

# Convert your existing react js app to android or ios app using the ionic capacitor



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Apr 24, 2020 · 3 min read



Today I will show you how you can convert your existing React js app to an android or ios app using ionic capacitor.

So what exactly is Capacitor? According to documentation

*Capacitor is a cross-platform app runtime that makes it easy to build web apps that run natively on iOS, Android, Electron, and the web. We call these apps “Native Progressive Web Apps” and they represent the next evolution beyond Hybrid apps.*

So today we will build our android or ios app using the existing react app.

## Requirements

- Existing React App
- Ionic

- Android Studio
- Xcode

1. First, go to the root of your existing react app and create a file **capacitor.config.json** and inside that put the below code.

```
{
  "appId": "io.ionic.nameofyourapp",
  "appName": "nameofyourapp",
  "bundledWebRuntime": false,
  "npmClient": "npm",
  "webDir": "build",
  "cordova": {}
}
```

2. Now create another file name **ionic.config.json** and inside that insert the below code.

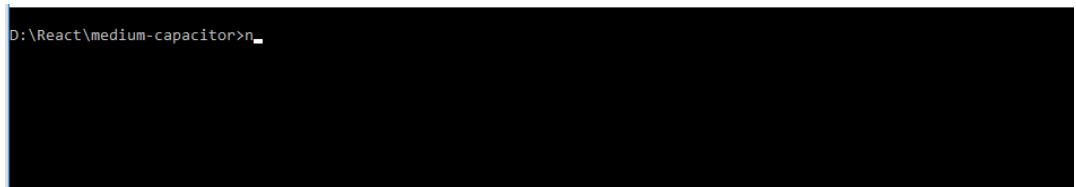
```
{
  "name": "nameofyourapp",
  "integrations": {
    "capacitor": {}
  },
  "type": "react"
}
```

**Note:** replace *nameofyourapp* in both files with the name of your app.

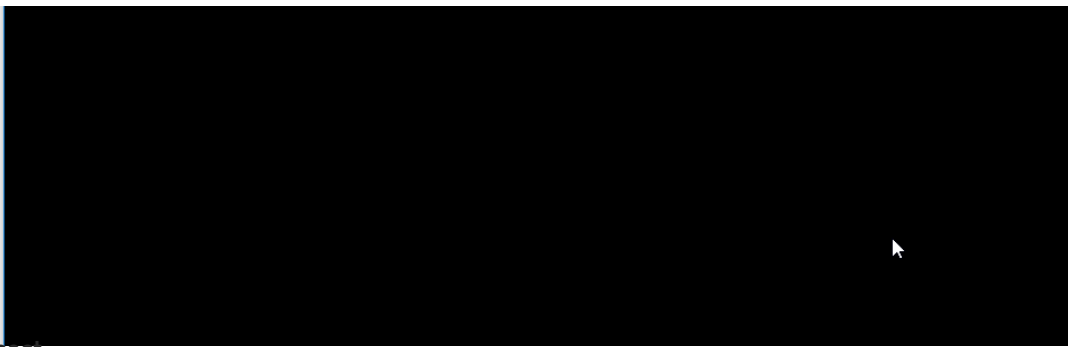
3. Now we need to build our react project. To build your react app open your terminal to the root of the project and run the below-mentioned command

```
npm run build
```

**Note:** this will create the *build* folder in your root project and the name of the folder should match the *webDir* name inside *capacitor.config.json* file



```
D:\React\medium-capacitor>npm run build
```



## How To React

Learn how to create fast, interactive web apps using react.

4. Now we will install ionic globally in our machine. To install ionic globally in your machine open your terminal and run the below command.

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```
npm install -g @ionic/cli
```



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5. Now install the capacitor core in our project.



```
npm install @capacitor/core --save
```

## Android

6. After that, we will first create an android app with our existing react app. Open your terminal and type

```
ionic capacitor add android
```

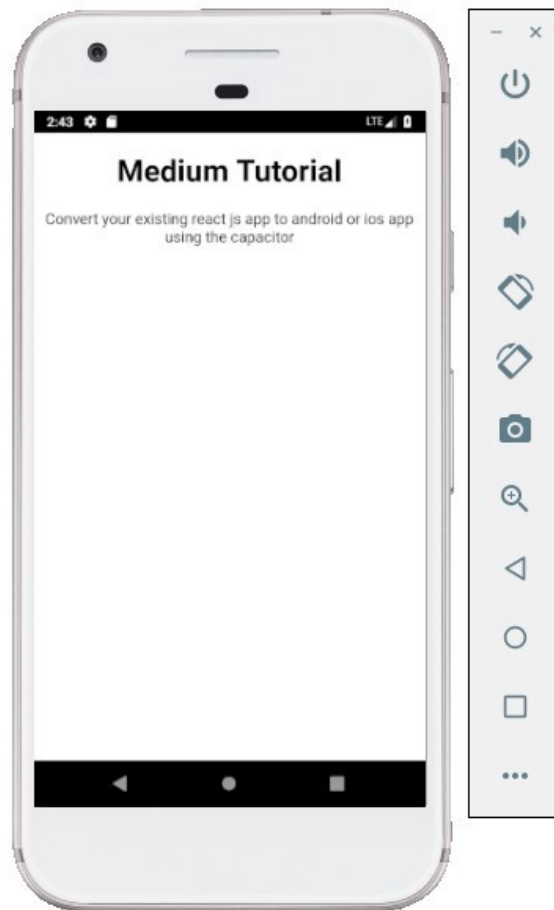
Top highlight

This will create the android folder in your root project and install all the required dependencies.

7. Now run the below command to open your android project in android studio.

```
npx cap open android
```

Wait some time and then it will ask you to update the Gradle. Just update the Gradle to the latest version and run the project in the emulator. You can also connect your mobile to run the project live on your mobile phone.



8. Now open the build menu from the android studio and build your apk file.

## iOS

9. To create ios app run the below command

```
ionic capacitor add ios
```

This will install all the required dependencies and ios folder to your project.

10. Now run the below command to open your ios project in Xcode.

```
npx cap open ios
```

11. Now open the app in emulator or physical device and build the app.

Visit the [capacitor homepage](#) for detailed information and documentation.

Here is the git repository for reference

### Mediumtutorial/medium-capacitor

This project was bootstrapped with Create React App. In the project directory, you can run: Runs the app in the...

[github.com](#)

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