**Mini Project 3**

Submitted By: Aniket Singh (Emp ID: 2605511)

**mini.css**

@charset *"UTF-8"*;

*.button* {

background-color: *#04AA6D*;

border: *none*;

color: *white*;

padding: *15px* *32px*;

text-align: *center*;

text-decoration: *none*;

display: *inline-block*;

font-size: *16px*;

margin: *4px* *2px*;

cursor: *pointer*;

}

*.button2* {

background-color: *#04AA6D*;

border: *none*;

color: *white*;

padding: *15px* *32px*;

text-align: *center*;

text-decoration: *none*;

display: *inline-block*;

margin: *4px* *2px*;

cursor: *pointer*;

}

*.body* {

background-color: *#b4b1b1*;

text-align: *center*;

vertical-align: *middle*;

}

*.rcorner* {

border-radius: *25px*;

border: *2px* *solid* *#73AD21*;

padding: *5px*;

}

*.rcorner2* {

border-radius: *25px*;

border: *2px* *solid* *#73AD21*;

padding: *20px*;

}

**index.html**

<!DOCTYPE html>

<html>

<head>

<link rel=*"stylesheet"* href=*"mini.css"*>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body class=*"body"*>

<br>

<br>

<br>

<h1>Health Logger</h1>

<p color=*grey*>Developed by Aniket Singh</p>

<br>

<br>

<a href=*"login.jsp"*><button class=*"button"* type=*"button"*>Doctor

Login</button> </a>

</body>

</html>

**adminhome.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<link rel=*"stylesheet"* href=*"mini.css"*>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body class=*"body"*>

<br>

<br>

<br>

<h1>Health Logger</h1>

<p color=*grey*>Developed by Aniket Singh</p>

<br>

<br>

<a href=*"patientform.jsp"*><button class=*"button"* type=*"button"*>Manage

Patients</button>

<br>

<br> <a href=*"vitalform.jsp"*><button class=*"button"*

type=*"button"*>Manage Vitals</button>

</body>

</html>

**listvitals.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@ page import=*"java.util.\*"*%>

<%@ page import=*"java.util.\*, project3.Vitals"*%>

<%@ page import=*"project3.VitalsDAO"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>List Vitals</title>

<link rel=*"stylesheet"* href=*"mini.css"*>

</head>

<body class=*"body"*>

<h1>List of Vitals</h1>

<br>

<table align=*"center"* border=*"1"*>

<tr>

<th>Patient ID</th>

<th>BP High</th>

<th>BP Low</th>

<th>SP02</th>

<th>Date</th>

<th>Action</th>

</tr>

<%

**int** patientId = Integer.parseInt(request.getParameter("id"));

List<Vitals> vitalsList = VitalsDAO.getVitalsByPatientId(patientId);

**for** (Vitals vitals : vitalsList) {

%>

<tr>

<td><%= vitals.getPatientId() %></td>

<td><%= vitals.getBpHigh() %></td>

<td><%= vitals.getBpLow() %></td>

<td><%= vitals.getSp02() %></td>

<td><%= vitals.getDate() %></td>

<td>

<button class=*"button2"* type=*"submit"*>Delete</button>

</td>

</tr>

<% } %>

</table>

<br>

<br>

<a href=*adminhome.jsp*><button class=*"button"* type=*"submit"*>Home

Page</button></a>

<a href=*managepatient.jsp*><button class=*"button"* type=*"submit"*>View

Patients</button></a>

<a href=*vitalform.jsp*><button class=*"button"* type=*"submit"*>Record

New Vitals</button></a>

</body>

</html>

**login.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<link rel=*"stylesheet"* href=*"mini.css"*>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body class=*"body"*>

<br>

<br>

<br>

<h1>Health Logger</h1>

<p color=*grey*>Doctor Login</p>

<br>

<br>

<form action=*admin1*>

<table align=*"center"*>

<tr>

<td>Enter Email:</td>

</tr>

<tr>

<td><input class=*"rcorner"* type=*text* name=*email* size=*20*></td>

</tr>

<tr>

<td></td>

</tr>

<tr>

<td>Enter Password:</td>

</tr>

<tr>

<td><input class=*"rcorner"* type=*text* name=*password* size=*20*></td>

</tr>

</table>

<br>

<button class=*"button"* type=*"submit"*>Login</button>

</form>

</body>

</html>

**managepatient.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@ page import=*"java.util.\*"*%>

<%@ page import=*"project3.Patient"*%>

<%@ page import=*"project3.PatientDAO"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>List Patients</title>

