**1、实现ServletRequestListener**

**package listener;**

**import java.sql.ResultSet;**

**import java.sql.SQLException;**

**import javax.servlet.ServletContext;**

**import javax.servlet.ServletRequestAttributeEvent;**

**import javax.servlet.ServletRequestAttributeListener;**

**import javax.servlet.ServletRequestEvent;**

**import javax.servlet.ServletRequestListener;**

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

**import javax.servlet.http.HttpSession;**

**import dao.DbDao;**

**public class RequestListener implements ServletRequestListener,ServletRequestAttributeListener{**

**//当请求销毁时触发该方法**

**public void requestDestroyed(ServletRequestEvent sre) {**

**// TODO Auto-generated method stub**

**HttpServletRequest request=(HttpServletRequest)sre.getServletRequest();**

**System.out.println("----发向"+request.getRequestURI()+"被销毁");**

**}**

**//当请求初始化时触发该方法**

**public void requestInitialized(ServletRequestEvent sre) {**

**// TODO Auto-generated method stub**

**HttpServletRequest request=(HttpServletRequest)sre.getServletRequest();**

**System.out.println("---发向"+request.getRequestURI()+"被初始化");**

**HttpSession session=request.getSession();**

**//获取sessionId**

**String sessionId=session.getId();**

**//获取IP与地址**

**String ip=request.getRemoteAddr();**

**//获取正在访问的页面**

**String page=request.getRequestURI();**

**//获取用户名称**

**String user=(String)session.getAttribute("user");**

**user=(user==null)?"游客":user;**

**DbDao db=new DbDao("com.mysql.jdbc.Driver","jdbc:mysql://localhost:3306/escshop", "root", "");**

**ResultSet rs=db.query("SELECT \* FROM online\_information WHERE sessionId=?", true, sessionId);**

**try {**

**if(rs.next()) {**

**rs.updateString(4, page);**

**rs.updateString(5,String.valueOf(System.currentTimeMillis()));**

**rs.updateRow();**

**rs.close();**

**}else{**

**db.insert(sessionId, user, ip, page, String.valueOf(System.currentTimeMillis()));**

**}**

**} catch (SQLException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**}**

**//当新增属性时触发该方法**

**public void attributeAdded(ServletRequestAttributeEvent srae) {**

**// TODO Auto-generated method stub**

**ServletContext request=srae.getServletContext();**

**String name=srae.getName();**

**Object value=srae.getValue();**

**System.out.println(request+"范围内新增了属性名为name="+name+"\t"+"属性值为value="+value);**

**}**

**//当移除属性时触发该方法**

**public void attributeRemoved(ServletRequestAttributeEvent srae) {**

**// TODO Auto-generated method stub**

**ServletContext request=srae.getServletContext();**

**String name=srae.getName();**

**Object value=srae.getValue();**

**System.out.println(request+"范围内移除了属性名为name="+name+"\t"+"属性值为value="+value);**

**}**

**//当替换属性时触发该方法**

**public void attributeReplaced(ServletRequestAttributeEvent srae) {**

**// TODO Auto-generated method stub**

**ServletContext request=srae.getServletContext();**

**String name=srae.getName();**

**Object value=srae.getValue();**

**System.out.println(request+"范围内替换了属性名为name="+name+"\t"+"属性值为value="+value);**

**}**

**}**

**2、实现ServletContextListener监听器**

**package listener;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**import java.sql.SQLException;**

**import javax.servlet.ServletContextEvent;**

**import javax.servlet.ServletContextListener;**

**import javax.swing.Timer;**

**import dao.DbDao;**

**public class OnlineRequestListener implements ServletContextListener{**

**//超过10分钟没访问则判断已经离线**

**public final int MAX\_MILLITS=10\*60\*1000;**

**//应用销毁时执行此方法**

**public void contextDestroyed(ServletContextEvent arg0) {**

**// TODO Auto-generated method stub**

**}**

**//应用启动时执行此方法**

**public void contextInitialized(ServletContextEvent arg0) {**

**// TODO Auto-generated method stub**

**//每5秒检查一次啊**

**new Timer(1000\*5, new ActionListener() {**

**public void actionPerformed(ActionEvent e) {**

**// TODO Auto-generated method stub**

**DbDao db=new DbDao("com.mysql.jdbc.Driver","jdbc:mysql://localhost:3306/escshop", "root", "");**

**ResultSet rs=db.query("SELECT \* FROM online\_information");**

**StringBuffer buff=new StringBuffer("(");**

**try {**

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

