btn btn-primary"
value="Save" />
        </div>
      </div>
    </form>
    <p>
      <a href="ComplaintControllerServlet">Back to List</a>
    </p>
  </div>
</body>
</html>
```

```
</p>  
</div>  
</body>  
</html>
```

---

### **Complaint.java**

```
package com.complaint.Complaint;  
  
public class Complaint  
{  
    private int cId;  
    private int uid;  
    private String details;  
    private String status;  
  
    public Complaint(int uid, String details)  
    {  
        this.uid = uid;  
        this.details = details;  
    }  
  
    public Complaint(String details,int uid, String  
status)  
    {  
  
        this.uid = uid;  
        this.details = details;  
        this.status = status;  
    }  
}
```

```
    public Complaint(int cId, String details, String
status)
    {
        this.cId = cId;
        this.details = details;
        this.status = status;
    }

    public Complaint(String details, String status)
    {
        this.details = details;
        this.status = status;
    }

    public Complaint(String details)
    {
        this.details = details;
    }

    public int getUid() {
        return uid;
    }

    public void setUid(int uid) {
        this.uid = uid;
    }

    public int getCId() {
        return cId;
    }
}
```

```
public void setCId(int cId) {
    this.cId = cId;
}

public String getDetails() {
    return details;
}

public void setDetails(String details) {
    this.details = details;
}

public String getStatus() {
    return status;
}

public void setStatus(String status) {
    this.status = status;
}
}
```

---

### **ComplaintControllerServlet.java**

```
package com.complaint.Complaint;

import java.io.IOException;
import java.util.List;

import javax.annotation.Resource;
import javax.servlet.RequestDispatcher;
```

```
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import javax.sql.DataSource;

@WebServlet("/ComplaintControllerServlet")
public class ComplaintControllerServlet extends
HttpServlet
{
    private ComplaintDbUtil complaintDbUtil;
    @Resource(name="jdbc/web_student_tracker")
    private DataSource dataSource;

    @Override
    public void init() throws ServletException
    {
        try
        {
            complaintDbUtil = new ComplaintDbUtil(dataSource);
        }
        catch(Exception exc)
        {
            throw new ServletException(exc);
        }
    }
}
```

```
protected void doGet(HttpServletRequest request,
HttpServletRequest response) throws ServletException,
IOException
{
    try
    {
        String theCommand =
request.getParameter("command");
        if(theCommand == null)
        {
            theCommand = "LIST";
        }
        switch(theCommand)
        {
            case "LIST": listComplaints(request, response);
                        break;
            case "LOAD": loadComplaint(request, response);
                        break;
            case "UPDATE":
updateComplaint(request,response);
                        break;
            case "DELETE":
deleteComplaint(request,response);
                        break;
            default    : listComplaints(request, response);
        }

    }
    catch(Exception exc)
    {
        throw new ServletException(exc);
    }
}
```

```

    }
}

protected void doPost(HttpServletRequest request,
    HttpServletResponse response) throws ServletException,
    IOException
{
    try
    {
        addComplaint(request,response);
        response.sendRedirect("/complaint/add-product-
form.jsp");
    }
    catch(Exception exc)
    {
        throw new ServletException(exc);
    }
}

private void listComplaints(HttpServletRequest
request, HttpServletResponse response) throws Exception
{
    HttpSession session = request.getSession();
    String user = (String)session.getAttribute("name");
    int uid = (int)session.getAttribute("uid");
    if(user.equals("vimal"))
    {
        List<Complaint> complaints =
complaintDbUtil.getComplaints();
        request.setAttribute("COMPLAINT_LIST",
complaints);
    }
}

```



```
        RequestDispatcher dispatcher =
request.getRequestDispatcher("/list-complaints.jsp");
        dispatcher.forward(request, response);
    }
    else
    {
        List<Complaint> complaints =
complaintDbUtil.getComplaints(uid);
        request.setAttribute("COMPLAINT_LIST",
complaints);
        RequestDispatcher dispatcher =
request.getRequestDispatcher("/list-complaints.jsp");
        dispatcher.forward(request, response);
    }
}

private void deleteComplaint(HttpServletRequest
request, HttpServletResponse response) throws Exception
{
    String theComplaintId =
request.getParameter("complaintId");
    complaintDbUtil.deleteComplaint(theComplaintId);
    listComplaints(request,response);
}

private void updateComplaint(HttpServletRequest
request, HttpServletResponse response) throws Exception
{
    int cId =
Integer.parseInt(request.getParameter("theComplaintId"))
;
}
```

