

Running Fontes Guide

A GUIDE TO RUNNING THE NEW FONTES WEBSITE

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Database

Pre-requisite

- MongoDB (vers. 4.2.6)

Running the Database

The database files can be found in the db folder in the root. The files should be runnable by the following command:

```
<MongoDB path>\bin\mongod.exe --dbpath=<project root>\webdev\fontes_project\db
```

This command runs the database on MongoDB's default port of 27017 from the local host. Once this is running, the database should be open for connections. If the database is to be run locally on a different port, the port can be run by specifying in the parameters of the above command with --port.

Understanding the Database

A thorough look at how the database works can be found in the report. No data was deleted or neglected when porting the database so the explanations should be correct.

Helpful Resources:

- <https://docs.mongodb.com/manual/>
- <https://docs.mongodb.com/manual/tutorial/install-mongodb-on-linux/#run-mongodb-community-edition>
- <https://docs.mongodb.com/manual/tutorial/manage-users-and-roles/>
- <https://docs.mongodb.com/manual/tutorial/enable-authentication/>

Node

Pre-requisites

- Node JS (vers. 12.16.3)

Before Running Server

Prior to running the server, the appropriate packages must be installed. The node modules are not included within the submission. The following instructions will explain how to install the modules using npm (node package manager).

1. Navigate to the root folder of the website. This will have app.js in it
2. Open the command line at this location
3. Type “npm install” to install all relevant npm packages locally

After following these steps, the necessary modules should be installed.

Running the Server

Once the node modules have been installed, simply running “npm start” in the command line at the root folder will start the server. However, it is recommended for the server to be run with “NODE_ENV” set to production as increases serving speed.

~~The code submitted points to a MongoDB database hosted in the cloud. This means that it should work even if running the server locally. Additionally, the current port that the server uses is 20561. This can be changed in the /bin/www file.~~

The code now runs with the local database, which was outlined in the previous section.

Any changes to the website HTML or CSS should be done with pug and stylus. More information on versioning can be found in package.json. The Stylus styl files and Pug pug files can be found in the “views” folder. The CSS files should be output to “public/stylesheets/” if changes are made.

The most relevant files have been minified so recompiled Stylus and JS files won’t show a difference unless the path in the pug files are changed.

Helpful Resources:

- https://expressjs.com/en/advanced/best-practice-performance.html#set-node_env-to-production