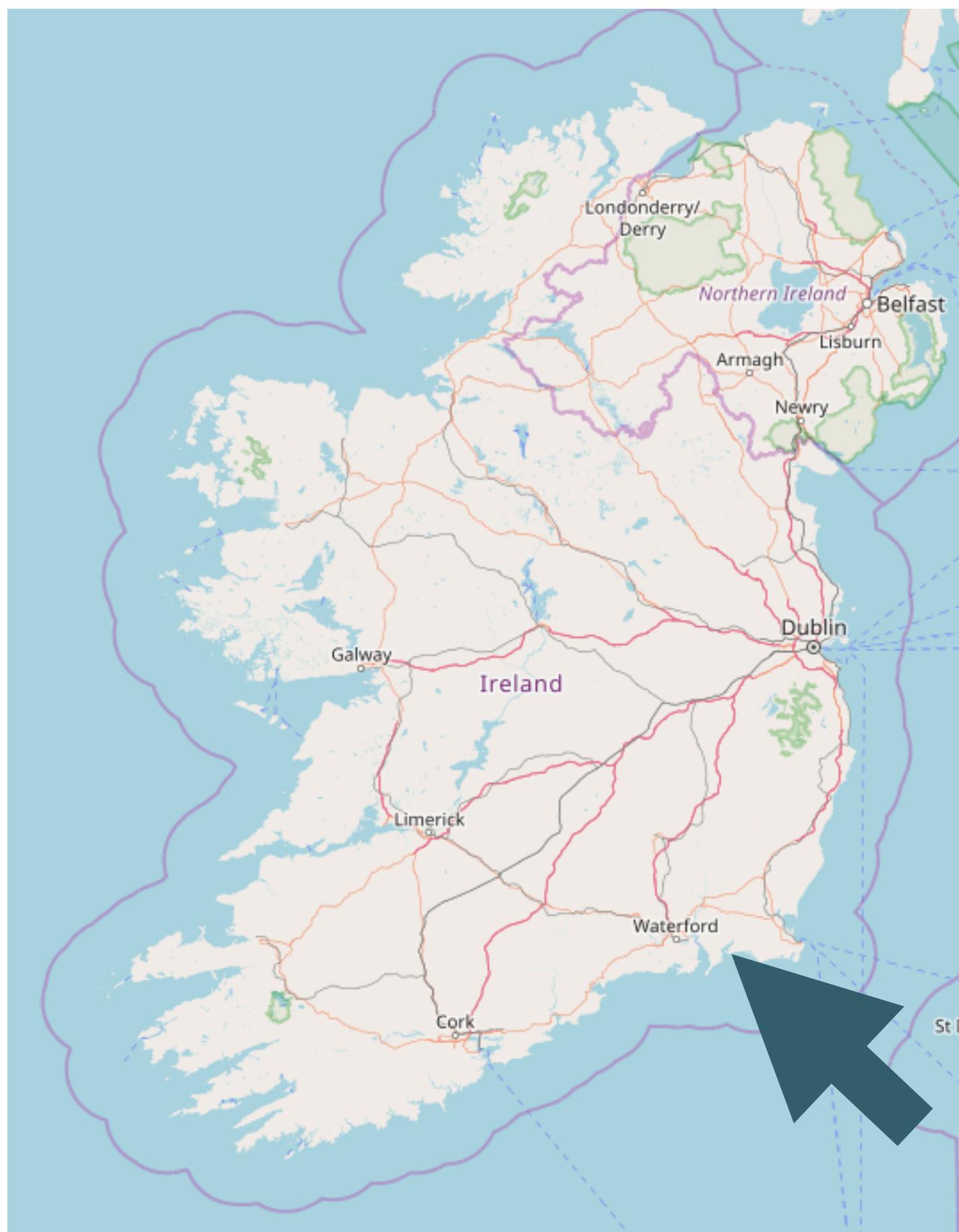


Course Overview



Advanced Stack Web Development



Waterford



Waterford (from Old Norse *Veðrafjørðr*, meaning "ram (wether) fjord", Irish: *Port Láirge*) is a city in Ireland. It is in the South-East Region, Ireland and is part of the province of Munster. The city is situated at the head of Waterford Harbour. It is the oldest^{[2][3]} and the fifth most populous city in the Republic of Ireland. It is the eighth most populous city on the island of Ireland.



About SETU

We want SETU to become a leading European technological university, transforming lives through collaboration and innovation.



The world is changing. And we are changing with it.

South East Technological University is the first technological university in south east Ireland. This gives us an exciting platform to establish our community as a centre for innovation, opportunity, and growth.

Through exceptional learning and collaboration, we aim to transform the ambitions of learners, researchers, and businesses across the south east and beyond.



South East Technological University is a university-level institution in the South-East of Ireland with over 18,000 students and 1,700 staff.

SETU offers tuition and research programmes in various areas from Higher Certificate to Degree to PhD.



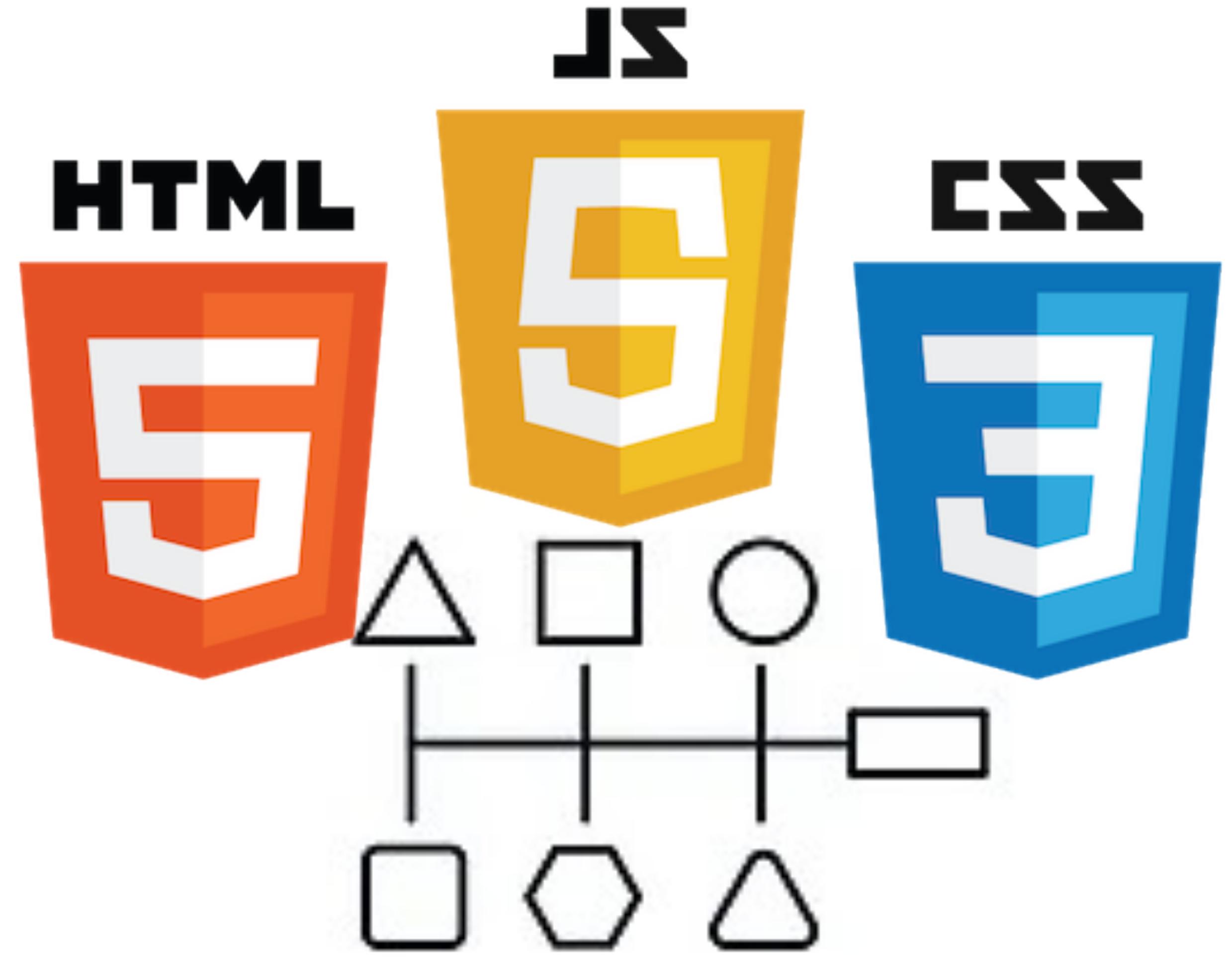
Agenda

- Prerequisites
- Module Overview
- Components
- References

<https://tutors.dev/course/full-stack-oth-25>

Perquisites

- Foundation level skills in:
 - **HTML:** Ability to effectively structure the html content of a small to medium static site, including some understanding of the use of templates
 - **CSS:** Understand the fundamentals of CSS, and be able to realise simple layouts and designs. Be comfortably using a CSS framework