```
String details = request.getParameter("details");
String status = request.getParameter("status");
Complaint theComplaint = new
Complaint(cId,details,status);
    complaintDbUtil.updateComplaint(theComplaint);
    listComplaints(request,response);
}

private void loadComplaint(HttpServletRequest request,
HttpServletResponse response) throws Exception
{
    String theComplaintId =
request.getParameter("complaintId");
    Complaint theComplaint =
complaintDbUtil.getComplaint(theComplaintId);
    request.setAttribute("THE_COMPLAINT", theComplaint);

    RequestDispatcher dispatcher =
request.getRequestDispatcher("/update-complaint-
form.jsp");
    dispatcher.forward(request, response);
}

private void addComplaint(HttpServletRequest request,
HttpServletResponse response) throws Exception
{
    HttpSession session = request.getSession();
    int userId = (int) session.getAttribute("uid");
    String details = request.getParameter("details");
```

```
        Complaint theComplaint = new
Complaint(userId,details);
        complaintDbUtil.addComplaint(theComplaint);
        session.setAttribute("Details", details);
        //listComplaints(request,response);

    }
}
```

---

### **Homepage.java**

```
package com.complaint.HomePage;

public class Home
{
    private int cid;
    private String details;
    private String status;
    private int serialId;
    private String name;
    private String type;
    private String company;
    private String warrantyDate;
    private String rname;
    private int price;
    private String ename;

    public Home(int cid, String details, String status,
int serialId, String name, String type, String company,
        String warrantyDate, String rname, int price,
String ename)
```

```
{
    this.cid = cid;
    this.details = details;
    this.status = status;
    this.serialId = serialId;
    this.name = name;
    this.type = type;
    this.company = company;
    this.warrantyDate = warrantyDate;
    this.rname = rname;
    this.price = price;
    this.ename = ename;
}

public int getCid()
{
    return cid;
}

public void setCid(int cid)
{
    this.cid = cid;
}

public String getDetails()
{
    return details;
}

public void setDetails(String details)
{
```

```
    this.details = details;
}

public String getStatus()
{
    return status;
}

public void setStatus(String status)
{
    this.status = status;
}

public int getSerialId()
{
    return serialId;
}

public void setSerialId(int serialId)
{
    this.serialId = serialId;
}

public String getName()
{
    return name;
}

public void setName(String name)
{
    this.name = name;
}
```

```
}

public String getType()
{
    return type;
}

public void setType(String type)
{
    this.type = type;
}

public String getCompany()
{
    return company;
}

public void setCompany(String company)
{
    this.company = company;
}

public String getWarantyDate()
{
    return warantyDate;
}

public void setWarantyDate(String warantyDate)
{
    this.warantyDate = warantyDate;
}
```

```
public String getRname()
{
    return rname;
}

public void setRname(String rname)
{
    this.rname = rname;
}

public int getPrice()
{
    return price;
}

public void setPrice(int price)
{
    this.price = price;
}

public String getEname()
{
    return ename;
}

public void setEname(String ename)
{
    this.ename = ename;
}
}
```

---

## **HomeControllerServlet.java**

```
package com.complaint.HomePage;

import java.io.IOException;
import java.util.List;

import javax.annotation.Resource;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import javax.sql.DataSource;

import com.complaint.Engineer.Engineer;

@WebServlet("/HomeControllerServlet")
public class HomeControllerServlet extends HttpServlet
{
    private HomeDbUtil homeDbUtil;
    @Resource(name="jdbc/web_student_tracker")
    private DataSource dataSource;

    @Override
    public void init() throws ServletException
    {
```



```
try
{
    homeDbUtil = new HomeDbUtil(dataSource);
}
catch(Exception exc)
{
    throw new ServletException(exc);
}
}
```

```
protected void doGet(HttpServletRequest request,
HttpServletRequest response) throws ServletException,
IOException
```

```
{
    HttpSession session = request.getSession();
    int uid = (int)session.getAttribute("uid");
    String admin=(String)session.getAttribute("name");
    try
    {
        if(admin.equals("vimal"))
        {
            List<Home> homes=homeDbUtil.getHome();
            request.setAttribute("HOME_LIST", homes);
            RequestDispatcher dispatcher =
request.getRequestDispatcher("/list-homes.jsp");
            dispatcher.forward(request, response);
        }
        else
        {
            List<Home> homes=homeDbUtil.getHome(uid);
            request.setAttribute("HOME_LIST", homes);
        }
    }
}
```

```
        RequestDispatcher dispatcher =  
request.getRequestDispatcher("/list-homes.jsp");  
        dispatcher.forward(request, response);  
    }  
}  
catch(Exception exc)  
{  
    throw new ServletException(exc);  
}  
}  
}
```

---

### **Complaint.java**

```
package com.complaint.Replacement;  
  
public class Replacement  
{  
    private int id;  
    private int cId;  
    private String name;  
    private int price;  
  
    public Replacement(int id, String name, int price)  
    {  
        this.id = id;  
        this.name = name;  
        this.price = price;  
    }  
}
```

