

Steps for embed Sweepr app (android)

Prerequisites

- Install node
- npm install -g react-native-cli

Or Follow react native getting started macOS android or windows android

<https://facebook.github.io/react-native/docs/getting-started>

-AWS CLI

https://docs.aws.amazon.com/es_es/cli/latest/userguide/install-macos.html

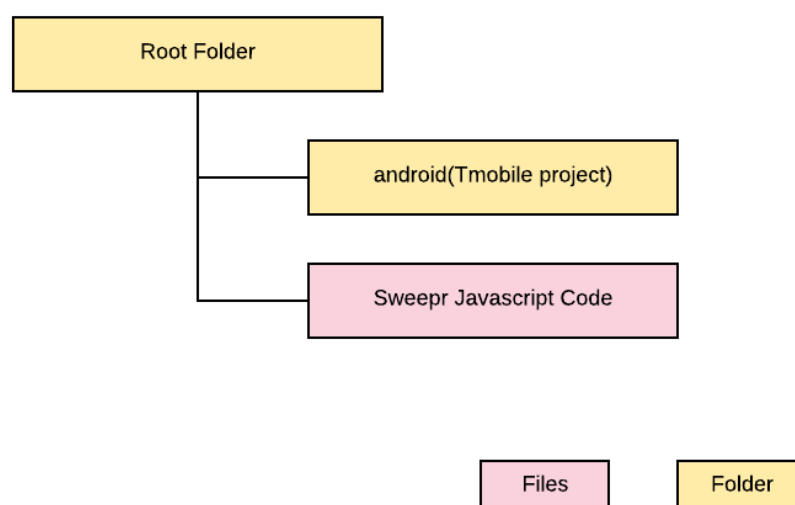
- AWS configure with the Sweepr id and secret

https://docs.aws.amazon.com/es_es/cli/latest/userguide/cli-chap-configure.html

Integrate Sweepr into a existing app

Our app support androidX only for make your app androidX in android studio go to refactor
-> migrate to androidX will do the job.

1. Make a new directory. Make an android folder inner root directory where the existing app will live(Tmobile in this case) and in the root directory paste Sweepr code. You can merge our .gitignore with yours.



2 AWS dependencies

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The scripts below use `com.amazonaws.auth.profile.ProfileCredentialsProvider` to grab the access key and secret key values from our local `~/.aws/credentialsfile`. At time of writing Gradle isn't able to detect those credentials out of the box, so this is an easy workaround to avoid hardcoding them in the build script or duplicating them to another properties file. The format is

```
aws_access_key_id = AKIA3XVIGXUZTLM746OR
```

```
aws_secret_access_key = VpXER/bfHI1Rq8K9i14J5YeNMxDPaHdZQNE8VJAM
```

2. In the android project add to `build.gradle(app)` inner dependencies block `dependencies {`

```
implementation fileTree(dir: 'libs', include: ['*.jar'])

implementation 'com.google.android.material:material:1.0.0'
implementation "com.facebook.react:react-native:0.59.3"
implementation 'com.google.code.gson:gson:2.8.5'
implementation 'com.github.andriydrak:dnssd:0.9.13'
implementation 'io.swagger:swagger-annotations:1.5.17'
implementation 'com.squareup.okhttp:okhttp:2.7.5'
implementation 'com.squareup.okhttp:logging-interceptor:2.7.5'
implementation 'io.gsonfire:gson-fire:1.8.0'
implementation 'org.threeten:threetenbp:1.3.5'
implementation 'com.github.rosebud-iot:upnpdiscovery:1.0.5'
implementation 'com.github.andriydrak:dnssd:0.9.13'
implementation 'com.github.stealthcopter:AndroidNetworkTools:0.4.3'
implementation 'org.eclipse.paho:org.eclipse.paho.client.mqttv3:1.1.0'
implementation 'org.eclipse.paho:org.eclipse.paho.android.service:1.1.1'
implementation 'jcifs:jcifs:1.3.17'

implementation 'com.github.rosebud-iot:sweeper-android-mobile-framework:0.1.1'
implementation 'com.github.rosebud-iot:sweeper-backendapi:0.1.2'

testImplementation 'junit:junit:4.12'

androidTestImplementation 'androidx.test:runner:1.1.0'
```

