

Deep Dive Into Modern Web Development

Full Stack open 2022

Start course

Learn React, Redux, Node.js, MongoDB, GraphQL and TypeScript in one go! This course will introduce you to modern JavaScript-based web development. The main focus is on building single page applications with ReactJS that use REST APIs built with Node.js.



Announcements

The year 2022 is over but the course continues! See this for more details.

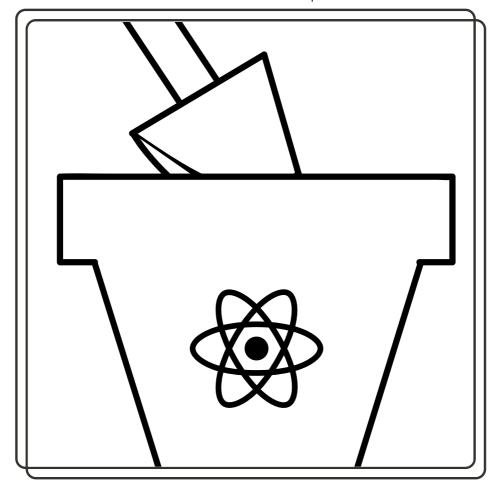
You can discuss the course and related topics in our dedicated group on Discord https://study.cs.helsinki.fi/discord/join/fullstack and on Telegram: https://t.me/fullstackcourse. Please join the conversation!



Authors and License

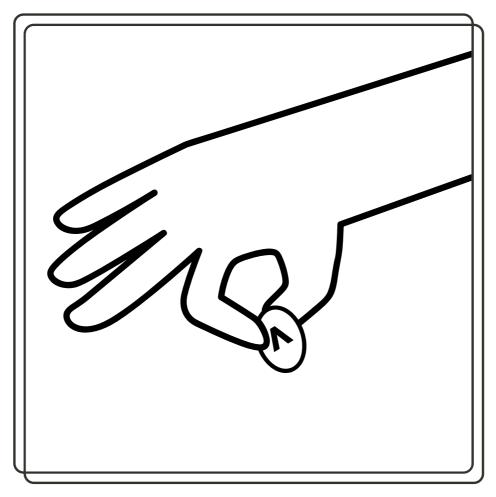
Parts 0-8 and 13 of the course material is written by Matti Luukkainen. The content of part 9 is written by developers from Terveystalo. Part 10 is written by Kalle Ilves. The content of part 11 is written by developers from Smartly and part 12 is by Jami Kousa. Numerous people have improved and corrected the material both in content and spelling. You can also make improvements to the course material yourself. The course webpage is designed and created by Houston inc, who have also audited the content of the course material. Chinese translation by Zhang Wei. Spanish translation by Sebastian Torres and Cynthia Vico Vacca.

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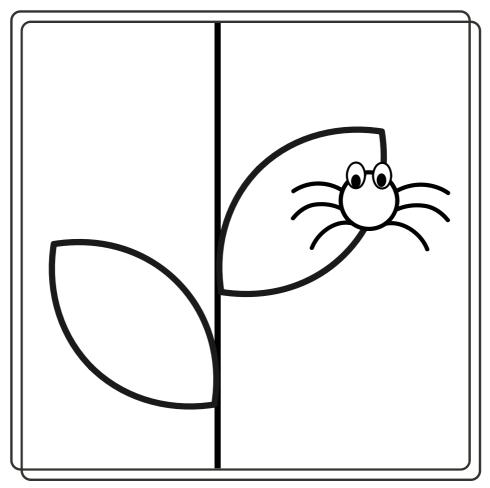
Part 0

