

Overview

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Course Info

Week 4

Front-End Web Development with React


Week 4

Discuss this week's modules here.

2115 threads · Last post 8 hours ago

Go to forum

More Redux and Client-Server Communication



Jogesh K. Muppala


In this module you will explore Redux further including Redux action, combining reducers, and Redux thunk, client-server communication using Fetch and the REST API. You will get a brief introduction to animation in React. You will also learn about testing, building and deploying React applications.

Less

Learning Objectives

- Create Redux Actions
- Develop Redux actions using Redux Thunk
- Develop client-server communication using Fetch
- Develop Fetch-based communication with a REST API server


Less



Coursera Lab Sandbox


BETA

- Easily launch Coursera's preconfigured environment for React programming
- Get access to all dependencies (libraries and packages) for VSCode—no local software installation required
- Practice React programming, run test cases, and work on assignments from your browser




Open Lab Sandbox

Redux Actions



Reading: Redux Actions: Objectives and Outcomes


10 min



Video: Redux Actions


8 min

Resume




Video: Exercise (Video): Combining Reducers

9 min




Reading: Exercise (Instructions): Combining Reducers

10 min




Video: Exercise (Video): Redux Actions

24 min



Reading: Exercise (Instructions): Redux Actions


10 min



Reading: Redux Actions: Additional Resources


10 min

Redux Thunk




Reading: Redux Thunk: Objectives and Outcomes

10 min




Video: Redux Thunk

10 min



Video: Exercise (Video): Redux Thunk

50 min



Reading: Exercise (Instructions): Redux Thunk

10 min

- ▶ **Video:** Exercise (Video): React-Redux-Form Revisited 12 min
- 📖 **Reading:** Exercise (Instructions): React-Redux-Form Revisited 10 min
- 📖 **Reading:** Redux Thunk: Additional Resources 10 min

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## Client-Server Communication

- 📖 **Reading:** Client-Server Communication: Objectives and Outcomes 10 min
- ▶ **Video:** Networking Essentials 17 min
- ▶ **Video:** Brief Representational State Transfer (REST) 16 min
- ▶ **Video:** Exercise (Video): Setting up a Server using json-server 6 min
- 📖 **Reading:** Exercise (Instructions): Setting up a Server using json-server 10 min
- 📖 **Reading:** Client-Server Communication: Additional Resources 10 min

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## Fetch

- 📖 **Reading:** Fetch: Objectives and Outcomes 10 min
- ▶ **Video:** Promises 10 min
- ▶ **Video:** Fetch 20 min
- ▶ **Video:** Exercise (Video): Fetch from Server 33 min
- 📖 **Reading:** Exercise (Instructions): Fetch from Server 10 min
- ▶ **Video:** Exercise (Video): Fetch Handling Errors 15 min
- 📖 **Reading:** Exercise (Instructions): Fetch Handling Errors 10 min
- ▶ **Video:** Exercise (Video): Fetch Post Comment 18 min
- 📖 **Reading:** Exercise (Instructions): Fetch Post Comment 10 min
- 📖 **Reading:** Fetch: Additional Resources 10 min

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## React Animations

- 📖 **Reading:** React Animations: Objectives and Outcomes 10 min
- ▶ **Video:** React Animations 13 min
- ▶ **Video:** Exercise (Video): React Animations 9 min
- 📖 **Reading:** Exercise (Instructions): React Animations 10 min
- ▶ **Video:** Exercise (Video): React Animation Components 9 min
- 📖 **Reading:** Exercise (Instructions): React Animation Components 10 min
- 📖 **Reading:** React Animations: Additional Resources 10 min


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## Assignment 4: Redux, Client-Server Communication and Fetch

- ▶ **Video:** Assignment 4: Redux, Client-Server Communication and Fetch 4 min
- 👤 **Peer-graded Assignment:** Redux, Client-Server Communication and Fetch 1h Due Sep 27, 1:59 AM CDT
- 📝 **Review Your Peers:** Redux, Client-Server Communication and Fetch Due Sep 30, 1:59 AM CDT


 **Reading:** Assignment 4: Redux, Client-Server Communication and Fetch: Additional Resources 10 min


## Building and Deployment

 **Reading:** Building and Deployment: Objectives and Outcomes 10 min

 **Video:** Introduction to Webpack 7 min


 **Video:** Exercise (Video): Building and Deploying the React Application 11 min

 **Reading:** Exercise (Instructions): Building and Deploying the React Application 10 min


 **Reading:** Building and Deployment: Additional Resources 10 min


## Optional Honors Content

## Project Implementation

 **Reading:** Project Implementation: Objectives and Outcomes 10 min

 **Reading:** Final Report Template 10 min

 **Honors Peer-graded Assignment:** Project Implementation and Final Report 1h Due Sep 27, 1:59 AM CDT

 **Review Your Peers:** Project Implementation and Final Report Due Sep 30, 1:59 AM CDT

