ResearchMyProfessor Build Documentation & User Manual

ITSC 4155 – Software Development Projects

UNC Charlotte

March 24th, 2022

## 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 regarding running locally for some reason.

## User Manual

1) After installing all the 3rd party dependencies and applications, open the VSCode editor. Go to the file explorer menu and select “Open Folder”.

Graphical user interface, text

Description automatically generated

2) Navigate to the directory where the UNCC-ITSC-4155-Zoomers folder is located. Once locating the document, hit the “Select Folder” button.

Graphical user interface, text, application

Description automatically generated

3) After loading the code into the VSCode Editor, locate the terminal tab at the top of the page.

Text

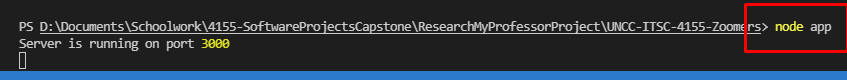
Description automatically generated

4) Open a new Terminal in the code editor and type in npm i to install all local dependencies being used.

Text

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5) After installing these dependencies, either type “node app” or install nodemon to dynamically load the application while editing. After installing nodemon, type nodemon app to start the application.



OR 🡪





6) After launching the local instance on the browser, open google chrome and navigate to the following URL. Hit enter to load the website.

Graphical user interface, text, application, website

Description automatically generated

7) On the homepage, the user can read all about recent news events relating to the research that occurrs at UNCC. These new articles are being live scraped from the UNCC domain and will update to reflect the domain itself. The right side panel desplays information about the different departments at UNCC. These links wil redirect to the corresponding college’s website. This section also explains the purpose of the web application.

Graphical user interface, website

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8) The user is also able to register and login to the application through the sign up and login links at the top right. To register an account click on the sign up view. When in this view, fill out the form fields to create an account.

A screenshot of a computer

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9) To login to the application, input your username and password that you created when logging in.

Graphical user interface, text, application

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Graphical user interface, website

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10) The professor profile is currently in a very early stage as it has no path and the view is still in development, but the data is successfully being scraped. As seen in the video, the professor profile page is loading data directly from the database. So, a query must be performed to access this data. Sprint 3 should see this feature fleshed out.

11) As seen in the homepage footer, there are various links that all lead to UNCC related platforms. These icons link to the official UNCC domain, facebook, twitter and Instagram. This will allow students the opportunity to actively participate within the niner community.

Graphical user interface, website

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