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# 登录模块

本章学习目标

- 掌握登录模块的库表设计。
- 了解登录模块的功能。
- 掌握登录模块服务端的功能实现。
- 掌握 Android App 登录页面的开发。

登录模块是整个系统的门户,所有操作都需要先登录系统才得以进行。登录模块的信息验证中不仅涉及用户名和密码的验证,还为登录成功的用户匹配唯一的 token(密钥),方 便在后续章节中实现权限的验证功能。本章将带领读者从创建数据表开始正式学习登录模 块的开发,以及接口的测试。

## 3.1 登录表设计

### 3.1.1 设计表结构

通常一个公司的用户表包含的字段很多,例如,性别、年龄和籍贯等,但员工表必需的字段有用户名和密码。此处为了项目演示方便,暂定四个字段,分别是 fuseraccount(员工工号)、fname(员工姓名)、mobilepassword(登录密码),以及 dapaderment\_id(员工部门)。

### 3.1.2 创建数据表

创建用户表的 SQL 语句如下:

1	create table T_SEC_USER(	
2	<pre>id int not null identity(1,1) primary key,</pre>	
3	fuseraccount nvarchar(20),	员工工号
4	<pre>fname nvarchar(20),</pre>	员工姓名
5	<pre>mobilepassword varchar(50),</pre>	登录密码
6	dapaderment_id int	员工部门
7	)	

### 3.1.3 用户登录、修改密码功能接口

在 SqlserverGenerator 类中指定需要生成的数据表名-> strategy. setInclude("T\_SEC\_USER");运行 SqlserverGenerator 类中的 main()方法,此时控制面板中将打印如图 3.1 所

示的提示信息。



图 3.1 使用 MyBatis-Plus 生成代码

在项目的目录下可以发现,图 3.1 中的文件都已悉数生成。在项目目录下新建 utils 文件夹,创建 RedisOps 工具类,连接 Redis 数据库,并实现存取数据操作,代码如下所示。



在以上代码中,导入 Jedis 包,分别实现了 String 类型和 Object 类型的数据在 Redis 中的存取功能。需要注意的是,在存取 Object 类型时,需要进行字节转换。

### 1. 编辑 TSecUserMapper. xml 文件

在 XML 文件中添加查询用户信息和修改密码的语句,代码如下。

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```
<! -- 登录 -->
1
      < select id = "getLogin" resultMap = "getLogin"
2
    parameterType = "java.lang.String">
3
          SELECT fuseraccount, mobilepassword, fname FROM T SEC USER where
4
5
  fuseraccount = # {fuseraccount}
6
       </select>
7
   <! -- 修改密码 -->
      <update id = "updatePassword">
8
9
            UPDATE T SEC user
            SET MOBILEPASSWORD = # {mobilepassword}
10
11
            WHERE FUSERACCOUNT = # {fuseraccount}
12
          </update>
```

### 2. 编辑 TSecUserMapper 接口文件

```
1
    @ Mapper
2
    public interface TSecUserMapper extends BaseMapper < TSecUser > {
       //登录
3
       User getLogin(@Param("fuseraccount") String fuseraccount);
4
       //修改密码
5
       int updatePassword(@Param("fuseraccount") String fuseraccount,
6
    @Param("mobilepassword") String mobilepassword);
7
8
   }
```

### 3. 编写 TSecUserService 接口

```
1 public interface TSecUserService extends IService < TSecUser > {
```

```
2 //用户登录
```

```
3 User getLogin(@Param("fuseraccount") String fuseraccount);
```

```
4 //修改密码
```

```
5 int updatePassword(@Param("fuseraccount") String fuseraccount,
```

- 6 @Param("mobilepassword") String mobilepassword);
- 7

}

### 4. 编辑 TSecUserServiceImpl 实现类

```
1
    @ Service
2 public class TSecUserServiceImpl extends ServiceImpl < TSecUserMapper,
   TSecUser > implements TSecUserService {
3
   //用户登录
4
   @Override
5
        public User getLogin(String fuseraccount) {
6
7
           return baseMapper.getLogin(fuseraccount);
8
   }
   //修改密码
9
10
      @Override
11
      public int updatePassword(String fuseraccount, String mobilepassword)
12 {
         return baseMapper.updatePassword(fuseraccount,mobilepassword);
13
14
      }
```

46

15 }

### 16 }

### 5. 编辑 TUserController