<link rel=*"stylesheet"* href=*"mini.css"*>

</head>

<body class=*"body"*>

<h1>List of Patients</h1>

<br>

<form action=*"managepatient.jsp"* align=*"left"* method=*"post"*

style="display: *inline*;">

<input class=*"rcorner"* align=*"left"* type=*"text"* name=*"search"*

placeholder=*"Search patient by name"*> <input class=*"button2"*

type=*"submit"* value=*"Search"*>

</form>

<br>

<br>

<br>

<table align=*"center"* border=*"2"*>

<tr>

<th>Name</th>

<th>Phone</th>

<th>Age</th>

<th>Gender</th>

<th>Diagnosis</th>

<th>Remarks</th>

<th>Actions</th>

</tr>

<%

List<Patient> patients = PatientDAO.getAllPatients();

**for** (Patient patient : patients) {

%>

<tr>

<td><%= patient.getName() %></td>

<td><%= patient.getPhone() %></td>

<td><%= patient.getAge() %></td>

<td><%= patient.getGender() %></td>

<td><%= patient.getDiagnosis() %></td>

<td><%= patient.getRemarks() %></td>

<td><a href=*patientform.jsp*><button class=*"button2"*

type=*"submit"*>Update</button></a>

<button class=*"button2"*

onclick=*"window.location.href='VitalsServlet?action=list&id=*<%= patient.getId() %>*'"*>View

Vitals</button>

<button class=*"button2"* type=*"submit"*>Delete</button></td>

</tr>

<% } %>

</table>

<br>

<a href=*patientform.jsp*><button class=*"button2"* type=*"submit"*>Add

Patients</button></a>

<a href=*vitalform.jsp*><button class=*"button2"* type=*"submit"*>Add

Vitals</button></a>

</body>

</html>

**patientform.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<link rel=*"stylesheet"* href=*"mini.css"*>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body class=*"body"*>

<br>

<br>

<br>

<h1>Health Logger</h1>

<p color=*grey*>Add/Update Patient Information</p>

<br>

<br>

<form align=*"center"* action=*"PatientServlet?action=add"* method=*"post"*>

Name:<br> <input class=*"rcorner"* type=*"text"* name=*"name"* required><br>

<br>Phone: <br>

<input class=*"rcorner"* type=*"text"* name=*"phone"* required><br>

<br>Age: <br>

<input class=*"rcorner"* type=*"number"* name=*"age"* required><br>

<br>Gender: <br>

<input class=*"rcorner"* type=*"text"* name=*"gender"* required><br>

<br>Diagnosis: <br>

<input class=*"rcorner2"* type=*"text"* name=*"diagnosis"* required><br>

<br>Remarks:<br> <input class=*"rcorner2"* type=*"text"*

name=*"remarks"*><br> <br> <input type=*"submit"*

class=*"button"* value=*"Add/Update Patient"*>

</form>

<a href=*managepatient.jsp*><button class=*"button"* type=*"submit"*>View

Patients</button></a>

</body>

</html>

**vitalform.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<link rel=*"stylesheet"* href=*"mini.css"*>

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

<title>Insert title here</title>

</head>

<body class=*"body"*>

<br>

<br>

<br>

<h1>Health Logger</h1>

Add Patient's Vital Information

<br>

<br>

<br>

<form align=*"center"* action=*"VitalsServlet?action=add"* method=*"post"*>

Patient ID: <br>

<input class=*"rcorner"* type=*"number"* name=*"patientId"* required><br>

<br>BP High: <br>

<input class=*"rcorner"* type=*"number"* name=*"bpHigh"* required><br>

<br>BP Low: <br>

<input class=*"rcorner"* type=*"number"* name=*"bpLow"* required><br>

<br>SP02: <br>

<input class=*"rcorner"* type=*"number"* name=*"sp02"* required><br>

<br>

<input class=*"button"* type=*"submit"* value=*"Add Vitals"*>

</form>

</body>

</html>

**DBUtil.java**

**package** project3;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**public** **class** DBUtil {

**private** **static** **final** String ***URL*** = "jdbc:mysql://localhost:3306/miniproject3";

**private** **static** **final** String ***USER*** = "root";

**private** **static** **final** String ***PASSWORD*** = "1234";

**public** **static** Connection getConnection() {

Connection conn = **null**;

**try** {

Class.*forName*("com.mysql.jdbc.Driver");

conn = DriverManager.*getConnection*(***URL***, ***USER***, ***PASSWORD***);

