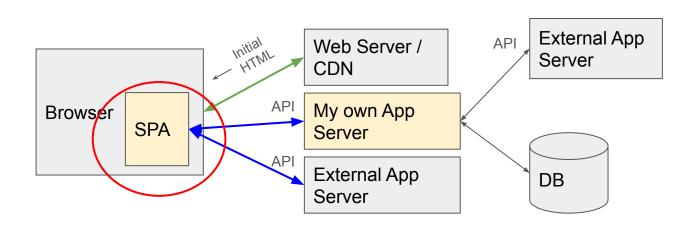
TIA - fronted

Routing, Browser's storage, Bootstrap, Example app

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Client side / Frontend





= my business logic

Example - full frontend React app

https://github.com/jkosticova/not-twitter

Tag: Frontend_React_app

- Created with Vite
- Component tree
- React hooks
- Routing (two pages)
- Bootstrap styles
- Using browser's local storage for data

- No backend yet
- No authentication

```
return (
   <div className="container">
      <Header messages={messages} />
      <BrowserRouter>
        <Routes>
          <Route
              path="/"
              element={<MessageListPage messages={messages} />}
          />
          <Route
              path="/compose"
              element={<NewMessagePage setMessages={setMessages}/>}
          />
        </Routes>
      </BrowserRouter>
    </div>
```

Router in App.jsx (recommended pattern), navigation examples:

- 1. Button navigating to /compose <Link className="btn btn-primary" to="/compose"> + </Link>
- **2. Programmatically navigation to "/":** const navigate = useNavigate(); navigate("/");

Browser's storage

1. LocalStorage

- Limit: ~ 5 to 10 MB
- Scope: Origin (domain+protocol+port)
- Persistent
 - Cleared explicitly by application or user
- Synchronous

SessionStorage

- Limit: ~ 5 to 10 MB
- Scope: Browser window / tab
- Temporary for page session
 - Cleared when the window / tab is closed
- Synchronous

3. Cookies

- Limit: ~ 4 kB pre cookies
- Scope: Domain + path
- Temporary (expiration date or session cookie)
- Sent with every HTTP request to the domain
- Security flags: secure, httpOnly
- 4. IndexedDB
- 5. Cache API

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Boostrap (CSS Framework)

- = a free, open-source CSS framework
 - In your project folder: npm install bootstrap
 - (Restart dev server)
 - main.jsx: import 'bootstrap/dist/css/bootstrap.min.css';

Responsive grid system based on 12 columns

Bootstrap responsive grid in React

container
Fixed-width
horizontally
centered container

container-fluid
Full-width container

- React JSX uses "className" instead of "class" to assign classes to elements ("class" is reserved keyword in JavaScript)
- https://getbootstrap.com/docs/4.0/layout/grid/

Example - Bootstrap in React

<button className="btn btn-primary">Click Me</button>
<div className="mt-3 mb-3">This div has top and bottom
margins</div>

- btn: Bootstrap utility class basic button styling: padding, borders, background, and font size.
- btn-primary: Bootstrap contextual class primary color, used for "main action" button in UI
- mt-3: top margin of size 3
- mb-3: bottom margin of size 3

- Design wireframes and specify user flows
- Create dumb (stateless) components and create the tree structure
- 3. Add hooks to components (state managements, effects)
- Use React router for routing (if necessary)
- Add styles

5.

6. Use mock data (if necessary)