

ReactJS Workshop Materials

Slides: <https://docs.google.com/presentation/d/1jwhoJ711gP4XgYCifDSe-ZETYHSRdcpuNhvP2vJAZzw/edit?usp=sharing>

Recording: <https://youtu.be/p-gu0PQ5kd0>

No.	Sandbox Link	Contents / Changes	Learning Objectives
0	https://codesandbox.io/s/orbital-react-0-skeletonexercise-68ypv?file=/src/App.js	Basic incomplete skeleton (to start session with)	-
1	https://codesandbox.io/s/orbital-react-1-skeleton-9hq5o?file=/src/App.js	Basic HTML-in-JS with JSX	Recap HTML, understand JSX, introduce React conventions (camelCase html attributes, etc.)
2	https://codesandbox.io/s/orbital-react-2-setname-wy2uo?file=/src/App.js	Set name in Overview	Introduce React states, event handlers, accessibility HTML role labels
3	https://codesandbox.io/s/orbital-react-3-refactorcomponents-zq4x3?file=/src/App.js	Refactor long code into smaller components	Introduce component tree - abstracting code into smaller components, code organisation
4	https://codesandbox.io/s/orbital-react-4-addtasks-5lp9t?file=/src/components/TaskManager.js	Able to add tasks	Introduce spread operator, preventing browser default behaviour
5	https://codesandbox.io/s/orbital-react-5-displayaddedtasks-i6onz?file=/src/components/TaskManager.js	Able to display tasks from state	Introduce mapping datatypes to DOM elements
6	https://codesandbox.io/s/orbital-react-6-shownotaskmessage-ycl86?file=/src/components/TaskManager.js	Show a “No task” message when there are no tasks	Introduce prop passing, conditional rendering with ternary expressions

7	https://codesandbox.io/s/orbital-react-7-toggletaskcompletion-ms0h2?file=/src/components/TaskManager.js	Add ability to toggle task completion	Introduce destructuring, passing of functions, immutability
8	https://codesandbox.io/s/orbital-react-8-shownumberofundonetasks-e2jcs?file=/src/App.js	Show number of undone tasks in Overview	Introduce lifting state into parent component
9	https://codesandbox.io/s/orbital-react-9-fetchcatfact-my17h?file=/src/components/Header.js	Make an API call to https://catfact.ninja/fact and display it in “Cat Fact of the Day”	Introduce integration with native JS features (fetch), making API calls, asynchronous programming with promises
10	https://codesandbox.io/s/orbital-react-10-persistname-mm67x?file=/src/components/Header.js	Persist saved name to localStorage	Introduce native browser APIs, and saving data
11	https://codesandbox.io/s/orbital-react-11-persisttasks-1eddq?file=/src/App.js	Persist saved task list to localStorage	Introduce stringifying objects into JSON string
12		Deploy to vercel	Introduce continuous delivery (CD) with vercel

Recommended Reading List

- Learn HTML in Y minutes: <https://learnxinyminutes.com/docs/html/>
- Learn JavaScript in Y minutes: <https://learnxinyminutes.com/docs/javascript/>
- JavaScript, the React parts: <https://reacttraining.com/blog/javascript-the-react-parts/>
- Official React Tutorial: <https://reactjs.org/tutorial/tutorial.html>
- Everything in “Main Concepts”: <https://reactjs.org/docs/hello-world.html>
- React Hooks: <https://reactjs.org/docs/hooks-intro.html>

Recommended React Toolchain

- ESLint: <https://eslint.org/>
 - This is called a “linter”, a static code analysis tool that flags problems

- Prettier: <https://prettier.io/>
 - This is a code formatter, try to set it to format-on-save on VSCode

For Exploration

- Redux: <https://redux.js.org/introduction/getting-started>
 - State management using a centralised store
- TypeScript: <https://www.typescriptlang.org/>
 - JavaScript, but with types