package net.javaguides.usermanagement.web;

import java.io.IOException;

import java.sql.SQLException;

import java.util.List;

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 net.javaguides.usermanagement.dao.UserDAO;

import net.javaguides.usermanagement.model.User;

/\*\*

\* ControllerServlet.java

\* This servlet acts as a page controller for the application, handling all

\* requests from the user.

\* @email Ramesh Fadatare

\*/

@WebServlet("/")

public class UserServlet extends HttpServlet {

private static final long serialVersionUID = 1 L;

private UserDAO userDAO;

public void init() {

userDAO = new UserDAO();

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request, response);

}

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String action = request.getServletPath();

try {

switch (action) {

case "/new":

showNewForm(request, response);

break;

case "/insert":

insertUser(request, response);

break;

case "/delete":

deleteUser(request, response);

break;

case "/edit":

showEditForm(request, response);

break;

case "/update":

updateUser(request, response);

break;

default:

listUser(request, response);

break;

}

} catch (SQLException ex) {

throw new ServletException(ex);

}

}

private void listUser(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ServletException {

List < User > listUser = userDAO.selectAllUsers();

request.setAttribute("listUser", listUser);

RequestDispatcher dispatcher = request.getRequestDispatcher("user-list.jsp");

dispatcher.forward(request, response);

}

private void showNewForm(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

RequestDispatcher dispatcher = request.getRequestDispatcher("user-form.jsp");

dispatcher.forward(request, response);

}

private void showEditForm(HttpServletRequest request, HttpServletResponse response)

throws SQLException, ServletException, IOException {

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

User existingUser = userDAO.selectUser(id);

RequestDispatcher dispatcher = request.getRequestDispatcher("user-form.jsp");

request.setAttribute("user", existingUser);

dispatcher.forward(request, response);

}

private void insertUser(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException {

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

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

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

User newUser = new User(name, email, country);

userDAO.insertUser(newUser);

response.sendRedirect("list");

}

private void updateUser(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException {

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

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

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

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

User book = new User(id, name, email, country);

userDAO.updateUser(book);

response.sendRedirect("list");

}

private void deleteUser(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException {

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

userDAO.deleteUser(id);

response.sendRedirect("list");

}

}