```
@RestController
1
    @RequestMapping("/user")
2
    public class TUserController {
3
    @Resource
4
        private TSecUserService tSecUserService;
5
        //登录
6
7
        @PostMapping("getLogin")
8
        public Response getLogin(String username, String password) {
9
             //对密码进行 md5 加密
             Jedis jedis = new Jedis ("localhost", 6379);
10
             String pwd = DigestUtils.md5DigestAsHex(password.getBytes());
11
12
             Response < User > response = new Response <>();
             User user = tSecUserService.getLogin(username);
13
             if (user == null) {
14
                response.setCode( - 1);
15
                response.setMessage("用户不存在");
16
17
                return response;
18
             }
19
             if (!user.getMobilepassword().equals(pwd)) {
20
                response. setCode(-1);
21
                response.setMessage("密码错误");
22
                return response;
23
             } else {
                List < RoleAndPower > list1 =
2.4
25
                getRolesAndPowersService.getRolesAndPowers(username);
                List < String > roles = tSecUserService.getRoles(username);
2.6
27
                user.setRoles(roles);
                String token = UUID.randomUUID().toString().replaceAll("-", "");
28
29
                jedis.set(("token " + token).getBytes(),
30
                SerializeUtil.serizlize(list1));
31
                jedis.expire(("token_" + token), 60 * 30 * 2);
32
                System.out.println("token_" + token);
33
                System.out.println(RedisOps.getObject("token_" + token));
34
35
                response.setCode(200);
                response.setHeader("token_" + token);
36
37
                response.setResult(user);
38
                return response;
39
             }
40
         }
    @PutMapping("updatePassword")
41
42
    @ ResponseBody
43 public Response updatePassword(String fuseraccount, String
44
   mobilepassword) {
        TSecUser tSecUser = tSecUserService.queryByCount(fuseraccount);
45
46
        Response < List < String >> response = new Response <>();
        if (tSecUser == null) {
47
```

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response.setCode( -1);
response.setMessage("账户不存在");
return response;
} else {
//对密码进行 md5 加密
String pwd =
<pre>DigestUtils.md5DigestAsHex(mobilepassword.getBytes());</pre>
<pre>int i = tSecUserService.updatePassword(fuseraccount, pwd);</pre>
if (i == 0) {
response.setCode( -1);
response.setMessage("密码修改失败");
return response;
} else {
response.setCode(200);
response.setMessage("密码修改成功");
return response;
}
}
}
}

以上代码中通过用户名和密码实现登录功能,若用户输入的用户名和密码正确则随机 生成 token 字符串,将其保存在 Redis 缓存中,通过 expire()方法设置 token 字符串在 Redis 中的存储时长,最后将用户信息和 token 返回给客户端,该 token 主要用作一些增、删、改操 作时的权限验证,后续的章节中将逐步讲解。

## 3.1.4 用户登录、修改密码功能接口测试

### 1. 用户登录接口测试

在 postman 地址栏中输入登录测试接口地址,调用登录接口,如图 3.2 所示。

/ostman			>
Edit View Help New Import Runner 🖓 V	믑 My Workspace > 《 Invite	\$ <del>.</del> c <sup>3</sup> t <sup>2</sup>	3 û ♡ Sign lr
Post 192.168.1.127.8888/web/user/		t	UILD
POST    V 192.168.1.127.8888/web/user/getlogin?ut Params  Authorization Headers  Body	sername=19100006&password=123456789 Pre-request Script Tests Settings	Send	Save Cookies C
KEY Username	VALUE 19100006	DESCRIPTION	••• Bulk Edi
password           Body         Cookies         Headers (3)         Test Results	123456789	Status: 200 OK Time: 167 ms Size: 321	B Save Response
Pretty         Raw         Preview         Visualize         JSON         ▼           1         0         "code": 200, 1         "message": multiple: 1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	500607c*, 2223340151105*,		
12 } 13 2 L Find and Replace 5 Console		🔁 Bootcamp	E • h

图 3.2 登录接口测试

### 2. 修改密码接口测试

在 postman 地址栏中输入修改密码测试接口地址,调用登录接口,如图 3.3 所示。

Postman File Edit View Help			- <b>-</b> ×
⊕ New Import Runner      □      ✓	문 My Workspace 🎽 🖧 Invite	<b>Z</b> c, \$	ậ ♡ Sign In
① PUT 192.168.1.127:8888/web/user/ ● ⊕ ∞∞		t	• © ‡‡
oo Untitled Request			BUILD
PUT = 192.168.1.127:8888/web/user/upda	atePassword?fuseraccount=19100006&mobilepasswo	rd=000000 Send	Save •
Params Authorization Headers (8) Body	γ Pre-request Script Tests Settings		Cookies Code
KEY	VALUE	DESCRIPTION	••• Bulk Edit
≡ 🗹 fuseraccount	19100006		×
Body Cookies Headers (3) Test Results	Status: 200	OK Time: 116 ms Size: 187 B	Save Response ▼
1 g 2 "code": 200, 3 "message": "东码修改功".	·		
4 "header": null, 5 "result": null			
Q Find and Replace 📴 Console		🗇 Bootcamp	D 💀 🖌 🕐

图 3.3 修改密码接口测试

## 3.2 实现登录功能

## 3.2.1 用户登录与记住密码

在实际项目开发过程中,登录功能通常是必不可少的,此功能主要包含用户登录、修改用 户密码和记住用户密码。接下来通过讲解关键代码,使读者理解与掌握登录功能的实现过程。

### 1. 编写登录 View

编写代码,实现效果如图 1.4 所示。

```
<?xml version = "1.0" encoding = "utf - 8"?>
<LinearLayout xmlns: android = "http://schemas.android.com/apk/res/android"
android: layout_width = "wrap_content"
android: layout_height = "match_parent"
android: background = " # ffffff"
android: filterTouchesWhenObscured = "true"
android: orientation = "vertical">
< RelativeLayout
android: id = "@ + id/login_layout"
android: layout_width = "wrap_content"
android: layout_height = "658dp"
android: layout_marginLeft = "20dp"
```

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```
android: layout marginRight = "20dp"
android: gravity = "center"
android: orientation = "vertical">
< ImageView
    android: id = "@ + id/logo"
    android: layout width = "150dp"
    android: layout height = "150dp"
    android: layout centerHorizontal = "true"
    android: layout marginTop = "30dp"
    android: layout marginBottom = "20dp"
    android: src = "@drawable/linshi" />
< RelativeLayout
    android: id = "@ + id/one"
    android: layout_width = "match_parent"
    android: layout height = "wrap content"
    android: layout_below = "@id/logo"
    android: layout_marginTop = "0dp"
    android: orientation = "vertical">
    < EditText
        android: id = "@ + id/account"
        android: layout width = "fill parent"
        android: layout_height = "43dp"
        android: layout marginTop = "5dp"
        android: hint = "请输入工号"
        android: maxLength = "20"
        android: paddingLeft = "45dp"
        android: paddingRight = "60dp"
        android: text = ""
        android: textSize = "20dp" />
    < ImageView
        android: layout width = "28dp"
        android: layout height = "30dp"
        android: layout gravity = "left|center horizontal"
        android: layout marginStart = "8dp"
        android: layout_marginLeft = "8dp"
        android: layout_marginTop = "@dimen/px16"
        android: src = "@mipmap/account"
        android: visibility = "visible" />
    < RelativeLayout
        android: layout width = "match parent"
        android: layout height = "wrap content"
        android: layout_marginTop = "50dp"
        android: orientation = "horizontal">
        < EditText
             android: id = "@ + id/password"
             android: layout_width = "fill_parent"
             android: layout_height = "43dp"
             android: hint = "请输入密码"
             android: inputType = "textPassword"
             android: maxLength = "20"
```