- **Programming:** Intermediate level programming programming ability in Javascript or any C like language (Java, C#, Go etc)

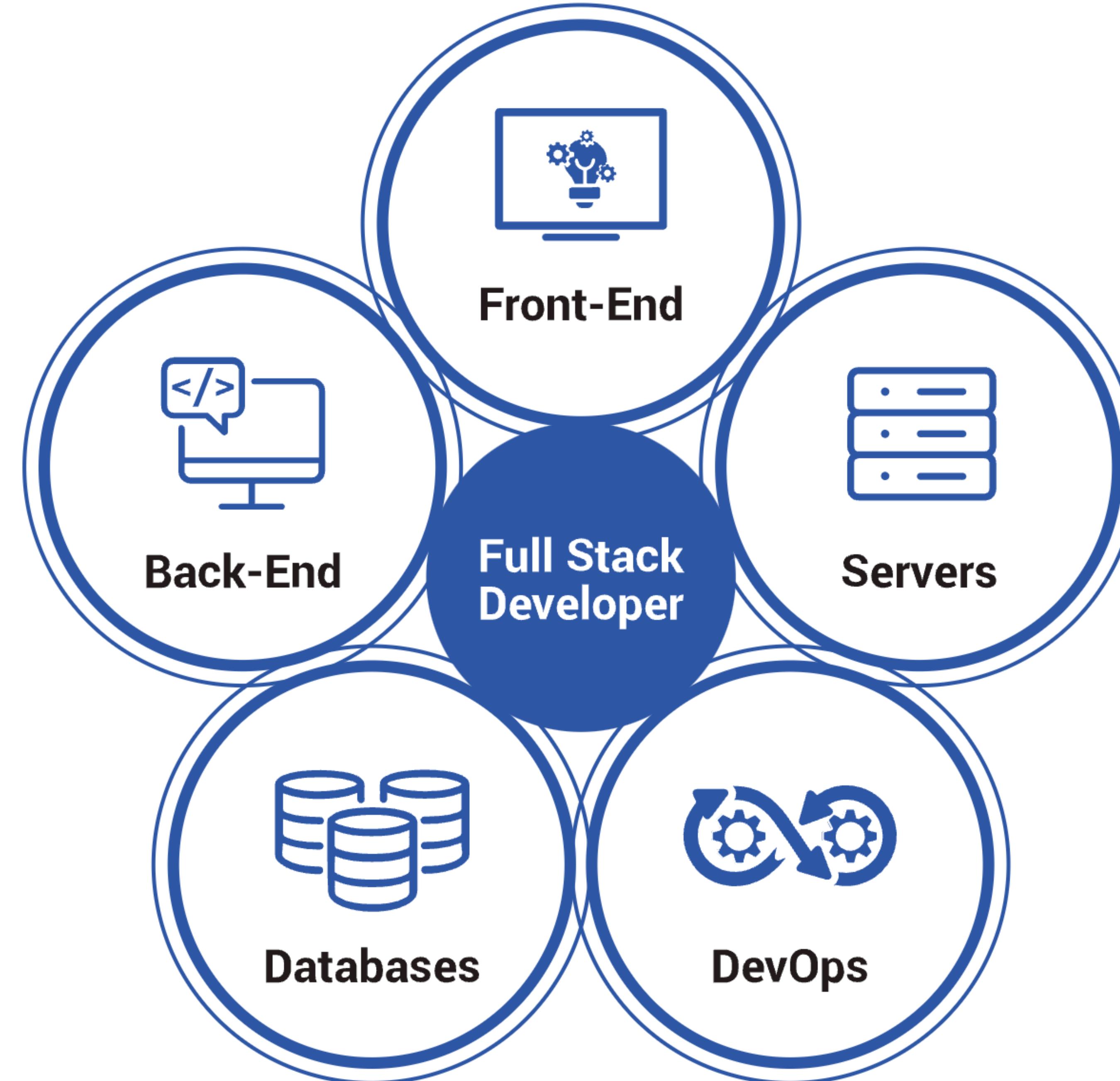
Back End Web
Development

Test Driven
Development

Application
Programmer
Interfaces

Front End Web
Development

Full Stack



Core
Concepts

Back End Web Development

Test Driven Development

Application Programmer Interfaces

Front End Web Development

Full Stack

Core
Concepts

The image shows a horizontal row of five cards, each representing a different aspect of back-end web development. Each card has a green header bar with a bookmark icon. The first card, '01: Node', features the Node.js logo and text about fundamentals and a first application. The second card, '02: Hapi.js', features the Hapi.js logo and text about the application framework. The third card, '03: Joi', features the Joi logo and text about validation. The fourth card, '05: Models', features a folder and cubes icon and text about incorporating MongoDB models.

