基于Java Servlet 构建的用户信息管理系统

核心功能

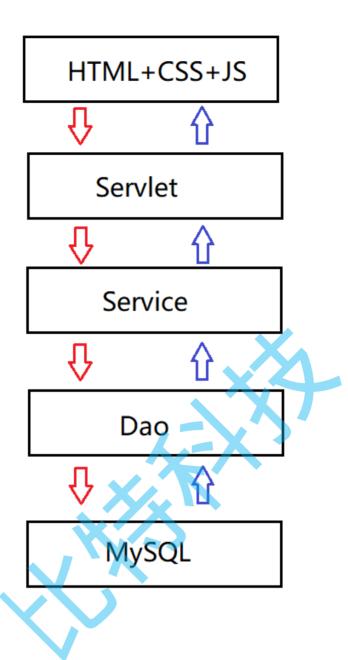
- 1. 登录、注册
- 2. 添加用户信息
- 3. 删除某一个用户信息
- 4. 删除选中的用户信息
- 5. 分页查询所有用户信息
- 6. 模糊查询用户信息
- 7. 更新用户信息

重要知识点

- 1. 简单的Web服务器设计能力
- 2. Java 操作 MySQL 数据库
- 3. 数据库设计
- 4. json 的使用
- 5. 强化 HTTP 协议的理解
- 6. Servlet 的使用
- 7. Java集合的使用
- 8. 前端知识的简单使用如: HTML+CSS+JS

整体架构

项目整体基于HTTP协议,前端使用HTML+CSS+JS构建页面整体布局,后端采用分层结构,分为Servlet层,Service层,Dao层的设计,以达到在设计上的高内聚低耦合。



数据库设计

只需要一张用户表,表示用户的信息

```
drop database if exists usermanger;

create DATABASE if not exists usermanger character set utf8;

use usermanger;

drop table if exists usermessage;
create table `usermessage` (
   `id` INT PRIMARY KEY auto_increment,
   `name` varchar (60),
   `username` varchar (60) default 'bit',
   `password` varchar (60) default '123456',
   `gender` varchar (4),
   `age` int,
```

```
`address` varchar (90),
    `qq` varchar (20),
    `email` varchar (30)
);
INSERT INTO usermessage VALUES(1,'张飞','zhangfei','123','男',18,'成
都','1262913815','126@qq.com');
INSERT INTO usermessage VALUES(2,'关羽','guanyu','1234','男',18,'陕
西','1262913816','1262@qq.com');
INSERT INTO usermessage VALUES(3,'张三','zhangsan','1235','女',19,'陕
西','1262913817','1263@qq.com');
INSERT INTO usermessage VALUES(4,'李四','lisi','1236','男',20,'北京','1262913818','1264@qq.com');
INSERT INTO usermessage VALUES(5,'王五','wangwu','1237','女',21,'陕
西','1262913819','1265@qq.com');
INSERT INTO usermessage VALUES(6,'孙权','sunquan','1238','男',22,'上
海','1262913814','1266@qq.com');
INSERT INTO usermessage VALUES(7,'孙悟空','sunwukong','1239','男',23,'陕
西','1262913813','1267@qq.com');
```

用户+页面管理模块设计

创建entity包

1. 创建User类。

```
* Created with IntelliJ IDEA
* Description:
* User: GAOBO
* Date: 2020-05-20
* Time: 10:47
*/
public class User {
   private int id;
   private String name;
   private String username;
   private String password;
   private String gender;
   private int age;
   private String address;
   private String qq;
   private String email;
   //get set toString 自己实现
}
```

2. 创建分页对象

```
/**
 * Created with IntelliJ IDEA.
 * Description:
```

```
* User: GAOBO

* Date: 2020-05-20

* Time: 10:55

*/

//泛型类的原因: 为了以后好拓展

public class PageBean<T> {
    private int totalCount; //总记录数
    private int totalPage; //总页码
    private List<T> list; //每页中的数据
    private int currentPage; //当前页码
    private int rows; //每页的记录数
    //get set toString 自己实现
}
```

