

React I: Basics

Course code: JS_REACT1

This course is designed for intermediate JavaScript programmers who want to learn the basics of front-end web application development using the React framework. The student will learn the basics of React application development, such as presenting data, responding to user events, creating forms, and communicating with the back-end and navigation. You will also learn the basics of React application architecture and design, using concepts such as components, properties, hooks, and managing your own. The course assumes knowledge of the DOM object model in the browser at the [JS_DOM1] course level and moderately advanced knowledge of JavaScript at the [JS_PROG2] course level.

For whom the course is intended

This course is designed for intermediate JavaScript programmers who want to learn the basics of front-end web application development using the React framework.

What we will teach you

- How to build a development environment for React
- How to present data on a page
- Respond to user events
- Process user input
- Communicate with the back-end
- Implement front-end navigation
- Manage application status

Required entry knowledge

- JS at the level of [JS_DOM1] and [JS_PROG2]

Course outline

Introduction

- What is React
- The development environment
- Hello World and project structure

Data presentation

- JSX
- Conditional Rendering
- Repeated rendering
- CSS, class, style
- User interaction
- Events
- State management
- Forms

Manage application state

- Component status
- properties
- context
- external state managers

Communication with the backend

- fetch API
- asynchronous functions and React

Component lifecycle

GOPAS Praha

Kodaňská 1441/46
101 00 Praha 10
Tel.: +420 234 064 900-3
info@gopas.cz

GOPAS Brno

Nové sady 996/25
602 00 Brno
Tel.: +420 542 422 111
info@gopas.cz

GOPAS Bratislava

Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 248 282 701-2
info@gopas.sk



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React I: Basics

- Initialization and cleanup
- useful hooks

Navigation

- React router
- Nested routers
- Parametric routs

Introduction to React Redux

- store
- actions and reducers
- slice and functional module
- store provider and functional module

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info@gopas.sk



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