

Lab 5: Now in React

In this lab, you will begin developing the front end of your chosen exam topic web application using React¹. The design should adhere to the specifications outlined in your topic specifications.

As part of this process, you will restructure the page you developed during lab 4 to leverage React's component-based approach. This involves breaking down the application into distinct components and identifying the necessary state and props for storing and displaying items.

1. Create and configure the React application

First, create a new React app using Vite. Then, use the React-enabled version of Bootstrap and its components to structure the front end of your web application using what you developed during lab 4 as a model. You can find the documentation at <https://react-bootstrap.github.io/>.

Organize the page using React functional components stored in different files. Your application, for example, might have distinct components to manage the navigation bar and the list of items.

Finally, add a suitable set of props and states to each component. States and props for visualizing items must be initialized using a proper JS data structure. To display the collection of items needed by your topic, decide which components hold the states and how information propagates using props.

Notes:

1. For this exercise, don't make the page interactive yet. Your focus is on designing and implementing the main components needed to display the layout from the previous lab.
2. For handling dates and times, you can continue to exploit [Day.js](#).
3. You can find useful icons on the Bootstrap Icons site: <https://icons.getbootstrap.com>

¹ <https://react.dev/>