服务器 API 设计

1 关于 Json

Json 是一种常见是数据格式组织方式. 源于 JavaScript, 是一种键值对风格的数据格式. 在Java中 我们可以采用 Jackson库中的ObjectMapper类来完成 Json 的解析和构造。

以下是Maven中的依赖:如何去Maven中查找对应依赖:

代码示例:

提供一个实体类Person

```
public class Person {
   private int id;
   private String name;
   private String password;

public Person() {
      super();
```

```
public Person(int id, String name, String password) {
        this.id = id;
        this.name = name;
        this.password = password;
   }
    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 getPassword() {
        return password;
    public void setPassword(String password)
        this.password = password;
   }
}
```

进行json转换:

```
import com.fasterxml.jackson.core.JsonProcessingException;
import com.fasterxml.jackson.databind.ObjectMapper;

/**

* Created with IntelliJ IDEA.

* Description:

* User: GAOBO

* Date: 2020-05-20

* Time: 15:18

*/
public class Main {
    public static void main(String[] args) throws JsonProcessingException {
        ObjectMapper objectMapper = new ObjectMapper();
        Person person = new Person(1, "tom", "123");
        String jsonString = objectMapper.writeValueAsString(person);

        System.out.println("JsonString: " + jsonString);
```

```
}
```

输出结果为:

```
JsonString: {"id":1,"name":"tom","password":"123"}
```

2 登录

```
请求:
POST /loginServlet

响应:
{msg: true}
```

3添加用户

```
请求:
POST /addServlet
响应:
{msg: true}
```

4 删除某一个用户信息

```
请求:
GET /deleteServlet?id=1
```

5 删除选中的用户信息

```
请求:
POST /deleteSelectedServlet

响应:
{msg: true}
```

6 分页查询所有用户信息

```
请求:
POST /findByPageServlet
data:{currentPage,rows,name,address,email}
响应:
响应中内容为,每一页的用户信息
```

7 模糊查询用户信息

```
请求:
POST /findByPageServlet
data:{currentPage,rows,name,address,email}
响应:
响应体内容为,每一页的用户信息
```

8 更新用户信息

创建一个 JavaWeb 项目

参考《手把手教你创建一个WEB项目》

封装数据库操作

1 创建一个util包

创建JDBCUtils类。

```
/**

* Created with IntelliJ IDEA.

* Description:

* User: GAOBO

* Date: 2020-05-09

* Time: 20:38

*/

public class JDBCUtils {
    private static String url = "jdbc:mysql://127.0.0.1:3306/usermanger?useSSL=false";
    private static String password = "111111";
    private static String username = "root";

    private static Volatile DataSource DATASOURCE;

    private static DataSource getDataSource(){
```

```
if(DATASOURCE == null){
            synchronized (JDBCUtils.class){
                if(DATASOURCE == null){
                    DATASOURCE = new MysqlDataSource();
                    ((MysqlDataSource) DATASOURCE).setUrl(url);
                    ((MysqlDataSource) DATASOURCE).setUser(username);
                    ((MysqlDataSource) DATASOURCE).setPassword(password);
                }
            }
        return DATASOURCE;
   }
    public static Connection getConnection(){
        System.out.println("getConnection1");
        try {
            //从池子里获取连接
            Connection connection = getDataSource().getConnection();
            return connection;
        } catch (SQLException e) {
            e.printStackTrace();
            throw new RuntimeException("获取数据库连接失败");
        }
   }
    public static void close(Connection connection, PreparedStatement statement, ResultSet
resultSet) {
        if(resultSet!=null) {
            try {
                resultSet.close();
            } catch (SQLException e) {
                e.printStackTrace();
        if(statement!=null) {
            try {
                statement.close();
            } catch (SQLException e) {
                e.printStackTrace();
        if(connection!=null) {
            try {
                connection.close();
            } catch (SQLException e) {
                e.printStackTrace();
        }
   }
}
```

