React Assignment

- ## What is React Js?

ReactJS, commonly known as React, is a popular open-source JavaScript library used for building user interfaces (UIs) for web applications.

- ## What is NPM in React Js?

In the context of ReactJS, NPM stands for Node Package Manager. NPM is a package manager for JavaScript that allows developers to easily install, manage, and share reusable code packages. It is a crucial tool in the React ecosystem as it simplifies the process of adding external libraries and dependencies to a React project.

- ## What is Role of Node Js in react Js?

Node js is a JavaScript runtime built on Chrome's V8 JavaScript engine that allows developers to run JavaScript on the server-side.

- ## What is CLI command In React Js?

In ReactJS, CLI (Command Line Interface) commands are used to interact with the development environment, create new projects, manage dependencies, and perform various development tasks. These commands are executed in the command line or terminal.

- ## What is Components in React Js?

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In ReactJS, components are the building blocks of user interfaces. A component is a self-contained, reusable piece of code that encapsulates a part of the user interface and its functionality. Components allow developers to break down the UI into smaller, modular pieces, making it easier to build and maintain complex applications.

- **What is Header and Content Components in React Js?**

Header Component: The header component represents the top section of a web page or a specific section within a page. It typically contains branding elements, navigation menus, search bars, and other UI elements that provide a consistent layout and navigation across the application. The header component is often placed at the top of the page and remains fixed or persistent as the user scrolls through the content.

Content Component: The content component represents the main section of a web page or a specific section within a page where the actual content or functionality is displayed. It may include text, images, forms, lists, or any other UI elements that make up the core part of the page. The content component is usually dynamic and can change based on user interactions, data fetching, or application state.

- **How to install React Js on Windows, linux Operating System? How to install NPM and How to check version of NPM?**

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1. Install Node.js: Visit the official Node.js website (https://nodejs.org) and download the installer for the LTS (Long-Term Support) version for Windows. Run the installer and follow the installation instructions.

2. Open Command Prompt: Open the Command Prompt by pressing Win + R, typing "cmd", and pressing Enter.

3. Install Create React App: In the Command Prompt, run the following command to install Create React App, a tool for setting up React projects
   npm install -g create-react-app

4. Create a New React Project: Once Create React App is installed, you can create a new React project by running the following command: npx create-react-app my-react-app

5. Navigate to Project Directory: Change to the project directory using the following command: cd my-react-app

6. Start the Development Server: Run the following command to start the development server and launch your React application: npm start

- **How to check version of React Js?**

1. Open your project's command prompt or terminal.

2. Navigate to the root directory of your React project. This is the directory where the **package.json** file is located.

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3. Run the following command to display the installed version of ReactJS: npm list react

- ## How to Create a List View in React Js?

1.

```
import React from 'react';

function ListView() {

  const items = ['Item 1', 'Item 2', 'Item 3']; // Sample list data

  return (

    <ul>

      {items.map((item, index) => (

        <li key={index}>{item}</li>

      ))}

    </ul>

  );

}

export default ListView;
```

2.

```
import React from 'react';

import ListView from './ListView';

function App() {
```

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```
  return (

    <div>

      <h1>List View Example</h1>

      <ListView />

    </div>

  );

}

export default App;
```