- 01: Node
- 02: Hapi.js
- 03: Joi
- 05: Models

Back End Web Development

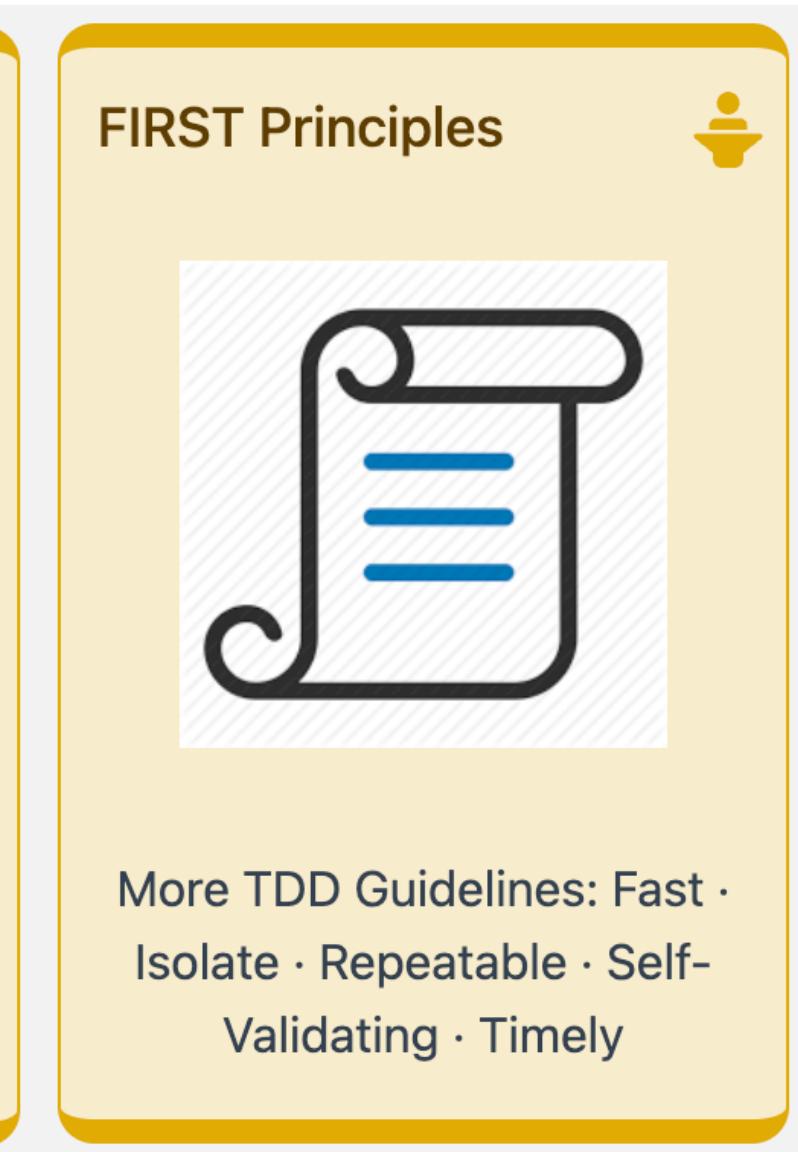
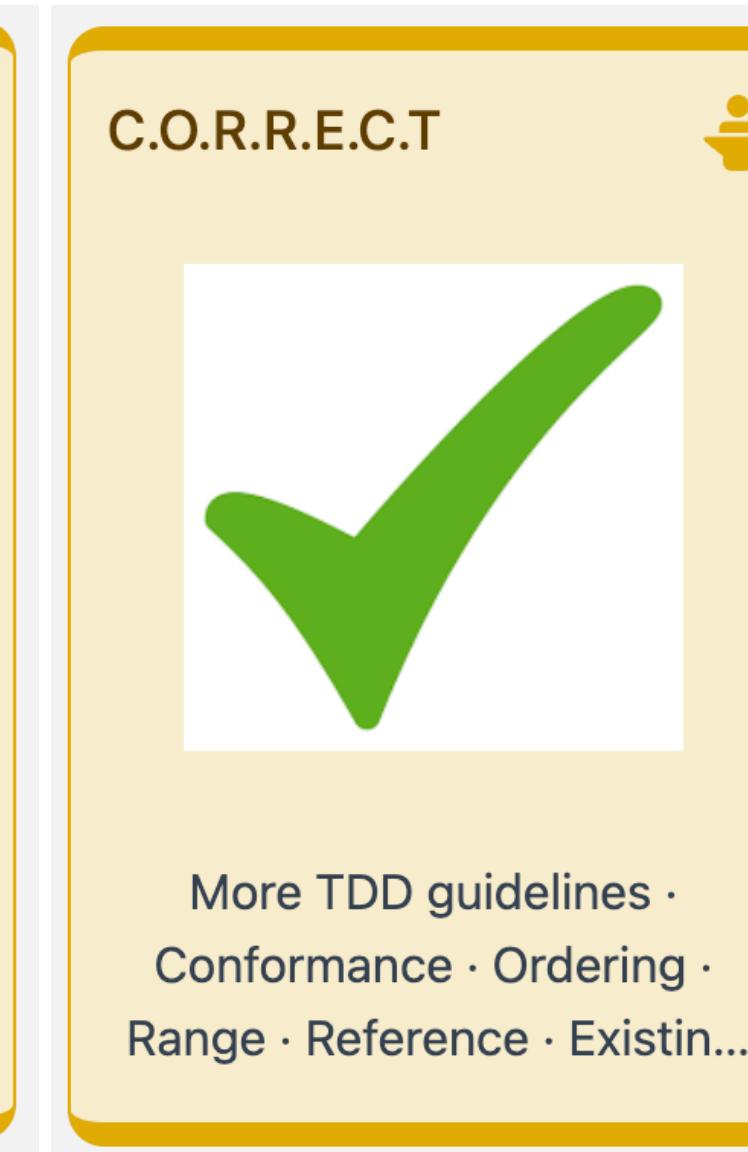