2 创建dao包和UserDao类

```
* Created with IntelliJ IDEA.
 * Description:
 * User: GAOBO
 * Date: 2020-05-12
* Time: 23:40
public class UserDao {
   public User login(User loginUser) {
       return null;
   }
    public int add(User addUser) {
       return 0;
    public int delete(int id) {
       return 0;
    public User find(int id) {
       return null;
   }
    public int update(User updateUser) {
       return 0;
    }
         分页查询
         start: 开始查询的起始位置
         rows: 共查询的记录
         map: 包含: currentPage、rows、name、address、email
    public List<User> findByPage(int start, int rows,Map<String, String[]> map) {
       return null;
   }
     * 查询共有多少条记录
    * @param map 包含 name address email
    * @return
    */
    public int findAllRecord(Map<String, String[]> map) {
       return 1;
   }
}
```

3 实现UserDao.login

```
public User login(User loginUser) {
```

```
Connection connection = null;
    PreparedStatement ps = null;
    ResultSet rs = null;
    User user = null;
    try {
        String sql = "select * from usermessage where username=? and password=?";
        connection = JDBCUtils.getConnection();
        ps = connection.prepareStatement(sql);
        ps.setString(1, loginUser.getUsername());
        ps.setString(2,loginUser.getPassword());
        rs = ps.executeQuery();
        if(rs.next()){
            user = new User();
            user.setId(rs.getInt("id"));
            user.setUsername(rs.getString("username"));
            user.setPassword(rs.getString("password"));
            user.setName(rs.getString("name"));
            user.setAddress(rs.getString("address"));
            user.setAge(rs.getInt("age"));
            user.setGender(rs.getString("gender"));
            user.setQq(rs.getString("qq"));
            user.setEmail(rs.getString("email"));
        }
    } catch (SQLException e) {
        e.printStackTrace();
    } finally {
        JDBCUtils.close(connection,ps,rs)
    }
    return user;
}
```

4 实现UserDao.add

```
public int add(User addUser) {
    Connection connection = null;
    PreparedStatement ps = null;
    try {
        String sql="insert into usermessage(name,gender,age,address,qq,email)
values(?,?,?,?,?,?)";
        connection = JDBCUtils.getConnection();
        ps = connection.prepareStatement(sql);
        ps.setString(1, addUser.getName());
        ps.setString(2, addUser.getGender());
        ps.setInt(3,addUser.getAge());
        ps.setString(4, addUser.getAddress());
        ps.setString(5, addUser.getQq());
        ps.setString(6, addUser.getEmail());
        int ret = ps.executeUpdate();
        return ret;
    } catch (SQLException e) {
```

5 实现UserDao.delete

```
public int delete(int id) {
   System.out.println("Delete: "+id);
    //删除成功返回1
    Connection connection = null;
    PreparedStatement ps = null;
    try {
        String sql="delete from usermessage where id=?";
        connection = JDBCUtils.getConnection();
        ps = connection.prepareStatement(sql);
        ps.setInt(1, id);
        int ret = ps.executeUpdate();
        return ret;
   } catch (SQLException e) {
        e.printStackTrace();
    }finally {
        JDBCUtils.close(connection,ps,null);
   }
    return 0;
}
```

6 实现UserDao.find

```
public User find(int id) {
   Connection connection = null;
   PreparedStatement ps = null;
   ResultSet rs = null;
   User user = null;
   String sql = "select * from usermessage where id=?";
   try {
       connection = JDBCUtils.getConnection();
       ps = connection.prepareStatement(sql);
       ps.setInt(1,id);
       rs = ps.executeQuery();
       while(rs.next()){
           user = new User();
           user.setId(rs.getInt("id"));
           user.setUsername(rs.getString("username"));
           user.setPassword(rs.getString("password"));
           user.setName(rs.getString("name"));
            user.setAddress(rs.getString("address"));
```

```
user.setAge(rs.getInt("age"));
    user.setGender(rs.getString("gender"));
    user.setQq(rs.getString("qq"));
    user.setEmail(rs.getString("email"));
}
catch (SQLException e) {
    e.printStackTrace();
}finally {
    JDBCUtils.close(connection,ps,rs);
}
return user;
}
```

