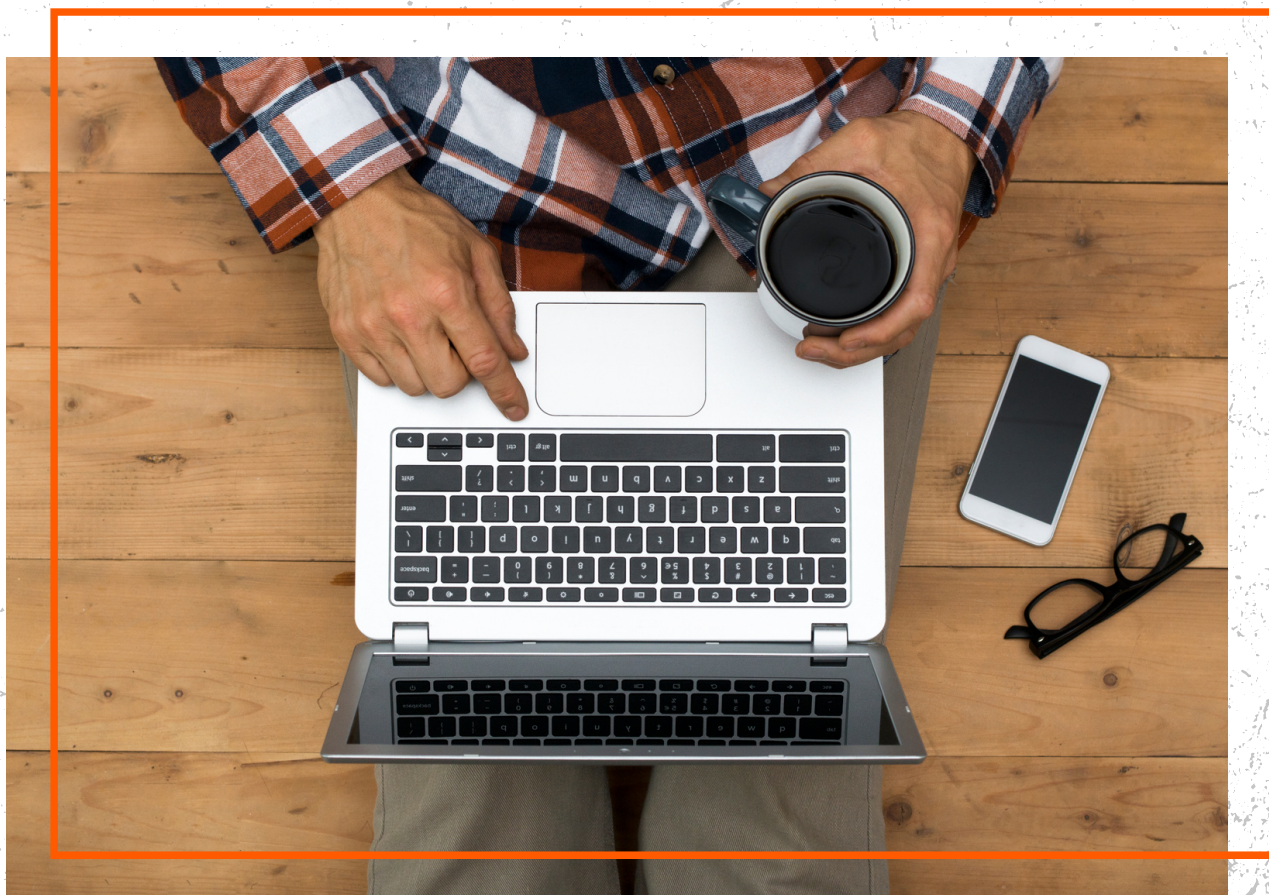


Web Development

Program/Course Outline
www.createbahrain.com



A student of this program will be able to:

- Construct responsive websites using CSS, Flexbox and CSS Grid
- Develop interactive websites and UI (User Interface) applications using JavaScript and HTML
- Connect a web application to backend server data using JavaScript
- Automate application build and deployment using webpack
- Improve offline performance of websites using Service Worker

```

    .active").removeClass("active").end().find('[data-toggle="tab"]').attr("aria-expanded",!1),
    ia-expanded",!0),h?>(b[0].offsetWidth,b.addClass("in")):b.removeClass("fade"),b.parent(".dropdown
    ).find('[data-toggle="tab"]').attr("aria-expanded",!0),e&&e())var g=d.find("> .active"),h=e&&
    e")!&&d.find("> .fade").length);g.length&&h?g.one("bsTransitionEnd",f).emulateTransitionEnd
    var l=a.fn.tab;a.fn.tab=b,a.fn.tab.Constructor=c,a.fn.tab.noConflict=function(){return a.fn.t
    show))};a(document).on("click.bs.tab.data-api",[data-toggle="tab"],e).on("click.bs.tab.data
    se strict";function b(b){return this.each(function(){var d=a(this),e=d.data("bs.affix"),f="ob
    type f b&&e[b]()}}var c=function(b,d){this.options=a.extend({},c.DEFAULTS,d),this.$target=a
    ",a.proxy(this.checkPosition,this)).on("click.bs.affix.data-api",this.$target=a
    null,this.pinnedOffset=null,this.checkPosition(),a.proxy(this.checkPositionW
    State=function(a,b,c,d){var e=this.$target;c.VERSION="3.3.7" c.RESET="
    "bottom" this.$target

```

Introduction in to Web Development

Module 1

Level: **Beginner**

Duration: **10 Sessions**

Fees of the Course: **175BHD**

Learning content and units:

- Unit 1 – Careers in Web Development Companies
- Unit 2 – Freelance or running your own business
- Unit 3 – Building your own products or SaaS (Software as a Service)
- Unit 4 – Create Educational Content or as a Hobby (Entertainment)
- Unit 5 – Frontend Developer (Working on the client side)



Introduction in to Web Development

Module 1

Learning content and units:

- Unit 6 – Backend Developer (Server side)
- Unit 7 – Full Stack Developer (Frontend and Backend)
- Unit 8 – OS (MacOS, Windows, Linux and WSL)
- Unit 9 – Fundamentals of Web Browsers (Chrome, Firefox, Brave, Edge and Safari)
- Unit 10 – Text Editor – Integrated Develop Environment (VS Code, Vim, Atom.io)
- Unit 11– Terminal (Powershell, Git Bash, Hyper, iTerm2)
- Unit 12 – Design Software (Figma, Adobe XD and Sketch)



Introduction in to HTML & CSS

Module 2

Level: **Beginner**

Duration: **10 Sessions**

Fees of the Course: **175BHD**

Learning content and units:

- Unit 13 – HTML 5 Basics & Semantic Tags (Page Layouts)
- Unit 14 – CSS Fundamentals
- Unit 15 – CSS Alignment (Flexbox & CSS Grid)
- Unit 16 – Media Queries – Responsive Design
- Unit 17 – Simple Animation – Transitions
- Unit 18 – Saas – CSS pre-processor that add functionality of CSS.
- Unit 19 – CSS Frameworks (Bootstrap 5, Tailwind CSS, Materialize, Bulma, Foundation).



