IIDT-Blackbucks short term internship FSD session 03-APSHE

The Third Session is about creating a single page web apps with React.js In this session we learnt

Detailed explanation about web site and web apps. Node.js installation and how to run node.js in vs code,React.js installation and explanation and a bout files and folders in react and explained

About file structure and project.

**Topics Covered:**

1**.**Web site and web app Detailed explanation.

2.Node.js installation.

3.Running Node.js in VS code.

4.React installation and explanation.

5.File structure and Project explanation.

6.React files and folders explanation.

**Key points:**

* Website is known as Static which means ,The user is not contributing to the data. I’ts read only
* Web application is dynamic ,That the web application can take user input can take some data from the user is able to add on to your data ex: Linkedin , facebook, youtube etc.,
* React gives us the ability to build such web apps where we have multiple independent components that are put together on a single screen.
* Single html page is used in the entire project and everything will be managed by javascript.
* The reason why react apps are called single page application is because there is only one html file is used for the entire project.
* Node.js it allows us to run Javascript outside of the browser.
* Node.js is a tool that helps us to create react apps.
* To create a new react app we have to write terminal command using node.js
* To run the node in vs code the command is npx create react app and name of the application.
* The command is going to create a brand new folder within which the react app will be created so there are going to be a lot of default files and folders that get created.
* React is a library for web UI and web interfaces, so basically react.js just gives us a lot tools which are called components to create different types front-end elements.
* In simple term what will react do is it will give us tool kit away of creating UI components or UI elements.
* CD Command purpose is to change the directory.
* Once node.js is installed then you have to run a command for installing the create react app command that command is npm install -g create-tract-app then create npx space create react app and name of the application.
* The name of the app can be only in lower case.
* Npx means node package execute.
* Npm means Node package manager.
* Once the application is created and then we can see some folders and files
* Package.json is a file which keeps track of the entire project it is a setup that work on the entire project if it is not there the project will not work.
* Package-lock-json is an supporting file for a package.json we should not make any changes in this file. It is expanding that everything mentioned in the package .json
* Node-modules folder keeps the track of all the dependency installations.
* Public folder having a index.html file
* noscript is a tag basically it recognizes whether the browser supports javascript or not.
* Source folder this is where we write all our custom code.
* App fille is different from index file because app is an component.
* React is insert or embed the code within the div tag.