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Spring & Hibernate Lab assessment

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Question:

Q17) Online Petition Management System.

Property	Type
PetitionID	Int
Category	String
Desc	String
Priority	String
RaisedBy	String
AssignedTo	String
Status	String

Answer:

Database:

 MySQL 8.0 Command Line Client

```
mysql> create database opms_db;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> use opms_db;
Database changed
```

```
mysql> show tables;
```

```
+-----+
| Tables_in_opms_db |
+-----+
| petition          |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> desc petition;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| petitionId | int       | NO   | PRI | NULL    | auto_increment |
| assignedTo | varchar(255) | YES  |     | NULL    |              |
| category   | varchar(255) | YES  |     | NULL    |              |
| description | varchar(255) | YES  |     | NULL    |              |
| priority   | varchar(255) | YES  |     | NULL    |              |
| raisedBy   | varchar(255) | YES  |     | NULL    |              |
| status     | varchar(255) | YES  |     | NULL    |              |
+-----+-----+-----+-----+-----+-----+
```

```
7 rows in set (0.00 sec)
```

Folder Structure:

Project Explorer

OnlinePetitionManagementSystem

Deployment Descriptor: Archetype Created Web Application

Java Resources

src/main/java

Deployment Descriptor: Archetype Created Web Application

com.opms.bean

Deployment Descriptor: Archetype Created Web Application

Petition.java

com.opms.controller

Deployment Descriptor: Archetype Created Web Application

PetitionController.java

com.opms.dao

Deployment Descriptor: Archetype Created Web Application

PetitionDAO.java

com.opms.util

Deployment Descriptor: Archetype Created Web Application

HibernateUtil.java

src/main/resources

Deployment Descriptor: Archetype Created Web Application

hibernate.cfg.xml

src/test/java

src/test/resources

target/generated-sources/annotations

target/generated-test-sources/test-annotations

Libraries

Deployed Resources

src

main

java

resources

hibernate.cfg.xml

webapp

WEB-INF

Views

Delete.jsp

HeadingPage.jsp

Home.jsp

Insert.jsp

Insert.jsp

Search.jsp

Update.jsp

spring-servlet.xml

web.xml

index.jsp

test

target

pom.xml

Servers

Coding:

com.opms.bean: Petition.java

```
package com.opms.bean;
```

```
import jakarta.persistence.Entity;
```

```
import jakarta.persistence.GeneratedValue;
```

```
import jakarta.persistence.GenerationType;
```

```
import jakarta.persistence.Id;
```

```
import jakarta.persistence.Table;
```

```
@Entity
```

```
@Table
```

```
public class Petition {
```

```
@Id
```

```
@GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
private int petitionId;
```

```
private String category;
```

```
private String description;
```

```
private String priority;
```

```
private String raisedBy;
```

```
private String assignedTo;
```

```
private String status;
```

```
public Petition() {
```

```
super();
```

```
}
```

```
public Petition(int petitionId, String category, String desc, String priority, String  
raisedBy, String assignedTo,
```

```
String status) {
```

```
this.petitionId = petitionId;  
this.category = category;  
this.description = desc;  
this.priority = priority;  
this.raisedBy = raisedBy;  
this.assignedTo = assignedTo;  
this.status = status;  
}
```

```
public int getPetitionId() {  
return petitionId;  
}
```

```
public void setPetitionId(int petitionId) {  
this.petitionId = petitionId;  
}
```

```
public String getCategory() {  
return category;  
}
```

```
public void setCategory(String category) {  
this.category = category;  
}
```

```
public String getDescription() {  
return description;  
}
```

```
public void setDescription(String description) {  
    this.description = description;  
}
```

```
public String getPriority() {  
    return priority;  
}
```

```
public void setPriority(String priority) {  
    this.priority = priority;  
}
```

```
public String getRaisedBy() {  
    return raisedBy;  
}
```

```
public void setRaisedBy(String raisedBy) {  
    this.raisedBy = raisedBy;  
}
```

```
public String getAssignedTo() {  
    return assignedTo;  
}
```

```
public void setAssignedTo(String assignedTo) {  
    this.assignedTo = assignedTo;  
}
```

```
public String getStatus() {  
    return status;  
}
```

```
}
```

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

```
}
```

Com.opms.dao: PetitionDAO.java

```
package com.opms.dao;
```

```
import java.util.ArrayList;
```

```
import org.hibernate.Session;
```

```
import org.hibernate.Transaction;
```

```
import com.opms.bean.Petition;
```

```
import com.opms.util.HibernateUtil;
```

```
public class PetitionDAO {
```

```
    public ArrayList<Integer> getIdList(){  
        ArrayList<Integer> list = new ArrayList<Integer>();  
        Session session = HibernateUtil.getSession();
```

```
list = (ArrayList<Integer>) session.createQuery("select petitionId from  
Petition").list();  
session.close();  
return list;  
}
```

```
public boolean insertPetition(Petition v) {
```

```
boolean flag=false;
```

```
try {
```

```
Session session = HibernateUtil.getSession();
```

```
Transaction tran = session.beginTransaction();
```

```
session.persist(v);
```

```
tran.commit();
```

```
session.close();
```

```
flag=true;
```

```
} catch (Exception e) {
```

```
e.printStackTrace();
```

```
}
```

```
return flag;
```

```
}
```

```
public boolean updatePetition(Petition v) {
```

```
boolean flag=false;
```

```
try {
```

```
Session session = HibernateUtil.getSession();
```



```
Petition p = session.get(Petition.class, v.getPetitionId());  
if(p != null) {  
    p.setCategory(v.getCategory());  
    p.setDescription(v.getDescription());  
    p.setPriority(v.getPriority());  
    p.setRaisedBy(v.getRaisedBy());  
    p.setAssignedTo(v.getAssignedTo());  
    p.setStatus(v.getStatus());  
    Transaction tran = session.beginTransaction();  
    session.update(p);  
    tran.commit();  
    flag=true;  
    session.close();  
}  
} catch (Exception e) {  
    e.printStackTrace();  
}  
  
return flag;  
}
```

```
public Petition getPetition(Petition v) {  
    try {  
        Session session = HibernateUtil.getSession();  
        Petition p = session.get(Petition.class, v.getPetitionId());  
        session.close();  
        return p;  
    }  
}
```

```
} catch (Exception e) {  
e.printStackTrace();  
}
```

```
return null;  
}
```

```
public Boolean deletePetition(Petition v) {  
boolean flag = false;
```

```
try {  
Session session = HibernateUtil.getSession();  
Petition p = session.get(Petition.class, v.getPetitionId());  
if(p != null) {  
Transaction tran = session.beginTransaction();  
session.delete(p);  
tran.commit();  
flag= true;  
session.close();  
}  
} catch (Exception e) {  
e.printStackTrace();  
}  
return flag;  
}
```

```
public ArrayList<Petition> getPetitionList(){
```

```
ArrayList<Petition> list = new ArrayList<Petition>();  
Session session = HibernateUtil.getSession();  
list = (ArrayList<Petition>) session.createQuery("from Petition").list();  
session.close();  
return list;  
}  
  
}
```

