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Converting Angular Web Application into Ionic App

Better guidance to create a mobile app for an existing Angular application



In the software industry, after you successfully built a web application aligned with the client requirements, you may be asked to build a mobile application for the same web application to address mobile users' requirements. Therefore this article will provide you with better guidance to convert an existing web application developed using Angular into an $\,$ Ionic native app by simple and detailed instructions.

Angular is a famous front-end web development framework which is Typescript-based and open source. Angular is a developed version of AngularJS. Angular Components are used to modify our program HTML, CSS, and logic. Angular Services can be injected into Components and by adding services our code can be reusable.

Ionic is a mobile application development framework which is an open-source SDK and guides to build HTML5 mobile applications. Ionic can handle mobile ${\it UIs\ in\ an\ efficient\ manner\ by\ bringing\ mobile\ app\ feeling\ to\ the\ user.}$

First, you must have an existing Angular project (assume that project is named "angular-ionic"), or if not you must create it using the following CLI command.

```
ng new angular-ionic
```

Then you must navigate to that newly created directory or if you have an existing project, move to that directory using the following command.

```
cd angular-ionic
```

Our purpose is to create a mobile app for the same web application, therefore it is needed to add Ionic to the existing project. To do that you can use the Angular CLI command "ng add" to import Ionic packages to the existing project. The following command will help you to do that.

```
ng add @ionic/angular
```

After successful package installation, you will take the output as follows.

Then you must initialize your existing project with Ionic by using the following command. If you use this command you will ask a question to enter your project name. Make sure to enter the project name as your existing project name. In this case project name is angular-ionic.

After successful initialization of Ionic to the project, you should be done below 2 changes to the angular json file which provides details about project-specific configurations.

 $1.\ Change\ output Path\ "dist/angular-ionic"\ to\ "www"\ in\ the\ angular.json$ file to set folders to build Ionic project for www.



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After doing the above changes you can create an Android APK for your project and use the following command to do so.

Here you can see that with use of <u>cordova</u> we could render our web application into a native web view. Cordova is an open source framework which can be used to implement native application for various mobile platforms by using <u>HTML, CSS, and JavaScript contents</u>.

Your built Android APK can be found under the platform's root folder and move with "platforms\android\app\build\outputs\apk\debug". You can install it via mobile phone or by enabling the emulator you can see your Ionic mobile app!!!

```
ionic cordova run android --project="angular-ionic"
```

 $\mbox{Great...}$ You will end up with a mobile application that has been built upon your web application.



Welcome







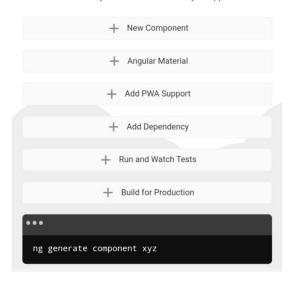


Here are some links to help you get started:



Next Steps

What do you want to do next with your app?



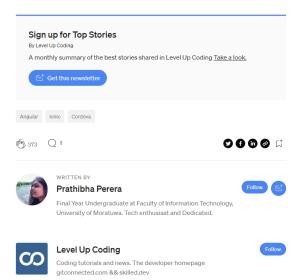
It is important to notice that, you may have to fix mobile responsiveness issues of your native app like alignment issues, the appearance of icons and images, spacing issues, etc.

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Conclusion

This article provides you, how to build a mobile app for existing Angular applications using Ionic. By following the above instructions you will end up with the successful creation of a mobile app.

Thank you for reading 😊!!!!!



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