7 实现UserDao.update

```
public int update(User updateUser) {
    Connection connection = null;
    PreparedStatement ps = null;
    String sql = "update usermessage set name=?,age=?,gender=?,address=?,qq=?,email=? where
id=?";
   try {
        connection = JDBCUtils.getConnection();
        ps = connection.prepareStatement(sql);
        ps.setString(1, updateUser.getName());
        ps.setInt(2,updateUser.getAge());
        ps.setString(3, updateUser.getGender());
        ps.setString(4, updateUser.getAddress());
        ps.setString(5, updateUser.getQq());
        ps.setString(6, updateUser.getEmail());
        ps.setInt(7,updateUser.getId());
        int ret = ps.executeUpdate();
        return ret;
    } catch (SQLException e) {
        e.printStackTrace();
    }finally {
        JDBCUtils.close(connection,ps,null);
    return 0;
}
```

8 实现UserDao.findByPage

```
public static void setValues(PreparedStatement preparedStatement, Object... values) throws
SQLException {
    System.out.println("====setValues==" + values.length);
    for (int i = 0; i < values.length; i++) {
        preparedStatement.setObject(i + 1, values[i]);
    }</pre>
```

```
分页查询
     start: 开始查询的起始位置
     rows: 共查询的记录
     map: 包含: currentPage、rows、name、address、email
public List<User> findByPage(int start, int rows, Map<String, String[]> map) {
   String sql="select * from usermessage where 1=1";
   StringBuilder s=new StringBuilder(sql);
   Set<String> set = map.keySet();
   List<Object> list =new ArrayList<>();
   for(String key : set){
       String value=map.get(key)[0];
       if(value!=null && !"".equals(value)){
           //有值
           s.append(" and ").append(key).append(" like ? ");
           list.add("%"+value+"%");
   }
   s.append(" limit ?,? ");
   list.add(start);
   list.add(rows);
   //s: select * from usermessage where 1=1 and name like ? and address like ? and email like
? limit ?,?
   //select * from usermessage where 1=1 and name like '%gaobo%' and address like '%陕西%'
   System.out.println("s: "+ s);
   //list: [%gaobo%, %陕西%, %gaobo@bitedu.tech%, 0, 5] -->这是第一页
   System.out.println("list: "+ list);
   Connection connection = null;
   PreparedStatement ps = null;
   ResultSet rs = null;
   List<User> users = new ArrayList<>();
   try {
       connection = JDBCUtils.getConnection();
       ps = connection.prepareStatement(s.toString());
       setValues(ps,list.toArray());
       rs = ps.executeQuery();
       while(rs.next()){
           User user = new User();
           user.setId(rs.getInt("id"));
           user.setUsername(rs.getString("username"));
           user.setPassword(rs.getString("password"));
           user.setName(rs.getString("name"));
           user.setAddress(rs.getString("address"));
```

```
user.setAge(rs.getInt("age"));
    user.setGender(rs.getString("gender"));
    user.setQq(rs.getString("qq"));
    user.setEmail(rs.getString("email"));
    users.add(user);
    }
}catch (SQLException e) {
    e.printStackTrace();
}finally {
    JDBCUtils.close(connection,ps,rs);
}
return users;
}
```

