<center>**NAMASTE REACT COURSE ASSIGNMENT 2**</center>

- **What is NPM?**

This is a package manager and this acronym does not stand for any specific name. it is used to manage packages in our app, when working with a lot of packages.

- **What is Parcel/Webpack?**

These are web development packages/modules, used in optimizing our app, for a better performance.

However, these packages cannot function without a package manager (NPM, Yarn etc.).

- **What is parcel-cache**

This is a file produced by parcel in order to save all the changes made to our app.

  ➢ I use parcel, because of its relative ease to configure and its speed.

- **Why do we need it?**

Just as previously mentioned, these packages are used in curbing app performance challenges, by doing the following:

  i.   Minification
  ii.   Tree shaking
  iii.   Makes app compatible with older versions of browsers.
  iv.   Media optimization
  v.   Zero configuration.
  vi.   Hot Module Replacement

` ● **What is npx?**

This means package manager execute.

- **What is difference between dependencies vs devDependencies?**

The difference between these two, is that devDependencies are packages which are only required during development (Babel etc.), while dependencies are modules which are also required at runtime (React, Redux etc.).

- **What is Tree Shaking?**

This is one of the benefits of packages, it is the process of removing unwanted (dead) codes from our app. packages rely on the import and export statements to detect if dependencies are exported and imported for use between JavaScript files.

- **What is Hot Module Replacement?**

This is one of the ways, the bundler helps in improving development experience, through the use of File Watcher Algorithm, in automatically updating modules in the browser; this in turn reload specific parts of the code during runtime, whenever alterations are made to the code.

- **List down your 5 favorite superpowers of Parcel and describe any 3 of them in your own words.**
  a. **Minification**
  b. **Tree shaking**- This is one of the benefits of packages, it is the process of removing unwanted (dead) codes from our app. packages rely on the import and export statements to detect if dependencies are exported and imported for use between JavaScript files.
  c. **Compatibility with older Browser versions**- Makes app compatible with older versions of browsers.
  d. **Media optimization**
  e. **Zero configuration**.
  f. **Hot Module Replacement** - This is one of the ways, the bundler helps in improving development experience, through the use of File Watcher Algorithm, in automatically updating modules in the browser; this in turn reload specific parts of the code during runtime, whenever alterations are made to the code.
- **What is .gitignore? What should we add and not add into it?**

The. gitignore file is a text file that tells Git which files or folders to ignore in a project. In our app, auto generated files should be moved to .gitignore file. However, files used for build production, cannot be kept in .gitignore file.

- **What is the difference between `package.json` and `package-lock.json`**

When working on projects which utilize packages, these files are usually found in the project root.

The pakage.json - contains meta-information (details about another data, which is used in maintenance) about the package like versioning information, what the package is about, dependencies of the package, how to set up the package and so much more. This file is usually created, when we run "npm init". While, **the package-lock.json** is solely used to lock dependencies to a specific version number. the versions of all dependencies your package would need are locked (-lock) in this file. This means when you run "npm install" on another system, npm checks this file to install the exact versions of the dependencies. This file is created, when we run "npm install"

- Why should I not modify `package-lock.json`?

This could expose our app to bugs, which originally would not have been so, if we leave our pakage-lock.json file unaltered.

- **What is `node_modules`? Is it a good idea to push that on git?**

This is more like the database of all the packages which your app depends on, hence, making this folder heavy. Due to the size of this file, it should not be moved to the. gitignore folder.

- **What is the `dist` folder?**

This is where parcel saves the files needed for build production. This is where we find the minified codes.

- **What is browserslist?**

Browserslist: is a tool that allows specifying which browsers should be supported in your frontend app by specifying "queries" in a config file. It's used by frameworks/libraries such as React, Angular and Vue, but it's not limited to them.

The queries could include:

Last (n) versions: where n= number

0.2%: All browsers that have at least 0,2% of global market share

not dead: Exclude browsers without official support in the last 24 months

not IE <= 11: Exclude IE 11 and older versions. Where IE= internet explorer.

not op_mini all: Exclude Opera Mini