The Ionic Framework by Example

Just Code, No Fluff

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Contents

Introduction

What should readers know prior to reading this book?

Before reading this book, you should have at least a basic knowledge of web (application) development in general, including HTML, CSS, and JavaScript. For a better understanding of our example code and Ionic's features, it is required that the reader has a solid understanding of JavaScript in general and basic knowledge of common AngularJS specific terms.

You won't find a comprehensive reference to AngularJS specific features or design patterns in this book.

Source code/sample app

For this book the source code is available for anyone to use. Just head over to https://github.com/ionicworkshop and get your hands dirty with the source code. Each chapter is broken out into its own git repository.

What will this book teach you?

In this book, we take you through the process of starting, developing and customizing a mobile application built with the Ionic framework and AngularJS. We start with covering some essential productivity tools such as the Ionic CLI. From there we dive into the development of a mobile application that will demonstrate as much of Ionic's features as possible.

Lab 1: Installing the Ionic Framework

Length: 10-20 minutes (depending on internet connection speed)

Objective

- Setup your computer with the required software to create an Ionic Framework based project and be able to run/test it in the browser.

Section 1.0: Chocolatey Install (Windows Only)

Chocolatey is a Windows package manager that takes care of downloading and installing software packages. For Windows, it makes installing software a breeze if there is an existing Chocolatey package which for the software we are using there are packages available.

1. Open an adminstrative command prompt
   - From the start menu type cmd
   - Find the command prompt
   - ctrl+shift+left click or ctrl+shift+enter on cmd
   - Run command:

     ```
     @powershell -NoProfile -ExecutionPolicy unrestricted -Command "iex ((new-objec\
     t net.webclient).DownloadString('https://chocolatey.org/install.ps1'))" && SET P\
     ATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin
     ```

Section 1.1: Installing Nodejs

1. If you on Windows and using Chocolatey:
   - Open an administrative command prompt
   - Run the command:
     $ cinst nodejs
   - Open a non-administrative command prompt and run the command $ node -v
   - If the node -v command returns a version number, then node is installed and working correctly.
2. If you are using a Mac or on Windows and not using Chocolatey:
   - Open a Web Browser and go to http://nodejs.org

- Click on the Install link to download the Nodejs installer
  - If you are on Windows, it will an exe installer
  - If you are on a OSx, it will be an pkg
- Click next or continue through the installer taking all of the defaults
- Open up a command prompt (Windows) or terminal (OSx) and type node -v
- If the node -v command returns a version number, then node is installed

Section 1.2: Install Git

1. If you are on Windows and using Chocolatey:
   - Open an administrative command prompt
   - Run the command:

     ```
     $ cinst git
     ```

   - Open a non-administrative command prompt and run the command:

     ```
     $ git --version
     ```

   - If the git –version command returns a version number, then git is installed
2. If you are on Windows and not using Chocolatey:
   - Open a web browser and go to https://msysgit.github.io/
   - Click the download button.
   - Run the downloaded exe and follow the installer instructions.
3. If you are running on a Mac:
   - OSx come with Git already installed.
   - To verify the install open up terminal and run the command

     ```
     $ git --version.
     ```

Section 1.3: Install Ionic

Windows Only:

1. Open up a command prompt
2. Run the command:

   ```
   npm install -g ionic cordova
   ```

3. Check that ionic installed correctly, run:

   ```
   ionic -v
   ```

   - 1.3.19 as of this writing.
4. Check that cordova installed correctly, run:

```
cordova -v
```

- 4.3.0 as of this writing.

OSx Only:

1. Open up a terminal
2. Run the command:

```
sudo npm install -g ionic cordova
```

3. Give it your password when asked
    - If it keeps saying password is wrong, make sure that your account has a strong password.
4. Check that ionic installed correctly, run:

```
ionic -v
```

- 1.3.19 as of this writing.
5. Check that cordova installed correctly, run:

```
cordova -v
```

- 4.3.0 as of this writing.

Section 1.4: Installing Google Chrome

1. If you are on Windows and using Chocolatey:
    - Open an administrative command prompt
    - Run the command:

    ```
    $ cinst googlechrome
    ```

    - After the install completes
2. If you are on Windows and Not using Chocolatey or are on a Mac
    - Open a web browser and navigate to https://www.google.com/chrome/browser/desktop/index.html
    - Click the "Download Chrome" button to download chrome
    - Launch the installer exe after it downloads and follow the on screen instructions

Conclusion

You now have all of the software components needed to create an Ionic project and run/test it out in a web browser. In the next lab you will create your first Ionic application and test it in the browser.