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```
android: paddingLeft = "45dp"
                     android: paddingRight = "60dp"
                      android: text = ""
                     android: textSize = "20dp" />
                 < ImageView
                     android: layout width = "28dp"
                     android: layout height = "30dp"
                     android: layout gravity = "left | center vertical"
                     android: layout marginStart = "8dp"
                     android: layout marginLeft = "8dp"
                     android: layout marginTop = "@dimen/px8"
                     android: src = "@mipmap/password" />
             </RelativeLayout>
             < Button
                 android: id = "@ + id/btn click"
                 android: layout_width = "fill_parent"
                 android: layout_height = "40dp"
                 android: layout marginLeft = "5dp"
                 android: layout marginTop = "100dp"
                 android: layout marginRight = "5dp"
                 android: background = " # ff336699"
                 android: gravity = "center"
                 android: text = "登
                                        걐.
                 android: textColor = "@android: color/white" />
             < CheckBox
                 android: id = "@ + id/checkBoxLogin"
                 android: layout_width = "wrap_content"
                 android: layout height = "wrap content"
                 android: layout marginLeft = "8dp"
                 android: layout marginTop = "145dp"
                 android: layout marginRight = "5dp"
                 android: checked = "true"
                 android: text = "记住用户名和密码"
                 android: textColor = " # ff0000"
                 android: textSize = "@dimen/px30" />
             < TextView
                 android: id = "@ + id/btn_update"
                 android: layout_width = "wrap_content"
                 android: layout height = "wrap content"
                 android: layout marginLeft = "@dimen/px530"
                 android: layout marginTop = "150dp"
                 android: background = " # ffffff"
                 android: text = "更改密码"
                 android: textColor = " # ff0000"
                 android: textSize = "@dimen/px30" />
        </RelativeLayout >
    </RelativeLayout>
</LinearLayout >
```

在以上代码中,在 RelativeLayout 布局(即相对布局)中设置 android: orientation =

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"vertical",表示此时的排列方式为垂直方向。android:gravity="center",表示该布局中子 控件要居中显示。android:layout\_marginLeft="20dp",表示距离左边框的距离为 20dp。 android:layout\_marginRight="20dp",表示距离右边框的距离为 20dp。android:layout\_ marginTop="30dp",表示距离顶部边框的距离为 30dp。android:layout\_marginBottom= "20dp",表示距离底部边框的距离为 20dp。在相对布局中,设置 android:layout\_ centerHorizontal="true",表示将控件置于水平方向的中心位置。设置 android: paddingLeft="45dp",padding 为内边框,指该控件内部内容(如文本/图片距离该控件)的 边距,在本例中id 为 account 的 EditText 控件中,表示 hint 内容左内边距为 45dp。

### 2. 编写登录接口

@POST("user/getLogin")

Observable < Response < UserInfo >> login(@Query("username") String username, @Query("password") String password);

该接口传入用户工号与密码即可实现登录操作。

### 3. 编写登录 Controller

在 com. qianfeng. mis. ui. login 包下新建 LoginActivity 类,该类用于登录、自动登录与记住密码。具体代码如下所示。

```
public class LoginActivity extends BaseActivity implements
 View. OnClickListener {
    private Button btnClick;
    private EditText userid;
    private EditText password;
    private TextView tvupdate;
    private String username;
    private String pwd;
    private CheckBox checkbox;
    @Override
    protected int setLayoutResId() {
        return R. layout. activity login;
    @Override
    public void initView() {
        btnClick = findViewById(R.id.btn click);
        tvupdate = findViewById(R.id.btn update);
        userid = findViewById(R.id.account);
        password = findViewById(R.id.password);
        checkbox = findViewById(R.id.checkBoxLogin);
        btnClick.setOnClickListener(LoginActivity.this);
        tvupdate.setOnClickListener(LoginActivity.this);
        checkbox.setOnClickListener(LoginActivity.this);
        String fuseraccount = SharedPreferencesHelperScan.getInstance(this).
        getStringValue("us");
        String pwd = SharedPreferencesHelperScan.getInstance(this).getStringValue("pa");
        userid.setText(fuseraccount);
        password.setText(pwd);
```

