



**CHANDIGARH  
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## UNIVERSITY INSTITUTE OF COMPUTING UNIT-1

Master of Computer Applications



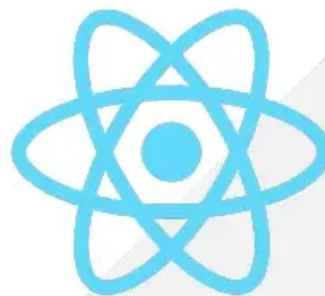
**INTRODUCTION TO BASICS OF HTML**

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## Topics Covered

- What is react and myths
- ReactJS environment setup
- JSX in depth
- Function and Class components
- Practice Questions

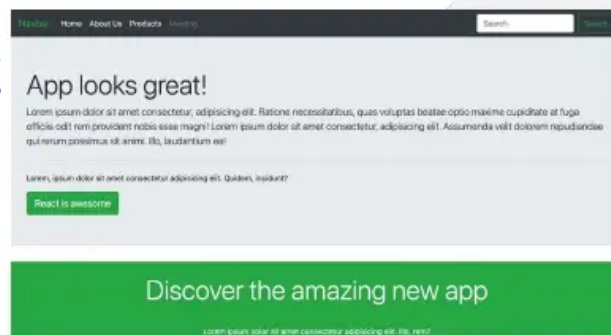




## App Introduction

We will be creating the following application(s):

- We will create our project first by using HTML only which includes different sections like NavBar, App section, Text section, Card section and Footer
- Then we will convert the same project into the React using the different components -
  - AppSection
  - HeroSection
  - Card
  - CardSection
  - Footer
  - NavBar



## What is React

In traditional web application programming, for even a small change in the webpage, the whole page is reloaded. This makes the web pages slower than they should be.

How ReactJS solves this problem -  
React only updates what's necessary

What is React?

- React or ReactJS is a JavaScript library.
- React is not a framework. (unlike Angular, the difference b/w framework and library can be explained here).
- React is an open-source project created by Facebook.
- React is used to build user interfaces (UI) on the front end.

# React Myths

- React is a framework - This is the common misconception; react is not a fully-fledged framework, but it's just a library
- React is complicated to set up - Noooo! Earlier, it used to be complicated, but now we have a single command create-react-app which can be used for the setup.

## Why is React so popular?

1. React is easy to maintain because react components can be reused
2. React is Fast and Dynamic; we don't need to refresh the entire page to update the specific section as it can be extracted to the separate component
3. React can be used for both Desktop web and mobile app

# ReactJS environment setup

1. Use an online code playground. Try [CodeSandbox](#).

- how to use it - Navigate to the link; this will create the React project from scratch. In the center window, start making the changes in App.js. The changes will immediately reflect in the right window.

2. "Create React App" via npm.

Step1 - Go to nodejs Download page - <https://nodejs.org/en/download/> and download the LTS version for your operating system

Step2 - Install the downloaded file, this will install the node and npm in the system

# ReactJS environment setup

Step3 - Open the command prompt and check node -v, and npm -v to check if packages are downloaded correctly

Step4 - run the command `npm install -g create-react-app`, this will install the create-react-app command used for creating the react projects

Step5 - navigate to the folder where you want to create the react project and use the command `create-react-app relevel`

Step6 - navigate to the relevel project you created and use the command - `npm start`

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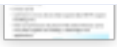
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