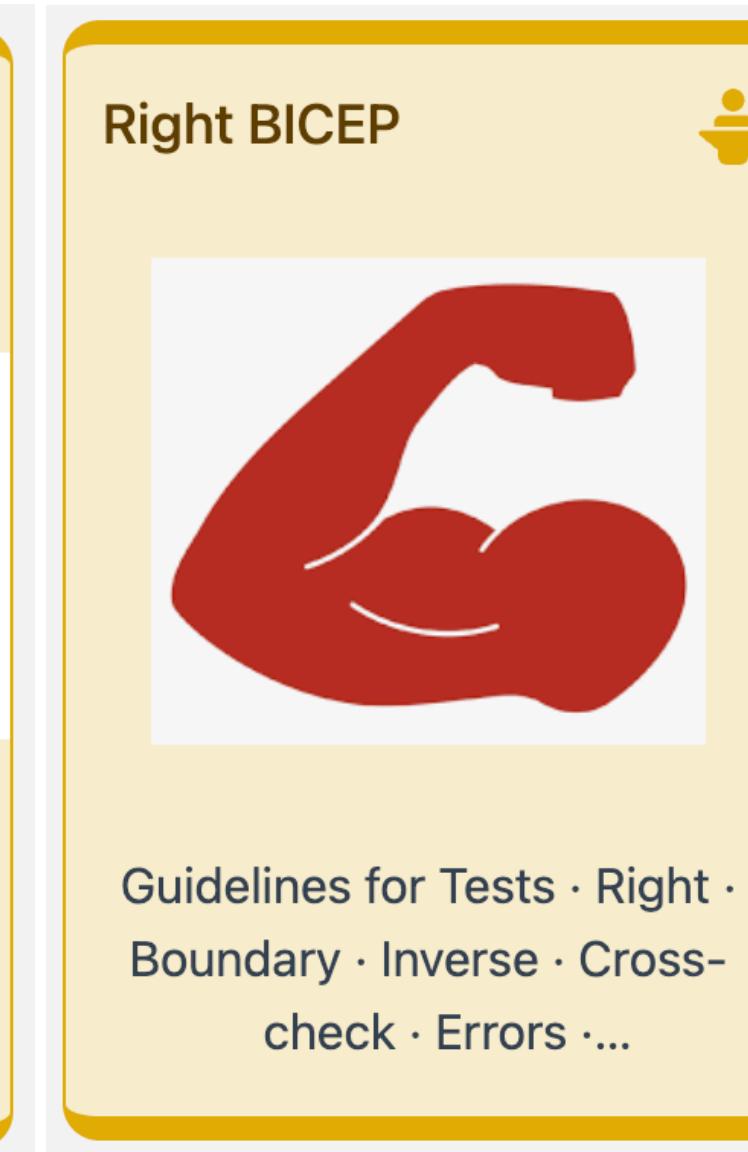
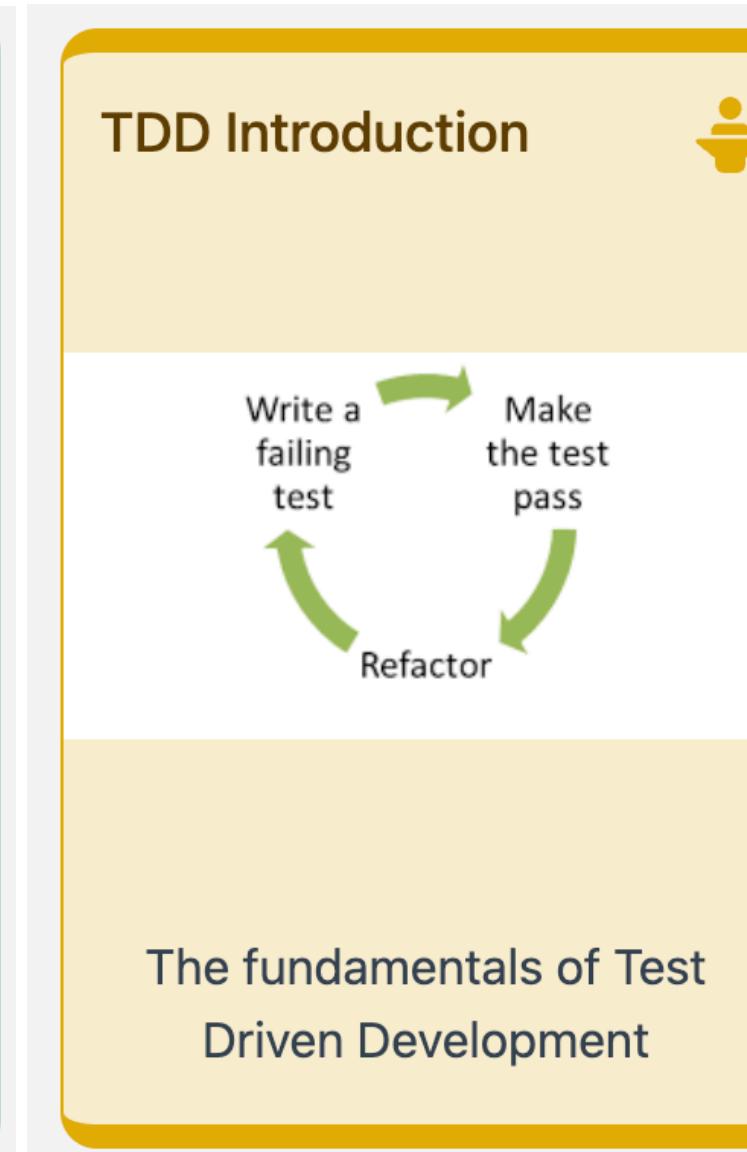
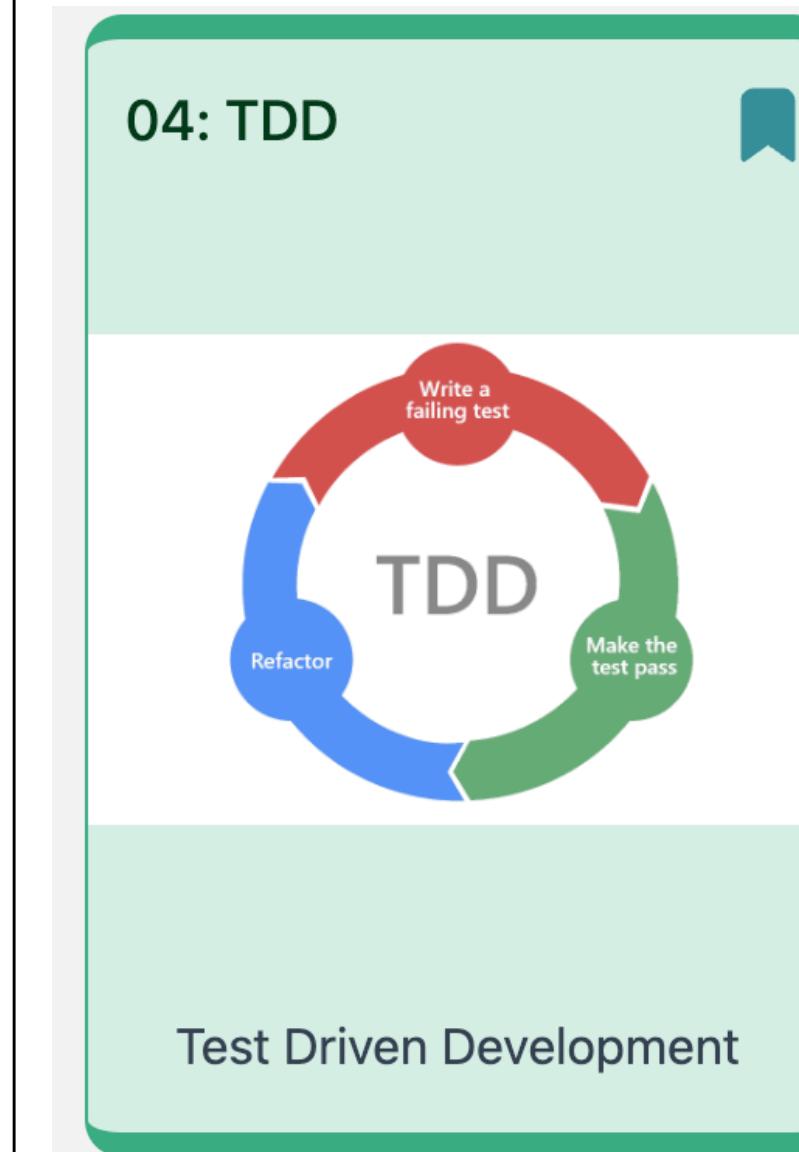
Test Driven Development

