

Episode 2: Igniting Our App.

use of npm?

- Npm is a package manager, where it manages all the configuration of the packages.
- It is a Standard Repository, Where All The Package Code Exists.
- **npm install**

creation of package.json ?

- `npm init`

What is Dependencies?

What is Bundler ?

It is A Most Package In React. It's a Beast To React.

- Bundler is A Bundling , Minimised and Optimised All Our Code .
 1. Parcel
 2. Web Pack
 3. Veet.

Installing Parcel?

- `npm install -D parcel.`

Difference Between Caret(^) and tilde.

What is Package.json?

- It is a Configuration to a NPM.
- It Keeps Track Of What Version Of That Package Is install on Our System .

What is Package-lock.json?

- It keeps Track of Exact Version and Keeps The Record of That Versions.
- Unlike in Package.json, it doesn't update to upgrades(^ symbol).

What is Node Modules?

- It is Kind Like A DataBase , Where All Dependencies Code Is Exist.

What is Transitive Dependencies?

Every Dependencies has its own dependencies and this dependencies has its own dependencies so on so on.. That Why Node_Modules files are so heavy and big.

Note::

- If We Have Package.json and Package.json Files , We Can Regenerate All The node_modules.even if it is deleted.
- So that is why we cant push node_modules into the git and production.
- We cant push code to git , if it is Regenerated.

PART2:IGNITING OUR APP

Igniting our App With Parcel?

- We use Command **npx parcel source file.**
- **Ex:npx parcel index.html**
- Here npx means Executing the package. It is different different from npm. npm is used for installing The Packages.

CDN Links is Not A Good Way To Inject React Into Our Code.

Then What is The Process!

Using npm We Can Install React and React DOM

npm install React

npm install ReactDOM

UseCases For Parcel:

- Dev Build
- Local Server
- HMR = Hot Module Replacement
- File Watching Algorithm - written in C++
- Caching - Faster Builds
- Image Optimization
- Minification
- Bundling
- Compress
- Consistent Hashing
- Code Splitting
- Differential Bundling - support older browsers
- Diagnostic
- Error Handling
- HTTPs
- Tree Shaking - remove unused code
- Different dev and prod bundles

How To Build Production Ready Parcel!

Npx build parcel index.html

Remove main from package.json