```
public Replacement(String name, int price)
{
    this.name = name;
    this.price = price;
}

public Replacement(int id, int cId, String name, int
price)
{
    this.id = id;
    this.cId = cId;
    this.name = name;
    this.price = price;
}

public int getcId() {
    return cId;
}

public void setcId(int cId) {
    this.cId = cId;
}

public int getId() {
    return id;
}

public void setId(int id) {
    this.id = id;
}
```

```
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public int getPrice() {
    return price;
}

public void setPrice(int price) {
    this.price = price;
}

}
```

---

### **ReplacementControllerServlet.java**

```
package com.complaint.Replacement;

import java.io.IOException;
import java.util.List;

import javax.annotation.Resource;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
```

```
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.sql.DataSource;

@WebServlet("/ReplacementControllerServlet")
public class ReplacementControllerServlet extends
HttpServlet
{
    private ReplacementDbUtil replacementDbUtil;
    @Resource(name="jdbc/web_student_tracker")
    private DataSource dataSource;

    @Override
    public void init() throws ServletException
    {
        try
        {
            replacementDbUtil = new
ReplacementDbUtil(dataSource);
        }
        catch(Exception exc)
        {
            throw new ServletException(exc);
        }
    }

    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException
```

```
{

    try
    {
        String theCommand =
request.getParameter("command");
        if(theCommand == null)
        {
            theCommand = "LIST";
        }
        switch(theCommand)
        {
            case "LIST": listReplacements(request,
response);
                        break;
            case "LOAD": loadReplacement(request, response);
                        break;
            case "UPDATE":
updateReplacement(request,response);
                        break;
            case "DELETE":
deleteReplacement(request,response);
                        break;
            default    : listReplacements(request, response);
        }

    }
    catch(Exception exc)
    {
        throw new ServletException(exc);
    }
}
```

```
}  
protected void doPost(HttpServletRequest request,  
HttpServletRequest response) throws ServletException,  
IOException  
{  
    try  
    {  
        addReplacement(request,response);  
    }  
    catch(Exception exc)  
    {  
        throw new ServletException(exc);  
    }  
}  
  
private void listReplacements(HttpServletRequest  
request, HttpServletResponse response) throws Exception  
{  
    List<Replacement> replacements =  
replacementDbUtil.getReplacements();  
  
    request.setAttribute("REPLACEMENT_LIST",  
replacements);  
  
    RequestDispatcher dispatcher =  
request.getRequestDispatcher("/list-replacements.jsp");  
    dispatcher.forward(request, response);  
}  
  
private void deleteReplacement(HttpServletRequest  
request, HttpServletResponse response) throws Exception
```

```
{
    String theReplacementId =
request.getParameter("replacementId");

replacementDbUtil.deleteReplacement(theReplacementId);
    listReplacements(request,response);
}

private void updateReplacement(HttpServletRequest request,
HttpServletResponse response) throws Exception
{
    int id =
Integer.parseInt(request.getParameter("theReplacementId"
));
    int cId =
Integer.parseInt(request.getParameter("theComplaintId"))
;
    String name = request.getParameter("name");
    int price =
Integer.parseInt(request.getParameter("price"));
    Replacement theReplacement = new
Replacement(id,cId,name,price);
    replacementDbUtil.updateReplacement(theReplacement);
    listReplacements(request,response);
}

private void loadReplacement(HttpServletRequest
request, HttpServletResponse response) throws Exception
{
    String theReplacementId    =
request.getParameter("replacementId");
```



```

        Replacement theReplacement =
replacementDbUtil.getReplacement(theReplacementId);
        request.setAttribute("THE_REPLACEMENT",
theReplacement);

        RequestDispatcher dispatcher =
request.getRequestDispatcher("/update-replacement-
form.jsp");
        dispatcher.forward(request, response);
    }

    private void addReplacement(HttpServletRequest request
request, HttpServletResponse response) throws Exception
    {
        String name = request.getParameter("name");
        int price =
Integer.parseInt(request.getParameter("price"));
        Replacement theReplacement = new
Replacement(name,price);
        replacementDbUtil.addReplacement(theReplacement);

        listReplacements(request,response);
    }
}

```

---

### **User.java**

```

package com.complaint.User;

public class User
{

```

```
private int id;
private String email;
private String username;
private String password;

public User(int id, String email, String username,
String password)
{
    this.id = id;
    this.email = email;
    this.username = username;
    this.password = password;
}

public User(String email, String username, String
password)
{
    this.email = email;
    this.username = username;
    this.password = password;
}

public User(int id, String email, String username)
{
    this.id = id;
    this.email = email;
    this.username = username;
}

public User(String email, String username)
{
```

```
        this.email = email;
        this.username = username;
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    public String getUsername() {
        return username;
    }

    public void setUsername(String username) {
        this.username = username;
    }

    public String getPassword() {
        return password;
    }
}
```

```
    public void setPassword(String password) {  
        this.password = password;  
    }  
}
```

---

### **UserControllerServlet.java**

