Installation Guide Puppers_Front

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1 Introduction

1.1 Purpose

This document provides an installation guide for the Puppers_Front application developed through Angular framework. To provide a comprehensive guide for the deployment in production of this web application.

It is important that users have a basic understanding of Angular and its principles concepts; typescript programming language, HTML, CSS, JavaScript and a brief introduction on npm.

1.2 Scope

The document will provide and step by step guide to install, and deploy the Puppers_Front app. It will run down the user to the necessary libraries, packages , application, and tools required.

Links will be provided with the sites to download the require tools and additional tutorials will be supplemented for the installation and configuration of this tools. For the rest of the guide pictures of the expected result, console outputs and example configuration files will be provided.

2 Installation Manual

2.1 Pre-requisites

It is imperative that before you follow the instructions of this manual, you had perform the actions int DogWalker_API_InstallationGuide

Compatible operating system:

- Windows 11
- Ubuntu 22.4

Any operating system compatible with node.js should been able to run the API. But not all tools might be supported by this OS. The complete list of compatible operating system for node.js and installation guides are provided here:

https://nodejs.org/en/download/package-manager

The guide will focus in the two main ones Windows 11 and Ubuntu 22.1

This component is important because Angular uses the npm package manager to perform many actions and functions.

Software components:

Run time environment: Node.js 18.16.1

1. Windows: Download node.js throw https://nodejs.org/en/download and complete the installation procedure. The result should install node.js and npm. Check the installation proses running in the Windows console:

npm -v

node -v

2. Ubuntu: Run in Linux shell to instal node.js and npm :

   sudo apt install nodejs 18.16.1

   sudo apt install npm 9.7.1

   Check the installation proses running in the Windows console:

   node -v
   npm -v

Daemon Process Manager: PM2 9.7.1

To download PM2 Node.js and npm must be installed in the computer. For booth OS consoles run:

npm install npm 2 9.7.1

And check the version with:

npm -v

Frameworks: Installing the Angular CLI

Angular CLI can be used to create projects, generate applications and libraries code. Also, activities like building and deploying are done with this tool.

To install Angular CLI, open a command line on the route that you want to create your project, and run the following command:

npm install -g @angular/cli

2.2 Pre-installation Tasks

Source Code

Check all the versions of the previously downloaded apps, tools, and frameworks. The wrong version can cause unexpected issues. If all the versions are the correct ones (newest ones), please continue the installation.

Download the app source file from the Github Repository:
https://github.com/glorona/PuppersFront

Code Editing Tool
Use a code Editing tool of your choice to open the PuppersApp folder. For this program the recommended Editing tool is Visual Studio Code:
https://code.visualstudio.com/download

2.3 Installation Procedure

2.3.1 Configuration

Open the folder of the project that you previously downloaded from Github using the Visual Studio Code tool.

Package installation:

A series of libraries must be installed to run the applications. These libraries are register in the package.json file which is supposed to content the next:

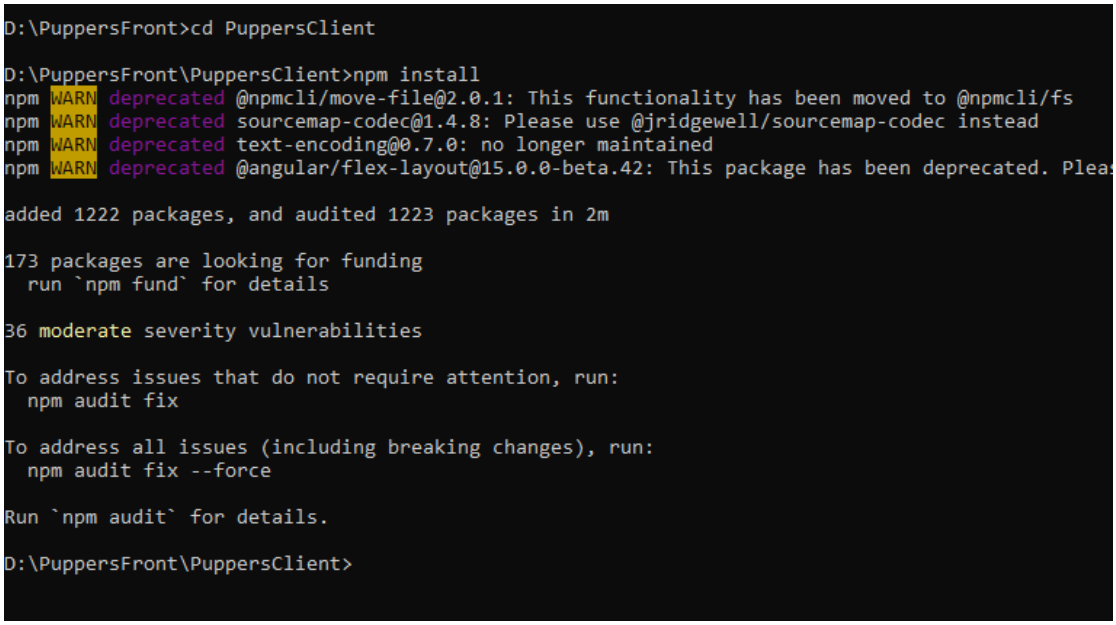

```
{
  "name": "puppers-client",
  "version": "0.0.0",
  "scripts": {
    "ng": "ng",
    "start": "ng serve",
    "build": "ng build",
    "watch": "ng build --watch --configuration development",
    "test": "ng test",
    "lint": "eslint '*/**/*.{js,ts,tsx}' --quiet --fix"
  },
  "private": true,
  "dependencies": {
    "@angular/animations": "^15.0.0",
    "@angular/cdk": "^15.2.9",
    "@angular/common": "^15.0.0",
    "@angular/compiler": "^15.0.0",
    "@angular/core": "^15.0.0",
    "@angular/flex-layout": "15.0.0-beta.42",
    "@angular/forms": "^15.0.0",
    "@angular/material": "^15.2.9",
    "@angular/platform-browser": "^15.0.0",
    "@angular/platform-browser-dynamic": "^15.0.0",
    "@angular/router": "^15.0.0",
    "@fullcalendar/angular": "^6.1.8",
    "@fullcalendar/core": "^6.1.8",
    "@fullcalendar/daygrid": "^6.1.8",
    "@fullcalendar/timegrid": "^6.1.8",
    "@okta/okta-auth-js": "5.9.1",
    "@popperjs/core": "^2.11.8",
    "angular-calendar": "^0.31.0",
    "axios": "^1.4.0",
```

The process to install all of this dependencies is:

1. Run the installation command in the console at the path ../PuppersFront/PuppersClient

   npm install.

2. Check that all packages have been install using npm list. The expected output should be:



3. In case one of the packages has not been installed run:

   npm install <package name> <package version>

4. In case that a vulnerability is found during any of the installation proses run:

   npm audit fix

2.4 Tests

2.4.1 Application Server:

1. Open a command line at the path /PuppersFront/PuppersClient
2. Change the server port to 4200

   set PORT=4200

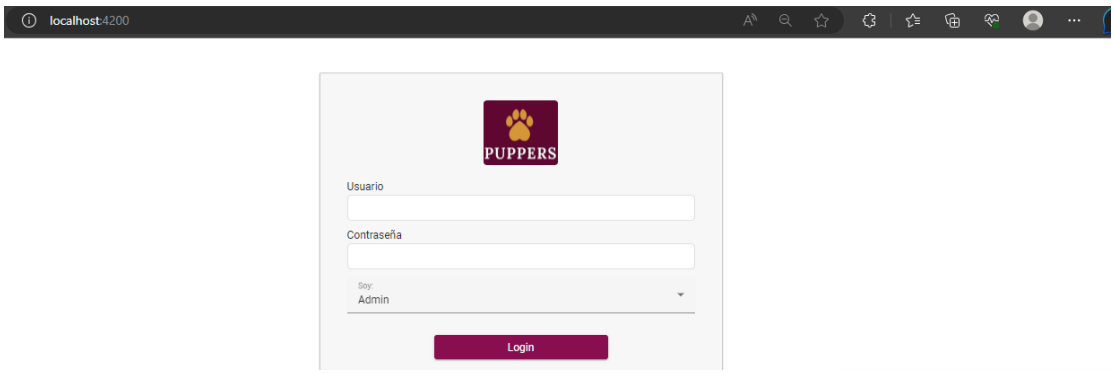
3. Start the compilation then:

   ng serve -o

   If the application is successfully compiled, something like this is on your output:

```
D:\PuppersFront\PuppersClient>ng serve -o
√ Browser application bundle generation complete.

Initial Chunk Files   | Names         |  Raw Size
vendor.js             | vendor        |   5.85 MB |
styles.css, styles.js | styles        | 551.16 kB |
main.js               | main          | 491.89 kB |
polyfills.js          | polyfills     | 314.28 kB |
scripts.js            | scripts       |  78.62 kB |
runtime.js            | runtime       |   6.52 kB |

                      | Initial Total |   7.26 MB

Build at: 2023-06-29T04:24:07.096Z - Hash: 1c2041656b6ced89 - Time: 177559ms

** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **


√ Compiled successfully.
```

1. Check that the application is running on the port:
    - http://localhost:4200



In case of failure verify that you had run the npm install command.