Eventually we would like to mature this process so end users do not need to worry about managing dependencies. As it stands, if you want to develop with the app, or just run the app outside of our managed VM, then some manual dependency management is necessary for the time being. This guide is to ease the process and provide common troubleshooting.

Install npm and node.js globally (on your own machine for your convenience) or in each project folder (on the VM and on your own machine you want to avoid global installs for safety/stability reasons). Note that the “sudo” in the below commands is unnecessary if you are installing from a shell with root/admin privileges. Also note some of the below commands involve global installs (the “-g” command.) You can omit that if you don’t want to do global installs for some reason.

You can use pretty much whatever shell you want, though here are some recommendations. If you are on Windows, use Git Bash. If you cannot or do not want to install separate software, you can also use either the base command line (cmd) or PowerShell if you run with admin privileges. Note sometimes the syntax of commands will be different. For Mac/Linux/Unix/etc. you can likely use the default terminal or the terminal of your choice. Our VM uses UXTerm, which is the default terminal for the X Window System (xterm) with added Unicode support. Most commands given will be general, but there may be rare circumstances where xterm commands will be given and may need converted to work with other shells.

As of 3/15/2019 at 10:40AM, this is the current list of software that the latest version of the project uses. Note this version of the project is at or near bleeding-edge and may not be completely stable. Also note that there may be more software “under the hood” so to speak; for example, drizzle uses some web3 libraries. You can see the dependencies by going to the “ui” folder in the path and using the command “npm list –depth=0”.

[ajv@6.9.1](mailto:ajv@6.9.1)

[bootstrap@3.4.0](mailto:bootstrap@3.4.0)

[drizzle@1.2.4](mailto:drizzle@1.2.4)

[react@16.7.0](mailto:react@16.7.0)

[react-bootstrap@0.32.4](mailto:react-bootstrap@0.32.4)

[react-datepicker@2.0.0](mailto:react-datepicker@2.0.0)

[react-dom@16.7.0](mailto:react-dom@16.7.0)

[react-router-dom@4.3.1](mailto:react-router-dom@4.3.1)

[react-scripts@2.1.8](mailto:react-scripts@2.1.8)

[typescript@3.3.3333](mailto:typescript@3.3.3333)

You can learn more about all of these and more at <https://www.npmjs.com/>

Install the below:

For truffle:

Sudo npm install [truffle@4.1.15](mailto:truffle@4.1.15) (MUST BE THIS EXACT VERSION)

For solidity:

Sudo npm install [solidity@0.4.25](mailto:solidity@0.4.25) (USE THIS EXACT VERSION)

For drizzle:

Sudo npm install [drizzle@1.3.3](mailto:drizzle@1.3.3) -g

Sudo npm [drizzle-react@1.2.0](mailto:drizzle-react@1.2.0) (optional for now but may be added soon)

For ganache:

Sudo npm install [ganache-cli@6.3.0](mailto:ganache-cli@6.3.0) –save

For react:

Sudo npm install [react@16.7.0](mailto:react@16.7.0)

Sudo npm install [bootstrap@3.4.0](mailto:bootstrap@3.4.0)

Sudo npm install [react-bootstrap@0.32.4](mailto:react-bootstrap@0.32.4)

Sudo npm install [react-datepicker@2.0.0](mailto:react-datepicker@2.0.0)

Sudo npm install [react-dom@16.7.0](mailto:react-dom@16.7.0)

Sudo npm install [react-router-dom@4.3.1](mailto:react-router-dom@4.3.1)

Sudo npm install [react-scripts@2.1.3](mailto:react-scripts@2.1.3)

Sudo npm install [node-gyp@3.8.0](mailto:node-gyp@3.8.0) (this one is a pain, see dependencies).

For miscellaneous dependencies:

Python: Python 2.7.12

XCode: should be pre-installed. Version not specified.

Windows only:

Microsoft's [windows-build-tools](https://github.com/felixrieseberg/windows-build-tools) OR (Visual C++ Build Environment: [Visual Studio Build Tools](https://visualstudio.microsoft.com/thank-you-downloading-visual-studio/?sku=BuildTools) (using "Visual C++ build tools" workload) or [Visual Studio 2017 Community](https://visualstudio.microsoft.com/pl/thank-you-downloading-visual-studio/?sku=Community) (using the "Desktop development with C++" workload) )

enter ui folder

npm list –depth=0

sudo npm install create-react apps

Windows: Run npm audit fix if prompted

sudo npm prune

sudo npm update drizzle (optional)

Fuser –n tcp –k 3000/8545

Symbolic link working on Ubuntu now (it seems)

On windows: Use this software to create the symbolic link:

<http://schinagl.priv.at/nt/hardlinkshellext/linkshellextension.html#download>

You can also try using mklink from cmd, or Powershell, but I had the best luck with the above.

sudo npm audit fix (if that fixes everything great, if not fix manually (update specfic issues)

You can remove dependencies that are unnecessary FOR YOUR CURRENT BUILD/COPY ONLY using:

sudo npm prune (be careful)

The below can be used to install ajv.

sudo npm install ajv@6.9.1

Some helpful troubleshooting links are below:

https://stackoverflow.com/questions/21417014/npm-command-to-uninstall-or-prune-unused-packages-in-node-js

https://stackoverflow.com/questions/35738346/how-do-i-fix-the-npm-unmet-peer-dependency-warning

https://stackoverflow.com/questions/52717959/create-react-app-dependency-issue-with-webpack