Fundamentals of Web apps



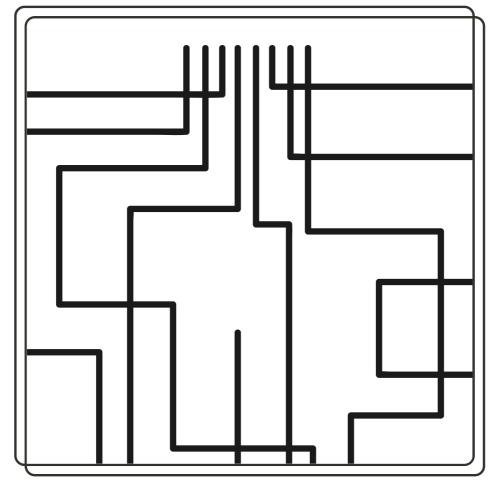
Part 1

Introduction to React



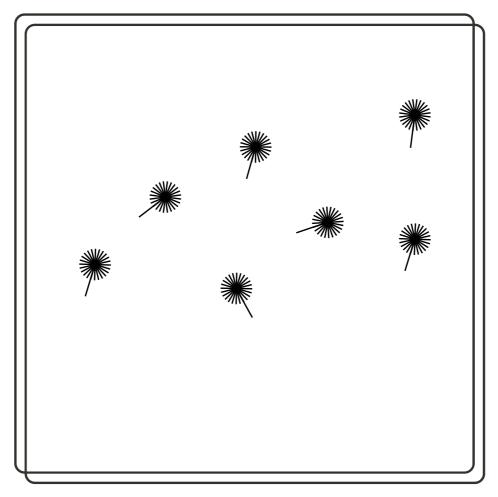
Part 2

Communicating with server



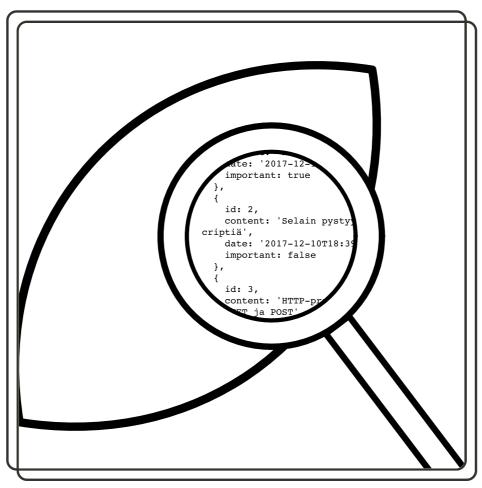
Part 3

Programming a server with NodeJS and Express



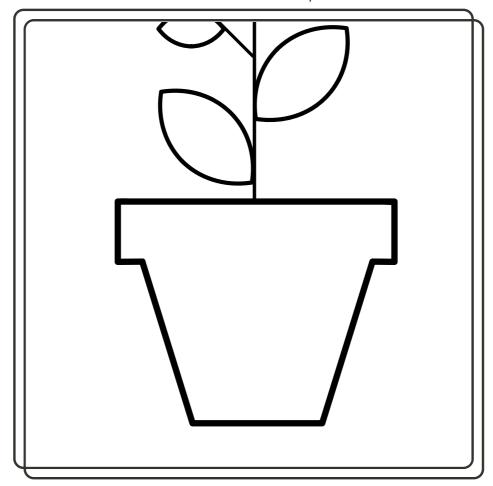
Part 4

Testing Express servers, user administration



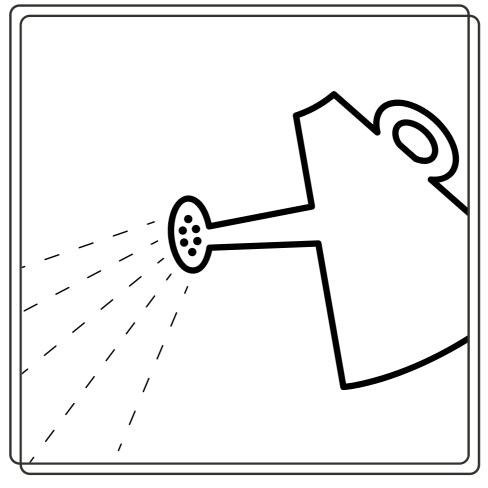
Part 5

Testing React apps



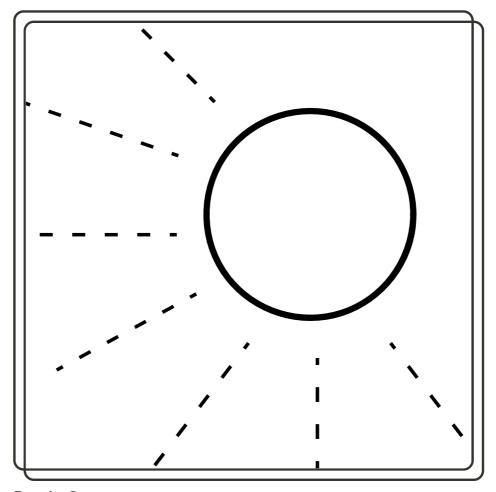
Part 6

State management with Redux



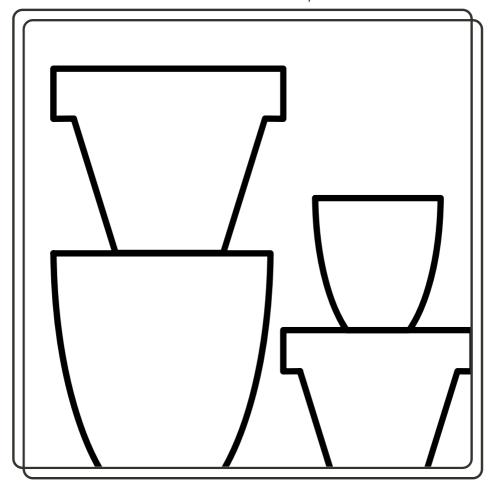
Part 7

React router, custom hooks, styling app with CSS and webpack $% \left(1\right) =\left(1\right) \left(1\right)$