Application Programmer Interfaces

Front End Web Development

Full Stack

Core
Concepts



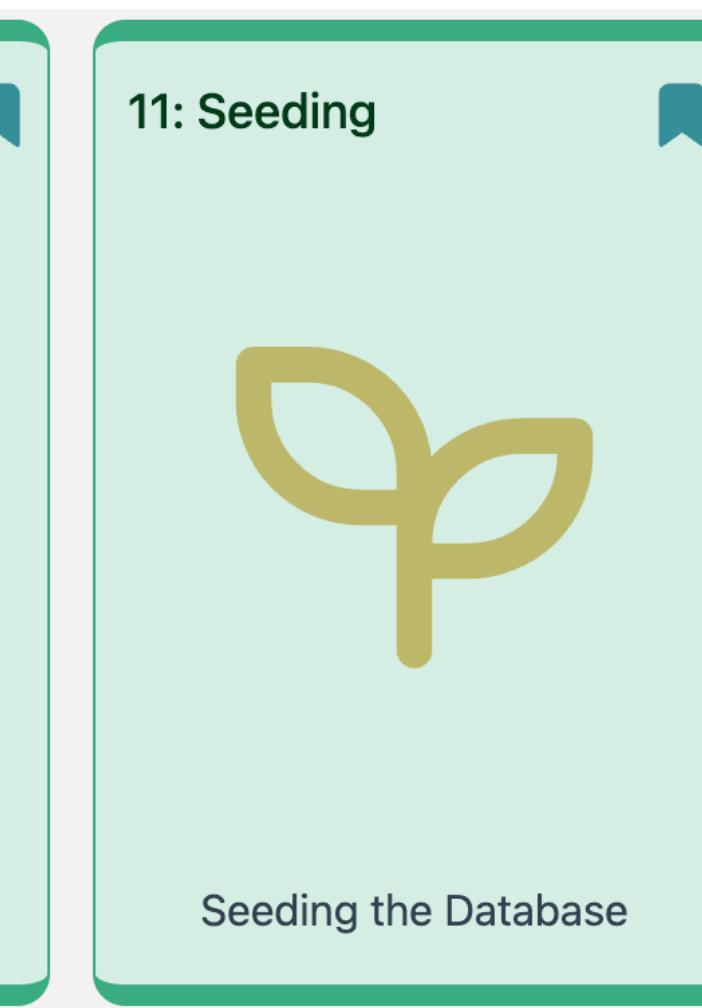
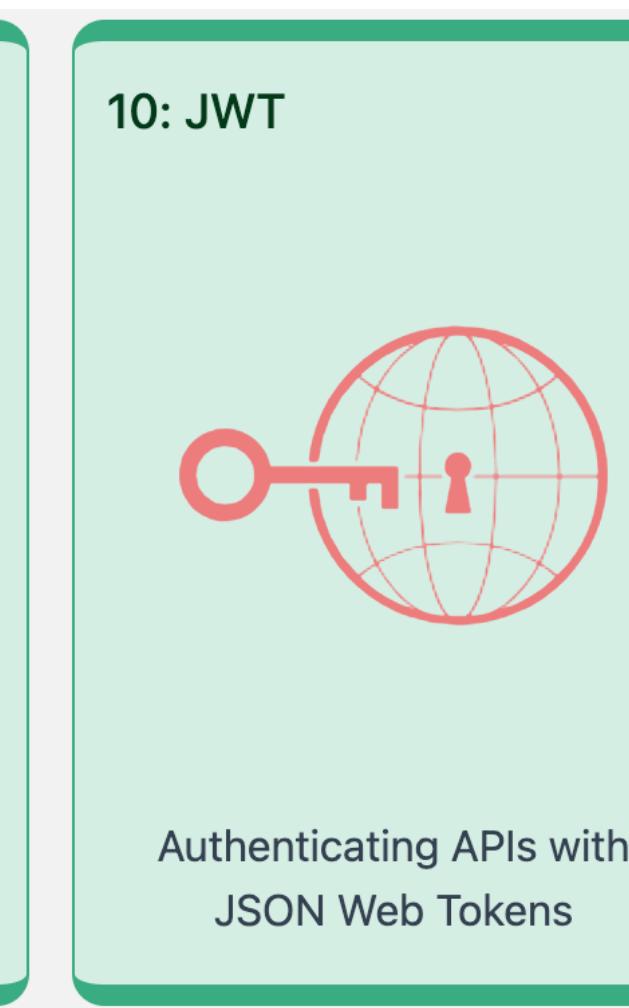
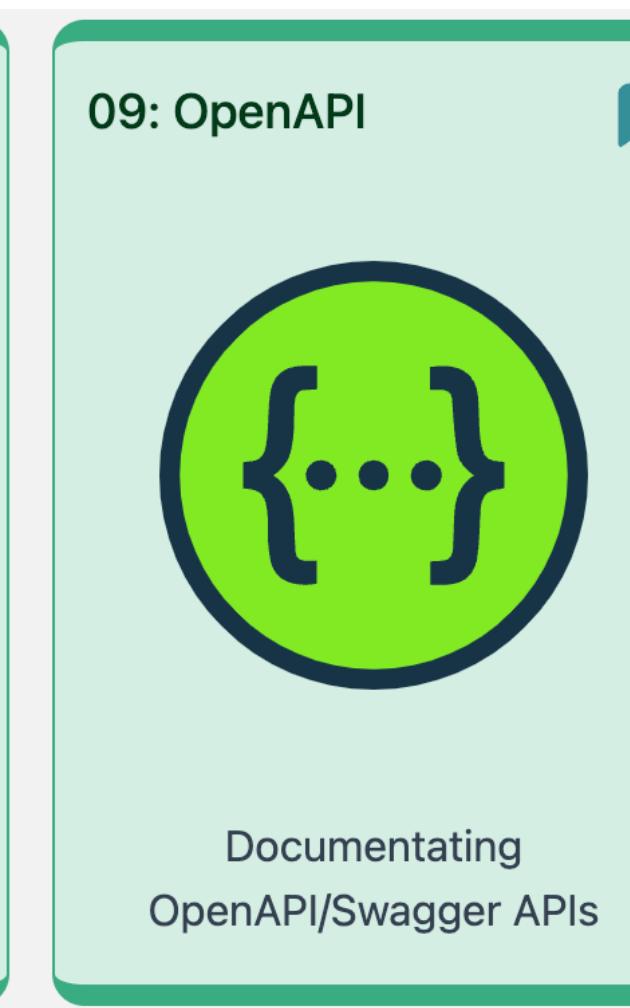
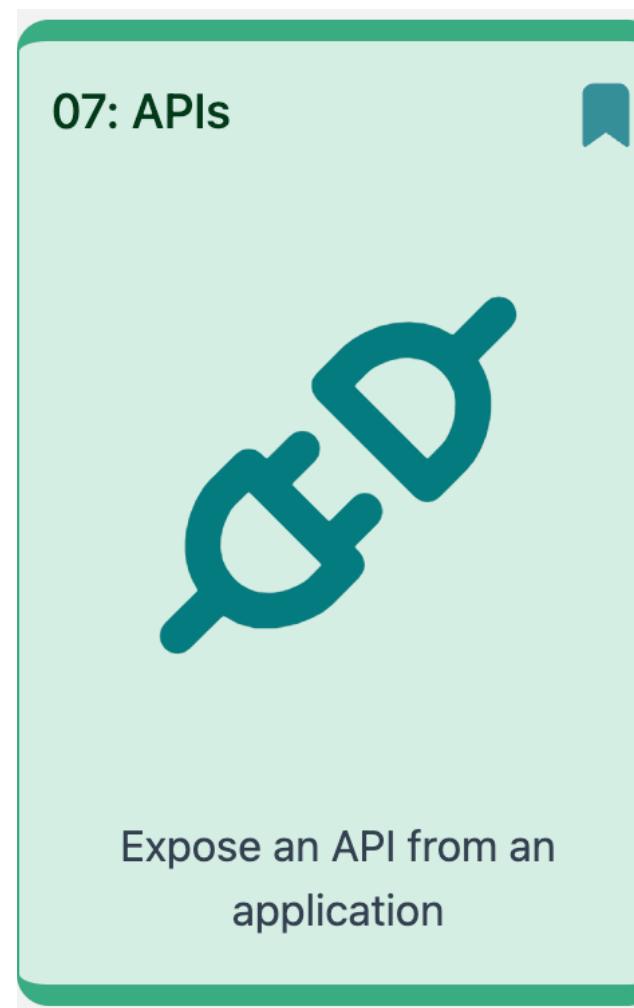
Back End Web
Development

