**Prerequisites**

Before you start development make sure you have the following installed:

* NodeJS [http://nodejs.org](http://nodejs.org/) (.exe or .dmg installers are available)

Once Node is installed and running, using terminal as sudo (Node shell running as Administrator on Windows):

* Install globally Grunt, Karma, Bower and Grunt-Cli: $npm install -g grunt bower karma grunt-cli http-server

**Clone sample-app**

git clone <https://github.com/ericsson-innovate/sample-app.git>

**Start sample-app**

cd sample-app

http-server

Go to localhost:8080 and verify that application is running

**Run Head Unit App - On Android**

Open AT&T drive

Open Settings

Open Development Tab

- Enable App Development Mode

- Input your local ip/port (ifconfig on your local machine) to your local machine to get sample app

- Click into “Test App” or whatever name you’ve given it into main menu

**Simulate Navigation - On Android**

On Android -> Click into nServices

Set Routing On

Set Starting Location (address)

Set Destination (address)

Set transmission to Drive

Set Speed to what speed is desired

**Simulate Diagnostics - On Laptop**

Go to <http://mafalda.hack.att.io/>

Set values

**Start development**

- For each application update - don’t forget to go into AT&T Drive->Settings->Development->Refresh