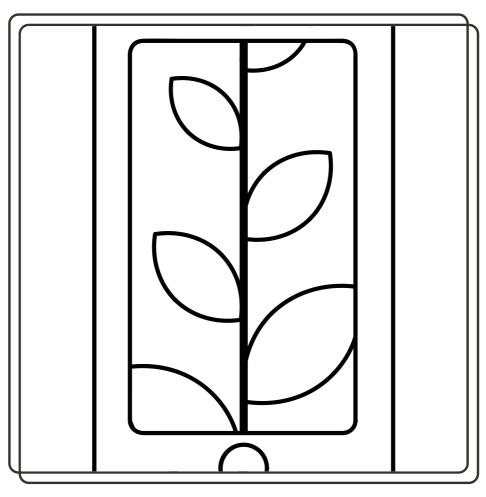
Part 8

GraphQL



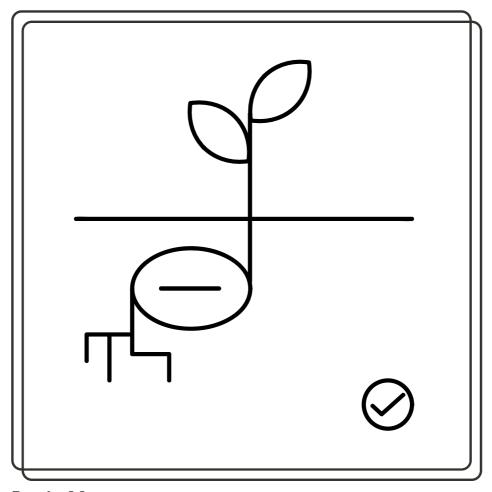
Part 9

TypeScript



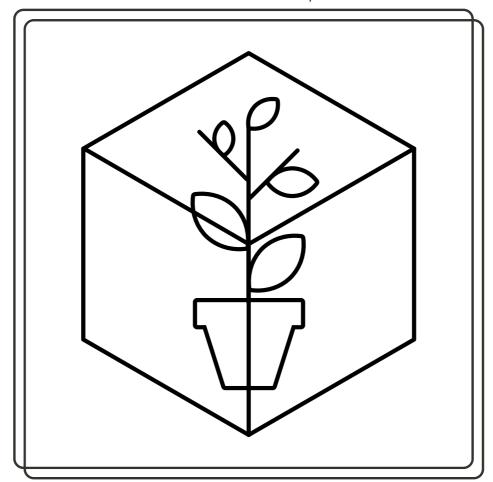
Part 10

React Native



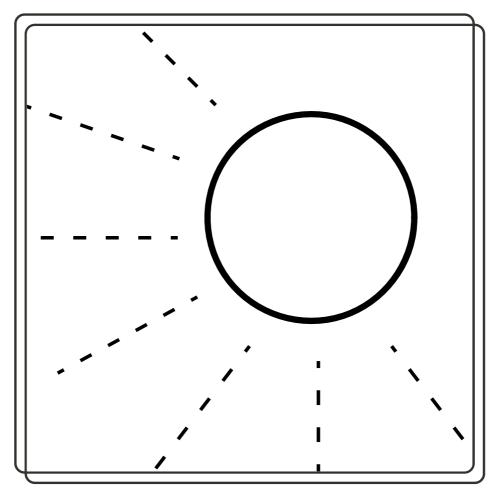
Part 11

CI/CD



Part 12

Containers



Part 13

Using relational databases

In co-operation with

















More about challenge



The University of Helsinki is the oldest and largest science university in Finland, with an international scientific community of 40,000 people.



he Films Houston Inc. is an agile software company founded in 2003. We design and implement

Full stack open 2022 matti.luukkainen@helsinki.fi











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