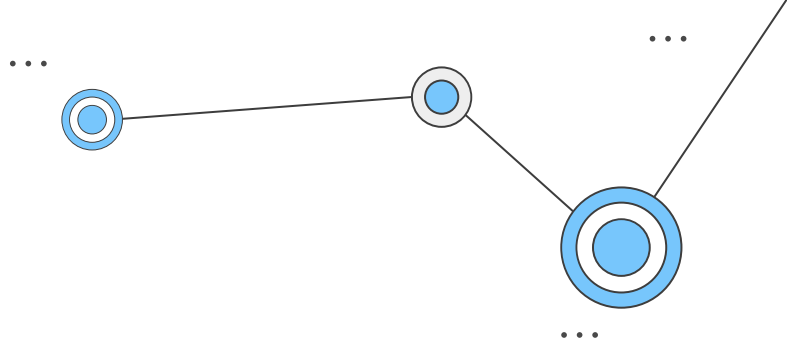




React



Let's React

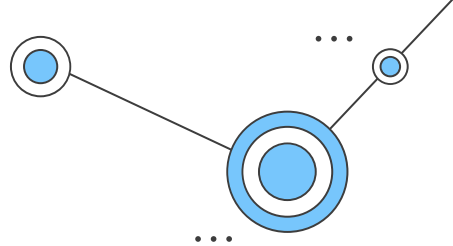
Developing Websites with
React.JS

Salika Dave & Shweta Nadar
Date: 11th - 13th June, 2021





What's the plan for the next 3 days?



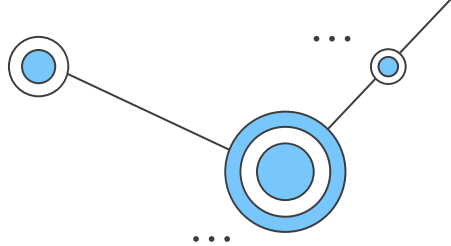
This webinar will introduce you to:

1. Git github basics
2. JS ES6 features
3. React fundamentals (props, state, hooks)
4. Build a [YouTube clone](#) with React + Material UI framework
5. Work with YouTube Data v3 API
6. Deploy the react app to production using netlify





What this isn't about



- Cloning the entire YouTube system (we're giving you assignments ;))
- Understanding HTML5 or CSS3. NO! We won't be learning CSS, but we'll explain to you whatever's coming our way
- Making beautiful UIs. NO! We are learning about a library that helps us make a UI beautiful + efficient
- Redux won't be covered. Explore that after the workshop!
- Teaching you all of Material UI. We're just introducing you to the framework





Workshop Plan



01

Git & GitHub Basics

Day 1: Make your first PR understand Open Source Workflow

02

Javascript Basics

Day1: Language syntax, classes, higher order functions, HTTP requests

03

React.JS Fundamentals

Day 2: YouTube Clone Code Along

04

Next Steps

Day 3: Deploying the app, discussion & doubt solving



About Us

BE Computer - Graduating this year!

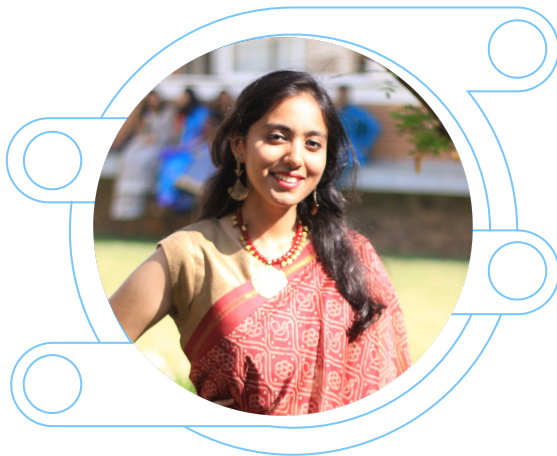
Won 2nd Prize for project presented in IIC's Idea Competition 2019 at Institute Level;
Participated in Mastek's Deep Blue Season 5

Been actively part of Software Development Cell (SDC) and a technical volunteer in committees like CSI & IETE;