Com.opms.controller: PetitionController.java

```
package com.opms.controller;
```

```
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Controller;  
import org.springframework.web.bind.annotation.GetMapping;  
import org.springframework.web.bind.annotation.ModelAttribute;  
import org.springframework.web.bind.annotation.PostMapping;  
import org.springframework.web.bind.annotation.RequestParam;  
import org.springframework.web.servlet.ModelAndView;
```

```
import com.opms.bean.Petition;  
import com.opms.dao.PetitionDAO;
```

```
@Controller
```

```
public class PetitionController {
```

```
@Autowired
```

PetitionDAO dao;

```
@GetMapping("HeadingPage")  
public ModelAndView loadHeading() {  
return new ModelAndView("HeadingPage");  
}
```

```
@GetMapping("insert")  
public ModelAndView loadInsert() {  
return new ModelAndView("Insert");  
}
```

```
@GetMapping("update")  
public ModelAndView loadUpdate() {  
return new ModelAndView("Update").addObject("keys",dao.getIdList());  
}
```

```
@GetMapping("search")  
public ModelAndView loadSearch() {  
return new ModelAndView("Search").addObject("keys",dao.getIdList());  
}
```

```
@GetMapping("delete")  
public ModelAndView loadDelete() {  
return new ModelAndView("Delete").addObject("keys",dao.getIdList());  
}
```

```
@GetMapping("home")  
public ModelAndView loadHome() {  
return new  
ModelAndView("Home").addObject("list",dao.getPetitionList());  
}
```

```
@PostMapping("InsertPetition")  
public ModelAndView doinsert(@ModelAttribute("beanclass")Petition p)  
{  
  
if(dao.insertPetition(p))  
return new ModelAndView("Insert").addObject("msg", "success");  
  
return new ModelAndView("Insert").addObject("msg", "failure");  
}
```

```
@PostMapping("fetch")  
public ModelAndView doFetch(@ModelAttribute("beanclass1")Petition v)  
{  
  
if(dao.getPetition(v)!= null)  
return new ModelAndView("Update").addObject("bean",  
dao.getPetition(v)).addObject("keys",dao.getIdList());  
  
return new ModelAndView("Update").addObject("keys",dao.getIdList());  
}
```

```
@PostMapping("UpdatePetition")  
public ModelAndView doUpdate(@ModelAttribute("beanclass2")Petition  
v) {
```

```
if(dao.updatePetition(v))  
  
return new  
ModelAndView("Update").addObject("keys",dao.getIdList()).addObject(  
"msg", "success");
```

```
  
return new  
ModelAndView("Update").addObject("keys",dao.getIdList()).addObject(  
"msg", "failure");  
}
```

```
@PostMapping("SearchPetition")  
  
public ModelAndView doSearch(@ModelAttribute("beanclass")Petition v)  
{
```

```
  
if(dao.getPetition(v)!= null)  
  
return new  
ModelAndView("Search").addObject("keys",dao.getIdList()).addObject("msg", "success").addObject("bean", dao.getPetition(v));
```

```
  
return new  
ModelAndView("Search").addObject("keys",dao.getIdList()).addObject("msg", "failure");  
}
```

```
@PostMapping("DeletePetition")  
  
public ModelAndView doDelete(@ModelAttribute("beanclass")Petition v)  
{
```

```
  
if(dao.deletePetition(v))
```

```
return new  
ModelAndView("Delete").addObject("keys",dao.getIdList()).addObject("msg", "success");
```

```
return new  
ModelAndView("Delete").addObject("keys",dao.getIdList()).addObject("msg", "failure");  
}
```

```
@GetMapping("findall")
```

```
public ModelAndView doAction(@RequestParam("action") String  
action,@RequestParam("vehicleId") Integer id) {
```

```
if(action.equals("edit")) {
```

```
Petition v = new Petition();
```

```
v.setPetitionId(id);
```

```
return new
```

```
ModelAndView("Home").addObject("list",dao.getPetitionList()).addObject("bean", dao.getPetition(v));
```

```
}else if(action.equals("delete")) {
```

```
Petition v = new Petition();
```

```
v.setPetitionId(id);
```

```
dao.deletePetition(v);
```

```
return new
```

```
ModelAndView("Home").addObject("list",dao.getPetitionList());
```

```
}
```

```
return new  
ModelAndView("Home").addObject("list",dao.getPetitionList());  
  
}
```

```
@PostMapping("SaveUpdate")  
public ModelAndView doSave(@ModelAttribute("beanclass1")Petition v)  
{  
    dao.updatePetition(v);  
    return new  
    ModelAndView("Home").addObject("list",dao.getPetitionList());  
}
```

```
@GetMapping("back")  
public ModelAndView doBack() {  
    return new  
    ModelAndView("Home").addObject("list",dao.getPetitionList());  
}
```

```
@PostMapping("AddPetition")  
public ModelAndView doAdd(@ModelAttribute("beanclass2")Petition v) {  
    dao.insertPetition(v);  
    return new  
    ModelAndView("Home").addObject("list",dao.getPetitionList());  
}  
}
```