Test Driven
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Application Programmer Interfaces

Front End Web
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Full Stack



Core
Concepts

Back End Web
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Test Driven
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Application
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Interfaces

**Front End Web
Development**

Full Stack

The image shows a horizontal row of seven cards, each representing a lesson in the Svelte framework. Each card has a green header with a bookmark icon, a large central icon, and a brief description below it.

- 12: Deployment** (Icon: Cloud with arrow): Deploying to Glitch, Render & Cloud Atlas
- 13: DOM** (Icon: Document tree): The Document Object Model
- 14: Svelte Introduction** (Icon: Large orange Svelte logo): First contact with the Svelte Framework
- 15: Svelte Components** (Icon: Component diagram): Introducing the Svelte Component Model
- 17: Donation Applications** (Icon: Computer monitor with gears): Overview of Donation Applications - Hapi & Svelte
- 18: TypeScript** (Icon: TypeScript logo): TypeScript Hapi Applications
- 19: SvelteKit Routing** (Icon: Route sign): Application Routing in SvelteKit

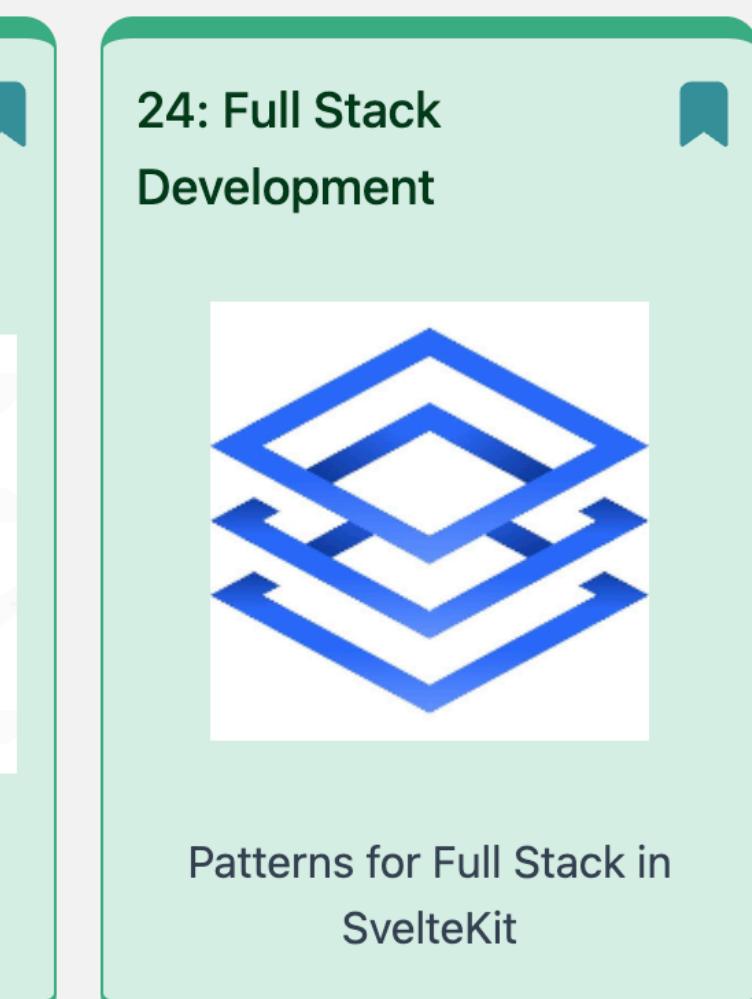
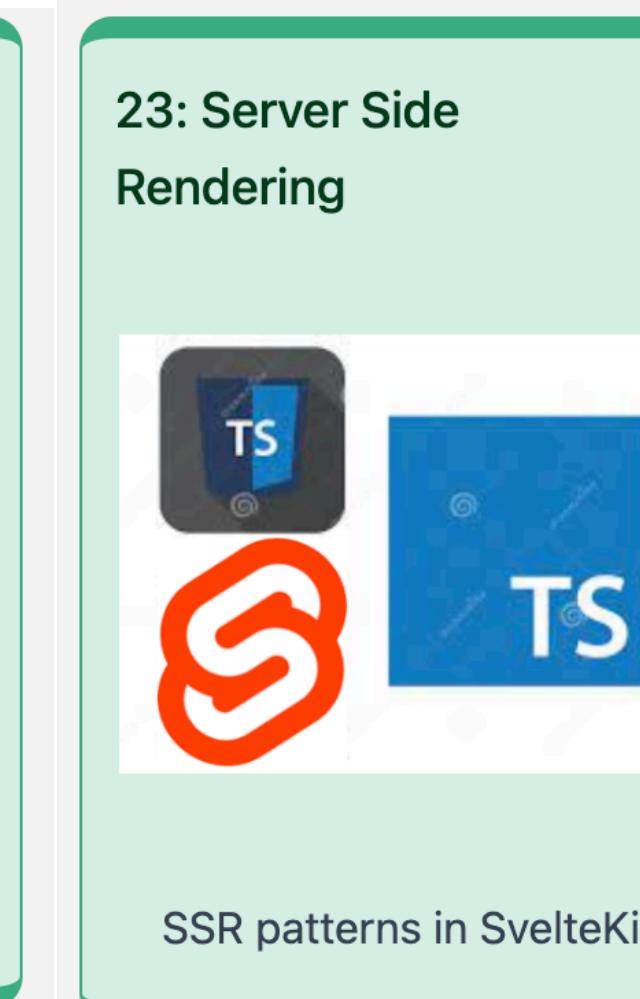
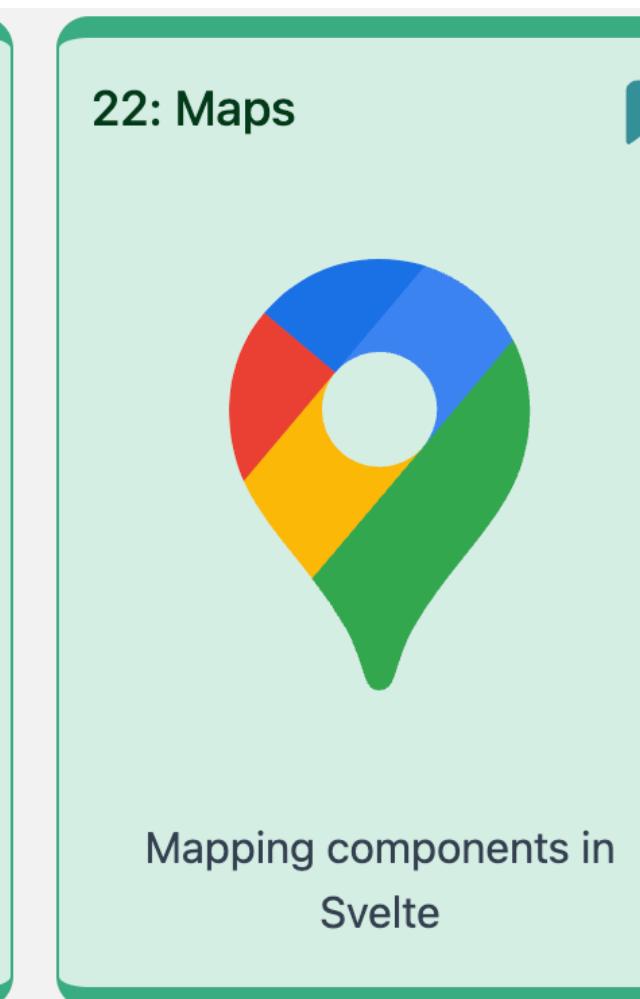
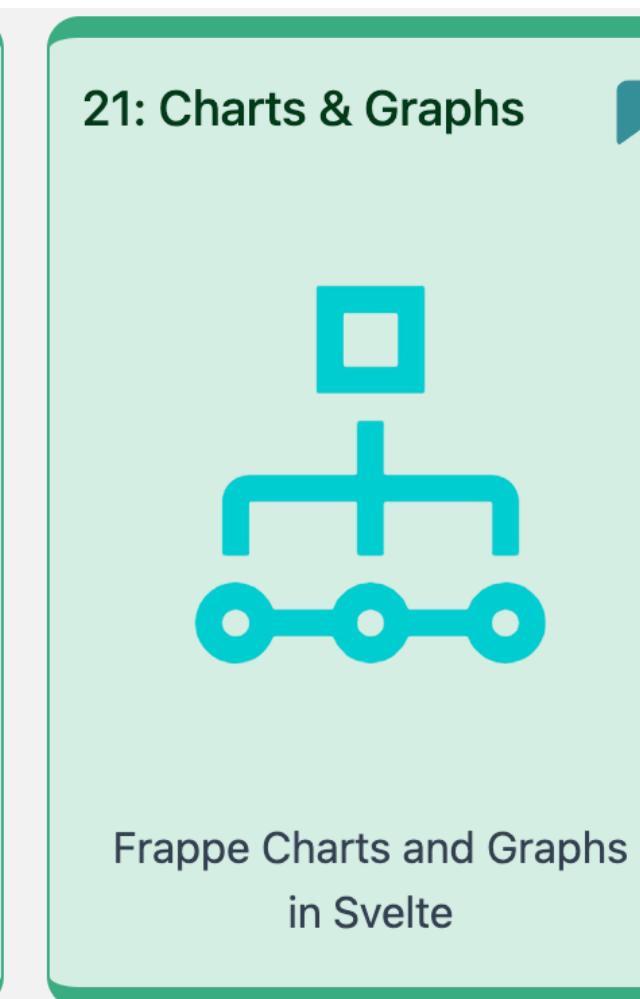
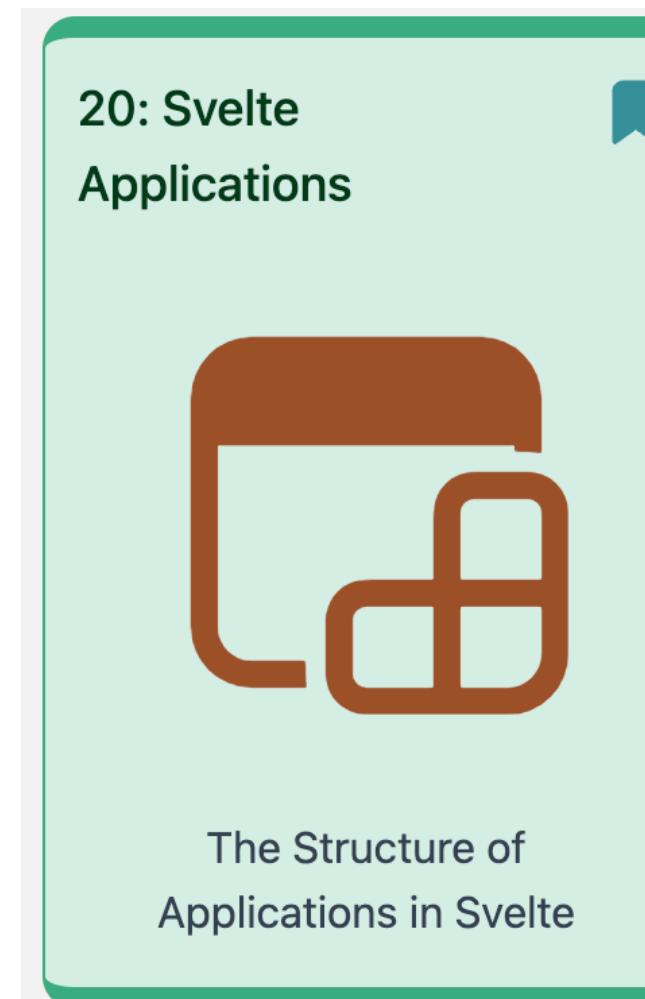
Back End Web
Development