```
}
    @Override
    public void onClick(View view) {
        switch (view.getId()) {
            case R. id. btn click:
                username = userid.getText().toString().trim();
                pwd = password.getText().toString().trim();
                if (TextUtils.isEmpty(username) || TextUtils.isEmpty(pwd)) {
                     ToastUitl.showShort("请输入用户名或密码");
                 }
                else {
                     if (checkbox.isChecked()) {
                     //记住密码
                      SharedPreferencesHelperScan.getInstance(this).
                      putStringValue("us", username);
SharedPreferencesHelperScan.getInstance(this).putStringValue("pa", pwd);
                     else {
SharedPreferencesHelperScan.getInstance(this).putStringValue("us", "");
   SharedPreferencesHelperScan.getInstance(this).putStringValue("pa", "");
                     login(username, pwd); //登录
                 }
                break;
            case R.id.btn update:
                Intent intent = new Intent(LoginActivity.this,
                UpdatePasswordActivity.class);
                 startActivity(intent);
            default:
                break;
        }
    }
    private void login(String username, String pwd) {
        RestClient.getInstance()
                 .getStatisticsService()
                 .login(username, pwd)
                .subscribeOn(Schedulers.io())
                 .compose(bindToLifecycle())
                .observeOn(AndroidSchedulers.mainThread())
                 .subscribe(response -> {
                     if (response.getCode() == 200) {
                         //登录成功,保存用户所有信息
SharedPreferencesHelperScan.getInstance(this).setUserBean(response.getResult());
                         //保存 token
                         if (response.getHeader() != null) {
SharedPreferencesHelperScan.getInstance(this).putStringValue("token",
response.getHeader());
                         //将用户名保存下来
SharedPreferencesHelperScan.getInstance(this).putStringValue("username", username);
```

```
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```

```
SharedPreferencesHelperScan.getInstance(this).putStringValue("fname", response.getResult()
.getFname());
                         ToastUitl. showShort("登录成功");
                         //跳转到主界面
                         Intent intent = new Intent(LoginActivity.this,
                         WorkActivity.class);
                         intent.putExtra("fname", response.getResult().getFname());
                         intent. putExtra ( " fuseraccount ", response. getResult ().
getFuseraccount());
                         startActivity(intent);
                     } else {
                         ToastUitl.showShort("登录失败 " + response.getMessage());
                }, throwable -> {
                    ToastUitl.showShort(throwable.getMessage());
                });
   }
}
```

在 LoginActivity 类中,首先对各个控件进行初始化与设置监听事件,通过 SharedPreferencesHelperScan帮助类取出用户保存的工号与密码并设置到对应的 EditText中。在 onClick(View view)方法中,对用户输入的工号与密码进行判断,如果选择记 住密码,则调用 SharedPreferencesHelperScan帮助类的 putStringValue()方法将工号与密码保 存,然后调用 login(String username, String pwd)方法完成登录操作,并且把 UserBean 与 token 保存下来用于后面的操作。

### 3.2.2 修改用户密码

```
1. 编写修改用户密码 View
```

编写代码,实现如图 3.4 所示的效果。

```
<?xml version = "1.0" encoding = "utf - 8"?>
< LinearLayout xmlns: android = " http://schemas.
android.com/apk/res/android"
    android: layout width = "wrap content"
    android: layout_height = "match_parent"
    android: orientation = "vertical"
    android: background = " # ffffff"
    android: filterTouchesWhenObscured = "true">
    < TextView
        android: id = "@ + id/tv_scanResult"
        android: layout_width = "match_parent"
        android: layout height = "40dp"
        android: layout marginTop = "Odp"
        android: gravity = "center"
        android: text = "密码修改页面"
        android: textSize = "20dp"
```



图 3.4 修改密码

```
android: background = " # 336699"
    android: textColor = " # ffffff"/>
< RelativeLayout
    android: id = "@ + id/login layout"
    android: layout width = "wrap content"
    android: layout height = "658dp"
    android: layout marginLeft = "20dp"
    android: layout marginRight = "20dp"
    android: gravity = "center"
    android: orientation = "vertical">
    < RelativeLayout
        android: id = "@ + id/one"
        android: layout_width = "match_parent"
        android: layout height = "match parent"
        android: layout marginTop = "150dp"
        android: orientation = "vertical">
        < EditText
             android: id = "@ + id/account"
             android: layout width = "fill parent"
             android: layout height = "43dp"
             android: layout marginTop = "5dp"
             android: hint = "请输入工号"
             android: maxLength = "20"
             android: paddingLeft = "55dp"
             android: paddingRight = "60dp"
             android: text = ""
             android: textSize = "20dp" />
        < ImageView
             android: layout width = "31dp"
             android: layout height = "35dp"
             android: layout gravity = "left|center horizontal"
             android: layout marginStart = "8dp"
             android: layout marginLeft = "8dp"
             android: src = "@mipmap/account"
             android: visibility = "visible" />
        < RelativeLayout
             android: layout_width = "match_parent"
             android: layout_height = "match_parent"
             android: layout marginTop = "50dp"
             android: orientation = "horizontal">
             < EditText
                 android: id = "@ + id/password"
                 android: layout width = "fill parent"
                 android: layout height = "43dp"
                 android: hint = "请输入新密码"
                 android: inputType = "textPassword"
                 android: maxLength = "20"
                 android: paddingLeft = "55dp"
                 android: paddingRight = "60dp"
```

```
22
```

```
android: text = ""
                      android: textSize = "20dp" />
                 < ImageView
                      android: layout width = "31dp"
                      android: layout height = "35dp"
                      android: layout gravity = "left|center vertical"
                      android: layout marginStart = "8dp"
                      android: layout_marginLeft = "8dp"
                      android: src = "@mipmap/password" />
                 < RelativeLayout
                      android: layout width = "match parent"
                      android: layout_height = "match_parent"
                      android: layout_marginTop = "50dp"
                      android: orientation = "vertical">
                      < EditText
                          android: id = "@ + id/repassword"
                          android: layout_width = "fill_parent"
                          android: layout height = "43dp"
                          android: hint = "请再次输入新密码"
                          android: inputType = "textPassword"
                          android: maxLength = "20"
                          android: paddingLeft = "55dp"
                          android: paddingRight = "60dp"
                          android: text = ""
                          android: textSize = "20dp" />
                      < ImageView
                          android: layout_width = "31dp"
                          android: layout height = "35dp"
                          android: layout gravity = "left|center vertical"
                          android: layout marginStart = "8dp"
                          android: layout marginLeft = "8dp"
                          android: src = "@mipmap/password" />
                 </RelativeLayout>
             </RelativeLayout>
             < Button
                 android: id = "@ + id/btn_commit"
                 android: layout_width = "fill_parent"
                 android: layout_height = "40dp"
                 android: layout marginLeft = "5dp"
                 android: layout_marginRight = "5dp"
                 android: layout marginTop = "200dp"
                 android: background = " # ff336699"
                 android: gravity = "center"
                 android: text = "提 交"
                 android: textColor = "@android: color/white" />
        </RelativeLayout >
    </RelativeLayout>
</LinearLayout >
```