Previously done internships in web & android development

Key Interests include UI/UX, Full stack Web Dev, NLP

Worked with Javascript, HTML/CSS, Python, C



Instructor

Salika Dave

GitHub & LinkedIn: @salikadave

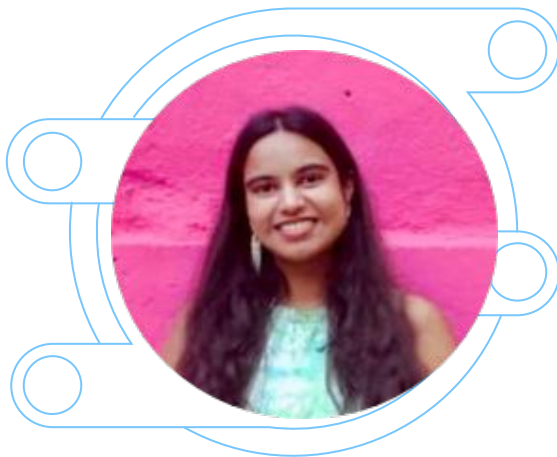
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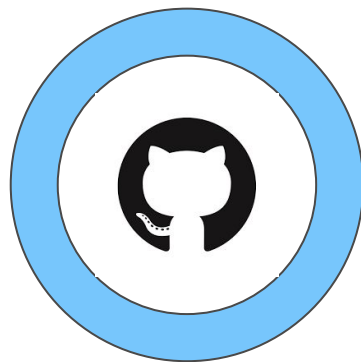
Worked with Javascript, HTML/CSS, Python, C



Instructor

Shweta Nadar

GitHub & LinkedIn: @ShwetaNadar



Workshop Materials

We'll be collaborating on this GitHub repository

Prerequisite Installations

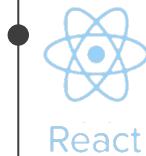
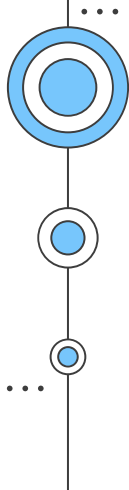
Capstone Project Ideas

For doubts, use the discussions section

<https://github.com/salikada99/react-workshop-start-here>

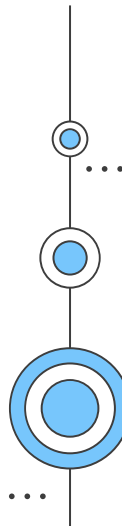


React



01

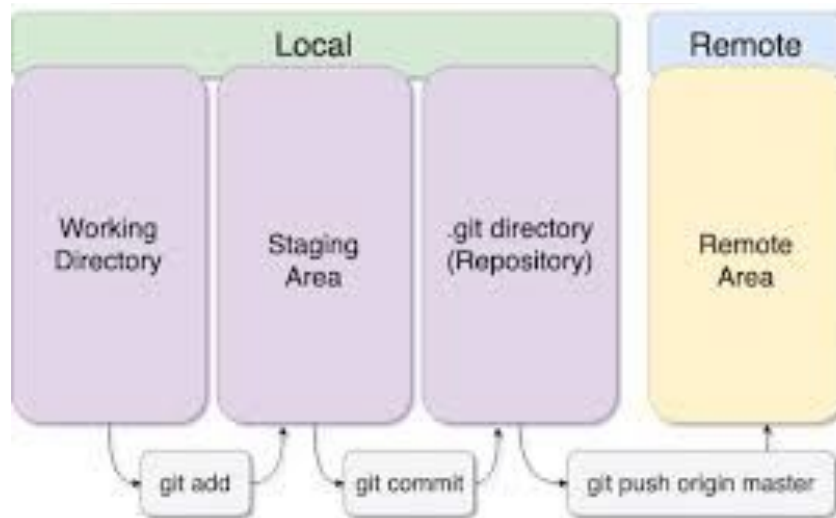
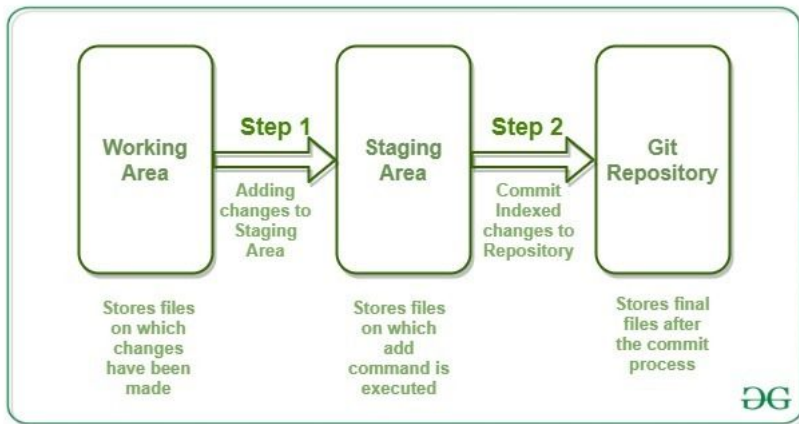
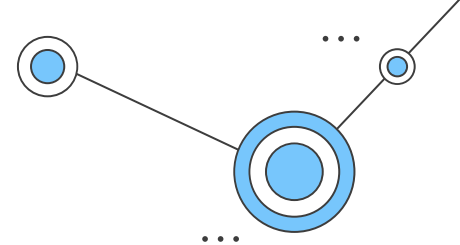
Git & GitHub Basics