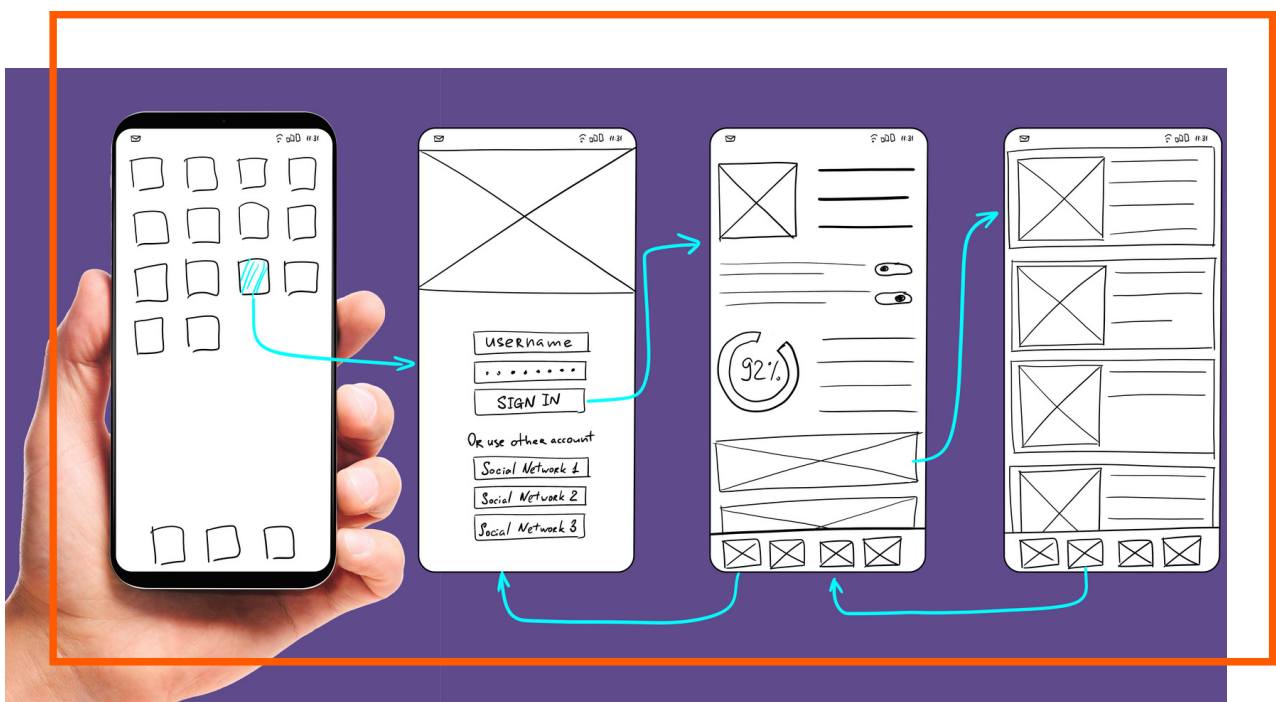
Level: **Moderate**

Duration: **10 Sessions**

Fees of the Course: **175BHD**

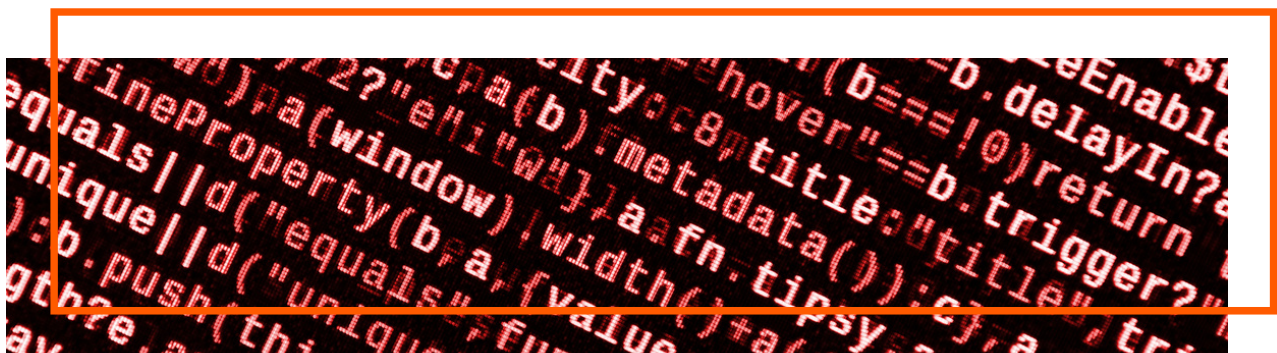
Learning content and units:

- Unit 20 – Color and Contrast
- Unit 21 – Whitespace between elements
- Unit 22 – Scale (Relative element sizing)
- Unit 23 – Visual Hierarchy
- Unit 24 – Typography



Fees of the Course: 175BHD

- Unit 25 – Data Types and Structures
- Unit 26 – Functions and Loops
- Unit 30 – DOM (Document Object Model)
- Unit 31 – Async JS (Async/Await Promises)
- Unit 32 – Fetch API and HTTP
- Unit 33 – Make Requests to API's
- Unit 34 – Understand HTTP
- Unit 35 – Array Methods



Programming Tools

Module 5

Level: **Moderate**

Duration: **10 Sessions**

Fees of the Course: **175BHD**

Learning content and units:

- Unit 37 – GIT (Version Control System, remote repositories)
- Unit 38 – Git Hub, GitLab and BitBucket.
- Unit 39 – NPM (Node Package Manager)
- Unit 40 – NPM (Node.js)
- Unit 41 – Browser Dev Tools (Element Selector, Console, Storage, Network etc)
- Unit 42 – Text Editors Extensions (Emmet, Live Server, Prettier, ESLint, GitHub Copilot etc.)



