ResearchMyProfessor Build Documentation & User Manual

ITSC 4155 – Software Development Projects

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## Running ResearchMyProfessor on a local computer

Assumptions

* Operating System – Windows 10 64 bit
* Coding Environment – VSCode
* Installed NodeJS (NPM) and MongoDB database applications/services
* VSCode is integrated with GitHub
* Google Chrome Browser

Download Links for External Application Dependencies

* VSCode download - <https://code.visualstudio.com/download>
* NodeJS download – <https://nodejs.org/en/>
  + Version 16.14.2 LTS (Recommended for most users)
* Git download - <https://git-scm.com/downloads>
* Chrome Download - <https://www.google.com/chrome/>
* MongoDB Community Server – <https://www.mongodb.com/try/download/community?tck=docs_server>
  + MongoDB Download Instructions - <https://www.mongodb.com/docs/v4.4/tutorial/install-mongodb-on-windows/>

Build Instructions (After installing all required applications)

1. Open VSCode
2. Open the ResearchMyProfessor folder
3. Go to Terminal 🡪 New Terminal
4. In the new terminal, type “npm i” – This will install all the 3rd party node packages we are using
5. Additionally, type in “npm install -g nodemon” to install the nodemon addon.
6. After installing all the packages, type into the terminal: “nodemon app”
7. This should run the application on the localhost via port 3000
8. Open google chrome
9. In the URL section type in <http://localhost:3000/>
10. This should load the landing page of the website.
11. Explore the website by clicking on the different links

Possible problems during build

* Dependencies not installed, creating error when building (Mongo, NodeJS, etc)
* MongoDB might have been installed, but not running as a service. To address this, go to Control Panel > Search “Admin” > Administrative Tools > Service > Ensure that MongoDB Server (MongoDB) has a status of “Running”
* MongoDB may complain about not being set as a system environment variable. To address this, go to the windows search > Edit the system environment variables > System variables > Edit > New > Post path to the MongoDB bin directory located on computer, find this path by opening file explorer > locating the bin in mongo server > copying URI from top bar > paste into path variable > Ok > Ok > Ok
* Nodemon may complain to Window users about powershell policies not allowing the computer to run scripts. To fix this, you must open powershell and change a security policy. Run Powershell as an admin > then “Set-ExecutionPolicy RemoteSigned -Scope CurrentUser”. This should allow the nodemon script to run on the computer.
* If problems persist, googling could result in some useful stack overflow articles. Otherwise contact a team member for further guidance. MongoDB seems to be finicky in regards to running locally for some reason.

## User Manual