

INTRODUCTION TO MOBILE APPLICATIONS DEVELOPMENT

Ionic CLI

ITSFT-406-2001 Ing. James Attard

BUILDING OUR FIRST IONIC APP



• Open your command prompt and enter the following command:

ionic start myApp blank --type react

• This Ionic CLI command will build an Ionic App called "myApp" (you can call it anything you want) using no template (hence *blank*) and will be using React as the JavaScript framework.

BUILDING OUR FIRST IONIC APP



```
james@obsidian ∾/code/mcast/imad (master)
$ ionic start myApp blank --type react
 INFO Existing git project found (C:/Users/james/Code/mcast/imad). Git operations are disabled.
  Preparing directory .\myApp in 1.31ms
  Downloading and extracting blank starter in 1.02s
> ionic integrations enable capacitor -- quiet -- myApp io.ionic.starter
> npm.cmd i --save -E @capacitor/core@latest
npm WARN deprecated abab@2.0.6: Use your platform's native atob() and btoa() methods instead
npm WARN deprecated domexception@4.0.0: Use your platform's native DOMException instead
added 684 packages, and audited 685 packages in 1m
147 packages are looking for funding
  run 'nom fund' for details
found 0 vulnerabilities
> npm.cmd i -D -E @capacitor/cli@latest
added 64 packages, and audited 749 packages in 6s
153 packages are looking for funding
  run 'npm fund' for details
found 0 vulnerabilities
> npm.cmd i --save -E @capacitor/haptics @capacitor/app @capacitor/keyboard @capacitor/status-bar
added 4 packages, and audited 753 packages in 3s
153 packages are looking for funding
```

PROJECT STRUCTURE



The project folder will have the following structure:

```
EXPLORER
                  ··· TS Home.tsx X

✓ MYAPP

                       src > pages > TS Home.tsx > ...
                          1 import { IonContent, IonHeader, IonPage, IonTitle, IonToolbar } from '@ionic/react';
 > .vscode
                               import ExploreContainer from '../components/ExploreContainer';
 > cypress
                               import './Home.css';
 > node_modules
 > public
                               const Home: React.FC = () \Rightarrow {

✓ src

                                 return (
  > components
                                    <IonPage>

→ pages

                                      <IonHeader>
   # Home.css
                                         <IonToolbar>
  TS Home.tsx
                                           <IonTitle>Blank</IonTitle>
  > theme
                                        </IonToolbar>
                                      </IonHeader>
  App.test.tsx
                                      <IonContent fullscreen>
  TS App.tsx
                                        <IonHeader collapse="condense">
  TS main.tsx
                                           <IonToolbar>
  TS setupTests.ts
                                             <IonTitle size="large">Blank</IonTitle>
 TS vite-env.d.ts
                                           ⟨ IonToolbar⟩

■ .browserslistrc

                                         IonHeader>
 eslintrc.js
                                         <ExploreContainer />
 gitignore
                                      IonContent>
TS capacitor.config.ts
                                    IonPage>
TS cypress.config.ts
index.html
 ionic.config.json
                               export default Home;
{} package-lock.json
{} package.json
 stsconfig.json
{} tsconfig.node.json
 TS vite.config.ts
```

PROJECT STRUCTURE



- The two most important files/folders are:
 - App.tsx This is where the main Ionic application resides and where we define the paths (routes)
 - .tsx files inside /pages This is where we will be developing our mobile application screens (called pages). The default application page is the Home.tsx file.