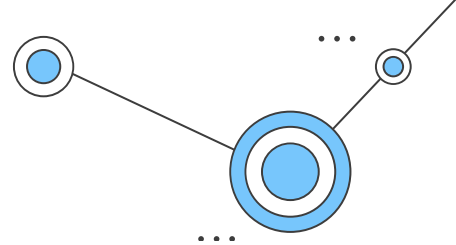
React

Git & GitHub Basics

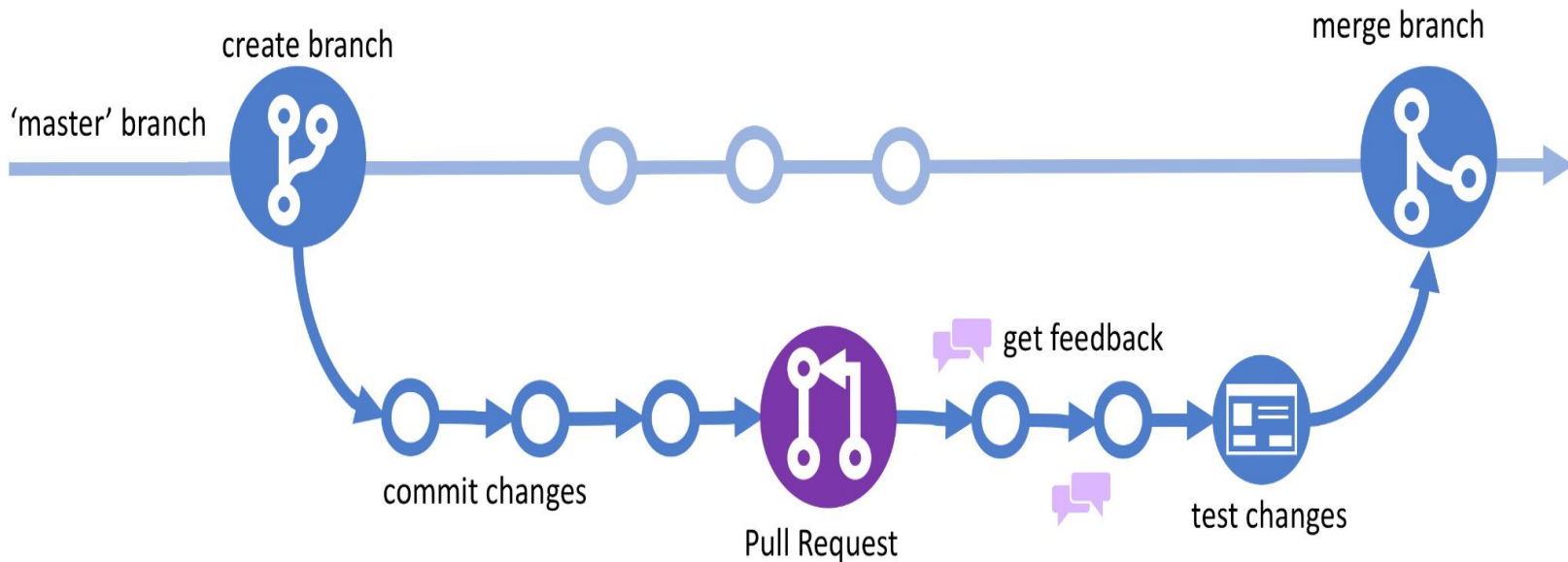


Git Basic workflow Cycle

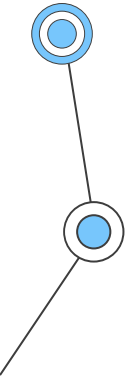
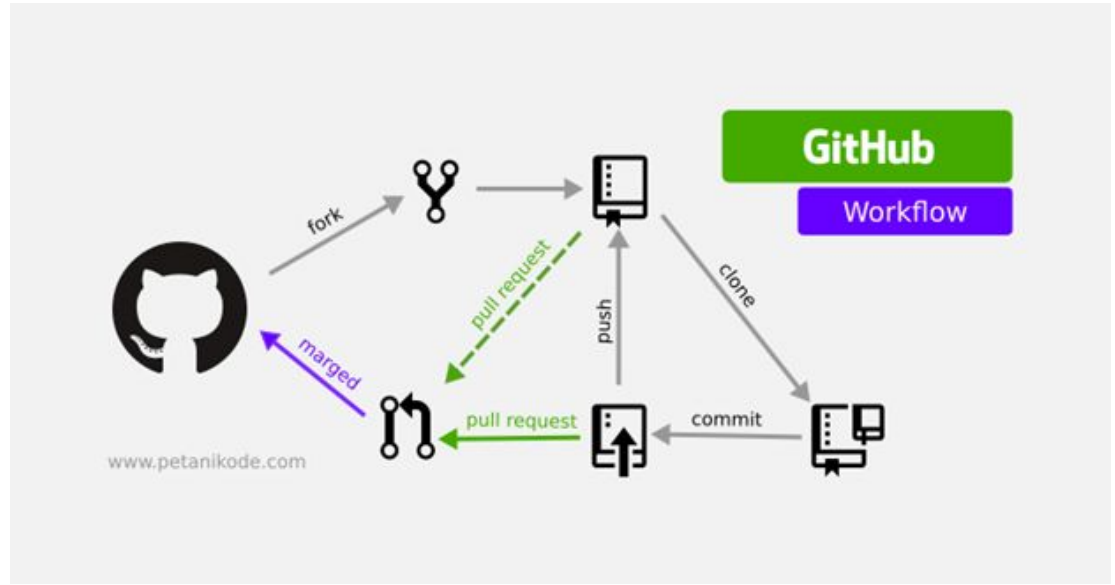
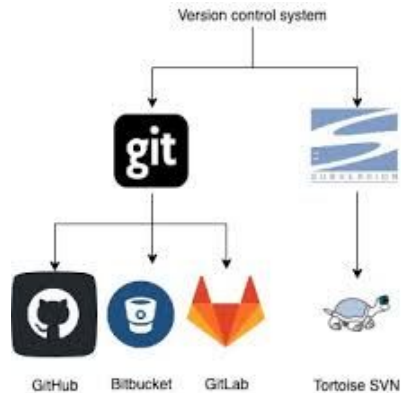
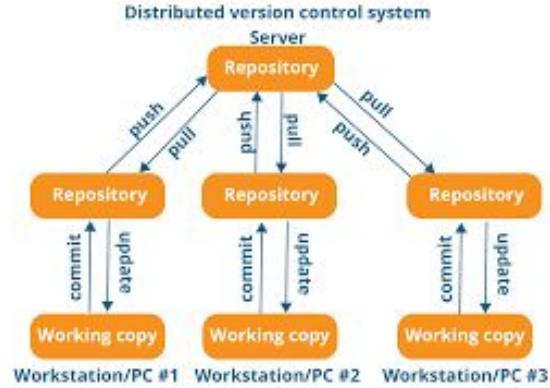
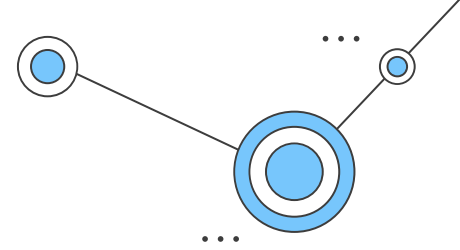
Git & GitHub Basics



GitHub Flow



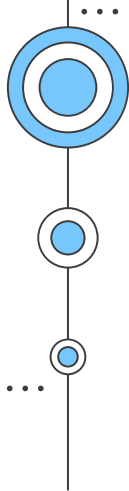
Git & GitHub Basics





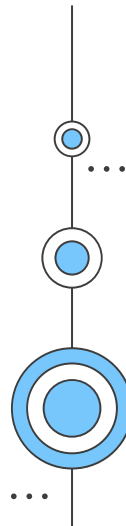
React

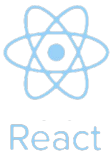
Time to Practice



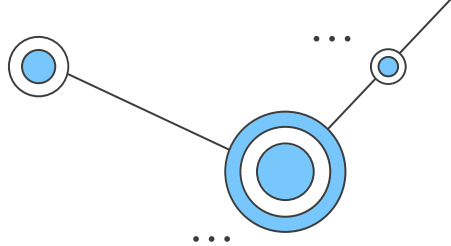
02

Javascript Basics

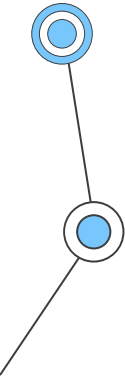




JS and ES6



1. JS is lightweight, interpreted, loosely typed programming language
2. JS mainly used as scripting language for web pages
3. ECMAScript 6 (ES6) is the new version of JavaScript
4. ES6 fixed some JS issues and added more functionality
5. ES6 helped ECMA make the shared JS libraries used by web applications easier to write





