

Lab 1 - Create a *Hello World* project

In this section we'll create a basic Ionic mobile app which we'll be able to use in our own mobile phone. For that purpose we're going to use *Ionic View* to distribute the app to our phones and for quick development we'll use the browser.

Default Ionic template

On your terminal, navigate to the project folder of the previous section and login to the development environment:

```
$ vagrant ssh
```

Once in the development environment, let's create the app project:

This step will download the necessary components and create a basic App with the sidemenu option

The creation process will prompt you to create an ionic.io account. We already created an account in the previous step. Type no: *n*

```
~$ ionic start TakeAwayApp sidemenu
```

After this, a basic ionic project will exist on our dev environment's home folder. You can inspect it's contents with `ls` and `cd`.

We will now navigate to the project and push it to our mobile phone. The first step will be to login with our ionic view account:

This step will ask for an email and a password. Use the credentials you used to register with ionic in the previous section

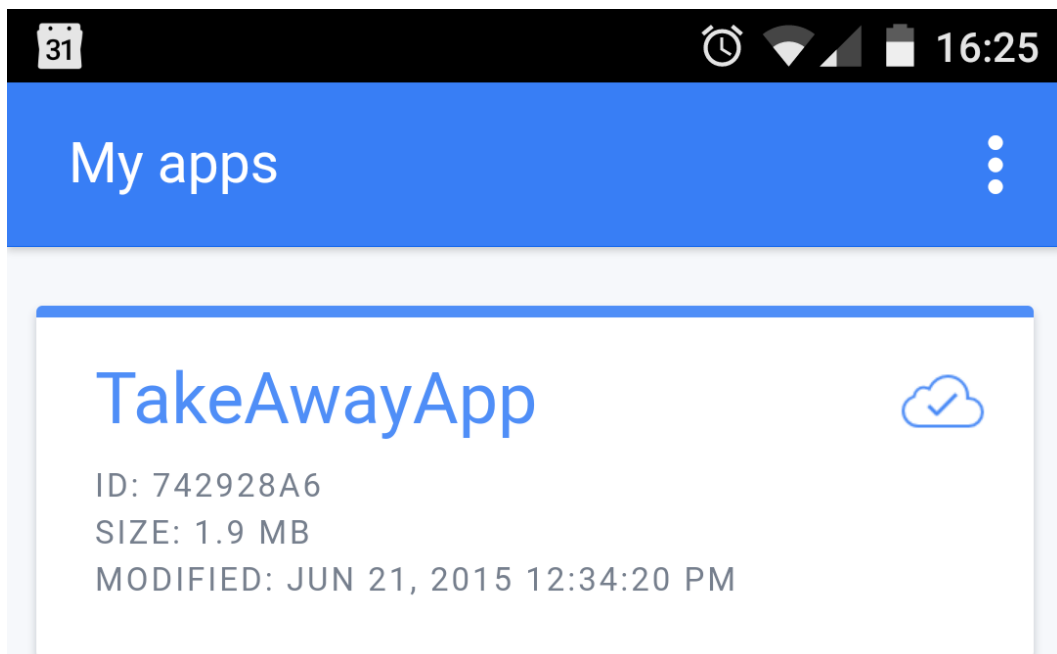
```
~$ cd TakeAwayApp
~/TakeAwayApp$ ionic login
```