Com.opms.util: HibernateUtil.java


```
package com.opms.util;
```

```
import org.hibernate.Session;
```

```
import org.hibernate.SessionFactory;
```

```
import org.hibernate.cfg.Configuration;
```

```
public class HibernateUtil {
```

```
public static Session getSession() {
```

```
Configuration cfg = new Configuration().configure("hibernate.cfg.xml");
```

```
SessionFactory factory = cfg.buildSessionFactory();
```

```
Session session = factory.openSession();
```

```
return session;
```

```
}
```

```
}
```

Views:

Index.jsp:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>OPMS</title>
</head>
<body>

<iframe src="HeadingPage" width="100%" height="200px"
style="border:none"></iframe>
<iframe src="home" width="100%" height="513px" name="Operation"
style="border:none"></iframe>
</body>
</html>
```

HeadingPage.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Library Management System</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap
.min.css" rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
<style>
body{
background-image: url('https://img.freepik.com/free-
photo/background-gradient-lights_23-2149304982.jpg');
background-size: cover;
}
#title{
box-shadow: 5px 5px 5px 5px rgba(0,0,0,0.5);
text-align:center;
font-size: 36px;
font-weight: bold;
```

```
margin-left: 400px;
margin-top: 10px;
}
#links{
margin-top: 33px;
}
li{
margin-left: 10px;
}
#form{
margin-left: 700px;
width: 300px;
}
</style>
</head>
<body>
<div class="card card-body w-50" id="title">Online Petition
Management System</div>
<nav class="navbar navbar-expand-lg navbar-light bg-light"
id="links">
<div class="container-fluid">
<div class="collapse navbar-collapse">
<ul class="navbar-nav">
<li class="nav-item">
<a class="nav-link active" href="home" target="Operation"><button
class="btn btn-outline-success">Home</button></a>
</li>
<li class="nav-item">
<a class="nav-link" href="insert" target="Operation"><button
class="btn btn-outline-success">Insert</button></a>
</li>
<li class="nav-item">
<a class="nav-link" href="update" target="Operation"><button
class="btn btn-outline-success">Update</button></a>
</li>
<li class="nav-item">
<a class="nav-link" href="search" target="Operation"><button
class="btn btn-outline-success">Search</button></a>
</li>
<li class="nav-item">
<a class="nav-link" href="delete" target="Operation"><button
class="btn btn-outline-danger">Delete</button></a>
</li>
</ul>
</div>
</div>
```

```
</nav>
</body>
</html>
```

Home.jsp:

```
<%@page import="com.opms.bean.Petition"%>
<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Home Page</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstra
p.min.css" rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWFspD3yD65VohhpUuCOmLASjC"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.11.3/font/bootstrap-icons.min.css">
<style>
body{
background-image:
url('https://media.licdn.com/dms/image/D4D12AQE4InJUdCby9g/article-
cover_image-
shrink_720_1280/0/1701464584710?e=2147483647&v=beta&t=kc8sbUtIDm6sL-
g-_9HhJ7N1Ty9Md6aa3EYkJbAAWjg');
background-size: cover;
margin-left: 160px;
margin-top: 30px;
}
#display{
border-radius: 5px;
background-color: rgba(255,255,255);
padding: 20px;
width: 1200px;
height: auto;
}
a{
padding-left: 10px;
}
</style>
</head>
<body>
<div id="display">
```

```

<% ArrayList<Petition> list =
(ArrayList<Petition>)request.getAttribute("list");%>
<div class="text-center shadow p-3 bg-body rounded h3 mb-3">No of
Record : <%=list.size()%></div>
<table class="table table-bordered table-hover text-center shadow">
<thead>
<tr class="table-primary">
<th scope="col" >Petition Id</th>
<th scope="col" >Category</th>
<th scope="col" >Description</th>
<th scope="col" >Priority</th>
<th scope="col" >Raised By</th>
<th scope="col" >Assigned To</th>
<th scope="col" class="col-3">Action</th>
</tr>
</thead>
<tbody>
<%
Petition v = (Petition)request.getAttribute("bean");
for(Petition b : list){
    if(v != null && v.getPetitionId()==b.getPetitionId()){
out.print("<form action='SaveUpdate' method='post'
modelAttribute='beanclass1'>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='petitionId' placeholder='petitionId'
value='"+b.getPetitionId()+"' readonly><label
for='petitionId'>Petition Id</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='category' placeholder='Category'
value='"+b.getCategory()+"' autocomplete='off'><label
for='category'>Category</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='description' placeholder='Description'
value='"+b.getDescription()+"' autocomplete='off'><label
for='description'>Description</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='priority' placeholder='Priority'
value='"+b.getPriority()+"' autocomplete='off'><label
for='priority'>Priority</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='raisedBy' placeholder='RaisedBy'
value='"+b.getRaisedBy()+"' autocomplete='off'><label
for='raisedBy'>Raised By</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='assignedTo' placeholder='Assigned To'

```

```

value='"+b.getAssignedTo()+"' autocomplete='off'><label
for='assignedTo'>Assigned To</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='status' placeholder='Status'
value='"+b.getStatus()+"' autocomplete='off'><label
for='status'>Priority</label></div></td>");
out.print("<td><button class='btn btn-success ms-2' type='submit'
name='action' id='butt'><i class='bi bi-save'></i> save</button><a
href='back'><button type='button' class='btn btn-success '
id='butt'><i class='bi bi-arrow-left'></i>
Back</button></a></td></tr></form>");
    }else{
out.print("<tr><td>"+b.getPetitionId()+"</td><td>"+b.getCategory()+"
</td><td>"+b.getDescription()+"</td><td>"+b.getPriority()+"</td><td>
"+b.getRaisedBy()+"</td><td>"+b.getAssignedTo()+"</td><td>"+b.getSta
tus()+"</td><td><a
href='findall?action=edit&vehicleId="+b.getPetitionId()+"'
target='Operation'><button class='btn btn-primary'><i class='bi bi-
pencil-square'></i> edit</button></a><a
href='findall?action=delete&vehicleId="+b.getPetitionId()+"'
target='Operation'><button class='btn btn-danger'><i class='bi bi-
trash'></i> delete</button></a></td></tr>");
    }
}
out.print("<form action='AddPetition' method='post'
modelAttribute='beanclass2'>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='petitionId' placeholder='petitionId'
disabled><label for='petitionId'>Petition Id</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='category' placeholder='Category'
autocomplete='off'><label
for='category'>Category</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='description' placeholder='Description'
autocomplete='off'><label
for='description'>Description</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='priority' placeholder='Priority'
autocomplete='off'><label
for='priority'>Priority</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='raisedBy' placeholder='RaisedBy'
autocomplete='off'><label for='raisedBy'>Raised
By</label></div></td>");