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```
androidTestImplementation 'androidx.test.espresso:espresso-core:3.1.0'
```

```
}
```

- Inner android block

```
android {
```

```
    compileOptions {
```

```
        sourceCompatibility JavaVersion.VERSION_1_8
```

```
        targetCompatibility JavaVersion.VERSION_1_8
```

```
    }
```

```
    ...
```

```
}
```

- In gradle.properties(project)

```
repoBucketName=sweepr-backendapi
```

```
mobileFrameworkBucketName=sweepr-android-mobile-framework
```

- In build.gradle(Android)

```
import com.amazonaws.auth.profile.ProfileCredentialsProvider
```

```
buildscript {
```

```
    repositories {
```

```
        google()
```

```
        jcenter()
```

```
    }
```

```
    dependencies {
```

```
        classpath 'com.android.tools.build:gradle:3.4.0'
```

```
        classpath "io.realm:realm-gradle-plugin:5.10.0"
```

```
        classpath "jp.classmethod.aws:gradle-aws-plugin:0.31"
```

```
// NOTE: Do not place your application dependencies here; they belong
```

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```
        // in the individual module build.gradle files
    }
}

ext {
    awsCredentials = new ProfileCredentialsProvider().credentials
}
```

- In the build.gradle(Android) inner all projects block

```
allprojects {
    repositories {
        maven {
            url "s3://${repoBucketName}/releases"
            credentials(AwsCredentials) {
                accessKey awsCredentials.AWSSecretKey
                secretKey awsCredentials.AWSSecretKey
            }
        }
        maven {
            url "s3://${mobileFrameworkBucketName}/releases"
            credentials(AwsCredentials) {
                accessKey awsCredentials.AWSSecretKey
                secretKey awsCredentials.AWSSecretKey
            }
        }
        google()
        jcenter()
        maven {
```

```
        url 'https://maven.google.com/'
        name 'Google'
    }
    maven{
        url "https://jitpack.io"
    }
    maven {
        url "https://repo.eclipse.org/content/repositories/paho-
snapshots/"
    }
    maven {
        url "$rootDir/../node_modules/react-native/android"
    }
    ...
}
...
}
```

- In the top of android block paste

apply plugin: 'realm-android'

apply from: project(':react-native-config').projectDir.getPath() + "/
dotenv.gradle"

3. Make sure that you have this changes in AndroidManifest.xml

```
<uses-permission android:name="android.permission.INTERNET" />
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
<uses-permission android:name="android.permission.SYSTEM_ALERT_WINDOW"/>
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"/>
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>
<uses-permission android:name="android.permission.CHANGE_WIFI_MULTICAST_STATE"/>
<uses-permission android:name="android.permission.RECORD_AUDIO" />
<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
<uses-permission android:name="android.permission.READ_PHONE_STATE" />
```

```
<uses-permission android:name="android.permission.WAKE_LOCK" />
```

- Inner application tag

```
<application
```

```
...
```

```
    tools:replace="android:appComponentFactory"
```

```
    android:appComponentFactory="whateverString"
```

```
    android:usesCleartextTraffic="true" tools:targetApi="28">
```

```
<activity android:name="com.facebook.react.devsupport.DevSettingsActivity"
/>
```

```
<activity
```

```
    android:name=".ReactIntegrationActivity"
```

```
    android:label="@string/app_name"
```

```
    android:theme="@style/Theme.AppCompat.Light.NoActionBar"></activity>
```

```
...
```

```
</application>
```