在该页面,所用的布局与控件较为简单,主要通过三个 EditText 来收集数据,通过

Button 提交相关数据。

### 2. 编写修改用户密码接口

```
@PUT("user/updatePassword")
```

```
Observable < Response < UserInfo >> updatePassword ( @ Query ( " fuseraccount") String
fuseraccount, @Query("mobilepassword") String mobilepassword);
```

该接口有两个参数,分别是工号 fuseraccount 与新密码 mobilepassword,通过调用该接口实现修改用户密码。

### 3. 编写修改用户密码 Controller

在 com. qianfeng. mis. ui. login 包下新建 UpdatePasswordActivity,该 Activity 用于修改密码。关键代码如下所示。

```
public class UpdatePasswordActivity extends BaseActivity implements
View.OnClickListener {
    private Button btncommit;
   private EditText userid;
    private EditText password;
    private EditText repassword;
    private String username;
    private String pwd;
   private String repwd;
    @Override
    protected int setLayoutResId() {
        return R. layout. activity_update_password;
    @Override
    public void initView() {
        btncommit = findViewById(R.id.btn commit);
        userid = findViewById(R.id.account);
        password = findViewById(R.id.password);
        repassword = findViewById(R.id.repassword);
        btncommit.setOnClickListener(UpdatePasswordActivity.this);
    @Override
    public void onClick(View view) {
        username = userid.getText().toString().trim();
        pwd = password.getText().toString().trim();
        repwd = repassword.getText().toString().trim();
        if(TextUtils.isEmpty(username)&&TextUtils.isEmpty(pwd)){
            ToastUitl.showShort("用户名或密码不能为空");
        }else if (pwd.equals("")&&repwd.equals("")) {
            //判断两次密码是否为空
            Toast.makeText(getApplicationContext(), "密码不能为空",
                    Toast.LENGTH_SHORT).show();
        }else if (!pwd.equals(repwd)){
            Toast.makeText(getApplication(), "密码不一致,请重新输入",
```

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```
Toast.LENGTH SHORT).show();
        }else {
            updatePassword(username, pwd);
        }
    public void updatePassword(String username, String pwd){
        RestClient.getInstance()
                .getStatisticsService()
                .updatePassword(username, pwd)
                 .subscribeOn(Schedulers.io())
                 .compose(bindToLifecycle())
                 .observeOn(AndroidSchedulers.mainThread())
                 .subscribe(response -> {
                     if (response.getCode() == 200) {
                         ToastUitl.showShort("密码修改成功,请重新登录");
                         Intent intent = new Intent(UpdatePasswordActivity.this,
                         LoginActivity.class);
                         startActivity(intent);
                         finish();
                     } else {
                         ToastUitl.showShort(response.getMessage());
                 }, throwable -> {
                });
   }
}
```

在 UpdatePasswordActivity 中,首先对各个控件进行初始化并设置监听事件,在 onClick(View view)方法中,获取用户输入的内容并做判断,然后调用 updatePassword (String username, String pwd)方法进行密码的修改。

## 3.3 实现首页页面

## 3.3.1 首页页面

### 1. 编写首页页面 View

编写代码,实现效果如图 1.5 所示。

```
<?xml version = "1.0" encoding = "utf - 8"?>
<LinearLayout
xmlns: android = "http://schemas.android.com/apk/res/android"
android: layout_width = "match_parent"
android: layout_height = "match_parent"
android: clipChildren = "false"
android: orientation = "vertical">
<FrameLayout
android: id = "@ + id/fl_mains"</pre>
```

