## **Project Dependencies:**

- 1. node.js, npm
- 2. npx
- 3. truffle
- 4. @truffle/hdwallet-provider
- 5. @openzeppelin/contracts
- 6. ethers
- 7. axios
- 8. chai, chai-as-promised
- 9. ipfs-http-client
- 10. web3
- 11. web3modal
- 12. tailwindcss, postcss
- 13. autoprefixer

## Steps:

- Download node.js and npm from <a href="https://nodejs.org/">https://nodejs.org/</a>
- 2. Download npx from command prompt: npm i npx
- 3. Create next.js app using npx:
  - a. Command: npx create-next-app nft-polygon-marketplace
- 4. Install truffle framework: npm install -g truffle
- 5. Install dependencies:
  - a. Command: npm install @truffle/hdwallet-provider @openzeppelin/contracts ethers axios chai chai-as-promised ipfs-http-client@50.1.2 web3 web3modal
  - b. Command: npm install --save-dev tailwindcss@latest postcss@latest autoprefixer@latest
- 6. Configure truffle:
  - a. Create a truffle project structure: truffle init
  - b. Setup Ganache, Metamask
  - c. Create a .secret file to hold wallet seed phrase
  - d. Changes in truffle-config.js file:
    - i. Set up @truffle/hdwallet-provider
    - ii. Set up development network:

iii. Set up polygon test network:

- 7. Tailwind setup:
  - a. In the command prompt run: npx tailwind init -p
  - b. Modify global.css file to:
    - @tailwind base;
    - @tailwind components;
    - @tailwind utilities;
- 8. Creating NFT.sol smart contract
- 9. Creating NFTMarket.sol smart contract
- 10. Compiling contracts: truffle compile
- 11. Testing contracts: truffle test
- 12. Migrating contracts: truffle migrate --network < give network name here>
- 13. To run front end server: npm run dev