**内蒙古科技大学信息工程学院计算机系**

**《Java Web编程A》实验报告**

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| 班级 | | 软件16-1 | 实验日期 |  |
| 项目号、实验名称 | | **Java Web第二次实验上交** | | |
| 实  验  要  求 | **实验3 利用网络留言本插入留言**  本次上机完成的任务  掌握如何利用Servlet向网络留言本中插入留言。  训练的技能点   1. 在Servlet中如果连接数据库 2. 在Servlet中如何进行数据的插入   **实验4 显示网络留言本中所有留言内容**  本次上机完成的任务  掌握如何利用Servlet获取留言本中所有留言内容。  训练的技能点  (1) MyEclipse如何开发Servlet  (2) 在Servlet中如何进行数据的查询和显示 | | | |
| 实  验  内  容 | **实验3 利用网络留言本插入留言**   1. 新建以自己名字命名的项目Web Project； 2. 新建以自己名字命名的数据库，数据库命名如：XXX\_DB 3. 新建以自己名字命名的表，表名命名如：XXX\_TBL。 4. 创建表的各个字段，字段名以自己的姓氏的首字母开头，如：c\_id,c\_name。 5. 新建网络留言本页面，接收留言。 6. 新建以自己名字命名的Add\_XXX\_Servlet文件，用来插入留言处理。 7. 部署Web应用程序；测试运行插入留言本程序。   **实验4 显示网络留言本中所有留言内容**   1. 新建以自己名字命名的Get\_XXX\_Servlet文件，用来查询所有留言并在页面上显示。 2. 部署Web应用程序；测试运行程序显示留言本中的所有留言。 | | | |
| 实  验  过  程  及  结  果 | **实验三**  **1.(1)addMessage.html**代码  *<%--  Created by IntelliJ IDEA.  User: liupeng  Date: 2018/10/8  Time: 1:00 PM  To change this template use File | Settings | File Templates. --%>* <%@ **page contentType**="**text/html;charset=UTF-8**" **language**="**java**" %> <**html**> <**head**>  <**title**>Title</**title**> </**head**> <**body**> <**form method="post" action="ServletPackage/work2Servlet"**>  姓名：  <**input type="text" name="name" value=""**><**br**>  电话：  <**input type="text" name="phone" value=""**><**br**>  Email：  <**input type="text" name="email" value=""**><**br**>  主题：  <**input type="text" name="title" value=""**><**br**>  内容：  <**input type="text" name="content" value=""**><**br**>  <**input type="reset" value="重置"**>**&nbsp;&nbsp;** <**input type="submit" value="提交"**> </**form**> </**body**> </**html**>  **（2）作用:**通过HTML表单，将信息提交到Severlet   1. **运行结果**     **2.(1)Add\_Servlet**代码  **package** ServletPackage;  **import** JavaBean.Test.getNowTime; **import** JavaBean.linkDatabase.getSQLString; **import** JavaBean.linkDatabase.linkDatabases;  **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** java.io.IOException; **import** java.io.PrintWriter; **import** java.sql.SQLException;  @WebServlet(name = **"work2Servlet"**) **public class** work2Servlet **extends** HttpServlet {  **protected void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  request.setCharacterEncoding(**"utf-8"**);  response.setContentType(**"text/html;charset=utf-8"**);  PrintWriter out=response.getWriter();  String l\_name=request.getParameter(**"name"**);  String l\_phone=request.getParameter(**"phone"**);  String l\_email=request.getParameter(**"email"**);  String l\_title=request.getParameter(**"title"**);  String l\_content=request.getParameter(**"content"**);  out.print(**"<table border=2>"**);  out.print(**"<tr>"**);  out.print(**"<td>姓名</td>"**);  out.print(**"<td>"**+l\_name+**"</td>"**);  out.print(**"<td>电话</td>"**);  out.print(**"<td>"**+l\_phone+**"</td>"**);  out.print(**"<td>Email</td>"**);  out.print(**"<td>"**+l\_email+**"</td>"**);  out.print(**"<td>题目</td>"**);  out.print(**"<td>"**+l\_title+**"</td>"**);  out.print(**"<td>内容</td>"**);  out.print(**"<td>"**+l\_content+**"</td>"**);  **try** {  String l\_time = **new** getNowTime().getTime();  getSQLString lpgetSQLString = **new** getSQLString();  lpgetSQLString.setSqlForWord2\_1(l\_name, l\_phone, l\_email, l\_title, l\_content, l\_time);  String sql = lpgetSQLString.getSqlForWord2\_1();  linkDatabases lpLinkDatabases = **new** linkDatabases();  **boolean** key = lpLinkDatabases.saveData(sql);  **if** (key) {  out.print(**"数据保存成功！"**);  } **else** {  out.print(**"数据保存失败！"