```
android: layout width = "match parent"
    android: layout height = "Odp"
    android: layout weight = "1">
</FrameLayout >
< View
    android: layout width = "match parent"
    android: layout height = "0.3dp"
    android: background = " # 336666666" />
< RadioGroup
    android: id = "@ + id/radioGroup"
    android: layout width = "match parent"
    android: layout height = "56dp"
    android: layout_gravity = "bottom | center"
    android: background = " # eee"
    android: clipChildren = "false"
    android: gravity = "center"
    android: orientation = "horizontal">
    < RadioButton
         android: id = "@ + id/rb home"
         android: layout width = "Odp"
         android: layout height = "match parent"
         android: layout weight = "1"
         android: background = "@null"
         android: button = "@null"
         android: drawablePadding = "6dp"
         android: gravity = "center"
         android: padding = "5dp"
         android: text = "工作台"
         android: textColor = "@color/navigator color" />
    < RadioButton
         android: id = "@ + id/rb pond"
         android: layout width = "Odp"
         android: layout height = "match parent"
         android: layout weight = "1"
         android: background = "@null"
         android: button = "@null"
         android: drawablePadding = "6dp"
         android: gravity = "center"
         android: padding = "5dp"
         android: text = "待办"
         android: textColor = "@color/navigator color" />
    < LinearLayout
         android: gravity = "center horizontal"
         android: orientation = "vertical"
         android: layout width = "Odp"
         android: layout_weight = "1"
         android: layout_height = "110dp">
         < ImageView
             android: id = "@ + id/rbAdd"
             android: layout width = "55dp"
```

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```
android: layout height = "55dp"
                 android: src = "@mipmap/comui tab post" />
             < TextView
                 android: textColor = "@color/black"
                 android: text = "发布"
                 android: padding = "5dp"
                 android: layout width = "wrap content"
                 android: layout height = "wrap content" />
        </LinearLayout >
        < RadioButton
             android: id = "@ + id/rb message"
             android: layout width = "Odp"
             android: layout height = "match parent"
             android: layout_weight = "1"
             android: background = "@null"
             android: button = "@null"
             android: drawablePadding = "6dp"
             android: gravity = "center"
             android: padding = "5dp"
             android: text = "动态"
             android: textColor = "@color/navigator color" />
        < RadioButton
             android: id = "@ + id/rb me"
             android: layout width = "Odp"
             android: layout_height = "match_parent"
             android: layout weight = "1"
             android: background = "@null"
             android: button = "@null"
             android: drawablePadding = "6dp"
             android: gravity = "center"
             android: padding = "5dp"
             android: text = "我的"
             android: textColor = "@color/navigator_color" />
    </RadioGroup>
</LinearLayout >
```

以上代码中,使用帧布局 FrameLayout 来加载要被替换的 Fragment,在帧布局中使用 android: layout\_weight = "1",使其占满整个空间,通过底部的 RadioButton 来切换 Fragment。

### 2. 编写首页页面 Controller

在 com. qianfeng. mis. ui. sale 包下新建 WorkActivity,该 Activity 为主 Activity。具体 代码如下所示。

```
public class WorkActivity extends BaseActivity {
    ...
        private WorkMainFragment mWorkMainFragment;
        private NewsFragment mNewsFragment1;
        private NewsFragment mNewsFragment2;
        private NewsFragment mNewsFragment3;
        private Fragment mContent;
```

```
@Override
protected int setLayoutResId() {
    return R. layout. activity work;
@Override
public void initView() {
    initListener();
                               //默认选中工作台
    mRbHome.setChecked(true);
    Drawable dbHome = getResources().getDrawable(R.drawable.selector home);
    dbHome.setBounds(0, 0, UIUtils.dip2Px(this, 20), UIUtils.dip2Px(this, 20));
    mRbHome.setCompoundDrawables(null, dbHome, null, null);
    Drawable dbPond = getResources().getDrawable(R.drawable.selector pond);
    dbPond.setBounds(0, 0, UIUtils.dip2Px(this, 20), UIUtils.dip2Px(this, 20));
    mRbPond.setCompoundDrawables(null, dbPond, null, null);
    Drawable dbMsg = getResources().getDrawable(R.drawable.selector message);
    dbMsg.setBounds(0, 0, UIUtils.dip2Px(this, 20), UIUtils.dip2Px(this, 20));
    mRbMessage.setCompoundDrawables(null, dbMsg, null, null);
    Drawable dbMe = getResources().getDrawable(R.drawable.selector person);
    dbMe.setBounds(0, 0, UIUtils.dip2Px(this, 20), UIUtils.dip2Px(this, 20));
    mRbMe.setCompoundDrawables(null, dbMe, null, null);
    initFragment();
private void initFragment() {
    FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();
    if (mWorkMainFragment != null && mWorkMainFragment.isAdded()) {
        transaction.remove(mWorkMainFragment);
    ļ
    if (mNewsFragment1 != null && mNewsFragment1.isAdded()) {
        transaction.remove(mNewsFragment1);
    }
    if (mNewsFragment2 != null && mNewsFragment2.isAdded()) {
        transaction.remove(mNewsFragment2);
    if (mNewsFragment3 != null && mNewsFragment3.isAdded()) {
        transaction.remove(mNewsFragment3);
    transaction.commitAllowingStateLoss();
    mWorkMainFragment = null;
    mNewsFragment1 = null;
    mNewsFragment2 = null;
    mNewsFragment3 = null;
    mRbHome.performClick();
private void initListener() {
    mRadioGroup.setOnCheckedChangeListener() {
        @Override
        public void onCheckedChanged(RadioGroup group, int checkedId) {
            switch (checkedId) {
                case R. id. rb home:
                     switchContent(mRbHome);
                     break;
                case R. id. rb_pond:
```

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```
switchContent(mRbPond);
                     break;
                 case R. id. rb message:
                     switchContent(mRbMessage);
                     break;
                 case R.id.rb me:
                     switchContent(mRbMe);
                     break;
                 default:
                     break;
             }
        }
    });
    mRbAdd.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
        }
    });
public void switchContent(View view) {
    Fragment fragment;
    if (view == mRbHome) {
        if (mWorkMainFragment == null) {
            mWorkMainFragment = new WorkMainFragment();
        }
        fragment = mWorkMainFragment;
    } else if (view == mRbPond) {
        if (mNewsFragment1 == null) {
            mNewsFragment1 = new NewsFragment();
        }
        fragment = mNewsFragment1;
    } else if (view == mRbMessage) {
        if (mNewsFragment2 == null) {
            mNewsFragment2 = new NewsFragment();
        }
        fragment = mNewsFragment2;
    } else if (view == mRbMe) {
        if (mNewsFragment3 == null) {
            mNewsFragment3 = new NewsFragment();
        }
        fragment = mNewsFragment3;
    } else {
        return;
    }
    FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();
    if (mContent == null) {
        transaction.add(mFlMains.getId(), fragment).commit();
        mContent = fragment;
    }
```

}