9 实现UserDao.findAllRecord

```
/**
* 查询共有多少条记录
* @param map 包含 name address email
* @return
*/
public int findAllRecord(Map<String, String[]> map) {
    String sql="select count(*) from usermessage where 1=1"
    StringBuilder s=new StringBuilder();
    s.append(sql);
    Set<String> keySet = map.keySet();
    List<Object> list=new ArrayList<>();
    for(String key:keySet){
        String value=map.get(key)[0];
        if(value!=null && !"".equals(value)){
            s.append(" and ").append(key).append(" like ?");
            list.add("%"+value+"%");
        }
    System.out.println("findAllRecord::sql:" + s);
    System.out.println("findAllRecord::list:"+list);
    Connection connection = null;
    PreparedStatement ps = null;
    ResultSet rs = null;
    int count = 0;
    try {
        connection = JDBCUtils.getConnection();
        ps = connection.prepareStatement(s.toString());
        setValues(ps,list.toArray());
        rs = ps.executeQuery();
        if(rs.next()){
            count = rs.getInt(1); //对总记录数赋值 等价于rs.getInt("id");
    } catch (SQLException e) {
        e.printStackTrace();
```

Service层设计实现

```
/**
* Created with IntelliJ IDEA.
 * Description:
 * User: GAOBO
* Date: 2020-05-14
 * Time: 23:17
*/
public class UserService {
   //登录方法
    public User login(User loginUser) {
       UserDao userDao = new UserDao();
       User user = userDao.login(loginUser);
       //System.out.println("UserService "+ user);
       return user;
   }
    //添加方法
    public int add(User addUser) {
       UserDao userDao=new UserDao();
       int i = userDao.add(addUser);
        return i;
   }
    //删除方法
    public int delete(int id) {
       UserDao userDao=new UserDao();
        int i = userDao.delete(id);
        return i;
    //根据id查询
    public User find(int id) {
       UserDao userDao=new UserDao();
       User user = userDao.find(id);
        return user;
   }
    //更新方法
    public int update(User updateUser) {
       UserDao userDao=new UserDao();
       int i = userDao.update(updateUser);
       return i;
    }
     * @param currentPage 当前页
     * @param rows 每页的行数
```

```
* @param map 包含 name address email
     * @return
   public PageBean<User> findAllByPage(int currentPage,int rows,Map<String, String[]> map) {
       PageBean<User> pageBean=new PageBean<>();
       UserDao userDao=new UserDao();
       int totalPage;
       int record = userDao.findAllRecord(map);//查询共有多少条记录
       //总共的页数 totalPage
       if(record%rows==0){
           totalPage=record/rows;
       }else{
           totalPage=record/rows+1;
       }
        * 每一页的开始位置 = (当前页数-1) * 行数
        * 第一页开始位置: (1-1) *5 = 0
        * 第一页开始位置: (2-1) *5 = 5
        */
       int start=(currentPage-1)*rows;
       List<User> users = userDao.findByPage(start, rows, map);
       pageBean.setCurrentPage(currentPage);
       pageBean.setList(users);
       pageBean.setRows(rows);
       pageBean.setTotalCount(record);
       pageBean.setTotalPage(totalPage);
       return pageBean;
   }
}
```

Servlet实现与实现

首先在项目根目录下创建一个 servlet 包。包装实现如下servlet类。

1 LoginServlet实现

```
/**
 * Created with IntelliJ IDEA.
 * Description:
 * User: GAOBO
 * Date: 2020-05-16
 * Time: 23:30
 */
```

```
@WebServlet("/loginServlet")
public class LoginServlet extends HttpServlet {
   protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
       System.out.println("comeheer");
       response.setContentType("application/json;charset=utf-8"); //设置响应数据的数据格式和编
码格式
       String username = request.getParameter("username");
       String password = request.getParameter("password");
       User loginUser =new User(); //创建一个数据库实体类对象
       loginUser.setUsername(username);
       loginUser.setPassword(password);
       UserService userService=new UserService(); //创建service层的对象
       Map<String ,Object> return map = new HashMap<>(); //创建一个map集合, 存放返回到客户端的数
据
       User user = userService.login(loginUser); //调用service层的登方法, 判断是否登录成功
       if (user!=null){
           //说明数据库中有,显示登录成功,把登录信息存入session
           request.getSession().setAttribute("user",user);
           //返回给登录页面json数据
           return_map.put("msg",true);
       }else{
           System.out.println("账号或密码错误");
           //账号或密码错误
           return_map.put("msg",false);
       }
       ObjectMapper mapper = new ObjectMapper(); //利用Jackson将map转化为json对象
       mapper.writeValue(response.getWriter(),return_map);
   }
}
```

