React Part 2
Integrating Frameworks

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Agenda

1. Reactstrap
2. Authentication

1. Reactstrap

- Reactstrap = React + Bootstrap
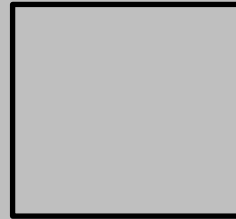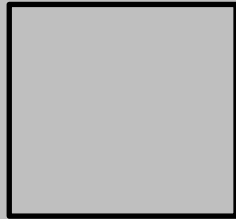- Lets install it:
  https://www.npmjs.com/package/reactstrap

Task

Create a React App ImageGallery with your own backend.

1) Create a React App Image Gallery and include Reactstrap.
2) Download 5 (or more) random images about a topic you like, i.e. sports or cars etc. and save them in a folder „images"
3) Create an Express server with one route GET /images that returns a set of paths to the images in your folder. I.e. „public/images/shark.jpg". Each image should have an ID.
4) Implement a thumbnail view of your images, like the following mockup illustrates. The thumbnail view will be loaded when the user loads „/".
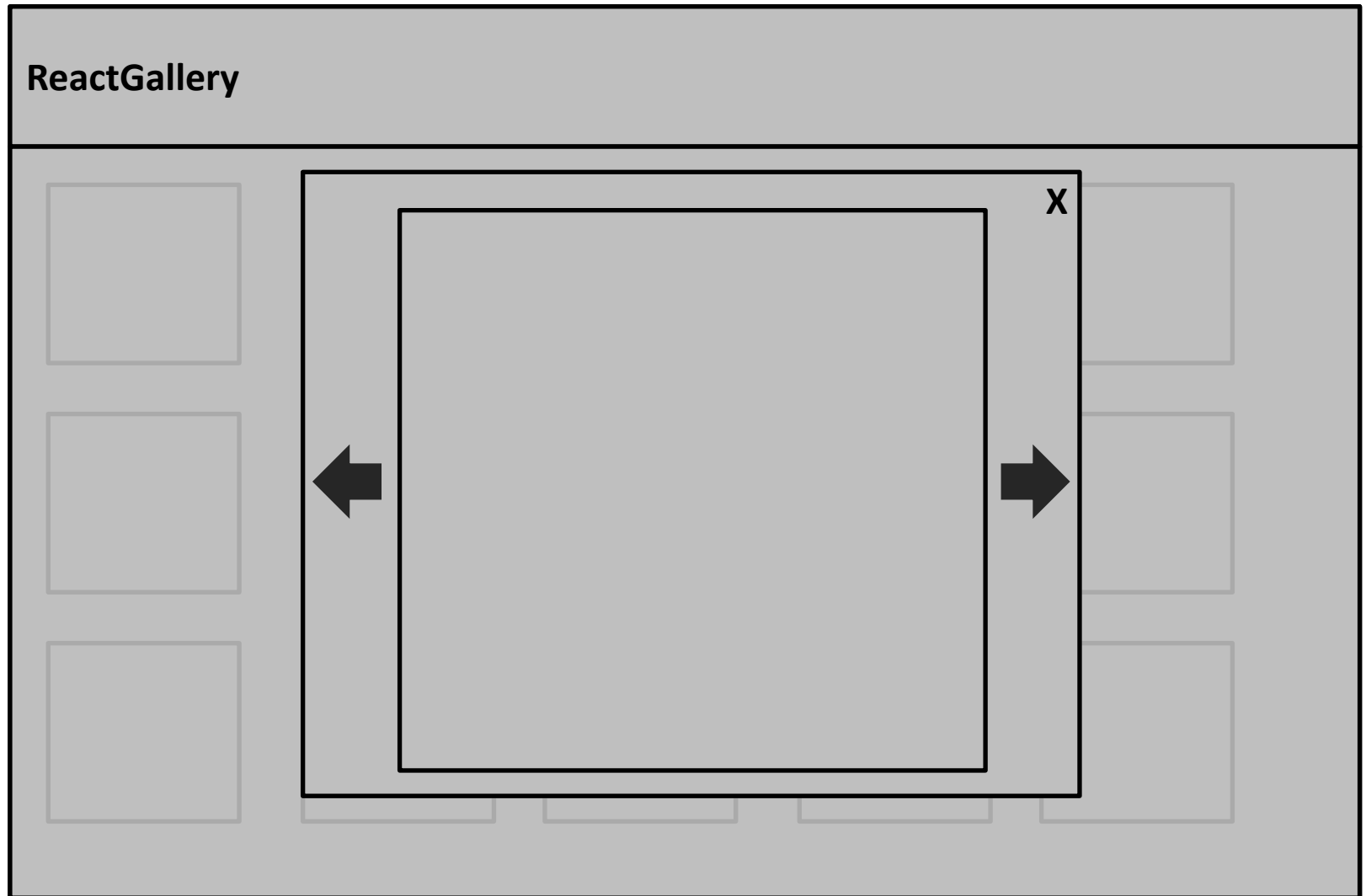
Task

ReactGallery

Task

Create a React App ImageGallery with your own backend.

5) When the user clicks on one image, a Reactstrap carousel starts with that image. The user can still click on the next and previous button or on the „X" to close the Carousel. In the background, the thumbnail view is still visible.

6) When the user opens „/gallery/2", the image with id = 2 will be loaded in the Carousel, still, the thumbnail view is visible in the background.

Task

ReactGallery

2. Authentication

- In React, both ways of authenticating a user can be implemented
  - Session
  - JWT

Task

Create the React App „UserList" in which you
can create, edit and delete users.

1) Create a NodeJS backend with the DB of your choice (Mongo, SQL or JSON flatfiles)
   1) Implement a route /login that checks for the user/password combination on the backend
   2) Decide whether you use Sessions or JWT.
   3) Add the api endpoints POST /user, PUT /user and DELETE /user.

2) Implement the frontend like the following template and add functionality to create, change and delete user. Take a look into Reactstrap Modals.

Task: Startpage

UserList

username

password

login

Task: Logged In

UserList

Add User | Logout

Name | Email | City

Jan | jan@abc.com | Berlin   Delete | Edit
Bob | bob@mail.com | Leipzig   Delete | Edit

Task: Edit User / Add User

UserList

Logout

Name

Name	Email	City
	Name	
	Email	
Jan	jan@abc.com	Berlin
Bob	bob@mail.com	Leipzig
	City	

Delete   Edit

Delete   Edit

Save   Cancel

Task: Logged Out