**);  }  } **catch** (ClassNotFoundException e) {  e.printStackTrace();  } **catch** (SQLException e) {  e.printStackTrace();  }  }   **protected void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  doPost(request, response);  } }  **(2)作用：**接收表单信息，调用数据库驱动，将数据写入已创建好的数据库中。  **(3)附加的类：动态生成SQL语句**  **package** JavaBean.linkDatabase;  **public class** getSQLString {   **public** String getSql1() {  **return sql1**;  }   **public void** setSql1(String date, String time) {  *//String string = "insert into lp\_sleep\_table(lp\_id, lp\_date, lp\_time1) value (3, \'" + date + "\', \'" + time + "\');";* String string = **"insert into lp\_sleep\_table(lp\_date, lp\_time1) value (\'"** + date + **"\', \'"** + time + **"\');"**;  **this**.**sql1** = string;  *// System.out.print(string);* }   **public** String getSql2() {  **return sql2**;  }   **public void** setSql2(String date, String time) {  String string = **"update lp\_sleep\_table set lp\_time2 = \'"** + time + **"\' where lp\_date = \'"** + date + **"\';"**;  **this**.**sql2** = string;  **this**.**sql2** = **sql2**;  }   **public** String getSql3() {  **return sql3**;  }   **public void** setSql3(String date, String time) {  String string = **"update lp\_sleep\_table set lp\_time3 = \'"** + time + **"\' where lp\_date = \'"** + date + **"\';"**;  **this**.**sql3** = string;  **this**.**sql3** = **sql3**;  }   **public** String getSql4() {  **return sql4**;  }   **public void** setSql4(String date, String time) {  String string = **"update lp\_sleep\_table set lp\_time4 = \'"** + time + **"\' where lp\_date = \'"** + date + **"\';"**;  **this**.**sql4** = string;  }   **public** String getSql5() {  **return sql5**;  }   **public void** setSql5(String date, String number) {  String sql = **"insert into lp\_learn\_english\_table(lp\_date, lp\_word) value (\'"** + date + **"\', "** + number + **");"**;  **this**.**sql5** = sql;  }    **public** String getSql6() {  **return sql6**;  }   **public void** setSql6(String date, String number) {  String sql = **"update lp\_learn\_english\_table set lp\_reading = \'"** + number + **"\' where lp\_date = \'"** + date + **"\';"**;  **this**.**sql6** = sql;  }   **public** String getSql7() {  **return sql7**;  }   **public void** setSql7(String date, String name, String url, String number) {  *//String sql = "insert into lp\_blogs\_table (lp\_id, lp\_date, lp\_time, lp\_name, lp\_url) value (1, '2018-09-27', 1, 'qwe', '234');";* String sql = **"insert into lp\_blogs\_table (lp\_date, lp\_time, lp\_name, lp\_url) value (\'"** + date + **"\', "** + number + **", \'"** + name + **"\', \'"** + url + **"\');"**;  **this**.**sql7** = sql;  }   **public** String getSql8() {  **return sql8**;  }   **public void** setSql8(String date, String name, String url, String number) {  String sql = **"insert into lp\_github\_table (lp\_id, lp\_date, lp\_time, lp\_name, lp\_url) value (1, \'"** + date + **"\', 1, \'"** + name + **"\', \'"** + url + **"\');"**;  *//String sql = "insert into lp\_github\_table (lp\_date, lp\_time, lp\_name, lp\_url) value (\'" + date + "\', " + number + ", \'" + name + "\', \'" + url + "\');";* **this**.**sql8** = sql;  }   **public** String getSql10() {  **return sql10**;  }   **public void** setSql10(String account\_class) {  *//String string = "insert into lp\_account\_class\_table(lp\_id, lp\_name) value (1, '早餐');";* String sql = **"insert into lp\_account\_class\_table(lp\_name) value (\'"** + account\_class + **"\');"**;  *// System.out.print(sql);* **this**.**sql10** = sql;  }   **public** String getSqlForGetclass() {  **return sqlForGetclass**;  }   **public void** setSqlForGetclass() {  **this**.