} **catch** (ClassNotFoundException | SQLException e) {

e.printStackTrace();

}

**return** conn;

}

}

**Patient.java**

**package** project3;

**public** **class** Patient {

**private** **int** id;

**private** String name;

**private** String phone;

**private** **int** age;

**private** String gender;

**private** String diagnosis;

**private** String remarks;

**public** Patient() {}

**public** Patient(String name, String phone, **int** age, String gender, String diagnosis, String remarks) {

**this**.name = name;

**this**.phone = phone;

**this**.age = age;

**this**.gender = gender;

**this**.diagnosis = diagnosis;

**this**.remarks = remarks;

}

**public** Patient(**int** id, String name, String phone, **int** age, String gender, String diagnosis, String remarks) {

**this**.id = id;

**this**.name = name;

**this**.phone = phone;

**this**.age = age;

**this**.gender = gender;

**this**.diagnosis = diagnosis;

**this**.remarks = remarks;

}

**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** String getPhone() {

**return** phone;

}

**public** **void** setPhone(String phone) {

**this**.phone = phone;

}

**public** **int** getAge() {

**return** age;

}

**public** **void** setAge(**int** age) {

**this**.age = age;

}

**public** String getGender() {

**return** gender;

}

**public** **void** setGender(String gender) {

**this**.gender = gender;

}

**public** String getDiagnosis() {

**return** diagnosis;

}

**public** **void** setDiagnosis(String diagnosis) {

**this**.diagnosis = diagnosis;

}

**public** String getRemarks() {

**return** remarks;

}

**public** **void** setRemarks(String remarks) {

**this**.remarks = remarks;

}

}

**PatientDAO.java**

**package** project3;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** PatientDAO {

**public** **static** **void** addPatient(Patient patient) {

**try** (Connection conn = DBUtil.*getConnection*()) {

String query = "INSERT INTO patients (name, phone, age, gender, diagnosis, remarks) VALUES (?, ?, ?, ?, ?, ?)";

PreparedStatement ps = conn.prepareStatement(query);

ps.setString(1, patient.getName());

ps.setString(2, patient.getPhone());

ps.setInt(3, patient.getAge());

ps.setString(4, patient.getGender());

ps.setString(5, patient.getDiagnosis());

ps.setString(6, patient.getRemarks());

ps.executeUpdate();

} **catch** (SQLException e) {

e.printStackTrace();

}

}

**public** **static** List<Patient> getAllPatients() {

List<Patient> patients = **new** ArrayList<>();

**try** (Connection conn = DBUtil.*getConnection*()) {

String query = "SELECT \* FROM patients";

PreparedStatement ps = conn.prepareStatement(query);

ResultSet rs = ps.executeQuery();

**while** (rs.next()) {

Patient patient = **new** Patient(

rs.getInt("id"),

rs.getString("name"),

rs.getString("phone"),

rs.getInt("age"),

rs.getString("gender"),

rs.getString("diagnosis"),

rs.getString("remarks")

);

patients.add(patient);

}

} **catch** (SQLException e) {

e.printStackTrace();

}

**return** patients;

}

**public** **static** **void** updatePatient(Patient patient) {

**try** (Connection conn = DBUtil.*getConnection*()) {

String query = "UPDATE patients SET name=?, phone=?, age=?, gender=?, diagnosis=?, remarks=? WHERE id=?";

PreparedStatement ps = conn.prepareStatement(query);

ps.setString(1, patient.getName());

ps.setString(2, patient.getPhone());

ps.setInt(3, patient.getAge());

ps.setString(4, patient.getGender());

ps.setString(5, patient.getDiagnosis());

ps.setString(6, patient.getRemarks());

ps.setInt(7, patient.getId());

ps.executeUpdate();

} **catch** (SQLException e) {

e.printStackTrace();

