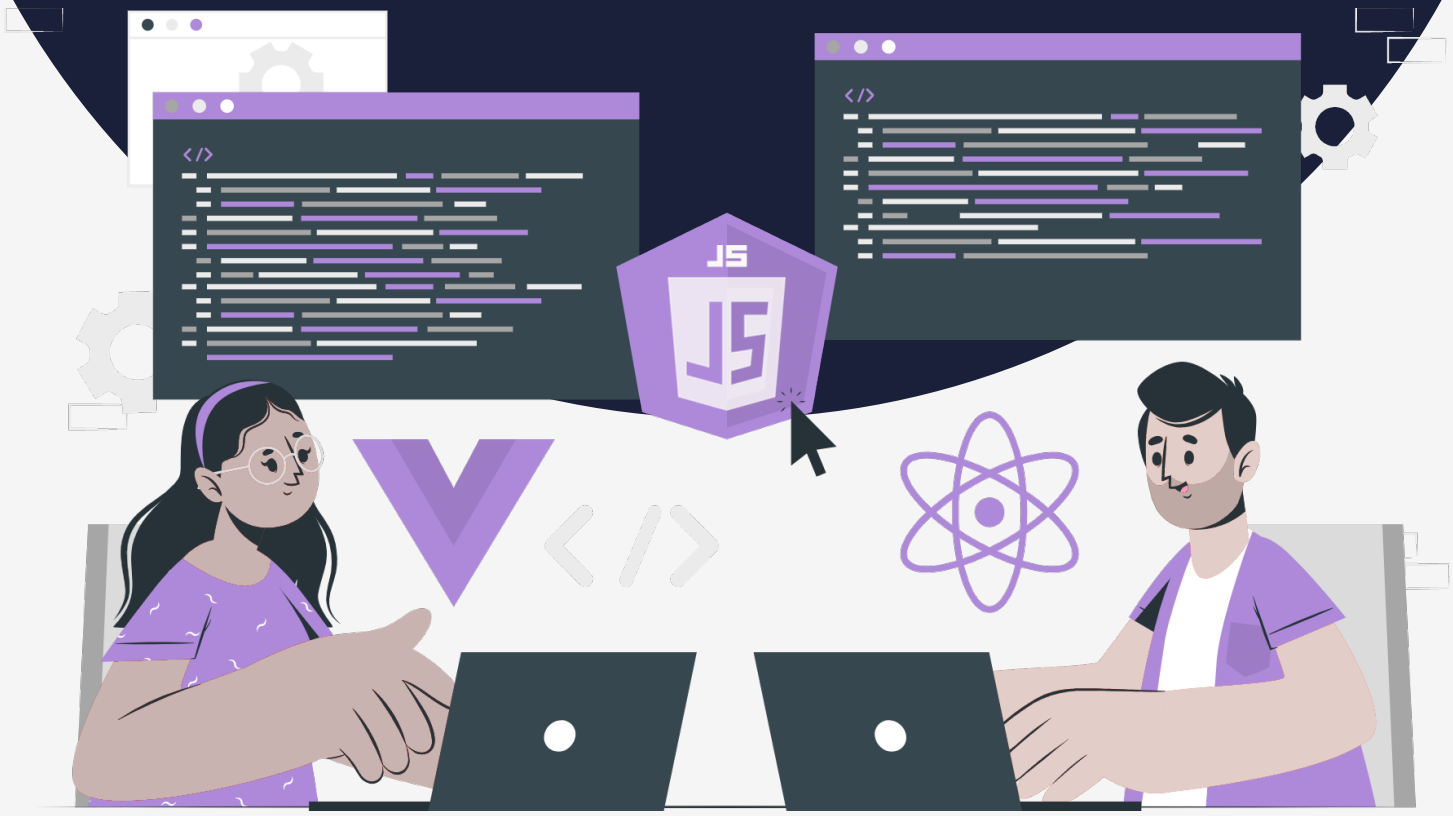
Lesson:

Create React App



PW SKILLS

Topics Covered:

1. What is create-react-app
2. How to use it ?

What is create-react-app?
Create-React-App (CRA) is a tool developed by Facebook for creating and building React applications with minimal setup. It allows developers to quickly set up a new project with a basic file structure and a development server, without having to manually configure webpack or Babel. CRA also provides a set of scripts and tools that make it easy to test, build, and deploy React applications.
By using Create-React-App, developers can focus on writing code for their application instead of spending time configuring the development environment.