4. As a test, in your android project create a ReactIntegrationActivity and paste this content

```
public class ReactIntegrationActivity extends AppCompatActivity implements
DefaultHardwareBackBtnHandler {
```

```
    private ReactRootView mReactRootView;
```

```
    private final int OVERLAY_PERMISSION_REQ_CODE = 1;
```

```
    public ReactInstanceManager mReactInstanceManager;
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        mReactRootView = new ReactRootView(this);
```

```
        mReactInstanceManager = ReactInstanceManager.builder()
```

```
            .setApplication(getApplication())
```

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```
.setCurrentActivity(this)
.setBundleAssetName("index.android.bundle")
.setJSMainModulePath("index")
.addPackages(this.getPackages())
.setUseDeveloperSupport(BuildConfig.DEBUG)
.setInitialLifecycleState(LifecycleState.RESUMED)
.build();

// The string here (e.g. "MyReactNativeApp") has to match
// the string in AppRegistry.registerComponent() in index.js
mReactRootView.startReactApplication(mReactInstanceManager, "App",
null);

setContentView(mReactRootView);
}

@Override
protected void onActivityResult(int requestCode, int resultCode, Intent
data) {
    if (requestCode == OVERLAY_PERMISSION_REQ_CODE) {
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.M) {
            if (!Settings.canDrawOverlays(this)) {
                // SYSTEM_ALERT_WINDOW permission not granted
                Toast.

                    makeText(this, "You cannot open the React Native
app as you have denied the permission", Toast.LENGTH_SHORT).show();
            }
        }
    }

    mReactInstanceManager.onActivityResult( this, requestCode, resultCode,
data );
}
```

```
@Override
```

```
public void invokeDefaultOnBackPressed() {  
    super.onBackPressed();  
}
```

```
@Override
```

```
protected void onPause() {  
    super.onPause();  
  
    if (mReactInstanceManager != null) {  
        mReactInstanceManager.onHostPause(this);  
    }  
}
```

```
@Override
```

```
protected void onResume() {  
    super.onResume();  
  
    if (mReactInstanceManager != null) {  
        mReactInstanceManager.onHostResume(this, this);  
    }  
}
```

```
@Override
```

```
protected void onDestroy() {  
    super.onDestroy();  
  
    if (mReactInstanceManager != null) {
```


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```
        mReactInstanceManager.onHostDestroy(this);
    }

    if (mReactRootView != null) {
        mReactRootView.unmountReactApplication();
    }
}
```

@Override

```
public void onBackPressed() {
    if (mReactInstanceManager != null) {
        mReactInstanceManager.onBackPressed();
    } else {
        super.onBackPressed();
    }
}
```

@Override

```
public boolean onKeyUp(int keyCode, KeyEvent event) {
    if (keyCode == KeyEvent.KEYCODE_MENU && mReactInstanceManager != null)
{
        mReactInstanceManager.showDevOptionsDialog();
        return true;
    }
    return super.onKeyUp(keyCode, event);
}
```

```
protected List<ReactPackage> getPackages() {
    return Arrays.<ReactPackage>asList(
        new MainReactPackage(),
```

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```
        new AsyncStoragePackage(),
        new NetInfoPackage(),
        new ReactNativeConfigPackage(),
        new RNGestureHandlerPackage(),
        new CallDetectionManager(getApplication()),
        new ReactNativePushNotificationPackage(),
        new VoicePackage(),
        new SvgPackage(),
        new VectorIconsPackage(),
        new SweeprCloudPackage(),
        new SweeprScanPackage(),
        new SweeprResolutionPackage(),
        new PingTestPackage()
    );
}
```

5. In root directory execute `npm run complete-install`

6. Where you want to integrate our app you should

```
Intent intent = new Intent(MainActivity.this, ReactIntegrationActivity.class);
startActivity(intent);
```

Troubleshooting

If you got errors in android studio try to delete `.idea` from the project and sync and build again.

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