}

}

}

**Vitals.java**

**public** **class** Vitals {

**private** **int** id;

**private** **int** patientId;

**private** **int** bpHigh;

**private** **int** bpLow;

**private** **int** sp02;

**private** String date;

**public** Vitals() {}

**public** Vitals(**int** patientId, **int** bpHigh, **int** bpLow, **int** sp02) {

**this**.patientId = patientId;

**this**.bpHigh = bpHigh;

**this**.bpLow = bpLow;

**this**.sp02 = sp02;

}

**public** Vitals(**int** id, **int** patientId, **int** bpHigh, **int** bpLow, **int** sp02, String date) {

**this**.id = id;

**this**.patientId = patientId;

**this**.bpHigh = bpHigh;

**this**.bpLow = bpLow;

**this**.sp02 = sp02;

**this**.date = date;

}

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** **int** getPatientId() {

**return** patientId;

}

**public** **void** setPatientId(**int** patientId) {

**this**.patientId = patientId;

}

**public** **int** getBpHigh() {

**return** bpHigh;

}

**public** **void** setBpHigh(**int** bpHigh) {

**this**.bpHigh = bpHigh;

}

**public** **int** getBpLow() {

**return** bpLow;

}

**public** **void** setBpLow(**int** bpLow) {

**this**.bpLow = bpLow;

}

**public** **int** getSp02() {

**return** sp02;

}

**public** **void** setSp02(**int** sp02) {

**this**.sp02 = sp02;

}

**public** String getDate() {

**return** date;

}

**public** **void** setDate(String date) {

**this**.date = date;

}

}

**VitalsDAO.java**

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** VitalsDAO {

**public** **static** **void** addVitals(Vitals vitals) {

**try** (Connection conn = DBUtil.*getConnection*()) {

String query = "INSERT INTO vitals (patient\_id, bp\_high, bp\_low, sp02) VALUES (?, ?, ?, ?)";

PreparedStatement ps = conn.prepareStatement(query);

ps.setInt(1, vitals.getPatientId());

ps.setInt(2, vitals.getBpHigh());

ps.setInt(3, vitals.getBpLow());

ps.setInt(4, vitals.getSp02());

ps.executeUpdate();

} **catch** (SQLException e) {

e.printStackTrace();

}

}

**public** **static** List<Vitals> getVitalsByPatientId(**int** patientId) {

List<Vitals> vitalsList = **new** ArrayList<>();

**try** (Connection conn = DBUtil.*getConnection*()) {

String query = "SELECT \* FROM vitals WHERE patient\_id=?";

PreparedStatement ps = conn.prepareStatement(query);

ps.setInt(1, patientId);

ResultSet rs = ps.executeQuery();

**while** (rs.next()) {

Vitals vitals = **new** Vitals(

rs.getInt("id"),

rs.getInt("patient\_id"),

rs.getInt("bp\_high"),

rs.getInt("bp\_low"),

rs.getInt("sp02"),

rs.getString("date")

);

vitalsList.add(vitals);

}

} **catch** (SQLException e) {

e.printStackTrace();

}

**return** vitalsList;

}

}

**Admin1.java**

**import** java.io.IOException;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**public** **class** admin1 **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** admin1() {

**super**();

}

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

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

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

System.***out***.println(email);

System.***out***.println(password);

**if**(email.equals("admin") && password.equals("admin")){

System.***out***.println("success");

response.sendRedirect("adminhome.jsp");

}

**else** {

System.***out***.println("unsuccess");

response.sendRedirect("login.jsp");

}

}

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

}

}

**PatientServlet.java**

**import** java.io.IOException;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/PatientServlet")

**public** **class** PatientServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** PatientServlet() {

**super**();

}

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

**if** (**true**) {

response.sendRedirect("managepatient.jsp");

}

}

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

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

**if** ("add".equals(action)) {

System.***out***.println("add");

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

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

**int** age = Integer.*parseInt*(request.getParameter("age"));

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

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

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

Patient patient = **new** Patient(name, phone, age, gender, diagnosis, remarks);

PatientDAO.*addPatient*(patient);

response.sendRedirect("managepatient.jsp");

}

}

}

**VitalsServlet.java**

**import** java.io.IOException;

**import** java.util.List;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/VitalsServlet")

**public** **class** VitalsServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** VitalsServlet() {

**super**();

}

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

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

**if** ("list".equals(action)) {

**int** patientId = Integer.*parseInt*(request.getParameter("id"));

List<Vitals> vitalsList = VitalsDAO.*getVitalsByPatientId*(patientId);

request.setAttribute("vitalsList", vitalsList);

request.getRequestDispatcher("listvitals.jsp").forward(request, response);

}

}

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

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

**if** ("add".equals(action)) {

**int** patientId = Integer.*parseInt*(request.getParameter("patientId"));

**int** bpHigh = Integer.*parseInt*(request.getParameter("bpHigh"));

**int** bpLow = Integer.*parseInt*(request.getParameter("bpLow"));

**int** sp02 = Integer.*parseInt*(request.getParameter("sp02"));

Vitals vitals = **new** Vitals(patientId, bpHigh, bpLow, sp02);

VitalsDAO.*addVitals*(vitals);

response.sendRedirect("listvitals.jsp?id=" + patientId);

}

}

}