React

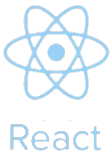
Let's see examples

03

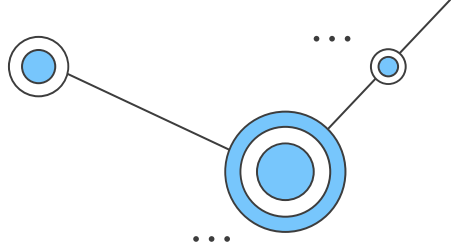
React.JS



React



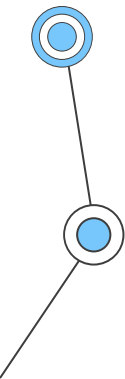
What is React



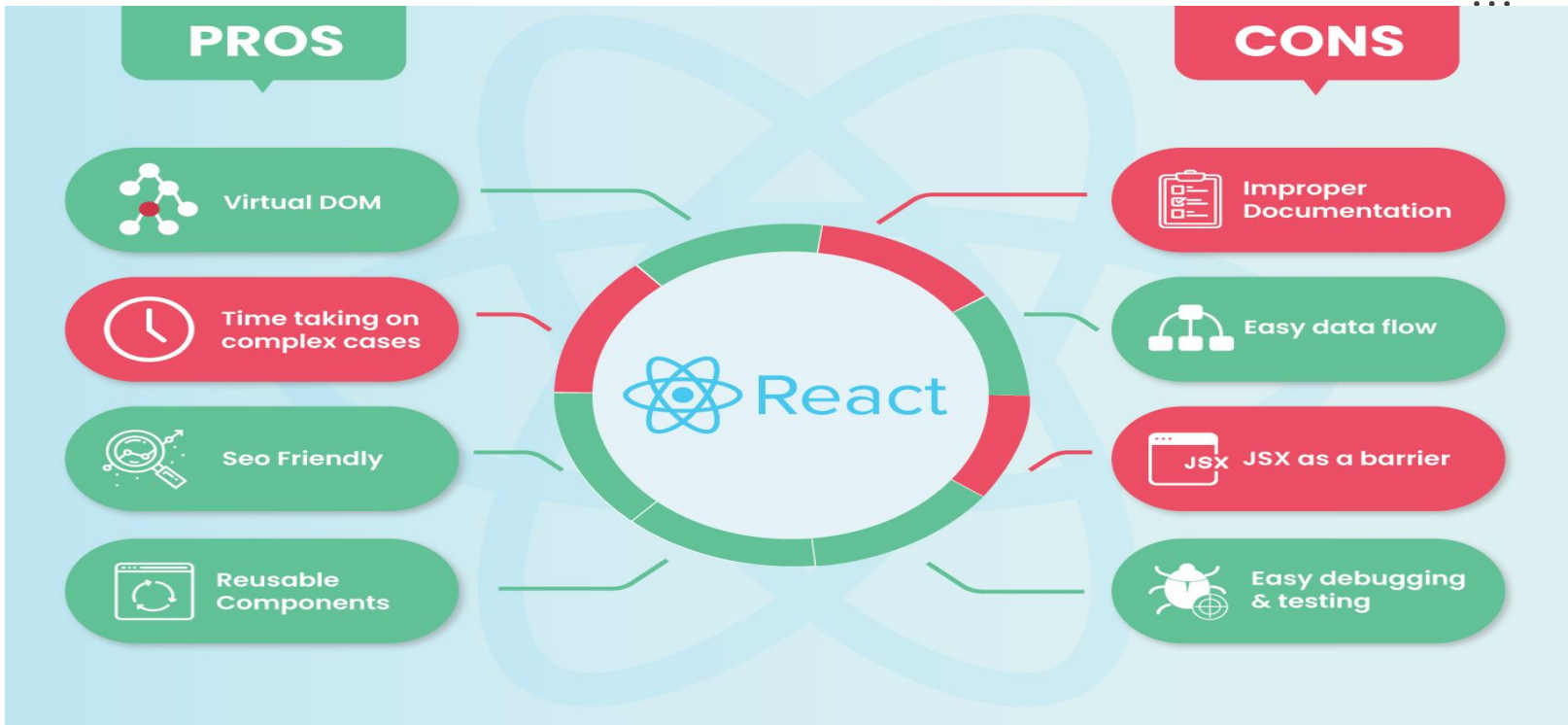
1. A client-side JavaScript library
2. All about building modern, reactive user interface for web
3. Declarative, component focused approach

Project

Build a [YouTube clone](#) with React + Material UI framework



Why React?