Basic Frontend Projects Module 6

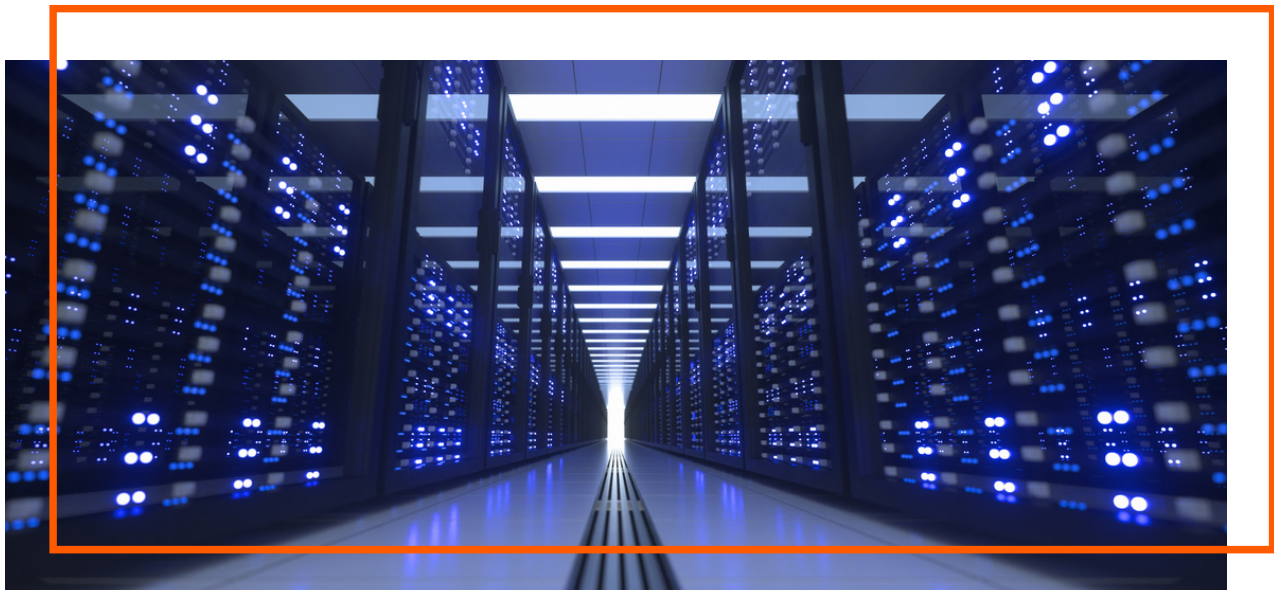
Level: **Advanced**

Duration: **10 Sessions**

Fees of the Course: **175BHD**

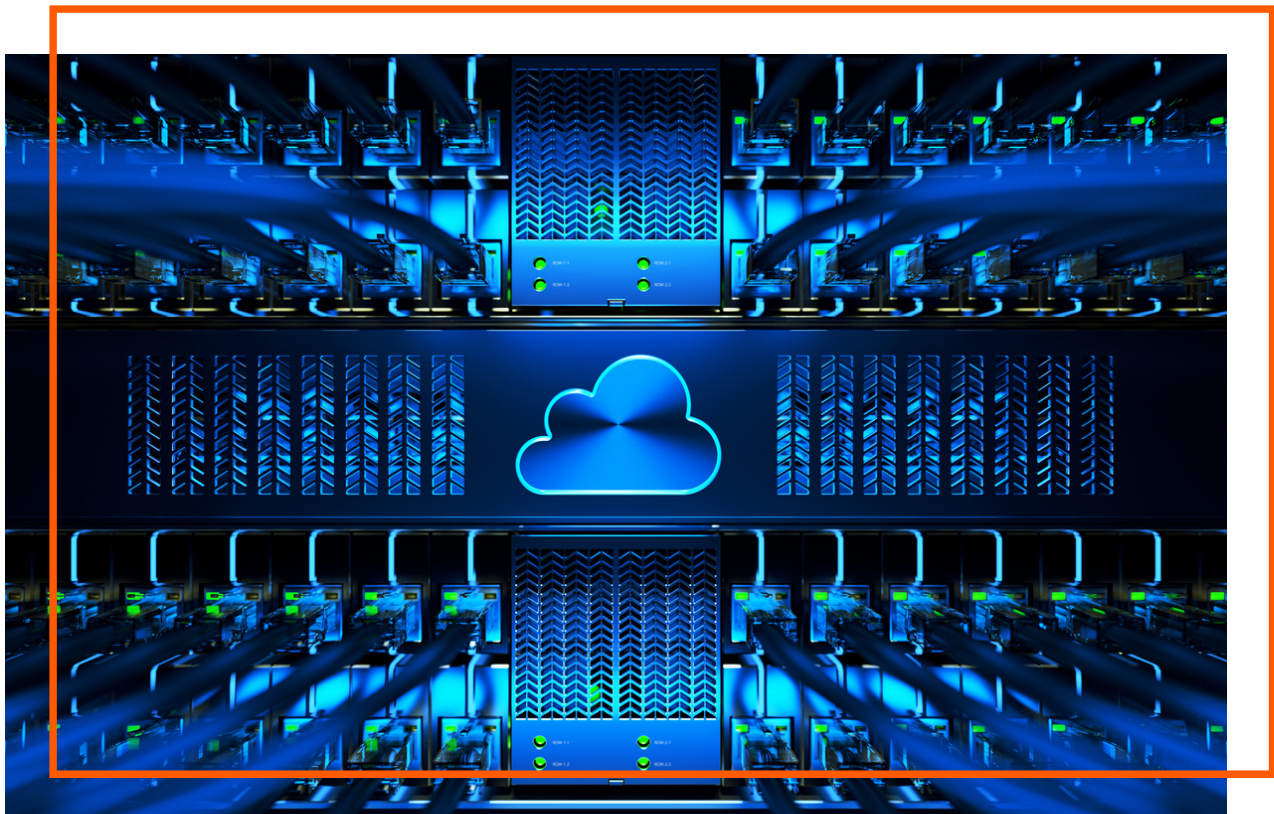
Learning content and units:

- Unit 43 – Platforms (Netlify, Vercel, cPanel, Amazon)
- Unit 44 – Domain Name Registrars (Namecheap, Domain.com, bluehost, GoDaddy)
- Unit 45 – Multiple ways to deploy to a hosting platform (GIT, SSH, FTP/SFTP)
- Unit 46 – Create Website layouts with HTML/CSS
- Unit 47 – Understand some basic design Principles



Learning content and units:

- Unit 48 - Understand JavaScript and how to work with the DOM
- Unit 49 - Create basic interactive frontend applications
- Unit 50 - Connect to APIs and make requests via Fetch
- Unit 51 - Work with GIT and use version control
- Unit 52 - Deploy and manage small production projects
- Unit 53 - Frontend Frameworks Introduction



Web Development Essentials and Advanced

Module 7

Level: **Advanced**

Duration: **16 Sessions**

Fees of the Course: **280BHD**

Learning content and units:

Unit 54 – Web Development

- Differentiate between “Internet” and “Web”.
- Understand and summarize how the web works.
- Define APIs and protocols.

Unit 55 – HTML

- Define HTML, the structuring of a web page, the tags.
- Create web interfaces with HTML tags.

Unit 56 – CSS

- CSS syntaxes.
- Work with CSS selectors.
- Add design to your website with CSS.



Learning content and units:

Unit 57 – CSS Layout

- Define positioning with CSS.
- Discover “Flexbox”, CSS, Grid, bootstrap.
- Define the “responsive design” (reactive website)