**sqlForGetclass** = **"select \* from lp\_account\_class\_table;"**;  }   **public** String getSql9() {  **return sql9**;  }   **public void** setSql9(String datetime, String account\_class, String amount, String pay, String addText) {  *// String sql = "insert into lp\_consume\_table(lp\_id, lp\_datetime, lp\_account\_class\_id, lp\_amount, lp\_payments, lp\_add\_text) value (1, now(), 1, 21.5, 's', '');";* String sql = **"insert into lp\_consume\_table(lp\_datetime, lp\_account\_class\_id, lp\_amount, lp\_payments, lp\_add\_text) "** +  **"value (\'"** + datetime + **"\',"** + account\_class + **", "** + amount + **", \'"** + pay + **"\', \'"** + addText + **"\');"**;  **this**.**sql9** = sql;  }   **public** String getSql\_sleep\_table() {  **return sql\_sleep\_table**;  }   **public void** setSql\_sleep\_table() {  **this**.**sql\_sleep\_table** = **"select \* from lp\_sleep\_table;"**;  }   **public** String getSqlForWord2\_1() {  **return sqlForWord2\_1**;  }   **public void** setSqlForWord2\_1(String name, String phone, String email, String title, String content, String time ) {  String sql = **"insert into guestbook (name, phone, email, title, content, time) value "** +  **"(\'"** + name + **"\', \'"** + phone + **"\', \'"** + email + **"\', \'"** + title + **"\', \'"** + content + **"\', \'"** + time + **"\');"**;  **this**.**sqlForWord2\_1** = sql;  }   **public** String getSqlForWord2\_2() {  **return sqlForWord2\_2**;  }   **public void** setSqlForWord2\_2() {  String sql = **"select \*from guestbook;"**;  **this**.**sqlForWord2\_2** = sql;  }   *//insert into lp\_uesr\_table\_for\_java\_web (user\_id, user\_name, user\_password) values (1, "liupeng", "123456");* **public** String getSql11() {  **return sql11**;  }   **public void** setSql11(String name, String password) {  **this**.**sql11** = **"insert into lp\_uesr\_table\_for\_java\_web (user\_name, user\_password) values (\""** + name + **"\", \""** + password + **"\");"**;  }   **public** String getSql12() {  **return sql12**;  }   **public void** setSql12(String id) {  **this**.**sql12** = **"select \* from lp\_uesr\_table\_for\_java\_web where user\_id = "** + id + **";"**;  }   **public** String getSql13() {  **return sql13**;  }   **public void** setSql13(String name, **int** prich) {  *//insert into lp\_goods\_for\_java\_web (good\_id, good\_name, good\_prich) values (1, 'iphone', 12000);* **this**.**sql13** = **"insert into lp\_goods\_for\_java\_web (good\_name, good\_prich) values (\'"** + name + **"\', "** + prich + **");"**;  }   **public** String getSql14() {  **return sql14**;  }   **public void** setSql14() {  **this**.**sql14** = **"select \* from lp\_goods\_for\_java\_web;"**;  }   **public** String getSql15() {  **return sql15**;  }   **public void** setSql15(String user\_id) {  **this**.**sql15** = **"select \* from lp\_uesr\_table\_for\_java\_web where user\_id = "** + user\_id + **";"**;  }   **public** String getSql16() {  **return sql16**;  }   **public void** setSql16(String good\_name) {  **this**.**sql16** = **"select \* from lp\_goods\_for\_java\_web where good\_name = \""** + good\_name + **"\";"**;  }   **public** String getSql17() {  **return sql17**;  }   **public void** setSql17(String user\_id, String good\_id, String number, String book\_date) {  *//insert into lp\_shop\_book\_for\_java\_web (book\_id, user\_id, good\_id, number, book\_date) values (1, 1, 1, 2, now());* **this**.