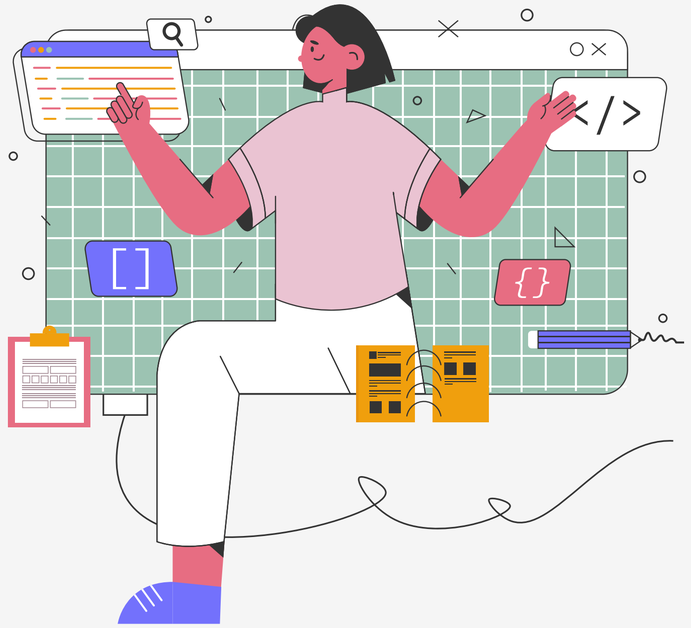
ADVANCED TRAINING IN MODERN REACT



CURRICULUM OVERVIEW

STEP BY STEP

DEVELOPMENT TRAINING
SCHEDULE

WEEK 1 — JS

Javascript fundamentals (scopes, blocks, event loop, ES5 vs ES6 differences)

WEEK 2 — JS

Javascript fundamentals (Ecosystem, webpack / transpilers, npm, promises)

WEEK 3 — REACT

React (why react, differences from vanilla js, state, props, class components)

WEEK 4 — REACT

React (CSS / SCSS styling, functional components, hooks, custom hooks, design patterns)

WEEK 5 — NODE JS

NodeJS (Http, routing, requests, mock api)

WEEK 6 — EXPRESS

ExpressJS (Routes, middlewares, simple hosting mechanisms, and any ORM)

WEEK 7 — MONGO DB

MongoDB (tables, interfaces with Node, drivers on express app)

WEEK 8 — EXERCISES

Start on personal project along with students

WEEK 9 — FINAL ASSIGNMENT

Student personal project as final assignment

DEVELOPMENT TRAINING

WEEK 1

1. JAVASCRIPT FUNDAMENTALS

- Code scopes
- Code blocks
- Javascript event loop
- ES5 vs ES6

DEVELOPMENT TRAINING

WEEK 2

2. JAVASCRIPT FUNDAMENTALS (CONTINUED)

- Javascript Ecosystem
- Babel & Webpack
- NPM (package management)
- Promises
- Async / Await

DEVELOPMENT TRAINING

WEEK 3

3. REACT

- Why React
- Differences from Vanilla JS
- State
- Props
- Class components
- Component Lifecycle

DEVELOPMENT TRAINING

WEEK 4

4. REACT (CONTINUED)

- CSS and interpreted CSS (SASS)
- Functional Components
- Hooks
- Custom Hooks
- Design Patterns

DEVELOPMENT TRAINING

WEEK 5

5. NODEJS

- HTTP
- Routing
- Requests
- API’s
- Mock API creation

DEVELOPMENT TRAINING

WEEK 6

6. EXPRESS JS

- Routes
- Middlewares
- Hosting and server-side
- ORM and connections

DEVELOPMENT TRAINING

WEEK 7

7. MONGO DB

- Tables
- Interfaces with NodeJS
- Other drivers w/ Express

DEVELOPMENT TRAINING

WEEK 8 & 9

STUDENT PROJECT BUILD & FINAL PROJECT ASSESSMENT

The last 2 weeks will include

- Starting a project along with students
- Students starting a project on their own

as a final task for the course