Alternatives to React



Angular

Complete component-based UI framework, packed with features. Uses TypeScript. Can be overkill for smaller projects



Vue

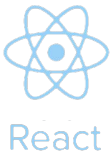
Complete component-based UI framework, includes most core features. A bit less popular than React and Angular

How would you React, if I told you I love Vue? 🤖
-- Codepen.io

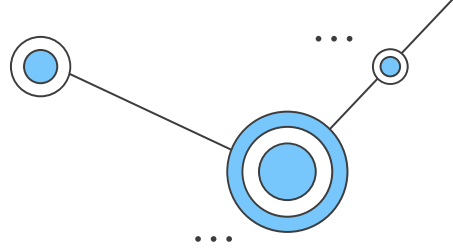


React

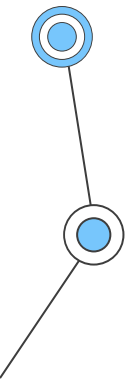
Let's begin coding



React Terminology

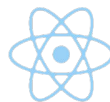


- Components
- JSX
- Props
- State
- Hooks

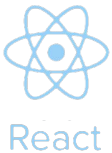


04

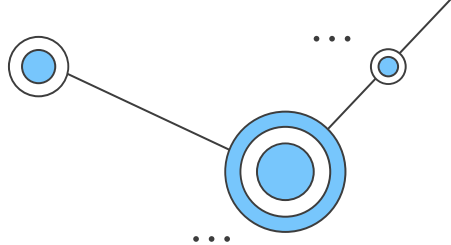
Next Steps



React



Your Immediate To Do

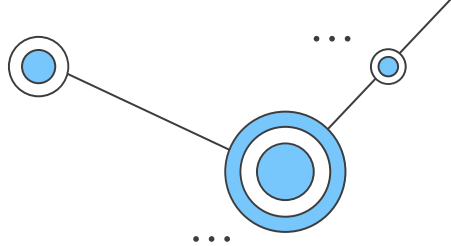


- Practice examples of the topics covered in Javascript. The repo should help you with some more resources.
- Complete Assignments from the YouTube Clone. Not because you love React, but reinforce the fundamental way of working with React
- Start working on the final / capstone project that you will be showing us by the end of this month / internship.
- Make notes about the concepts you learned throughout this workshop and the upcoming ones.
- Leave us a feedback on LinkedIn / GitHub Discussions!
- Make sure you're watching the Workshop material repository from time to time. We shall stay in touch there!



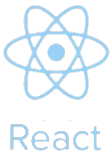


Stuff you can try

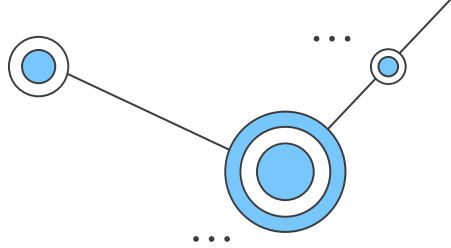


- [Gatsby](#) - Framework to generate React Websites
- [Deploy your app to Netlify](#)
- [Next.JS](#) - Library for Optimizing React in production
- [Jest](#) - Library for writing tests in React.JS
- Build another project in Material UI or try another framework → [MaterializeCSS](#)
- Try building charts with React.js → Libraries available Charts.js, D3.js, vix.js





Where do we go from here?



- Start with taking certification courses for skills you want to develop [to showcase on your resume]
- BUILD, BUILD & BUILD Projects! [+ showcase them on github]
- Make Open Source Contributions [Pss.. don't miss out on Hacktoberfest!]
- Participate in hackathons [especially online ones]. Devpost
- Get into the habit of networking with fellow students, seniors & juniors and most importantly your professors
- Follow Developer Surveys [Stack Overflow, HackerEarth, etc..]





React

Thanks!

Do you have any questions?

Feel free to reach us

salika.dave@somaiya.edu

shweta.nadar@somaiya.edu

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