***Creating React Project:***

* **npx create-react-app (appname)**
* If it doesn’t work run **npm install –g create react-app** and the run first command
* Defualt port will be 3000
* React is a Javascript library , it is not a framework.
* JSX => Syntax extension to JavaScript
* That is not compulsory to use only JSX => But using JSX is somewhat easy and useful.
* Components => Small Pieces of UI
* Two Types => Functional and Class Component.
* Functional Component => Accepts Props as Argument and return react elements.
* Class Component => extends from React.Component and it has render function which returns react element.
* Functional Comonents => Stateless Component.
* Hooks cannot use in Functional Component => Because hooks are from React.Component class.
* StrictMode is a React Developer Tool primarily used for **highlighting possible problems in a web application**
* Packages like bootstrap and font awesome are installed and imported in index.js file to use inside the components
* We can use custom font from google font online , either through **link or by import**
* Yarn => will install packages **parallel(Fast)** and NPM will install **serial (Slow)**
* **YARN** => Yet Another Resource Negotitor
* **Axios =>** Library to make http request
* **Axios is alternative for https**
* **Middleware =>**  Bridge between OS or database.

***Git Commands:***

* **git init** to instilize git inside your project folder
* git status => to see the status of files and folders
* git remote add (**anyname**) (url of repo) => **Anyname = ObjectName**
* git add . (To add)
* git commit –m “Message”
* git push **ObjectName** master => master(Branch)
* git pull **ObjectName** master => master(Branch)
* git remote –v (To see object for remote)
* git config –global user.email [mail@gmail.com](mailto:mail@gmail.com)
* git config –global user.name “Siva”
* git config –get name => TO see username
* While creating access token => Enable some checkboxes
* Gitignore file => First create as textfile, then open cmd and run **ren gitignore.txt .gitignore,** to change text file into gitignore file

***Node Js:***

* **npx express-generator (appname)** to create the node API
* After the app created run **npm install to** install the dependicies like exprexx and etc.
* MongoDB Driver **=>** It is a low level and its is a native to connect with the mongoDB
* Mongoose => Mongoose is built on the native mongoDB driver (Example => Hibernate in Java) It is like a ODM => Object Document Mapping) (It is Library).
* <https://cloudnweb.dev/2019/04/mongoose-connection-in-express-js/>
* Nodemon => Reload the server when there is any change
* Nodemon => should be installed globally
* Mongoose like => hibernate , MongoDB Driver => JDBC Template