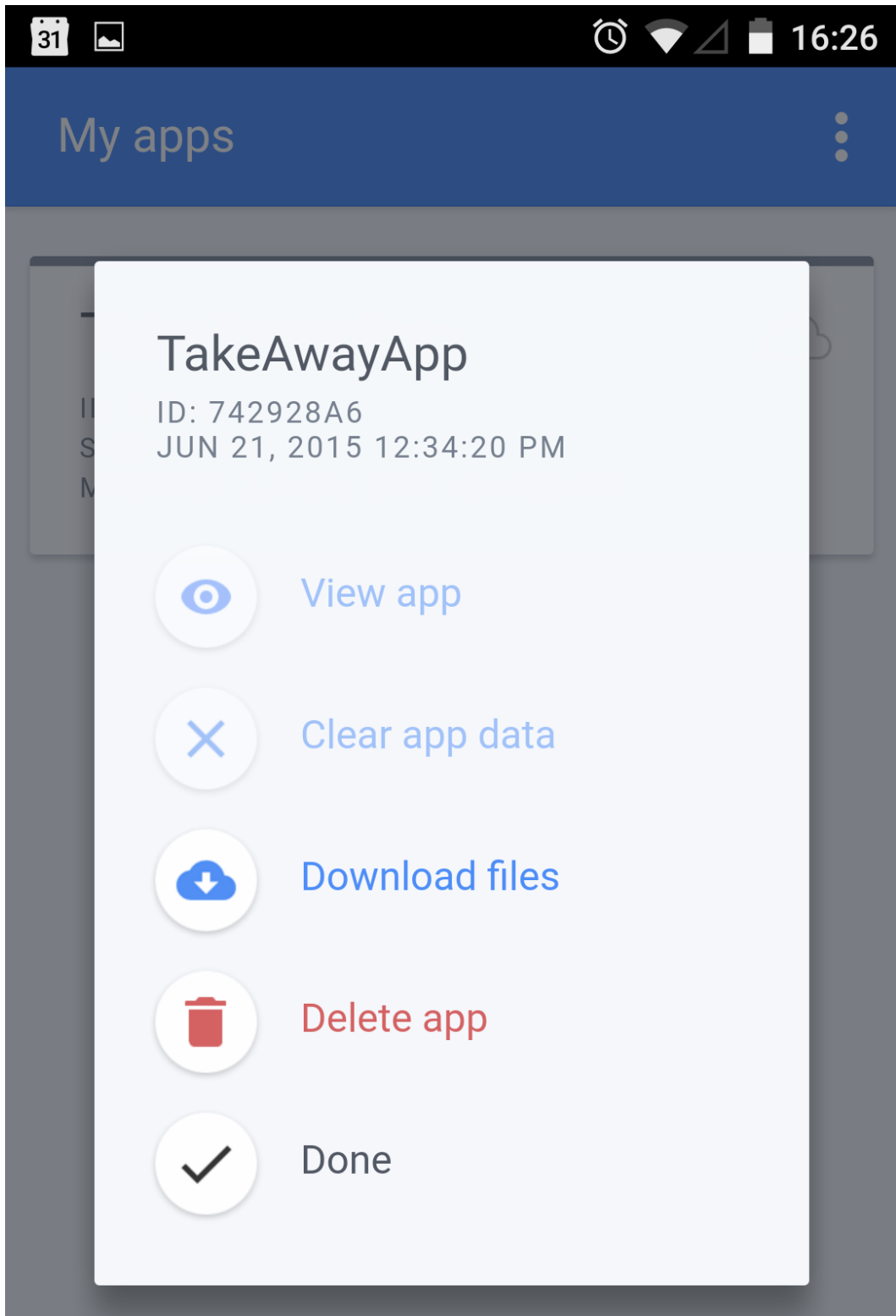
After that we'll push the app to ourselves and inspect it with our mobile phone:

You'll need to use the email of the previous step in order to share with yourself

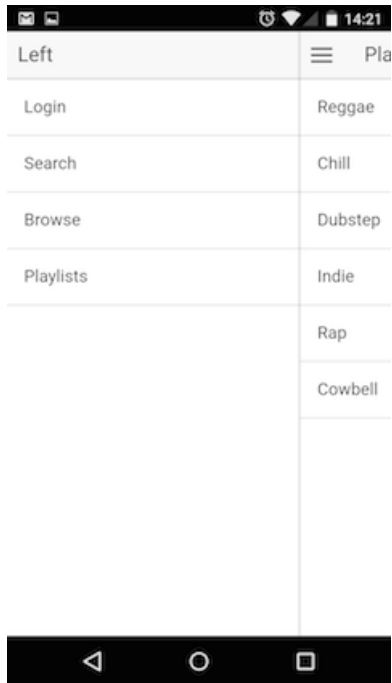
```
~/TakeAwayApp$ ionic upload
~/TakeAwayApp$ ionic share your.name@your.address.com
```

Now pick your mobile phone, open the *Ionic View* app and you'll see that an application called *TakeAwayApp* has been shared with you. Select this application and download:

