Pre- install programs:

Ethereum Mist Wallet:

https://ethereum.org/

Install mist wallet browser...will take you to the right install based on OS

You must start and sync

Then connect to test network rinkeby

Select "start" mining

Visual Studio Code:

https://code.visualstudio.com/

May use sublime or other editors

npm/ Node Package manager:

https://github.com/npm/cli

https://docs.npmjs.com/cli/install

https://docs.npmjs.com/cli/install

Node:

https://nodejs.org/en/download/

Install latest node version for baseline

• npm install (in package directory, no arguments):

Install the dependencies in the local node_modules folder.

In global mode (ie, with -g or --global appended to the command), it installs the current package context (ie, the current working directory) as a global package.

By default, npm install will install all modules listed as dependencies in package.json.

With the --production flag (or when the NODE_ENV environment variable is set to production), npm will not install modules listed in devDependencies.

NOTE: The **--production** flag has no particular meaning when adding a dependency to a project.

Chrome:

Most laptops will have it...if not..get it because metamask works Best on chrome

Metamask:

metamask.io

Metamask is a chrome extension

React:

https://reactjs.org/

Truffle:

To write your custom contracts, import ours and extend them through inheritance.

```
pragra solidity ^8.4.24;
import 'openzeppelin-solidity/contracts/token/ERC721/ERC721Full.sol';
import 'openzeppelin-solidity/contracts/token/ERC721/ERC721Mintable.sol';

contract NyNFT is ERC721Full, ERC721Mintable {
   constructor() ERC721Full("MyNFT", "MNFT") public {
   }
}
```

https://truffleframework.com/

npm install -g truffle

Ganache:

https://truffleframework.com/ganache

https://github.com/trufflesuite/ganache

Requirements:

- npm v5.3.0
- node v8.3.0

Demo:

- 1. Clone the repo from link above
- 2. Run npm install

3.	Run	npm	start
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Ganache-cli:

Installation

ganache-cli is written in Javascript and distributed as a Node package via npm. Make sure you have Node.js (>= v6.11.5) installed.

npm install -g ganache-cli

Open Zeppelin:

https://openzeppelin.org/api/docs/open-zeppelin.html

https://openzeppelin.org/

https://github.com/OpenZeppelin/openzeppelin-solidity

Run inside project directory

npm install openzeppelin-solidity

Other packages: