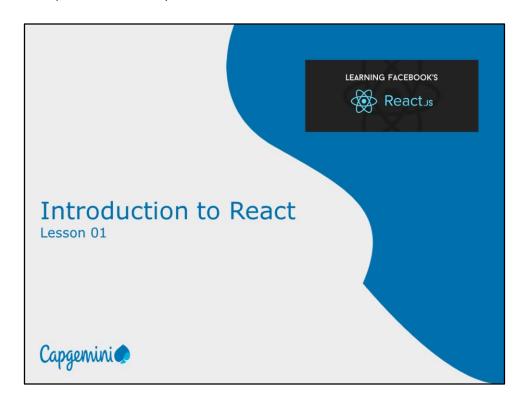
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Overview of frameworks, libraries for client side Web applications



As demand increased for processing the page elements and cross browser compatibility, JavaScript frameworks evolved & eased out the process and provide a standard set of methods, functions, and controls.

Some of the popular JavaScript frameworks included Prototype, YUI, ExtJS, MooTools, and jQuery.

These frameworks allow developers to create shortcuts to working with elements in the Document Object Model (DOM).

Some of the more popular frameworks today include AngularJS, EmberJS, ReactJS, Vue Js, Flutter and BackboneJS.

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Model:

Model is where the application's data objects are stored. The model doesn't know anything about views and controllers. When a model changes, typically it will notify its observers that a change has occurred.

View

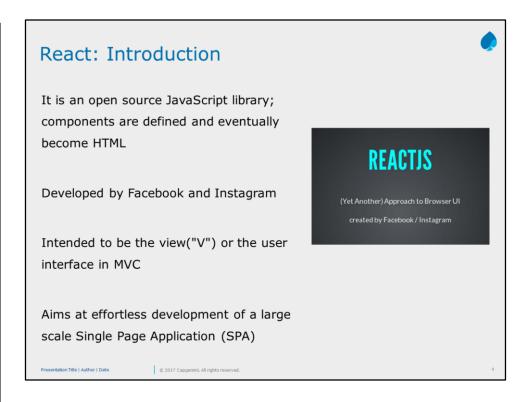
View is what's presented to the users and how users interact with the app. The view is made with HTML, CSS, JavaScript and often templates

Controller

The controller is the decision maker and the glue between the model and view. The controller updates the view when the model changes. It also adds event listeners to the view and updates the model when the user manipulates the view.

JavaScript now has a number of frameworks boasting support for MVC (or variations on it, which we refer to as the MV* family), allowing developers to easily add structure to their applications without great effort.

These frameworks include the likes of Backbone, Ember.js, and AngularJS.



Slide explains regarding the SOAP format

Understanding "What" and "Why" React

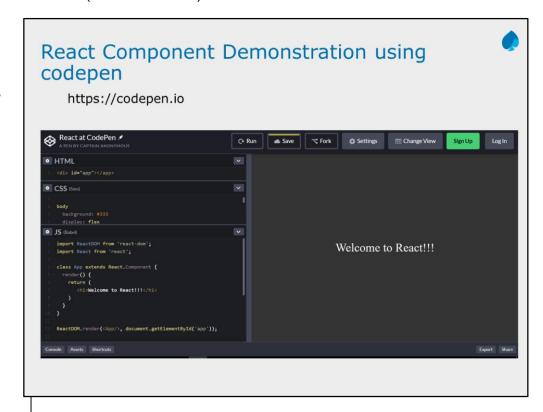


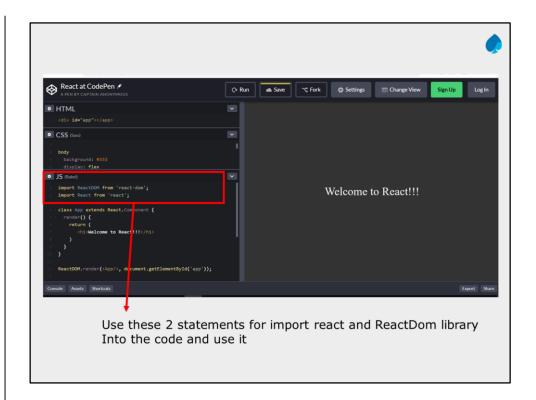
- React code is easy to understand for developers, designers, and anyone with the knowledge of XML or HTML
- It uses JSX which is clean and easy to understand syntax which can be used directly in our JavaScript
- Easy to test
- Renders quick views
- Enforces good coding practices
- Supported and used by Facebook

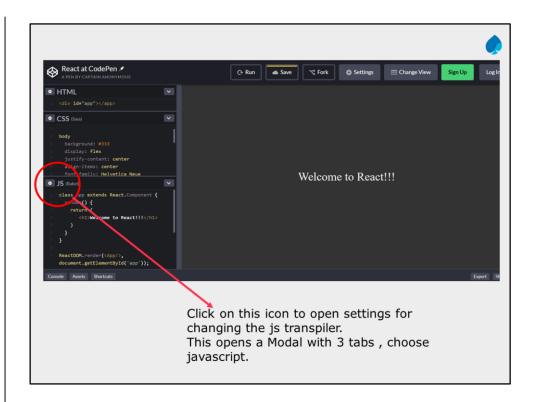
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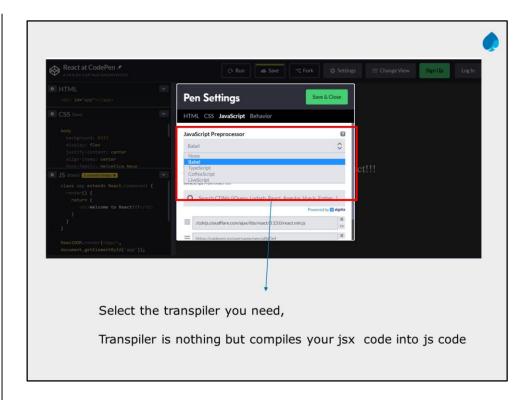
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Understanding NPM commands



NPM is the package manager for JavaScript and the world's largest software registry

To test that you have Node.js and npm correctly installed on your machine, you can type node --version and npm --version in a terminal or command prompt.

You'll need to have Node >= 6 on your machine.

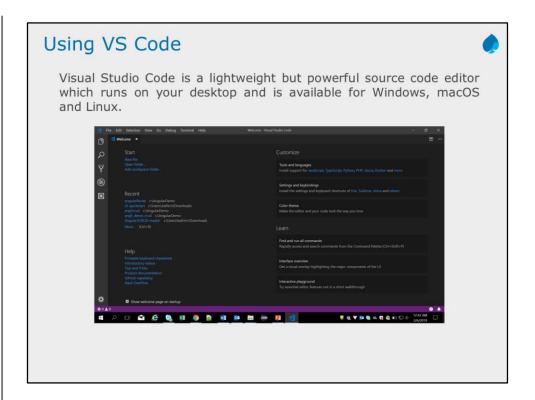
Frequently used commands in react will be in next slide



We use -g for using create-react-app gloabally

- You'll need to have Node >= 6 on your machine.
- Create-React-App: creates a frontend build pipeline, so you can use it with any backend you want.
- Once created check for Package.json file inside application folder and move to the folder to start server

We can also create application using webpack and babel – use another support ppt

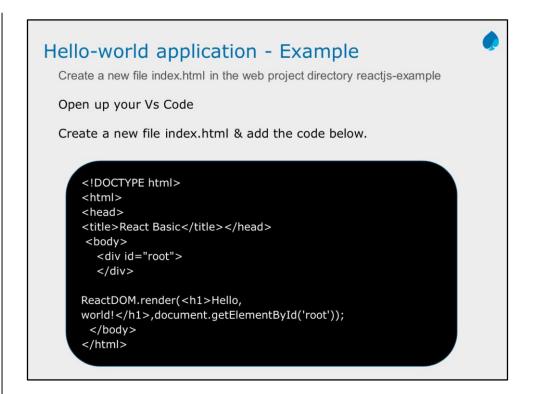


It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages (such as C++, C#, Java, Python, PHP, Go) and runtimes (such as .NET and Unity).

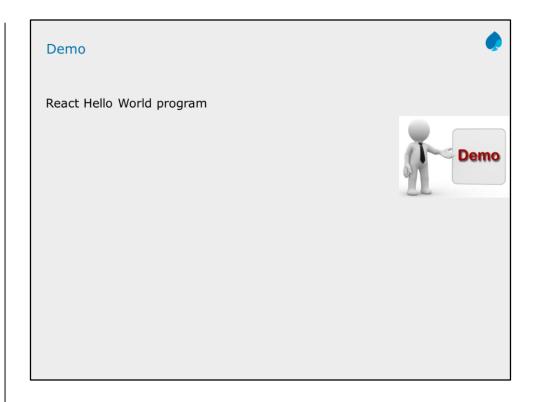
VS Code extensions for ES6, React

Below listed are the extension available for ES6 and react

- 1. Prettier
- 2. ES Lint
- 3. Auto Close Tag
- 4. Auto Import ES6,TS,JSX,TSX
- 5. npm intellisense
- 6. Git History
- 7. Git Lens



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Overview of frameworks, libraries for client side Web applications React introduction, Understanding "what" and "why" React React Component Demonstration using codepen Environment Setup for React Application Understanding NPM commands Using VS Code VS Code extensions for ES6, React Helloworld app in React

Add the notes here.

Review Questions

- Question 1:
- How to install create react app globally?
 - · A) install create-react-app
 - · B) npm install create-react-app
- C) npm install -g install create-react-app
- · D) npm gloabal install create-react-app
- Question 2:
- Which Command creates a frontend build pipeline, so you can use it with any backend you want.
 - · A) React-App
 - · B) create-react-app
 - C) create-app
 - D) React-app

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