**Setup Environment for Building React Application**

* You need a **Package Manager**
  + Package Manager is a software tool used by web developers to download and install various libraries required for project.
    - NPM [Node Package Manager]
    - Yarn
    - NuGet
    - Bower etc..
  + **Download and install “NPM”**
  + **You can get NPM from “Node.js”**<https://nodejs.org/en/download/>
  + **Check Version from Command Prompt  
    C:\>** node -v  
    **C:\>** npm -v
* You need an Editor
  + Download and install “**Visual Studio Code**” editor  
    <https://code.visualstudio.com/>
  + Install the following extensions in Visual Studio Code
    - Live Server
    - Vscode-icons [optional]

**Using React in an Existing Web Application**

* Open your PC locations
* Create a new folder for project “**C:\WebApp”**
* Open “WebApp” folder in “Visual Studio Code”
* Open Terminal in VS-Code
* Run the command  
  **> npm init -y**
* This will generate “package.json”
* Add a new folder by name **“public”**
* Add following file into “public” folder
  + Index.html
  + Home.html

**Index.html**

<!DOCTYPE html>

<html>

<head>

<title>Index</title>

</head>

<body>

<h2>Welcome to React JS</h2>

<p>This is an ordinary HTML page [without any React]</p>

<p>React is interated into Home Page - Click Below</p>

<a href="home.html">Home</a>

</body>

</html>

* **To Integrate React environment into a HTML page you need following libraries**
  + React **It is React Core Library**
  + React DOM **It is used for Virtual DOM manipulations**
  + Babel Standalone **It is a compiler used to compile react code written in “JSX”**
* You can use **CDN** [Content Distribution Network] for Libraries or you can download using NPM
* Get the CDN of all 3 libraries and Add to your Home Page.

**Home.html**

<!DOCTYPE html>

<html>

<head>

<title>React Page</title>

<link rel="stylesheet" href="../node\_modules/bootstrap/dist/css/bootstrap.css">

<link rel="stylesheet" href="../node\_modules/bootstrap-icons/font/bootstrap-icons.css">

<script crossorigin src="https://unpkg.com/react@17/umd/react.development.js"></script>

<script crossorigin src="https://unpkg.com/react-dom@17/umd/react-dom.development.js"></script>

<script src="https://unpkg.com/@babel/standalone/babel.min.js"></script>

**<script type="text/babel">**

**ReactDOM.render(**

**"React JS - Shopping Store",**

**document.getElementById("container")**

**)**

**</script>**

</head>

<body class="container-fluid">

<h2 class="bg-primary text-white text-center p-2">

<span class="bi bi-cart4"></span> Amazon Shopping

</h2>

<div id="container"></div>

</body>

</html>