2 FindByPageServlet实现

用户进行登录后,需要先进行查询,将查询结果显示到页面上。

```
/**
 * Created with IntelliJ IDEA.
 * Description:
 * User: GAOBO
 * Date: 2020-05-16
 * Time: 20:38
 */
@WebServlet("/findByPageServlet")

public class FindByPageServlet extends HttpServlet {
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
       response.setContentType("application/json;charset=utf-8");
       request.setCharacterEncoding("utf-8");
       String currentPage = request.getParameter("currentPage");//当前页: 1
       String rows = request.getParameter("rows");//几行
       //获取到所有的前端参数: load(rows,currentPage,name,address,email)
       Map<String, String[]> parMap = request.getParameterMap();
       //这里注意一下, java的原生对象是不允许修改的,重新创建map, 修改map就行了
       Map<String, String[]> map = new HashMap<>(parMap);
       map.remove("currentPage");
       map.remove("rows");
       //强制类型转换
       int current = Integer.parseInt(currentPage);//当前页:如第1页
       int row = Integer.parseInt(rows);//行数 5
       //创建service层的对象
       UserService userService=new UserService();
       //查询 一页的5条记录
       PageBean<User> pageBean = userService.findAllByPage(current, row, map);
       ObjectMapper mapper=new ObjectMapper();
       mapper.writeValue(response.getWriter(),pageBean);
}
```

3 修改/更新用户信息实现

- 1. 先根据id,查询当前要修改的用户是否存在。把当前查询到的用户写入session。然后跳转的更新页面(FindUserServlet)。
- 2. 获取到当前用户的session信息,并且返回 (ReturnServlet)。
- 3. 更新完成,提交信息()。

```
/**
 * Created with IntelliJ IDEA.
 * Description:
 * 找到需要更新的用户, 记录到session
 * User: GAOBO
 * Date: 2020-05-18
 * Time: 22:00
 */
@WebServlet("/findUserServlet")
public class FindUserServlet extends HttpServlet {
   protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
       request.setCharacterEncoding("utf-8"); //设置编码格式
       String id = request.getParameter("id"); //获取参数
                                      //将String类型的id转化为INT类型
       int i = Integer.parseInt(id);
       //调用Service层的方法,查询id为i的数据
       UserService userService=new UserService();
       User user = userService.find(i);
```

```
//将user存到session域
request.getSession().setAttribute("user",user);
//跳转到update.html
response.sendRedirect("/update.html");
}

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    this.doPost(request, response);
}

}
```

```
/**
 * Created with IntelliJ IDEA.
 * Description:把刚刚记录到session里面的数据,取出来转化为json.方便在更新页面上预显示信息
 * User: GAOBO
 * Date: 2020-05-18
 * Time: 22:30
@WebServlet("/returnServlet")
public class ReturnServlet extends HttpServlet {
   protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
       response.setContentType("application/json; charset=utf-8");
       Object user = request.getSession().getAttribute("user");
       ObjectMapper mapper=new ObjectMapper();
       mapper.writeValue(response.getWriter(),user);
   }
   protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
       this.doPost(request, response);
   }
}
```

```
/**

* Created with IntelliJ IDEA.

* Description:当修改页面完成修改后,点击提交将新的user信息进行更新

* User: GAOBO

* Date: 2020-05-18

* Time: 23:08

*/
@WebServlet("/updateServlet")
public class UpdateServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    request.setCharacterEncoding("utf-8");
```

```
response.setContentType("application/json; charset=utf-8");
        Object us = request.getSession().getAttribute("user");
        String name = request.getParameter("name");
        String gender = request.getParameter("gender");
        String ageString = request.getParameter("age");
        int age = Integer.parseInt(ageString);
        String address = request.getParameter("address");
        String qq = request.getParameter("qq");
        String email = request.getParameter("email");
        User user= (User) us;
        User updateUser =new User();
        //将id赋给updateUser对象
        updateUser.setId(user.getId());
        updateUser.setName(name);
        updateUser.setGender(gender);
        updateUser.setAge(age);
        updateUser.setAddress(address);
        updateUser.setQq(qq);
        updateUser.setEmail(email);
        //调用Service层的方法,更新
        UserService userService=new UserService();
        int i = userService.update(updateUser);
        Map<String,Object> return_map=new HashMap<>();
        if (i==1){
            return_map.put("msg",true);
        }else{
            return_map.put("msg",false);
        ObjectMapper mapper=new ObjectMapper();
        mapper.writeValue(response.getWriter(),return_map);
   }
}
```