Unit 58 – JavaScript

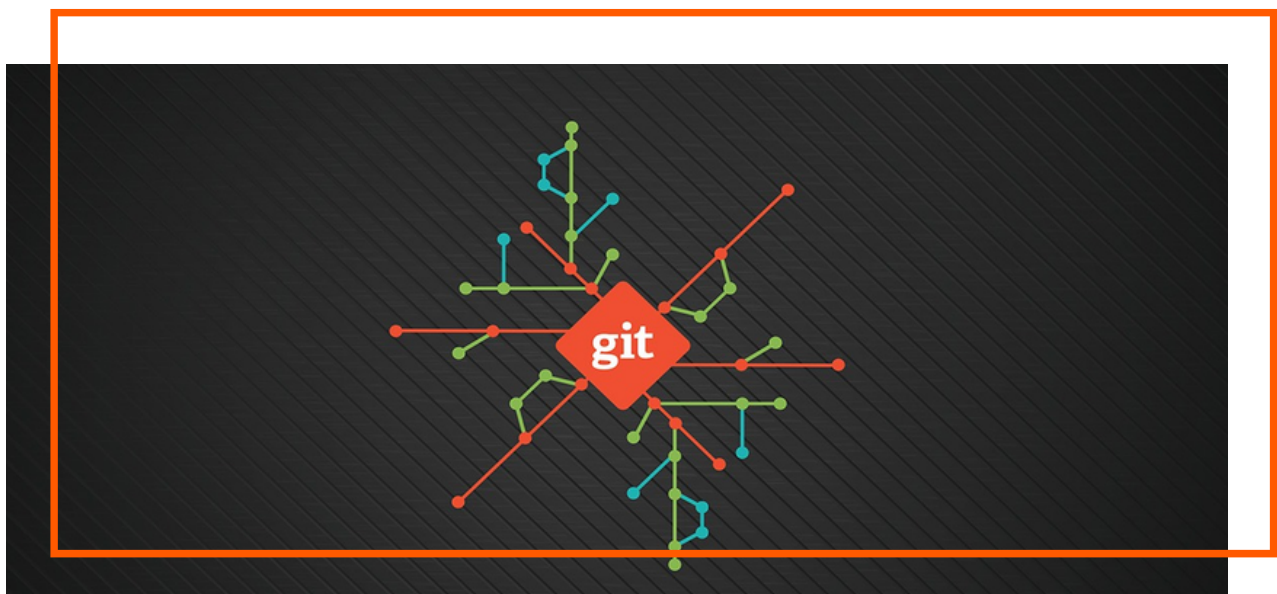
- Define JavaScript.
- Learn the basics of JavaScript.
- Troubleshoot problems with JavaScript.

Unit 58 – DOM

- In to DOM elements.
- Manipulate HTML structures.
- Create a dynamic website.

Unit 59 – GIT and GitHub

- Version Control Software
- Discover some features of GitHub
- Handle projects on GitHub.



Web Development Essentials and Advanced

Module 8

Level: **Advanced**

Duration: **16 Sessions**

Fees of the Course: **280BHD**

Learning content and units:

Unit 60 – General overview

- Define what a web application is
- Understand the difference between web application parts.

Unit 61 – Discover Java ECMA Script 6

- Define ES6 (ECMA Script 6)
- List the different new features of ES6
- Explore ES6

Unit 62 – React.js

- Discover React.
- Understand why we use React.
- Learn about React's features.

Unit 63 – Virtual DOM

- Discover the virtual DOM.
- Understand how to use Virtual DOM with React

Unit 64 – Discover JSX

- Understanding and write with JSX
- Learn to work with JSX



JS

Learning content and units:

Unit 65.1 – React Props

- Learn to work with React Props.
- Differentiate between the types of “Props”
- Learn the best practices for using “Props”

Unit 66 – React State

- Learn what React State is and how to use it.
- Develop a component with Hooks.

Unit 67 – React Hooks

- Handling react Hooks
- Avoid common mistakes by using Hooks.
- Build your own “Hook”.

Unit 68 – React Router

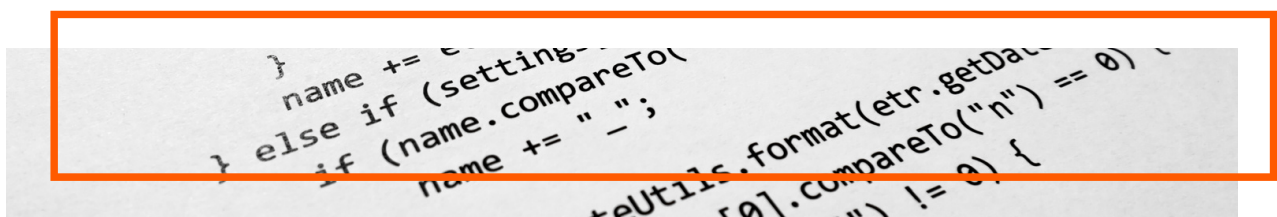
- Understand how React Router works.
- Produce a multi-route page.

Unit 69 – Redux

- Define what Redux is.
- Manage the global state with Redux
- Manage bugs with Redux.

Unit 70 – API

- Understand how to use the API.
- Develop a web service.
- Work with an HTTP request.





Web Development

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