```
package com.complaint.User;  
  
import java.io.IOException;  
import java.util.List;  
  
import javax.annotation.Resource;  
import javax.servlet.RequestDispatcher;  
import javax.servlet.ServletException;  
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
import javax.servlet.http.HttpSession;  
import javax.sql.DataSource;  
  
@WebServlet("/UserControllerServlet")  
public class UserControllerServlet extends HttpServlet  
{  
    private UserDbUtil userDbUtil;  
    @Resource(name="jdbc/web_student_tracker")  
    private DataSource dataSource;
```

```
@Override
public void init() throws ServletException
{
    try
    {
        userDbUtil = new UserDbUtil(dataSource);
    }
    catch(Exception exc)
    {
        throw new ServletException(exc);
    }
}
```

```
protected void doGet(HttpServletRequest request,
HttpServletRequest response) throws ServletException,
IOException
{
    try
    {
        String theCommand =
request.getParameter("command");
        if(theCommand == null)
        {
            theCommand = "LIST";
        }
        switch(theCommand)
        {
            case "LIST": listUsers(request, response);
                        break;
            case "LOAD": loadUser(request, response);
```

```

        break;
    case "UPDATE": updateUser(request,response);
        break;
    case "DELETE": deleteUser(request,response);
        break;
    default    : listUsers(request, response);
}

}
catch(Exception exc)
{
    throw new ServletException(exc);
}

}
protected void doPost(HttpServletRequest request,
HttpServletRequest response) throws ServletException,
IOException
{
    try
    {
        addUser(request,response);
    }
    catch(Exception exc)
    {
        throw new ServletException(exc);
    }
}

private void listUsers(HttpServletRequest request,
HttpServletRequest response) throws Exception

```

```

{
    List<User> users = userDbUtil.getUsers();

    request.setAttribute("USER_LIST", users);

    RequestDispatcher dispatcher =
request.getRequestDispatcher("/list-users.jsp");
    dispatcher.forward(request, response);
}

private void deleteUser(HttpServletRequest request,
HttpServletRequest response) throws Exception
{
    String theUserId = request.getParameter("userId");
    userDbUtil.deleteUser(theUserId);
    listUsers(request,response);
}

private void updateUser(HttpServletRequest request,
HttpServletRequest response) throws Exception
{
    int id =
Integer.parseInt(request.getParameter("theUserId"));
    String name = request.getParameter("username");
    String email = request.getParameter("email");
    String password = request.getParameter("password");
    User theUser = new User(id,email,name,password);
    userDbUtil.updateUser(theUser);
    HttpSession session = request.getSession();
    String admin = (String)session.getAttribute("name");
    if(admin.equals("vimal"))

```

```
        {
            listUsers(request,response);
        }
        else
        {

response.sendRedirect("/complaint/HomeControllerServlet"
);
        }
    }

    private void loadUser(HttpServletRequest request,
        HttpServletResponse response) throws Exception
    {
        String theUserId    =
request.getParameter("userId");
        User theUser  = userDbUtil.getUser(theUserId);
        request.setAttribute("THE_USER", theUser);
        RequestDispatcher dispatcher =
request.getRequestDispatcher("/update-user-form.jsp");
        dispatcher.forward(request, response);
    }

    private void addUser(HttpServletRequest request,
        HttpServletResponse response) throws Exception
    {
        String name  = request.getParameter("name");
        String email  = request.getParameter("email");
        String password1  =
request.getParameter("password1");
```



```

    String password2  =
request.getParameter("password2");
    HttpSession session = request.getSession();
    String admin;
    User theUser;
    admin = (String)session.getAttribute("name");
    if(admin==null)
    {
        admin="";
    }
    if(password1.equals(password2))
    {

        theUser = new User(email,name,password1);
        userDbUtil.addUser(theUser);
        if(admin.equals("vimal"))
        {
            listUsers(request,response);
        }
        else if(admin.equals(""))
        {
            response.sendRedirect("/complaint/login.jsp");
        }
    }
}
}

```

---

## **Context.xml**

```
<Context>
```

```
<Resource name="jdbc/web_student_tracker"
auth="Container" type="javax.sql.DataSource"
maxActive="20" maxIdle="5" maxWait="10000"
username="webstudent" password="webstudent"
driverClassName="com.mysql.jdbc.Driver"
url="jdbc:mysql://localhost:3306/web_student_tracker"
/>
</Context>
```

---

=====X=====