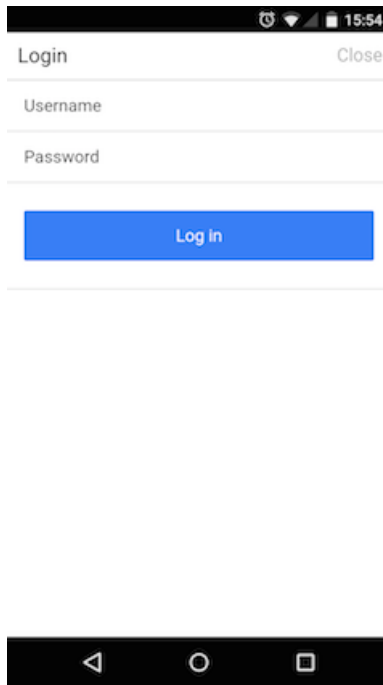




Once the app has downloaded you'll be able to open it and explore the default menus:



Side menu



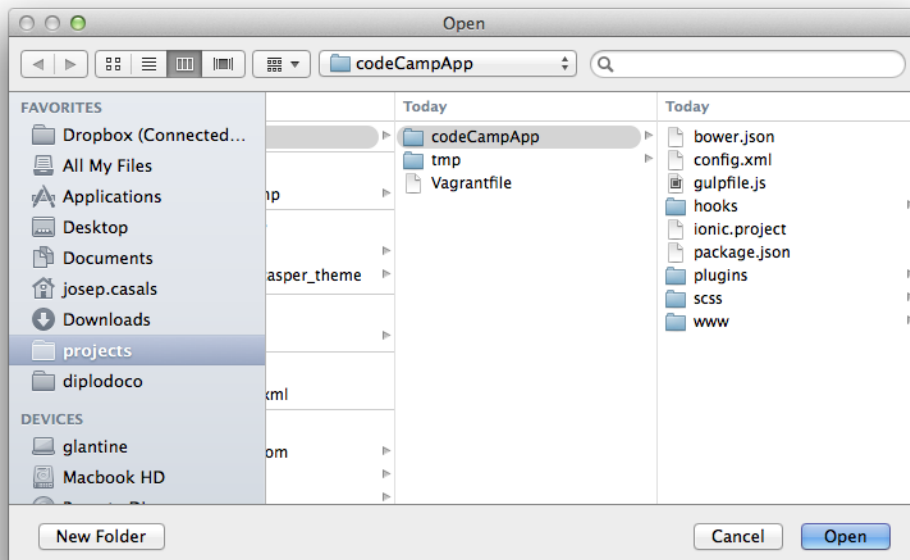
Log in

Hello world

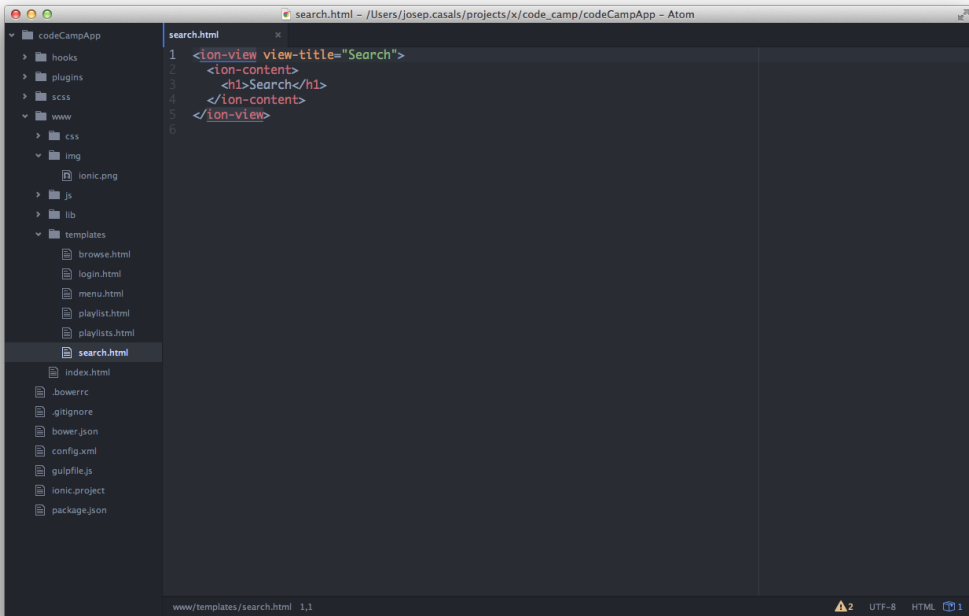
Now we're going to make a minor change to the application and upload a new version of the app so that we can see the changes on our phone.