**sql17** = **"insert into lp\_shop\_book\_for\_java\_web (user\_id, good\_id, number, book\_date) values ("** + user\_id +  **", "** + good\_id + **", "** + number + **", \'"** + book\_date + **"\');"**;  }   **public** String getSql18() {  **return sql18**;  }   **public void** setSql18(String user\_id) {  *//select \* from lp\_shop\_book\_for\_java\_web where user\_id = 1;* **this**.**sql18** = **"select \* from lp\_shop\_book\_for\_java\_web where user\_id = "** + user\_id + **";"**;  }   **public** String getSql19() {  **return sql19**;  }   **public void** setSql19(String user\_id) {  **this**.**sql19** = **"select A.book\_id as '订单号', C.user\_name as '用户名', B.good\_name as '商品名', "** +  **"A.number as '数量', A.book\_date as '订单日期' from lp\_shop\_book\_for\_java\_web A, "** +  **"lp\_goods\_for\_java\_web B, lp\_uesr\_table\_for\_java\_web C where "** +  **"(A.user\_id = C.user\_id and A.good\_id = B.good\_id) and A.user\_id = "** + user\_id + **";"**;  }   **private** String **sql1**;  **private** String **sql2**;  **private** String **sql3**;  **private** String **sql4**;  **private** String **sql5**;  **private** String **sql6**;  **private** String **sql7**;  **private** String **sql8**;  **private** String **sql9**;  **private** String **sql10**;  **private** String **sqlForGetclass**;  **private** String **sql\_sleep\_table**;  **private** String **sqlForWord2\_1**;  **private** String **sqlForWord2\_2**;  **private** String **sql11**;  **private** String **sql12**;  **private** String **sql13**;  **private** String **sql14**;  **private** String **sql15**;  **private** String **sql16**;  **private** String **sql17**;  **private** String **sql18**;  **private** String **sql19**; }  实验四  **（1）**代码  **没有用到Servlet，而是将Java代码放入JavaBean中，在讲JSP文件中引用，讲数据显示出来**  *<%--  Created by IntelliJ IDEA.  User: liupeng  Date: 2018/10/17  Time: 2:32 PM  To change this template use File | Settings | File Templates. --%>* <%@ **page contentType**="**text/html;charset=UTF-8**" **language**="**java**" %> <%@ **page import**="**JavaBean.linkDatabase.linkDBByDBCP**" %> <%@ **page import**="**JavaBean.linkDatabase.getSQLString**" %> <%@ **page import**="**java.sql.ResultSet**" %> <**html**> <**head**>  <**title**>Java Web Work2 Link Database And Show Data</**title**> </**head**> <**body**>  <**table border="1"**>  <**center**>  **<%** linkDBByDBCP lpLinkDBByDBCP = **new** linkDBByDBCP();  getSQLString lpGetSQLString = **new** getSQLString();  lpGetSQLString.setSqlForWord2\_2();  String sql = lpGetSQLString.getSqlForWord2\_2();   ResultSet resultSet = lpLinkDBByDBCP.getData(sql);   **while**(resultSet.next()) {  String name = resultSet.getString(**"name"**);  String phone = resultSet.getString(**"phone"**);  String email = resultSet.getString(**"email"**);  String title = resultSet.getString(**"title"**);  String content = resultSet.getString(**"content"**);  String time = resultSet.getString(**"time"**);   out.print(**"<tr>"**);  out.print(**"<td>姓名</td>"**);  out.print(**"<td>"**+name+**"</td>"**);  out.print(**"<td>电话</td>"**);  out.print(**"<td>"**+phone+**"</td>"**);  out.print(**"<td>Email</td>"**);  out.print(**"<td>"**+email+**"</td>"**);  out.print(**"<td>题目</td>"**);  out.print(**"<td>"**+title+**"</td>"**);  out.print(**"<td>内容</td>"**);  out.print(**"<td>"**+content+**"</td>"**);  out.print(**"<td>时间</td>"**);  out.print(**"<td>"**+time+**"</td>"**);  out.print(**"</tr>"**);  }  **%>** </**center**> </**table**> </**body**> </**html**>  **用到的辅助工具类特别多，附加地址：https://github.com/liupengzhouyi/Snowman**  **（2）作用：**读取数据库中的数据。  **（3）运行结果：** | | | |
| 实  验  总  结 | 通过本次实验，学习了很多的知识，复习了页面的布局。连接数据库，也知道了数据库对应的jar包很重要。 | | | |