```
if (mContent != fragment) {
    if (!fragment.isAdded()) {
        transaction. hide (mContent). add (mFlMains. getId (), fragment).
commitAllowingStateLoss();
    } else {
        transaction.hide(mContent).show(fragment).commitAllowingStateLoss();
     }
     mContent = fragment;
    }
}
```

在 WorkActivity 类中,在 initView()方法中,首先调用 initListener()方法对 RadioGroup 进行事件监听,通过 mRbHome. setChecked(true)方法默认选中工作台 Fragment。在 initFragment()方法中对 Fragment 进行初始化操作,在 switchContent (View view)方法中显示选中的 Fragment。

## 3.3.2 工作台页面

### 1. 编写工作台页面 View

编写代码,实现效果如图 1.5 所示。

```
<?xml version = "1.0" encoding = "utf - 8"?>
< android.support.v4.widget.NestedScrollView xmlns: android = "http://schemas.android.com/</pre>
apk/res/android"
    xmlns: app = "http://schemas.android.com/apk/res - auto"
    android: id = "@ + id/refreshLayout"
    android: layout_width = "match_parent"
    android: layout_height = "match_parent"
    android: background = " # fff"
    android: orientation = "vertical">
    < LinearLayout
         android: layout width = "match parent"
         android: layout_height = "match parent"
         android: gravity = "center horizontal"
         android: orientation = "vertical">
         < include layout = "@layout/title" />
         < com. gianfeng. mis. view. BannerLayout
xmlns: app = "http://schemas.android.com/apk/res - auto"
             android: id = "@ + id/bannerLayout"
             android: layout width = "match parent"
             android: layout_height = "@dimen/px340"
             app: autoPlayDuration = "4000"
             app: indicatorMargin = "5dp"
             app: indicatorPosition = "rightBottom"
             app: indicatorShape = "oval"
             app: indicatorSpace = "3dp"
             app: isAutoPlay = "true"
```

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```
app: scrollDuration = "900"
             app: selectedIndicatorColor = " # 222222"
             app: selectedIndicatorHeight = "4dp"
             app: selectedIndicatorWidth = "4dp"
             app: unSelectedIndicatorColor = " # 999"
             app: unSelectedIndicatorHeight = "4dp"
             app: unSelectedIndicatorWidth = "4dp">
        </com.gianfeng.mis.view.BannerLayout>
        < RelativeLayout
             android: layout width = "match parent"
             android: layout height = "wrap content">
             < android. support. v7. widget. RecyclerView
                 android: id = "@ + id/icon_selected"
                 android: layout_width = "match_parent"
                 android: layout height = "wrap content"
                 android: layout_margin = "@dimen/px20"
                 android: background = "@drawable/stoke_ele2e4"
                 android: overScrollMode = "never" />
        </RelativeLayout>
        < LinearLayout
             android: layout width = "match parent"
             android: layout height = "wrap content"
             android: layout margin = "@dimen/px20"
             android: background = "@drawable/stoke f9ebc5"
             android: orientation = "vertical">
             < TextView
                 style = "@style/textview_333_30"
                 android: layout marginLeft = "@dimen/px30"
                 android: layout marginTop = "@dimen/px30"
                 android: text = "产品中心"
                 android: textColor = " # F00"
                 android: textSize = "@dimen/px34" />
             < android. support. v7. widget. RecyclerView
                 android: id = "@ + id/rv chanpin"
                 android: layout_width = "match_parent"
                 android: layout_height = "wrap_content"
                 android: overScrollMode = "never" />
        </LinearLayout >
    </LinearLayout >
</android.support.v4.widget.NestedScrollView>
```

在该页面,由于有的手机屏幕较小,需要一个支持嵌套滑动 NestedScrollView 包裹整 个布局。NestedScrollView 与 ScrollView 比较类似,其作用就是作为控件父布局,从而具 备(嵌套)滑动功能。通过 include 标签可以将相同的布局引入,从而避免每次编写重复代 码。使用自定义的 BannerLayout 实现轮播图效果。各个功能导航按钮与产品中心都是使 用 RecyclerView 实现。

### 2. 编写工作台页面 Controller

在 com. qianfeng. mis. ui. sale 包下新建 WorkMainFragment,该 Fragment 用于工作台

```
public class WorkMainFragment extends BaseFragment {
    private int[] iconList = {
            R.drawable.caishen 1, R.drawable.caishen 2, R.drawable.caishen 3, R.drawable.
caishen 4, R.drawable.caishen 5, R.drawable.caishen 6,
            R.drawable.caishen 7, R.drawable.caishen 8, R.drawable.caishen 9, R.drawable.
caishen 10, R. drawable. caishen 11, R. drawable. caishen 12,
    };
    private String[] nameList = {
            "客户资料", "任务/跟进", "销售机会", "报价记录", "合同/订单", "回款记录",
            "客户公共池", "产品信息", "数据审核", "费用报销", "库存出货", "更多"};
    private int[] mIconbenner = {
            R.mipmap.banner 1, R.mipmap.banner 2,
            R.mipmap.banner 3};
    int[] mChanpinlist = {
            R.mipmap.hm zd240, R.mipmap.hm zd350a,
            R.mipmap.hm_zd350d, R.mipmap.hm_zd350e600,};
    String[] mChanpinnameList1 = {
            "移动产业", "千锋教育",
            "项目研发", "创业孵化"};
    @Override
    protected int setLayoutResId() {
        return R. layout. fragment workmain;
    @Override
    public void initView() {
        mTitle.setText("工作台(" + SharedPreferencesHelperScan.getInstance(getActivity
()).getStringValue("fname") + ")");
        //轮播图
        initBannerData();
        //导航图标
        setIcon();
        //产品中心
        LinearLayoutManager linearLayoutManager = new LinearLayoutManager(getContext());
        linearLayoutManager.setOrientation(LinearLayoutManager.HORIZONTAL);
        mRvChanpin.setLayoutManager(linearLayoutManager);
        List < IconInfo > list1 = new ArrayList < >();
        for (int i = 0; i < mChanpinlist.length; i++) {</pre>
            IconInfo iconInfo = new IconInfo();
            iconInfo.setImage(mChanpinlist[i]);
            iconInfo.setName(mChanpinnameList1[i]);
            list1.add(iconInfo);
        }
        ChanpinMainAdapter chanpinMainAdapter = new ChanpinMainAdapter(list1);
        mRvChanpin.setAdapter(chanpinMainAdapter);
    //初始化轮播图
```

```
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```
private void initBannerData() {
    if (mIconbenner != null && mIconbenner.length > 0) {
        List < Integer > urls = new ArrayList <>();
        for (int i = 0; i < mIconbenner.length; i++) {</pre>
             urls.add(mIconbenner[i]);
             if (mIconbenner.length > 1) {
                 mBannerLayout.setAutoPlay(true);
             } else {
                 mBannerLayout.setAutoPlay(false);
             }
         }
        if (urls != null && urls.size() > 0) {
            mBannerLayout.setViewRes(urls);
        }
            mBannerLayout.setOnBannerItemClickListener(new BannerLayout.
            OnBannerItemClickListener() {
             @Override
             public void onItemClick(int position) {
        });
    }
}
//设置导航图标
private void setIcon() {
    mIconSelected.setLayoutManager(new GridLayoutManager(getActivity(), 4));
    List < IconInfo > list = new ArrayList <>();
    for (int i = 0; i < iconList.length; i++) {</pre>
        IconInfo iconInfo = new IconInfo();
        iconInfo.setImage(iconList[i]);
        iconInfo.setName(nameList[i]);
        list.add(iconInfo);
    }
    IconMainAdapter icon main adapter = new IconMainAdapter(list);
    mIconSelected.setAdapter(icon main adapter);
    icon_main_adapter.setOnItemClickListener(new BaseQuickAdapter.OnItemClickListener() {
        @Override
        public void onItemClick(BaseQuickAdapter adapter, View view, int position) {
             if (list.get(position).getName().equals("客户资料")) {
                 Intent intent = new Intent(getActivity())
                 , CustomerListActivity.class);
                 startActivity(intent);
             } else if (list.get(position).getName().equals("任务/跟进")) {
                 Intent intent = new Intent(getActivity(),
                 CustomGenjinActivity.class);
                 startActivity(intent);
             } else if (list.get(position).getName().equals("销售机会")) {
                 Intent intent = new Intent(getActivity(),
                 CustomXiaoShouJiHuiActivity.class);
                 startActivity(intent);
```

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	} else if (list.get(position).getName().equals("产品信息")) {
	<pre>Intent intent = new Intent(getActivity(),</pre>
	ProductInformationListActivity.class);
	<pre>startActivity(intent);</pre>
	} else if (list.get(position).getName().equals("报价记录")) {
	<pre>Intent intent = new Intent(getActivity(),</pre>
	<pre>ProductOfferByIdListActivity.class);</pre>
	<pre>startActivity(intent);</pre>
	} else if (list.get(position).getName().equals("合同/订单")) {
	<pre>Intent intent = new Intent(getActivity(),</pre>
	ContractOrderListActivity.class);
	<pre>startActivity(intent);</pre>
	} else if (list.get(position).getName().equals("客户公共池")) {
	<pre>Intent intent = new Intent(getActivity(),</pre>
	PublicCustomerActivity.class);
	<pre>startActivity(intent);</pre>
	} else if (list.get(position).getName().equals("回款记录")) {
	<pre>Intent intent = new Intent(getActivity(),</pre>
	HuiKuanJiHuaActivity.class);
	<pre>startActivity(intent);</pre>
	} else if (list.get(position).getName().eguals("数据审核")) {
	Intent intent = new Intent(getActivity(),
	DataAuditListActivity.class):
	<pre>startActivity(intent):</pre>
	} else if (list get(nosition) getName() equals("费田报销")) {
	Intent intent = new Intent(getActivity()
	ReimbursementListActivity class):
	startActivity(intent):
	<pre>&gt; else if (list get(nosition) getName() equals("库友出货")) {</pre>
	Intent intent = new Intent(getlotivity()
	Stocklotivity class).
	startletivity(intent).
	}
1	
}	
ر ۱	
J	

在 WorkMainFragment 类中,首先对各个控件和相关数据进行初始化,在 initView() 方法中调用 initBannerData()方法初始化轮播图,调用 setIcon()方法初始化导航图标,分 别给各个图标设置单击事件,然后设置产品中心的 adapter。