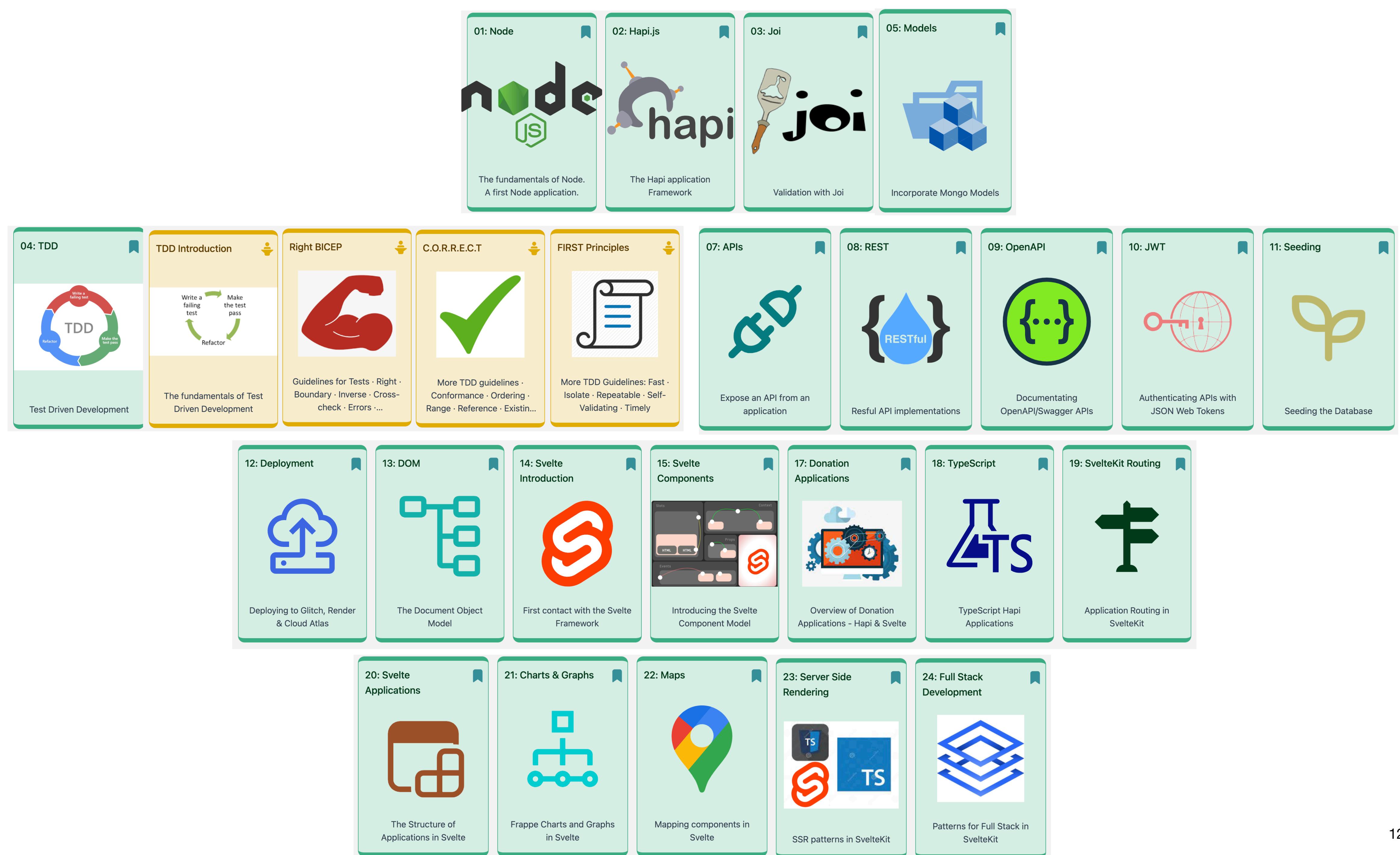
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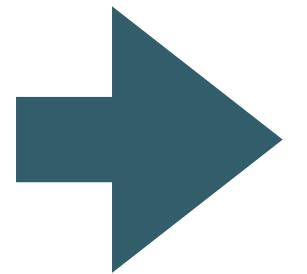
Front End Web
Development

Full Stack



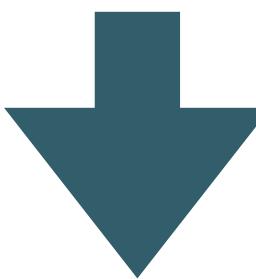


Assessment



Students will be given a comprehensive specification of an application - including a detailed grading rubric

Delivery Modes



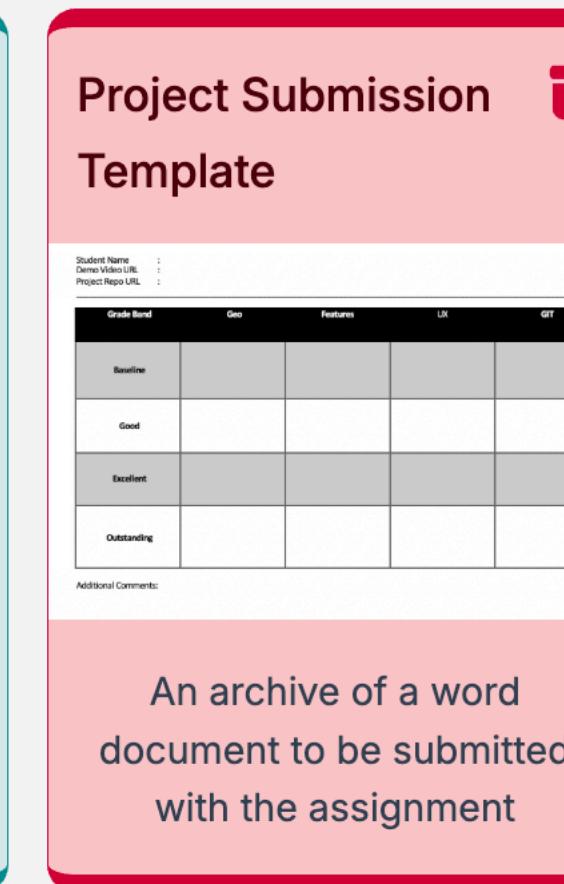
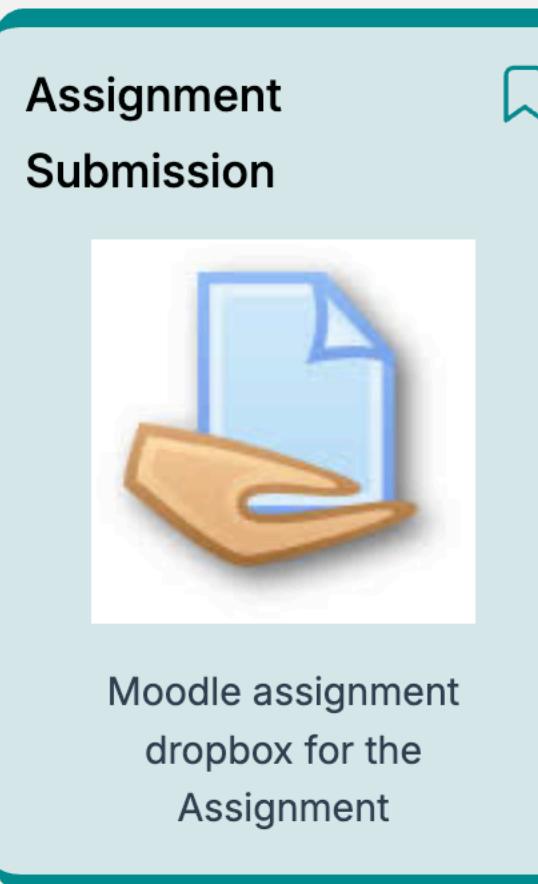
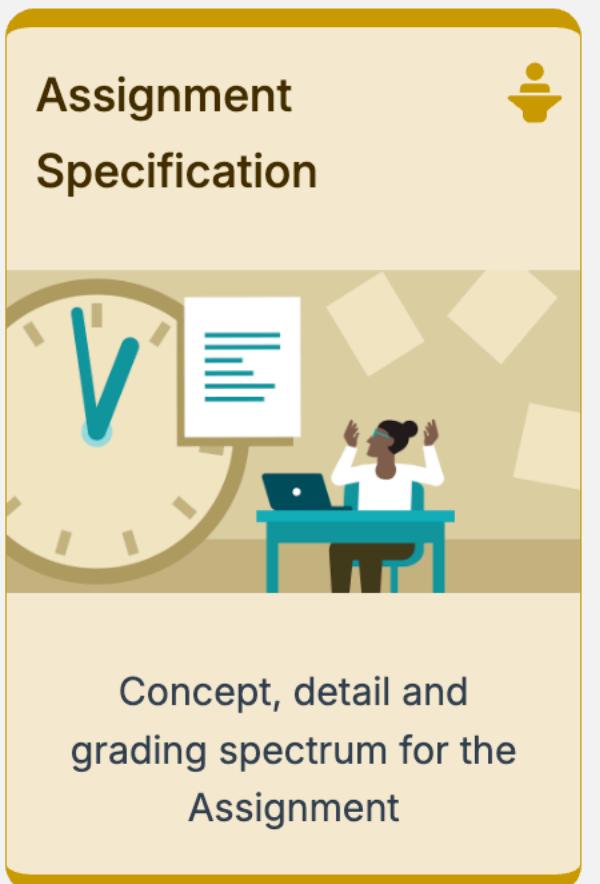
The projects will be submitted on GitHub, and will be a suitable candidate for the students personal portfolio