```

```

out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='assignedTo' placeholder='Assigned To'
autocomplete='off'><label for='assignedTo'>Assigned
To</label></div></td>");
out.print("<td><div class='form-floating'><input type='text'
class='form-control' name='status'
placeholder='Status' autocomplete='off'><label
for='status'>Status</label></div></td>");
out.print("<td><button class='btn btn-success ms-2' type='submit'
name='action' id='butt'><i class='bi bi-plus-square'></i>
add</button></td></tr></form>");
%>
</tbody>
</table>
</div>
</body>
</html>

```

Insert.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert Page</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstra
p.min.css" rel="stylesheet" integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2HN"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.11.3/font/bootstrap-icons.min.css">
<style type="text/css">
body{
background-image:
url('https://media.licdn.com/dms/image/D4D12AQE4InJUdCby9g/article-
cover_image-
shrink_720_1280/0/1701464584710?e=2147483647&v=beta&t=kc8sbUtIDm6sL-
g-_9HhJ7N1Ty9Md6aa3EYkJbAAWjg');
background-size: cover;
margin-left: 480px;
margin-top: 30px;
}
#form{

```

```

border-radius: 5px;
background-color: rgba(255,255,255);
padding: 20px;
width: 600px;
height: auto;
}
#newbutt{
width: 150px;
margin-left: 250px;
border-radius: 5px;
}
#butt{
width: 150px;
}
</style>
</head>
<body>
<div id="form">
<form action="InsertPetition" method="post" class="row g-3"
modelAttribute="beanclass">
<div class="text-center shadow p-3 bg-body rounded h2 text-
primary">Enter Petition details to Insert</div>
<div class="row g-2">
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="category"
placeholder="Category" autocomplete="off" required="required">
<label for="category">Category</label>
</div>
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="description"
placeholder="Description" autocomplete="off" required="required">
<label for="description">Description</label>
</div>
</div>
<div class="row g-2">
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="priority"
placeholder="Priority" autocomplete="off" required="required">
<label for="priority">Priority</label>
</div>
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="raisedBy"
placeholder="RaisedBy" autocomplete="off" required="required">
<label for="raisedBy">Raised By</label>
</div>
</div>

```



```

<div class="row g-2">
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="assignedTo"
placeholder="AssignedTo" autocomplete="off" required="required">
<label for="assignedTo">Assigned To</label>
</div>
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="status"
placeholder="Status" autocomplete="off" required="required">
<label for="status">Status</label>
</div>
</div>
<% String msg = (String)request.getAttribute("msg");
if(msg != null){
if(msg.equals("success")){
out.print("<div class='alert alert-success' role='alert'><i
class='bi bi-check-circle'></i> Record Insert Successfully</div>");
}else{
out.print("<div class='alert alert-danger' role='alert'><i class='bi
bi-exclamation-circle-fill'></i> Insertion Failure</div>");
}
}

%>
<div class="input-group">
<a href="back"><button type="button" class="btn btn-success"
id="butt"><i class="bi bi-arrow-left"></i> Back</button></a>
<button type="submit" class="btn btn-success" name="button"
id="newbutt"><i class="bi bi-plus-square"></i> Insert</button>
</div>
</form>
</div>
</body>
</html>

```

Update.jsp:

```

<%@page import="com.opms.bean.Petition"%>
<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">

```

```

<title>Update Page</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap
p.min.css" rel="stylesheet" integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2HN"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.11.3/font/bootstrap-icons.min.css">
<style type="text/css">
body{
background-image:
url('https://media.licdn.com/dms/image/D4D12AQE4InJUdCby9g/article-
cover_image-
shrink_720_1280/0/1701464584710?e=2147483647&v=beta&t=kc8sbUtIDm6sL-
g-_9HhJ7N1Ty9Md6aa3EYkJbAAWjg');
background-size: cover;
margin-left: 480px;
margin-top: 30px;
}
#form{
border-radius: 5px;
background-color: rgba(255,255,255);
padding: 20px;
width: 600px;
height: auto;
}
#newbutt{
width: 150px;
margin-left: 220px;
border-radius: 5px;
}
#butt{
width: 150px;
}
</style>
</head>
<body>
<div id="form" class="row g-3" >
<form action="fetch" method="post" modelAttribute="beanclass1">
<div class="text-center shadow p-3 bg-body rounded h3 text-primary
mb-3">Enter Petition details to Update</div>
<div class="input-group input-group-lg">
<span class="input-group-text col-5">Select Petition Id</span>
<select class="form-select col-4" name="petitionId">
<option selected value="-1">Choose</option>

```

```

    <% ArrayList<Integer> list =
(ArrayList<Integer>)request.getAttribute("keys");
    for(Integer i : list){
    %>
    <option value="<%=i%>"><%=i%></option>
    <%}%>
    </select>
    <button type="submit" class="btn btn-success col-3"
name="button"><i class="bi bi-download"></i> Fetch</button>
</div>
</form>
<form action="UpdatePetition" method="post" class="row g-3"
modelAttribute="beanclass2" >
<% Petition v = (Petition)request.getAttribute("bean");
if(v != null){
%>

<div class="row g-2">
<div class="form-floating col-sm-12">
<input type="text" class="form-control bg-secondary"
name="petitionId" placeholder="PetitionId"
value="<%=v.getPetitionId() %>" readonly>
<label for="petitionId">Petition Id</label>
</div>
</div>