First thing you need to do is open your favorite text editor and select the folder in our computer where we have created the TakeAwayApp.

This is how the process will look like in a Mac using Atom



Select the folder where we installed the App



Project files

WARNING: As you may have noticed, we're opening the project folder in the file system of our computer but we created the project inside our development environment. How is that possible? Well, there is an explanation. When we created our development environment, we included the following line in our Vagrantfile: `config.vm.synced_folder ".", "/home/vagrant"`. What this does is mapping the Vagrant directory on our computer with the `/home/vagrant` directory of the development environment. After that, any changes we do on the files there, will be visible on both environments.

Now, locate the `www/templates/search.html` file inside your project and edit to look as follows:

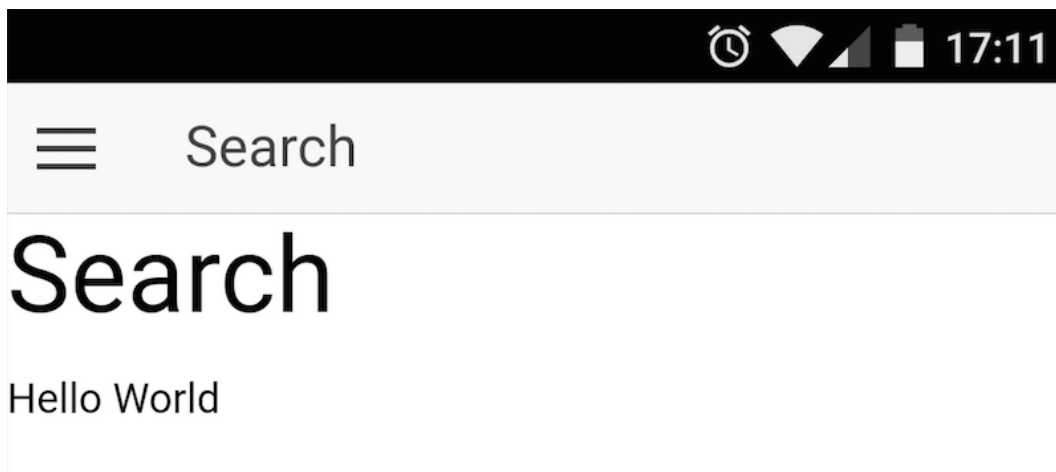

```
<ion-view view-title="Search">
  <ion-content>
    <h1>Search</h1>
    <p>Hello World</p>
  </ion-content>
</ion-view>
```

Save your modified `search.html` file and go back to the development environment. There, upload the App again.

You'll have to do `vagrant ssh` if you had previously exited your development environment.

```
~/TakeAwayApp$ ionic upload
```

Now go to *Ionic View* app, select the App in the apps list and select **Sync to Latest**. Then view the App and go to the *Search* menu where you should be able to see your changes.



Project files

Developing with the browser

Uploading the mobile application to our phone is a great way to see how it looks like but it's not fast. Now we're going to use a faster way to check our changes using an internet browser. This is possible because our Hybrid app is made using basic web application technologies. Go to the development environment and type:

This will prompt you to choose between 1) *eth0* and 2) *localhost*. Select option 1, otherwise the application won't be visible on your computer.

In case you select the wrong option, just type `ionic address` and select the correct option.

```
~/TakeAwayApp$ ionic serve
```

Now, you can open the following link with your browser and you'll be able to see the app there.

<http://localhost:8100/>²³

Seeing the app served in the development environment from the browser on your computer is possible thanks to this line in the Vagrantfile: `config.vm.network "forwarded_port", guest: 8100, host: 8100`. This forwards port 8100 in the dev env to 8100 of your computer. That's also why you had to choose option 1 in the previous step.

Please make sure you have done everything in the following list before continuing: - Created TakeAwayApp - Uploaded the app to *Ionic View* - Modified the app to say *Hello World* - Seen *Hello World* on my app from my mobile phone - Visited <http://localhost:8100/>²⁴ and seen the app

²³<http://localhost:8100/>

²⁴<http://localhost:8100/>