**SNIA Installation Steps**

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# 1.Prerequisites

Node.js and npm are essential to run the SNIA basic Web Client. Node powers client development and build tools. The npm package manager, itself a node application, installs JavaScript libraries.

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| **Operating System** | Windows |
| **Node.js** | v.8.1.1 |
| **Npm** | v5.0.3 |
| **Angular/cli** | 1.4.5 |
| **Express** | 4.15.5 |
| **IDE** | WebStorm |

# 2. Environment Set up

1. Download the node.js from <https://nodejs.org/en/download/>
2. Install node.exe file

**note**: npm will be installed along with node

1. Express and angular/cli installation commands are provided in a batch (commands.bat) file
2. Run the batch file for successful installation of Express and angular/cli

[Image: commands.bat](#_2.1_Batch_Commands)

# 3. Web Client Installation

Run the below commands in terminal/console window , if you are running the application for the first time.

1. **cd views && npm install**

* cd views changes the current working directory(project) path to views folder where angular application resides
* npm install will install all modules listed as dependencies in package.json in to the local node modules folder, which are required to run the angular application.

1. **ng build**
   * The ng build command is intended for building the app and deploying the build artifacts.
   * The build artifacts will be stored in the dist directory
2. **cd .. && npm install**

* cd .. reverts the path from views folder to project folder
* npm install install all modules listed as dependencies in project's package.json in to the local node modules folder required to run the node application.

1. **npm start**

* This runs an arbitrary command specified in the package.json's "start" property of its "scripts" object.
* Npm scripts let you group together and run logically related commands and establishes a development server to execute the code , launches the application on browser.

1. Open **http://localhost:3000/** in your browser to access the Web Client.   
   npm start will launch the application on browser's http protocol and localhost as IPaddress on port 3000

\*\* Note: build to angular application is required upon any new pull request or if any changes are detected .So, follow the below steps to build and run the application

1. cd views && ng build
2. cd .. && npm start

Or   
 Directly run The application using npm start.

# 4 Batch Commands

