

# Getting Started With Ionic

(Or how to write a real app with a matching backend in one lesson ;-)

*Most of these exercises will be done in the class, as class demo. If you do not attend the class, make sure you have the implemented and have running examples before the exam.*



1)

If not already done (shame on you ;-)) setup your system for Ionic 1.x Android Development as explained here: <https://ionicframework.com/docs/guide/installation.html>

2) Verify that everything works by following these steps (will only work if you have followed the steps in 1)

- Open a terminal and navigate to a folder that should hold your project
- Type **ionic start mydemo tabs** (Ionic 1 ships with three starter templates, tabs, sidemenu and blank)
- Navigate into the **mydemo** folder (cd mydemo)
- Type **ionic serve** to test your application in a browser
- Close the ionic server (CTRL + C)
- Type **ionic platform add android** (you can try **add ios** if you are on a mac)
- Type **ionic build**
- If (and only if) you are following the Android course and have installed an emulator, type:  
**ionic emulate android**
- Finally to see you app on a real device, connect your phone with a USB cable and:
  - Verify you are connected, by typing **adb devices -l**
  - Type **npm run android**

**You should now have a Hybrid App running on your Phone ;-)**

3)

Now lets see a real app, communication with a backend in action. This ex. use my modified version of the tutorial given here (make sure to follow the tutorial, as requested in step 4 to LEARN what actually goes on).

3a)

- Open a terminal and navigate to a folder that should hold your project
- Type **ionic start todoApp tabs**
- Navigate into the **todoApp** folder (cd todoApp)
- Open the project in your editor, and investigate the generated code - focus on the www-folder.

3b)

- Download the content from the [files](#) **app.js** and **index.html** (use the clipboard) and replace all content in the matching files in generated files.
- Type **ionic serve** to test your application in a browser  
*Note. The version of **app.js** you use right now, uses my backend. You can monitor (live) the changes to this backend (not only your own) using this URL: <http://ionicbackend-plaul.rhcloud.com/>*
- Close the ionic server (CTRL + C)

3c)

Finally to see you app on a real device, connect your phone with a USB cable and:

- Verify you are connected, by typing **adb devices -l**
- Type **npm run android**
- Play around with the app, and make sure to observe changes made, via the URL given above

4)

Clone the source from the backend we have used from here:

<https://github.com/Lars-m/ionicClassDemoBackend.git>, and make the necessary changes to use your own MongoDB (the easiest will be to use a mlab-DB), and deploy to a Digital Ocean Droplet as explained [here](#).

5)

Now to learn (quite a big) bit more about ionic, follow the tutorial starting [here](#). Complete at least step 3-5  
If you really want to see how far we can go, in almost no time, and you don't mind spending 25\$ - complete step 6 to see our app hosted on **Google Play** :-)