ASSIGNMENT - 02

Q1 What is NPM?

Ans NPM is Node Package Manager. NPM uses to Manage all the dependencies either normal or Dev. both by managed by Node package Manager in node modules. folder. And Configured in package.json and Package-lock.Json.

Q2. What is "Parcel/Webpack"? why do we need it?

Ans Parcel is a build tool for application development. Parcel have many functionalities in it. like :-

- Bundling.
- Code optimization
- Hot module replacement.
- Con remove extra Code
- Made Code Production ready.
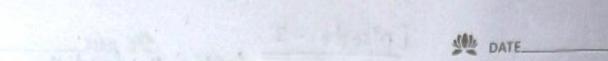- Provide Automatic reload feature
- Code Cache etc.

Q3. What is '.parcel-cache'

Ans. When we save our code a cache file
is created and the ~~code~~ whole code is
saved in that file and ~~when~~ this file
is known as '.parcel-cache'.
　　　It helps the Application to reload faster.

Q4. What is 'npx'?

Ans NPX is Node package Executioner.
Basically it is the ~~be~~ ~~cni~~ way to execute
the Node Packages or dependencies.

Q5. What is the diff b/w 'Dependencies' and 'Dev-dep.'

Ans. Dependencies have ~~an~~ Packages of all modules.
but Dev Dependencies ~~o~~ have only
those modules which will be used
for Development only.

Q6   What is Tree Shaking.

Ans   Tree shaking is a functionality of parcel By using this, the extra file and are getting ignored in production.

Q7   What is Hot Module Replacement ?

Ans   HMR is also a functionality of parcel. It updates the code without fully refreshing the page in the browser when we change something in our code. because it has 'File watching Algorithm' which keep track of file changes while development and render those changes on the web page.

Q8 List down your favorite 5 super power of parcel and describe any 3 of them in your own words.

Ans. ① Dev build.
    ② Error Handling
    ③ Cache
    ④ Minification
    ⑤ File watcher.

① Error Handling :— Parcel gives us smooth error handling. It gives us indication for on which line/ ^part of code we had error.

② Minification :— Minification helps the code to be optimised by removing extra space. So that the size of code should be less.

③ Cache :— In & (~~a part that code~~) 'parcel-cache' file all the code is saved. so that when ~~we save~~ we change something, it can render it even faster.

Q9. what is `.gitignore` ? what should we add and not add into it ?

Ans. `.gitignore` is a file which is used to ignore the mentioned files in it by pushing it to the github. and also production. Basically, we add those files in `.gitignore` which is not necessary for production or file that can be regenerated.

Q10. why should I not modify `package-lock.json`.

Ans. Because Pakage-lock.Json file here the dependencies and integrity in it which have the modules strict configuration in it.

And if We try to modify package-lock.json then our may crashed or not work properly.

Q11 what is 'node-modules'? Is it a good idea to push that on git.

Ans. 'Node modules' is a folder, in which have all modules installed in it. for development we only need to execute those modules by the help of "npx".

Node modules file is very large file and it should not pushed to github. Because. It can be regenerated with the help of 'npm init' Command.

Q12. what is dist folder?

Ans Dist (Distributed) folder is the collection of files and folder which are used for production.