<div class="row g-2">
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="category"
placeholder="Category" value="<%=v.getCategory()%>"
autocomplete="off" required="required">
<label for="category">Category</label>
</div>
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="description"
placeholder="Description" value="<%=v.getDescription()%>"
autocomplete="off" required="required">
<label for="description">Description</label>
</div>
</div>
<div class="row g-2">
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="priority"
placeholder="Priority" value="<%=v.getPriority()%>"
autocomplete="off" required="required">
<label for="priority">Priority</label>

```

```

</div>
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="raisedBy"
placeholder="RaisedBy" value="<%=v.getRaisedBy()%>"
autocomplete="off" required="required">
<label for="raisedBy">Raised By</label>
</div>
</div>
<div class="row g-2">
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="assignedTo"
placeholder="AssignedTo" value="<%=v.getAssignedTo()%>"
autocomplete="off" required="required">
<label for="assignedTo">Assigned To</label>
</div>
<div class="form-floating col-sm-6">
<input type="text" class="form-control" name="status"
placeholder="Status" value="<%=v.getStatus()%>" autocomplete="off"
required="required">
<label for="status">Status</label>
</div>
</div>
<%=}%>
<% String msg = (String)request.getAttribute("msg");
if(msg != null){
if(msg.equals("success")){
out.print("<div class='alert alert-success' role='alert'><i
class='bi bi-check-circle'></i> Record updated Successfully</div>");
}else{
out.print("<div class='alert alert-danger' role='alert'><i class='bi
bi-exclamation-circle-fill'></i> Updation Failure</div>");
}
}
}

%>
<div class="input-group">
<a href="back"><button type="button" class="btn btn-success"
id="butt"><i class="bi bi-arrow-left"></i> Back</button></a>
<button type="submit" class="btn btn-success" name="button"
id="newbutt"><i class="bi bi-arrow-repeat"></i> Update</button>
</div>
</form>
</div>
</body>
</html>

```

Search.jsp

```
<%@page import="com.opms.bean.Petition"%>
<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Search Page</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2HN"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-icons.min.css">
<style type="text/css">
body{
background-image:
url('https://media.licdn.com/dms/image/D4D12AQE4InJUdCby9g/article-cover_image-shrink_720_1280/0/1701464584710?e=2147483647&v=beta&t=kc8sbUtIDm6sl-g-_9HhJ7N1Ty9Md6aa3EYkJbAAWjg');
background-size: cover;
margin-left: 480px;
margin-top: 50px;
}
#form{
border-radius: 5px;
background-color: rgba(255,255,255);
padding: 20px;
width: 600px;
height: auto;
}
#butt{
width: 150px;
margin-left: 400px;
}
</style>
</head>
<body>
<div id="form" class="row g-3">
<form action="SearchPetition" method="post"
modelAttribute="beanclass">
```

```

<div class="text-center shadow p-2 bg-body rounded h3 text-primary
mb-3">Search Here...</div>
<div class="input-group input-group-lg ">
<span class="input-group-text col-5">Select Petition Id</span>
<select class="form-select col-4" name="petitionId">
<option selected value="0">Choose</option>
<% ArrayList<Integer> list =
(ArrayList<Integer>)request.getAttribute("keys");
for(Integer i : list){
    %>
    <option value="<%=i%>"><%=i%></option>
    <%}%>
</select>
<button type="submit" class="btn btn-success col-3" name="button"><i
class="bi bi-search"></i> Search</button>
</div>
</form>
<% String msg = (String)request.getAttribute("msg");
if(msg != null){
if(msg.equals("success")){
Petition v =(Petition)request.getAttribute("bean");
out.print("<div class='alert alert-success' role='alert'><i
class='bi bi-check-circle'></i> Record Found Successfully</div>");
out.print("<table class='table'><tr class='table-
primary'><th>Petition
Id</th><th>Category</th><th>Description</th><th>Priority</th><th>Rai
sed By</th><th>Assigned To</th><th>Status</th></tr>");
out.print("<tr><td>" +v.getPetitionId()+"</td><td>" +v.getCategory()+"
</td><td>" +v.getDescription()+"</td><td>" +v.getPriority()+"</td><td>
"+v.getRaisedBy()+"</td><td>" +v.getAssignedTo()+"</td><td>" +v.getSta
tus()+"</td></tr></table>");
}else{
out.print("<div class='alert alert-danger' role='alert'><i class='bi
bi-exclamation-circle-fill'></i> Search not found</div>");
}
}
%>
<a href="back"><button type="button" class="btn btn-success"
id="butt"><i class="bi bi-arrow-left"></i> Back</button></a>
</div>
</body>
</html>

```

Delete.jsp

```

<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Delete Page</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstra
p.min.css" rel="stylesheet" integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2HN"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.11.3/font/bootstrap-icons.min.css">
<style type="text/css">
body{
background-image:
url('https://media.licdn.com/dms/image/D4D12AQE4InJUdCby9g/article-
cover_image-
shrink_720_1280/0/1701464584710?e=2147483647&v=beta&t=kc8sbUtIDm6sL-
g-_9HhJ7N1Ty9Md6aa3EYkJbAAWjg');
background-size: cover;
margin-left: 480px;
margin-top: 50px;
}
#form{
border-radius: 5px;
background-color: rgba(255,255,255);
padding: 20px;
width: 600px;
height: auto;
}
#butt{
width: 150px;
margin-left: 400px;
}
</style>
</head>
<body>
<div id="form" class="row g-3">
<form action="DeletePetition" method="post"
modelAttribute="beanclass">
<div class="text-center shadow p-2 bg-body rounded h3 text-primary
mb-3">Delete here</div>
<div class="input-group input-group-lg shadow">

```

```

<span class="input-group-text col-5">Select Petition Id</span>
<select class="form-select col-4" name="petitionId">
<option selected value="-1">Choose</option>
<% ArrayList<Integer> list =
(ArrayList<Integer>)request.getAttribute("keys");
for(Integer i : list){
    %>
    <option value="<%=i%>"><%=i%></option>
    <%}%>
</select>
<button type="submit" class="btn btn-danger col-3" name="button"><i
class="bi bi-trash"></i> Delete</button>
</div>
</form>
<% String msg = (String)request.getAttribute("msg");
if(msg != null){
if(msg.equals("success")){
out.print("<div class='alert alert-success' role='alert'><i
class='bi bi-check-circle'></i> Record deleted Successfully</div>");

}else{
out.print("<div class='alert alert-danger' role='alert'><i class='bi
bi-exclamation-circle-fill'></i> Deletion Failure</div>");
}
}

%>
<a href="back"><button type="button" class="btn btn-success"
id="butt"><i class="bi bi-arrow-left"></i> Back</button></a>
</div>
</body>
</html>

```

XML – Files:

Spring-servlet.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:context="http://www.springframework.org/schema/context"
xmlns:mvc="http://www.springframework.org/schema/mvc"
xsi:schemaLocation="
http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd

```


<http://www.springframework.org/schema/context>
<http://www.springframework.org/schema/context/spring-context.xsd>
<http://www.springframework.org/schema/mvc>
[http://www.springframework.org/schema/mvc/spring-mvc.xsd">](http://www.springframework.org/schema/mvc/spring-mvc.xsd)
 <!--Provide support for conversion, formatting and validation -->
 <context:component-scan base-package="com.opms.controller" />
 <bean
 class="org.springframework.web.servlet.view.InternalResourceViewResolver">
 <property name="prefix" value="/WEB-INF/Views/" />
 <property name="suffix" value=".jsp" />
 </bean>
 <bean id="dao" class="com.opms.dao.PetitionDAO"></bean>
 </beans>

Web.xml

```

<!DOCTYPE web-app PUBLIC
"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
"http://java.sun.com/dtd/web-app_2_3.dtd" >

<web-app>
<display-name>Archetype Created Web Application</display-name>
<servlet>
<servlet-name>spring</servlet-name>
<servlet-
class>org.springframework.web.servlet.DispatcherServlet</servlet-
class>
<load-on-startup>1</load-on-startup>
</servlet>
<servlet-mapping>
<servlet-name>spring</servlet-name>
<url-pattern>/</url-pattern>
</servlet-mapping>
</web-app>
  
```

Hibernate.cfg.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC
"-//Hibernate/Hibernate Configuration DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
<session-factory>
  
```

```

<property
name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</prop
erty>
<property
name="hibernate.connection.password">sam@6383587926</property>
<property
name="hibernate.connection.url">jdbc:mysql://localhost:3306/opms_db<
/property>
<property name="hibernate.connection.username">root</property>
<property
name="hibernate.dialect">org.hibernate.dialect.MySQL8Dialect</proper
ty>
<property name="hbm2ddl.auto">update</property>
<mapping class="com.opms.bean.Petition"/>
</session-factory>
</hibernate-configuration>

```

Pom.xml

```

<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4\_0\_0.xsd">
<modelVersion>4.0.0</modelVersion>
<groupId>com.sample.maven</groupId>
<artifactId>OnlinePetitionManagementSystem</artifactId>
<packaging>war</packaging>
<version>0.0.1-SNAPSHOT</version>
<name>OnlinePetitionManagementSystem Maven Webapp</name>
<url>http://maven.apache.org</url>
<dependencies>
<dependency>
<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>3.8.1</version>
<scope>test</scope>
</dependency>
<dependency>
<groupId>org.springframework</groupId>
<artifactId>spring-webmvc</artifactId>
<version>6.1.3</version>
</dependency>
<!--
https://mvnrepository.com/artifact/jakarta.servlet/jakarta.servlet-
api -->

```

```

<dependency>
<groupId>jakarta.servlet</groupId>
<artifactId>jakarta.servlet-api</artifactId>
<version>6.0.0</version>
<scope>provided</scope>
</dependency>

