

Software System Manual

Greetings engineer, this manual will guide you step-by-step through setting up the development environment for the *What's The Plan* app. Written by Brian Min.

Prerequisite Installations

- **Install NodeJS and NPM (Node Package Manager)**
<https://nodejs.org/en/>
- **Install Git**
<https://www.atlassian.com/git/tutorials/install-git>

Core Installations

- **Install Ionic JS framework**
Open up terminal (Linux and Mac users) or command prompt (Windows users) and enter the following command:

```
npm install -g ionic@2.1.17
```

This will install the appropriate version of Ionic globally.

- **Download the project folder**
Change directory to an appropriate development location and enter the following command:

```
git clone https://github.com/bymi15/NHS-WhatsThePlan.git
```

OR

Unzip the source code file and move the App folder to an appropriate location where development can take place.

- **Install the node modules**
Change directory to the project App folder, for instance:

```
cd location/to/project/App
```

Make sure the *package.json* file is present in the current directory and enter the following command:

```
npm install --save-dev
```

- **Add Android and IOS platforms**

```
ionic platform add android
```

```
ionic platform add ios
```

Project Directory Structure

- **Index page**

```
../App/www/index.html
```

```
../App/www/main.html
```

- **Views**

```
../App/www/views
```

- **Controllers**

```
../App/www/js/controllers.js
```

- **Models**

```
../App/www/js/services.js
```

- **Directives**

```
../App/www/js/directives.js
```

- **Routes**

```
../App/www/js/routes.js
```

- **Unit / Integration Tests**

```
../App/tests
```

- **Libraries**

```
../App/www/lib
```

Running the app

All commands should be executed from the App parent directory.

- **Web simulation** (Google Chrome recommended)

```
ionic serve --lab
```

- **Android**

Make sure the Android device is connected.

```
ionic run android
```

- **IOS**

To deploy on an IOS device, XCode is required. For more information visit:
<http://ionicframework.com/docs/v1/guide/testing.html>

Testing the app

All commands should be executed from the App parent directory.

- **Executing the automated tests using Gulp**

```
gulp test
```

The test report should be generated in:

```
../App/tests/ units.html
```

Firestore configuration

The firestore configuration is specified in:

```
../App/www/lib/firebase/initFirestore.js
```