**//如果距离时间超过上次访问时间**

**if(System.currentTimeMillis()-Long.parseLong(rs.getString("time"))>MAX\_MILLITS){**

**buff.append("'");**

**buff.append(rs.getString(1));**

**buff.append("' ,");**

**}**

**}**

**System.out.println("buff:"+buff);**

**//有删除的记录**

**if(buff.length()>3){**

**buff.setLength(buff.length()-3);**

**buff.append("')");**

**//删除所有在指定时间内未访问的用户信息**

**String sql="delete from online\_information where sessionId in"+buff.toString();**

**System.out.println("sql:"+sql);**

**db.delete(sql);**

**}**

**} catch (SQLException e1) {**

**// TODO Auto-generated catch block**

**e1.printStackTrace();**

**}**

**}**

**}).start();**

**}**

**}**

**3、数据库操作**

**package dao;**

**import java.sql.Connection;**

**import java.sql.DriverManager;**

**import java.sql.ResultSet;**

**import java.sql.SQLException;**

**import java.sql.Statement;**

**public class DbDao {**

**private String driver;**

**private String url;**

**private String user;**

**private String password;**

**//构造方法**

**public DbDao(String driver,String url,String user,String password){**

**this.driver=driver;**

**this.url=url;**

**this.user=user;**

**this.password=password;**

**}**

**//查询指定ID信息**

**public ResultSet query(String sql,boolean flag,String id){**

**ResultSet rs=null;**

**try {**

**Class.forName(driver);**

**try {**

**Connection conn=DriverManager.getConnection(url, user, password);**

**Statement smt=conn.createStatement();**

**if(flag){**

**sql=sql.replace("?","'"+id+"'");**

**}**

**rs=smt.executeQuery(sql);**

**} catch (SQLException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**} catch (ClassNotFoundException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**return rs;**

**}**

**//查询所有信息**

**public ResultSet query(String sql){**

**ResultSet rs=null;**

**try {**

**Class.forName(driver);**

**try {**

**Connection conn=DriverManager.getConnection(url, user, password);**

**Statement smt=conn.createStatement();**

**rs=smt.executeQuery(sql);**

**} catch (SQLException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**} catch (ClassNotFoundException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**return rs;**

**}**

**//插入信息**

**public boolean insert(String sessionId,String userName,String ip,String page,String time){**

**boolean flag=false;**

**try {**

**Class.forName(driver);**

**try {**

**Connection conn=DriverManager.getConnection(url, user,password);**

**Statement smt=conn.createStatement();**

**String sql="INSERT INTO online\_information(sessionId,USER,ip,page,TIME)"**

**+"VALUES('"+sessionId+"','"+userName+"','"+ip+"','"+page+"','"+time+"')";**

**System.out.println("SQL:"+sql);**

**flag=smt.executeUpdate(sql)>0?true:false;**

**} catch (SQLException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**} catch (ClassNotFoundException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**return flag;**

**}**

**//删除指定的目录**

**public boolean delete(String sql){**

**boolean flag=false;**

**try {**

**Class.forName(driver);**

**try {**

**Connection conn=DriverManager.getConnection(url, user,password);**

**Statement smt=conn.createStatement();**

**flag=smt.executeUpdate(sql)>0?true:false;**

**} catch (SQLException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**} catch (ClassNotFoundException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**return flag;**

**}**

**}**

**4、显示在线人员状态的JSP**

**<%@ page language="java" import="java.util.\*" pageEncoding="utf-8"%>**

**<%@page import="dao.DbDao"%>**

**<%@page import="java.sql.ResultSet"%>**

**<%**

**String path = request.getContextPath();**

**String basePath = request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path+"/";**

**%>**

**<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">**

**<html>**

**<head>**

**<base href="<%=basePath%>">**

**<title>online在线人数</title>**

**<meta http-equiv="pragma" content="no-cache">**

**<meta http-equiv="cache-control" content="no-cache">**

**<meta http-equiv="expires" content="0">**

**<meta http-equiv="keywords" content="keyword1,keyword2,keyword3">**

**<meta http-equiv="description" content="This is my page">**

**</head>**

**<body>**

**<h1>当前在线人员：</h1>**

**<table>**

**<%**

**DbDao db=new DbDao("com.mysql.jdbc.Driver","jdbc:mysql://localhost:3306/escshop", "root", "");**

**ResultSet rs= db.query("SELECT \* FROM online\_information");**

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

**%>**

**<tr>**

**<td><%=rs.getString(1)%></td>**

**<td><%=rs.getString(2)%></td>**

**<td><%=rs.getString(3)%></td>**

**<td><%=rs.getString(4)%></td>**

**<td><%=rs.getString(5)%></td>**

**</tr>**

**<%} %>**

**</table>**

**</body>**

**</html>**