<!-- https://mvnrepository.com/artifact/org.hibernate.orm/hibernate-core -->
<dependency>
<groupId>org.hibernate.orm</groupId>
<artifactId>hibernate-core</artifactId>
<version>6.3.1.Final</version>
</dependency>
<!-- https://mvnrepository.com/artifact/com.mysql/mysql-connector-j -->
<dependency>
<groupId>com.mysql</groupId>
<artifactId>mysql-connector-j</artifactId>
<version>8.0.33</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.springframework/spring-orm -->
<dependency>
<groupId>org.springframework</groupId>
<artifactId>spring-orm</artifactId>
<version>6.1.3</version>
</dependency>
</dependencies>
<build>
<finalName>OnlinePetitionManagementSystem</finalName>
</build>
</project>

```

--	--

OutPut

Insert Page:

Online Petition Management System

Home Insert Update Search Delete

Enter Petition details to Insert

Category Category2	Description Description2
Priority Medium Priority	Raised By Person2
Assigned To Assignee2	Status Incomplete

← Back ➦ Insert

Insert Success:

Online Petition Management System

Home Insert Update Search Delete

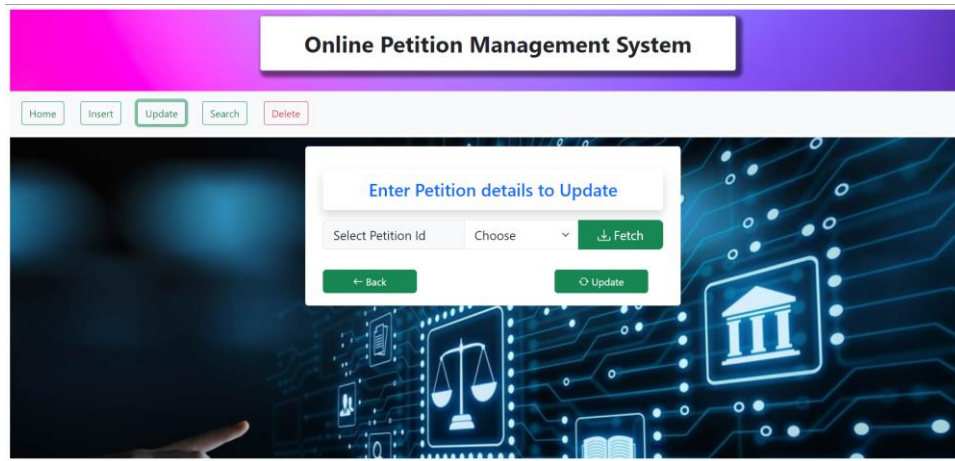
Enter Petition details to Insert

Category	Description
Priority	Raised By
Assigned To	Status

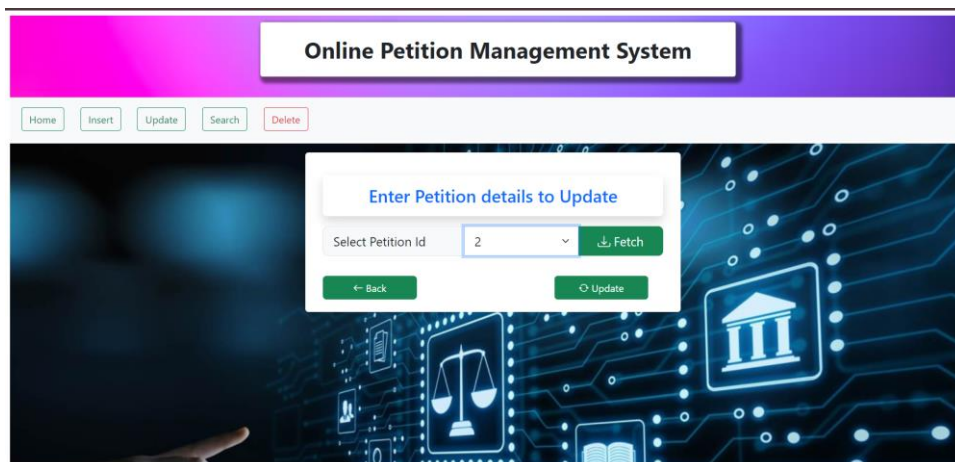
✔ Record Insert Successfully

← Back ➦ Insert

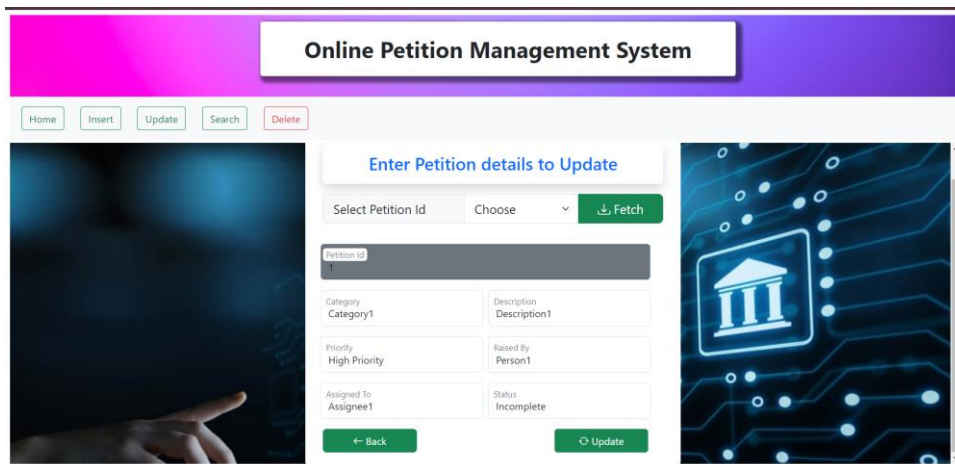
Update Page:



Update Fetch page:



Update After Fetch:



Update Success Page:

The screenshot shows the 'Update Success' page of the 'Online Petition Management System'. The page has a purple header with the system name. Below the header is a navigation bar with buttons: Home, Insert, Update, Search, and Delete. The main content area features a dark blue background with a circuit pattern and icons of a scale of justice, a book, and a classical building. A white modal box is centered on the screen with the title 'Enter Petition details to Update'. Inside the modal, there is a 'Select Petition Id' field with a dropdown menu showing 'Choose' and a green 'Fetch' button. Below this is a green success message: 'Record updated Successfully'. At the bottom of the modal are two green buttons: 'Back' and 'Update'.

Update Failure

The screenshot shows the 'Update Failure' page of the 'Online Petition Management System'. The layout is identical to the 'Update Success' page, but the modal box displays a red error message: 'Update Failure'. The 'Fetch' button is still present, and the 'Back' and 'Update' buttons are at the bottom of the modal.

Search Page:

The screenshot shows the 'Search' page of the 'Online Petition Management System'. The page has the same purple header and navigation bar as the previous pages. The main content area features the same dark blue background with circuit patterns and icons. A white modal box is centered on the screen with the title 'Search Here...'. Inside the modal, there is a 'Select Petition Id' field with a dropdown menu showing '1' and a green 'Search' button. Below this is a green 'Back' button.

Search Success :