One of the methods listed below can be used to start a react project. Assume that node was installed.

```
create-react-app name-of-project
```

You can use the following command to install the create-react-app package globally on your machine if you prefer not to write npx each time you start a new project.

```
npm install -g create-react-app
```

Once create-react-app is installed, you create a React application as follows:

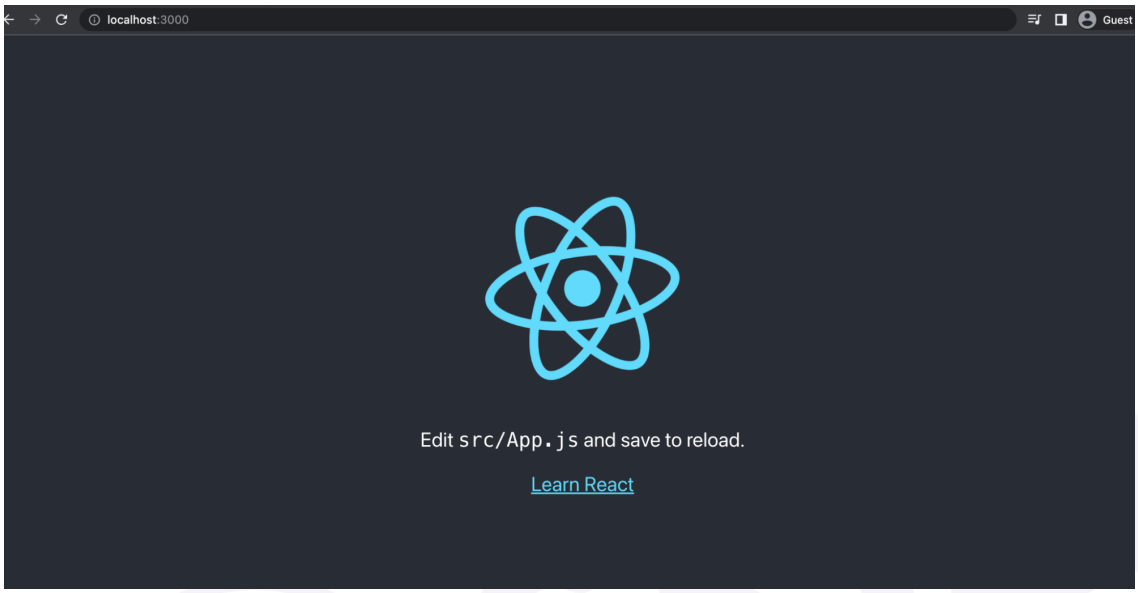
```
create-react-app name-of-project
```

```
cd myapp/
```

Then start your project by using following commands:

```
npm start
```

Now, localhost 3000 should host your React application. You can edit the content by adding text to the App.js file, and the browser will display the most recent changes. Press Ctrl + C in the CLI to terminate the server.



What is create-react-app?
When We run the command create-react-app <project-name>, it creates a new directory with the given project name and generates a basic file structure for a React.js application. The generated file structure includes the following:

There are three folders in the following React boilerplate: node modules, public, and src. README.md, package.json,.gitignore, and yarn.lock are additional files. Some of you might have package-lock.json instead of yarn.lock.

- node_modules:Here We get all the necessary node packages of our application.
- **Public**
- **index.html:Only one HTML** file is there in the whole application.
- **Manifest.json:** It is applied to transform the application into a progressive web app.
- **favicon.ico:** It is an icon in the tab.
- **src**
- App.css, index.css - These are different CSS files.
- index.js - A file which allows to connect all the components with index.html
- App.js - A file where we usually import most of the presentational components
- serviceWorker.js: is used to add progressive web app features
- setupTests.js - to write testing cases

- **package.json**- It shows the list of packages the applications uses.
- **.gitignore** - React boilerplate comes with git initiated, and the .gitignore allows files and folders to be ignored when committing new changes.
- **README.md** - Markdown file to write documentation
- **yarn.lock or package-lock.json** - It means to lock the versions of the packages we have installed.