IDG2100 Full-Stack Web Development

Front-End: React Practice

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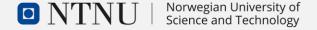
Tasks for Today

- create a React front-end for the library API you worked on earlier

Task 1: 15min max

- sketch out the UI; have at least
  - a table with a list of records, one record per book
  - a header for the table, with names of columns
  - a footer for the table, with controls for pagination
  - a header and footer for the entire page
  - a login area in the header
  - a theme switcher element in the header (light/dark theme for the app)
- decide what parts of the UI are to be what components

Task 2: 20min

- create a React app
  - set-up a VS Code project
  - use Vite to scaffold a React app
  - remove unnecessary code
  - create folders, one per future component
  - add empty jsx and css files in the folders
  - add empty components in the jsx files (just js functions returning jsx)
  - import nested components in parent components
  - import css files/modules in their corresponding components

Task 3: 1h

- create a static version of the app
  - have the component functions return static jsx
  - no loading data, no event handling, just enough to render the UI
  - add CSS and classNames as needed

Task 4: 1.5h

- make the app render dynamically
  - render the list of books from data (no loading yet, store it in JSON file and import it)
  - keep the list of shown books in a state variable; extract the username and login status in a state variable
  - decide which component would hold what piece of state
  - pass data as props from parent to child components