4 删除用户信息实现

4.1 删除单个用户

获取前端参数id.

```
/**
  * Created with Intellij IDEA.
  * Description:
  * User: GAOBO
  * Date: 2020-05-23
  * Time: 23:08
  */
  @WebServlet("/deleteServlet")
  public class DeleteServlet extends HttpServlet {
     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
```

```
ServletException, IOException {
        request.setCharacterEncoding("utf-8");
        String id = request.getParameter("id");
        System.out.println("DeleteServlet: "+id);
        UserService userService=new UserService();
        int i = 0;
        try {
            i = Integer.parseInt(id);
        } catch (NumberFormatException e) {
            e.printStackTrace();
        int result = userService.delete(i);
        if(result==1){
            response.sendRedirect("/list.html");
        }else{
            response.sendRedirect("/list.html");
        }
   }
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        this.doPost(request, response);
   }
}
```

4.2 删除选中用户

获取前端选中的id数组。

```
/**
 * Created with IntelliJ IDEA
 * Description:
 * User: GAOBO
 * Date: 2020-05-24
 * Time: 00:08
*/
@WebServlet("/deleteSelectedServlet")
public class DeleteSelectedServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        request.setCharacterEncoding("utf-8");
        response.setContentType("application/json;charset=utf-8");
        String[] values = request.getParameterValues("id[]");
        System.out.println("deleteSelectedServlet: "+Arrays.toString(values));
        //删除
        int sum=0;
        UserService userService=new UserService();
        Map<String,Object> map=new HashMap<>();
        for(int i=0;i<values.length;i++){</pre>
            int j = Integer.parseInt(values[i]);
            //调用Service层方法删除
            int delete = userService.delete(j);
```

```
sum=sum+delete:
       }
       System.out.println("sum: "+sum);
       //sum==values.length 说明选中的所有元素已经全部删除了
       if(sum==values.length){
           //证明删除成功
           map.put("msg",true);
       }else {
           map.put("msg",false);
       //将map转化为json
       ObjectMapper mapper=new ObjectMapper();
       mapper.writeValue(response.getWriter(),map);
   }
   protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
       this.doPost(request, response);
   }
}
```

前端页面的设计

前端采用HTML+CSS+JS设计。

直接在百度上搜索 "免费网页模板", 能找到很多免费模板网站. 可以直接基于现成的漂亮的页面进行修改.

tips: 做减法比做加法更容易.

将网页模板解压缩, 拷贝到项目的 webapp 或者 web 目录中

网址分享:

http://tpl.amazeui.org/

https://ajz.fkw.com/pro11.html? ta=150&kw=145

前后端服务器数据交互-以登录为例:

后续拓展

- 1. 对用户的字段进行添加如: 用户等级, VIP, 关注人数, 粉丝数, 头像, 手机号等。
- 2. 功能上添加:根据等级进行查询,根据粉丝人数进行查询等。

