To create a package in Node:

Create a new folder, through terminal go to that folder and enter the following:

npm init -y

-y here means to initialize npm with all default parameters, i-e. set all default parameters to yes

This will create package.json file in directory

Then go to vscode, either by directly opening it or by entering code . in terminal

Then open folder “class2” and open a new terminal

Next type tsc --init in terminal to initiate a typescript project. A tsconfig.json will be automatically created.

checkFile->autosave, so that code will be automatically saved

to transpile files(tsc index)

if you just enter tsc, it will compile all files

npm i @types/node

This package is used to load in all type definitions when using typescript in node. When you add other packages, you also have to add their typings if they do not include them by default. For e.g ‘require’

or npm i @ -D @types/node

dev dependencies are the third party libraries on which your function depends. There are two types of dependencies normal and dev. Normal are the ones that you need to run your project in a new environment/system.

DevDependencies are the packages that are required for development and testing purposes only. These packages are not required for the application to run properly, but they are needed for tasks such as building, testing, and linting the code.

How to make ES module

1. Add “type” : module in package.json
2. Change target to ES2022 in tsconfig.json
3. Uncomment moduleResolution and set it to NodeNext

Inquirer installation

* npm i inquirer
* npm i –save inquirer//savme as above, old node version if we used to install any library without –save then it won’t save it in package.json. But in latest versions you do not need to use it.
* npm i @types/inquirer -D

To deploy at npm:

Go to npmjs.com website and signup

Go to package.json file add property bin

“bin” : “./index.js” path of first file of project

Add the following string on top of index.ts file

//  #!/usr/bin/env **node**

then run command npm login

And run command npm publish

You can now install the package by using npm i [packagname]

You can run the package by running command npx [packagename]

[packagename] is the name of the package in package.json file

Next.js

npx create-next-app @latest ./

client side rendering: for example react. It loads all layout after built, this is why it is flop in e-commerce and also not SEO supported. Full bundle of javascript is first loaded which is then converted to html and css, this is why it takes time.

server-side rendering: all static page rendering is done at built time.