**Report of assignment3**

1. **Team members**

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1. **Technical design**

***Function1,use VideoView to implement:***

*Uri uri = Uri.parse(Environment.getExternalStorageDirectory().getPath()+"/Test\_Movie.m4v");*

*VideoView videoView = (VideoView)this.findViewById(R.id.video\_view);*

*videoView.setMediaController(new MediaController(this));*

*videoView.setVideoURI(uri);*

*videoView.start();*

*videoView.requestFocus();*

***Function2,there are two ways to make a phone call in android app:***

***The first one is***

*/\*\**

*\* 拨打电话（直接拨打电话）*

*\* @param phoneNum 电话号码*

*\*/*

*public void callPhone(String phoneNum){*

*Intent intent = new Intent(Intent.ACTION\_CALL);*

*Uri data = Uri.parse("tel:" + phoneNum);*

*intent.setData(data);*

*startActivity(intent);*

*}*

***The second one is***

*/\*\**

*\* 拨打电话（跳转到拨号界面，用户手动点击拨打）*

*\**

*\* @param phoneNum 电话号码*

*\*/*

*public void callPhone(String phoneNum) {*

*Intent intent = new Intent(Intent.ACTION\_DIAL);*

*Uri data = Uri.parse("tel:" + phoneNum);*

*intent.setData(data);*

*startActivity(intent);}*

***The first method requires adding this permission in the Android Menifest file: <uses-permission android: name="android.permission.CALL\_PHONE"/> and dynamically applying permissions in the code in Android 6.0.***

***The second method does not need to apply for permission, but can directly jump to the dial-up interface.***

***Function3,There are four mobile phone positioning methods: base station positioning, WIFI positioning, GPS positioning and AGPS positioning.***

***This project uses the "analog location" function of the mobile phone to modify the Location Manager results at runtime.***

***Principle: Use the debugging API of Android to simulate the result of GPS provider.***

***MockLocation Manager: Analog Address Management Class***

***\_Firstly, the system simulated location service is obtained through the Android system simulated location manager Location Manager. Under Android 6.0, the simulated location can be judged by Setting. Secure. ALLOW\_MOCK\_LOCATION. Android 6.0 and above need to [select the application of simulated location information]. No method is found, so it can be judged by addTestProvider.***

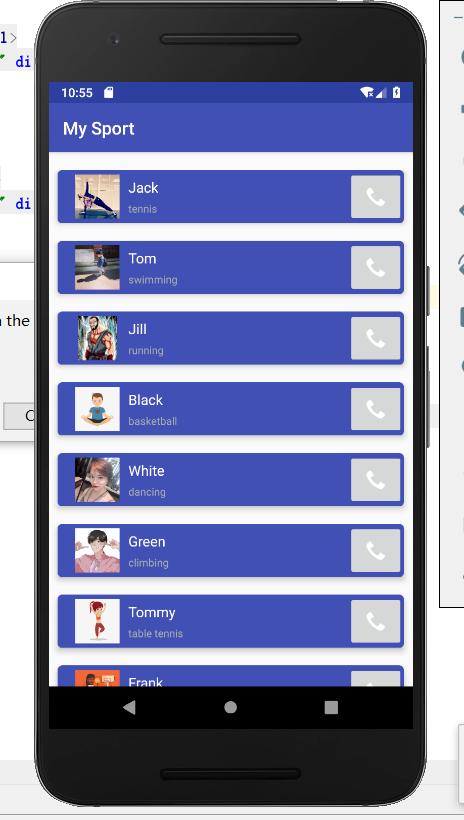
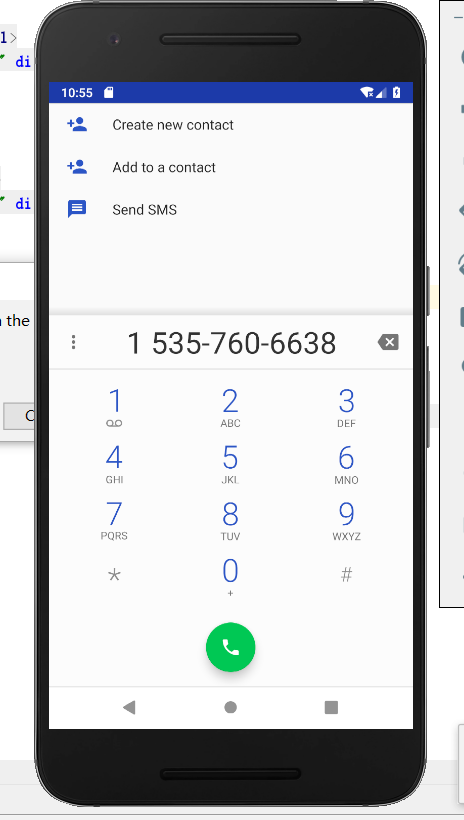
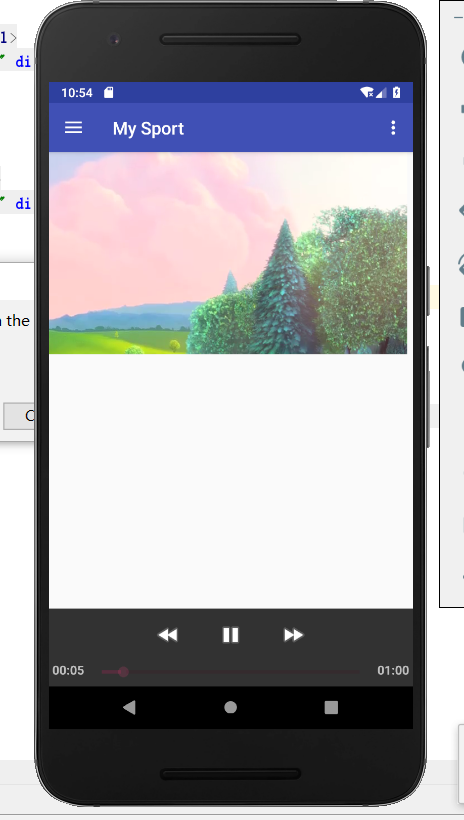
***Next, set up the simulated longitude and latitude data.***

***Cancel the analog positioning method;***

***Register location service to get system location;***

***Finally, the GPS positioning data is obtained by the method of LocationListener. onLocationChanged () callback.***

1. **Running results**

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