

# Full Stack Application Development with Cloud Computing

## Module 2 – Front-End Development Tools, Technologies and Frameworks

### Lab - 1

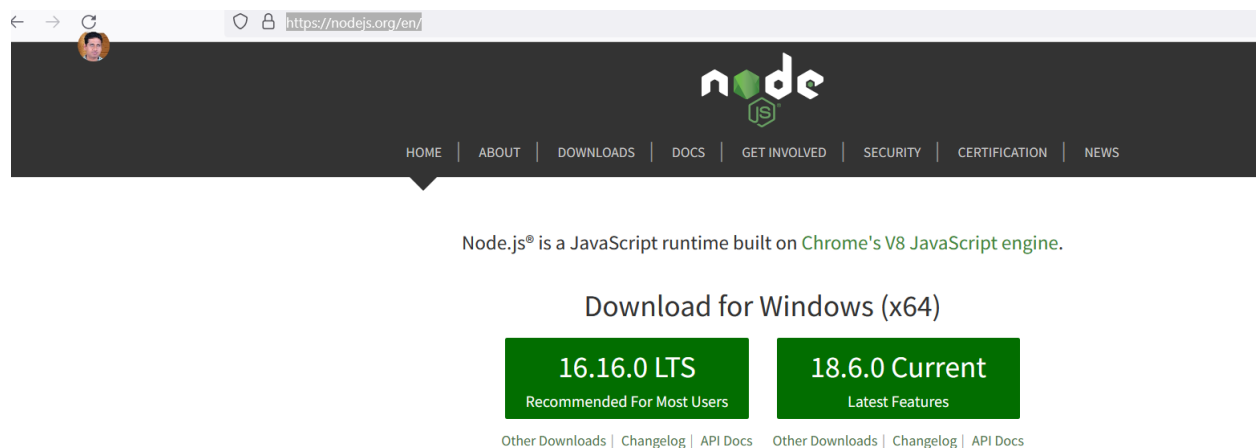
## Unit 5 – Building Responsive Web Applications

### Topic – Web Applications

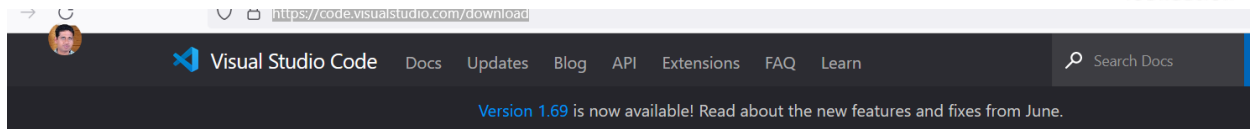
**Ex. 1: To create simple webpage to display a message**

Set up the environment for react app development

**Step1:** install nodejs from <https://nodejs.org/en/>

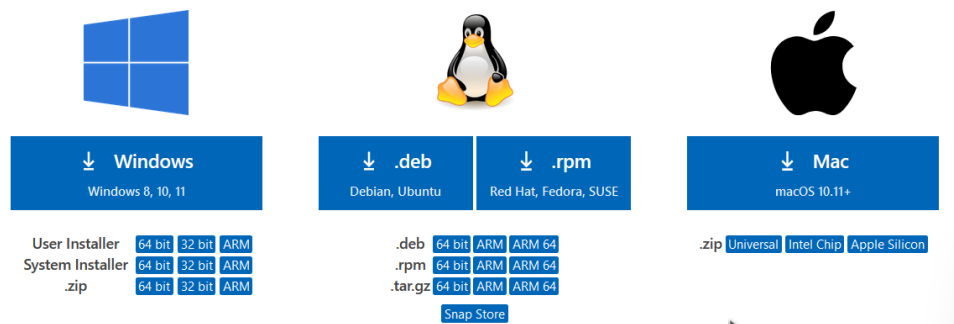


**Step 2:** Install VSCode or any other editor (<https://code.visualstudio.com/download>)



## Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.



**Step 3:** Create a new folder

**Step 4:** open command prompt and execute following command

`npx create-react-app my-app`

```
PS C:\Users\princ\OneDrive\Desktop\Sample> npx create-react-app my-app
Need to install the following packages:
  create-react-app
Ok to proceed? (y) y
npm WARN deprecated tar@2.2.2: This version of tar is no longer supported, and will not receive security updates. Please
upgrade asap.

Creating a new React app in C:\Users\princ\OneDrive\Desktop\Sample\my-app.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

[Progress Bar] / idealTree:find-up: sill placeDep ROOT path-exists@4.0.0 OK for: find-up@5.0.0 want: ^4.0.0
```

Then change the current directory using the following command

**cd my-app**

To open the code in VScode use the following command:

**code .**

Include the following code in **App.js**

```
import './App.css';
```

```
function App() {  
  return (  
    <div className="App">  
      <header className="App-header">  
        <h1>Welcome to My Simple Web Page</h1>  
      </header>  
      <div className="App-container">  
        <h2>About Me</h2>  
        <p>This is a simple web page created using React.</p>  
        <p>I'm excited to learn more about web development!</p>  
      </div>  
      <footer className="App-footer">  
        <p>&copy; {new Date().getFullYear()} My Simple Web Page</p>  
      </footer>  
    </div>  
  );  
}  
  
export default App;
```

Include the following code in **App.css**

```
.App {  
  text-align: center;  
}  
  
.App-header {  
  background-color: #333;  
  color: white;  
  padding: 1rem;  
}  
  
.App-container {  
  max-width: 800px;  
  margin: 0 auto;  
  padding: 2rem;  
  background-color: white;  
  box-shadow: 0px 0px 5px rgba(0, 0, 0, 0.2);  
  border-radius: 5px;  
}  
  
.App-footer {  
  text-align: center;
```

```
padding: 1rem;  
}
```

Then enter the following command in the command prompt to view the website

**npm start**

## OUTPUT



## Practice Question

**Ex. 2: To create a simple webpage to display the details of a session on React**