The screenshot displays the 'Online Petition Management System' interface. At the top, there is a navigation bar with buttons for Home, Insert, Update, Search, and Delete. The main content area features a search modal with the title 'Search Here...'. Inside the modal, there is a 'Select Petition Id' dropdown menu set to 'Choose' and a green 'Search' button. Below the search input, a green message box states 'Record Found Successfully'. A table with the following data is shown:

Petition Id	Category	Description	Priority	Raised By	Assigned To	Status
1	Category1	Description1	High Priority	Person1	Assignee1	Incomplete

At the bottom of the modal, there is a green 'Back' button.

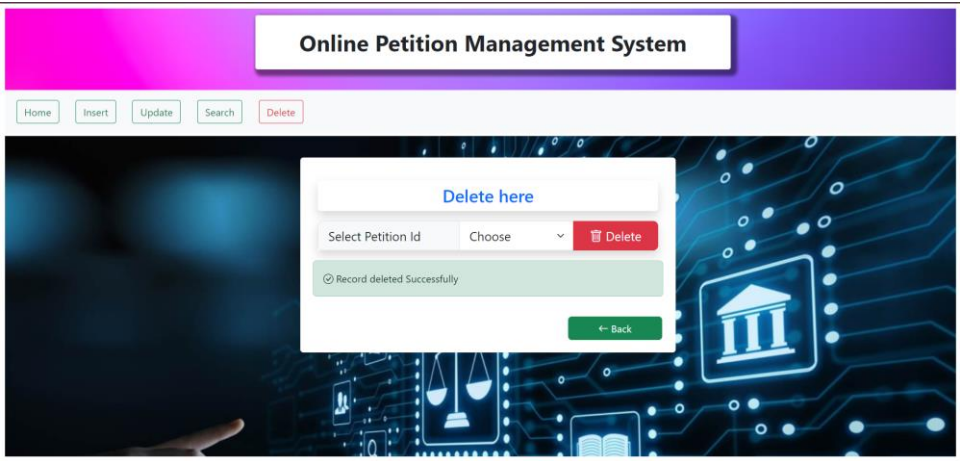
Search Failure:

The screenshot displays the 'Online Petition Management System' interface. The search modal is open, showing the 'Search Here...' title. The 'Select Petition Id' dropdown is set to 'Choose', and the 'Search' button is visible. Below the search input, a red message box with an error icon states 'Search not found'. A green 'Back' button is located at the bottom of the modal.

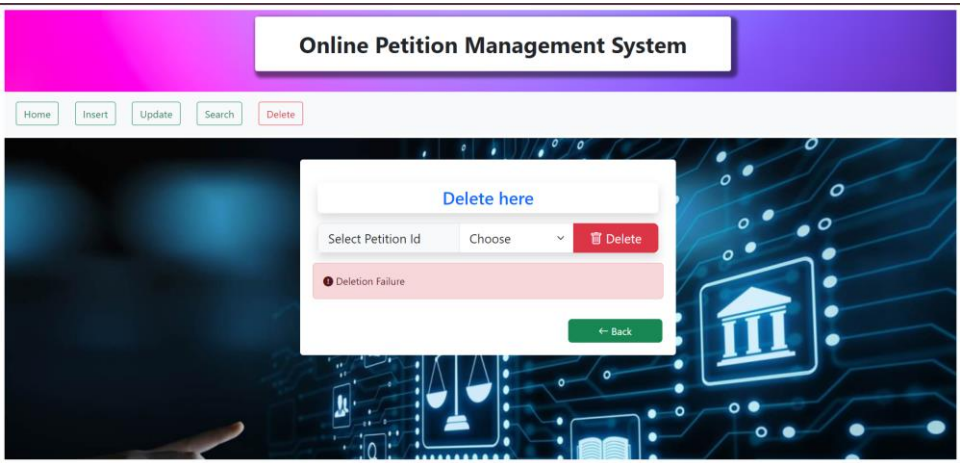
Delete Page:

The screenshot displays the 'Online Petition Management System' interface. The delete modal is open, showing the title 'Delete here'. The 'Select Petition Id' dropdown is set to '2', and a red 'Delete' button is visible. A green 'Back' button is located at the bottom of the modal.

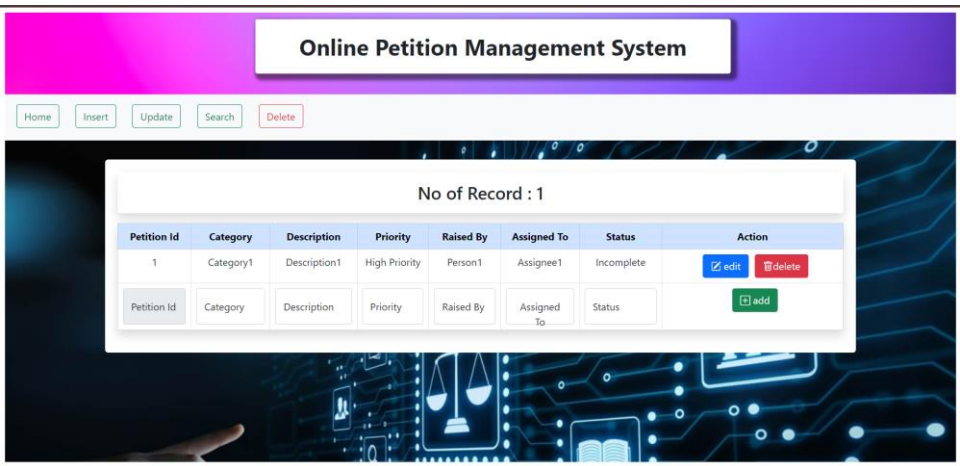
Delete Success



Delete Failure:



Home page:



Home Page Add Petition:

The screenshot shows the 'Online Petition Management System' interface. At the top, there is a navigation bar with buttons: Home, Insert, Update, Search, and Delete. Below the navigation bar, a modal window displays a table with the following data:

Petition Id	Category	Description	Priority	Raised By	Assigned To	Status	Action
1	Category1	Description1	High Priority	Person1	Assignee1	Incomplete	edit delete
Petition Id	Category2	Description2	Priority Low Priorit	Raised By Person2	Assigned Assignee2	Status Incomplete	add

Home Page After Add operation:

The screenshot shows the 'Online Petition Management System' interface after adding a new petition. The modal window displays a table with the following data:

Petition Id	Category	Description	Priority	Raised By	Assigned To	Status	Action
1	Category1	Description1	High Priority	Person1	Assignee1	Incomplete	edit delete
4	Category2	Description2	Low Priority	Person2	Assignee2	Incomplete	edit delete
Petition Id	Category	Description	Priority	Raised By	Assigned To	Status	add

Home Edit Option:

The screenshot shows the 'Online Petition Management System' interface with the 'Edit' option selected. The modal window displays a table with the following data:

Petition Id	Category	Description	Priority	Raised By	Assigned To	Status	Action
1	Category1	Description1	High Priority	Person1	Assignee1	Incomplete	edit delete
Petition Id 4	Category Category2	Description2	Priority Low Priorit	Raised By Person2	Assigned Assignee2	Status Incomplete	save Back
Petition Id	Category	Description	Priority	Raised By	Assigned To	Status	add