Usage Guide and Requirements

This project requires at least Node.JS 8.9.x (LTS) and NPM 5.5.x. The production environment requires a web server, e.g. Apache, additionally.

Development Mode

To prepare and start the development version of the software you need to have access to and a copy of the projects source files/git repo. To launch it, perform the following steps:

1. If not done before – "npm install" inside the "server" folder
2. Invoke "npm start" in shell/command line inside the "server" folder
3. If not done before – "npm install" inside the "webclient" folder
4. Invoke "npm start" in shell/command line inside the "webclient" folder
5. Open a browser (Firefox or Chrome supported) and type in "localhost:4200"

Production Mode

Reminder: Only the webclient is available for production (distribution/dist) mode since the server is not meant to be available to a client or on a client's machine.

Creating a dist version

If you own and have access to a copy of the complete source code of the project and want to create your own distributable production version, then continue with this part, if you already have a distributable production build then skip this and continue with "Running a dist version". This part requires that an angular Command Line Interface (@angular/cli using version 1.0.0) environment is set up and available. The node modules inside the webclient folder contain a local version (1.0.0) that will be installed when "npm install" performed.

To create a production/distribution version of the webclient, you need to perform the following steps:

1. If node_modules not set up/installed for webclient
2. Inside the "webclient" folder, execute "ng build –env=prod"
3. When ng build has finished and the "dist" folder is present in "webclient", then copy the "js", "css" and "node_modules" folders as well as the "systemjs.config.js"-file from "webclient" into "dist".
4. The dist version is complete now and the dist folder's contents need a webserver to be hosted

Running a dist version

To launch the production/dist version a webserver is required. This guide will be using Apache.

1. Place the contents of the dist folder inside the "htdocs" folder of your Apache server
2. Run the apache server and make sure that the authentication server of this project is available and configured properly (IP:Port)
3. Start a web browser and visit the configured address and port (e.g. 127.0.0.1:80)

Limitations

This prototype currently only supports one user. User and permission management needs to be implemented in the webclient. The NodeJS (auth) server has only one user stored in a text file. If this data source is replaced by a database, the server can support multiple users.

Report Analysis

Text File Support

The application supports text file loading of text document which have at least two sentences. Optionally, it supports date and title in the first line, if separated by "|". Document structure needs to be proper: Empty or invalid sentences like "   ." are not supported either. Example documents, which are not supported are nickelText15.txt and nickelText39.txt.