Students will prepare a demonstration video walking through the assignment in detail + an interview (Zoom)

Onsite classes in Regensburg -
October 21-30, 2025

Virtual classes will be via recorded
videos + laboratories + a
supervised Slack channel

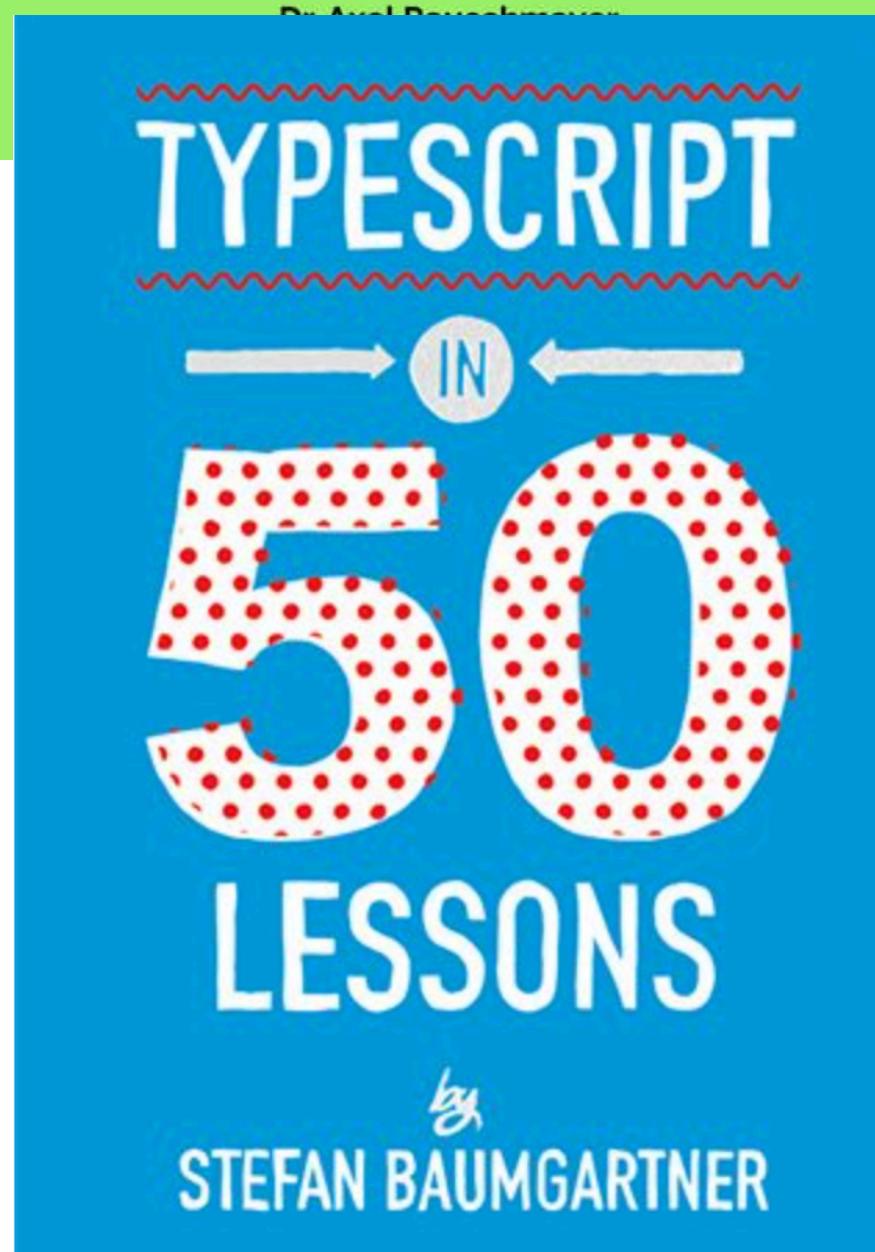
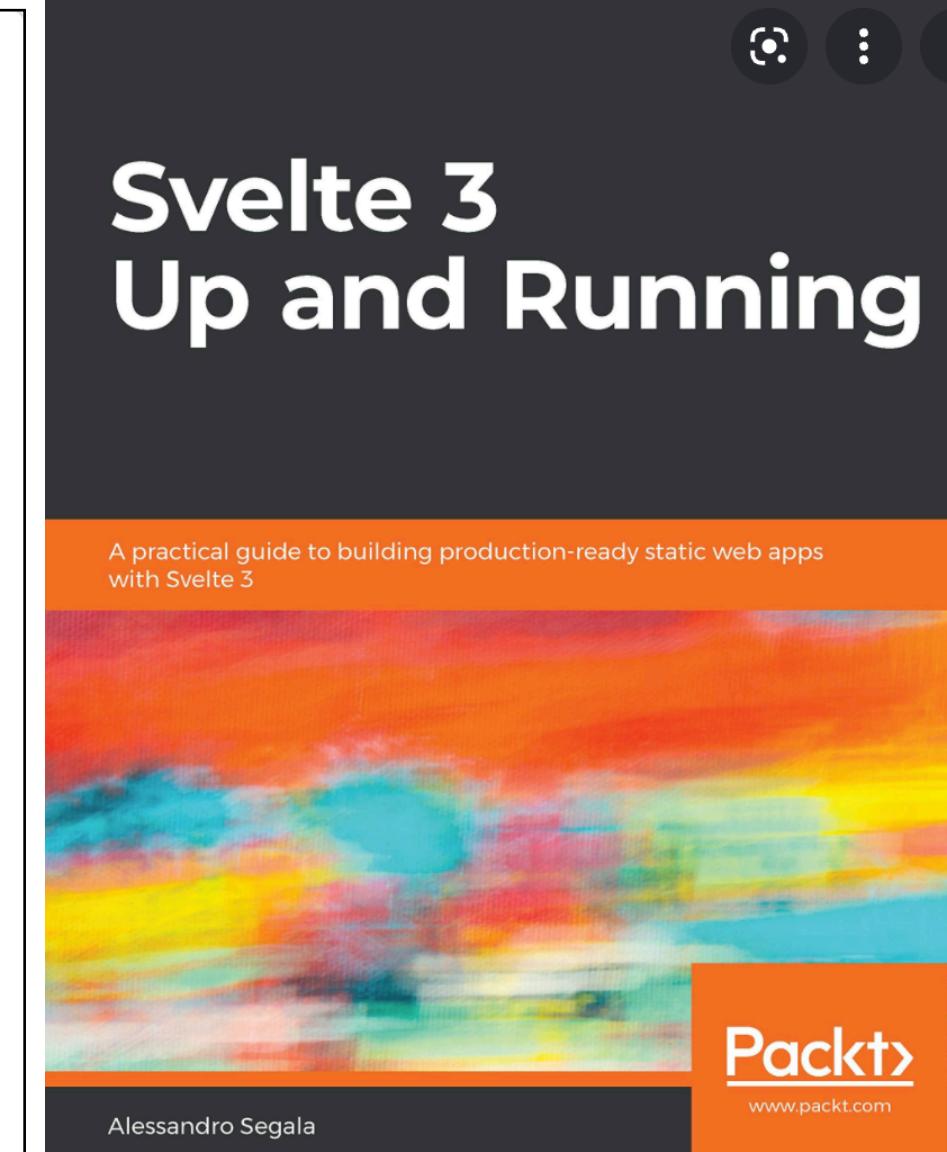
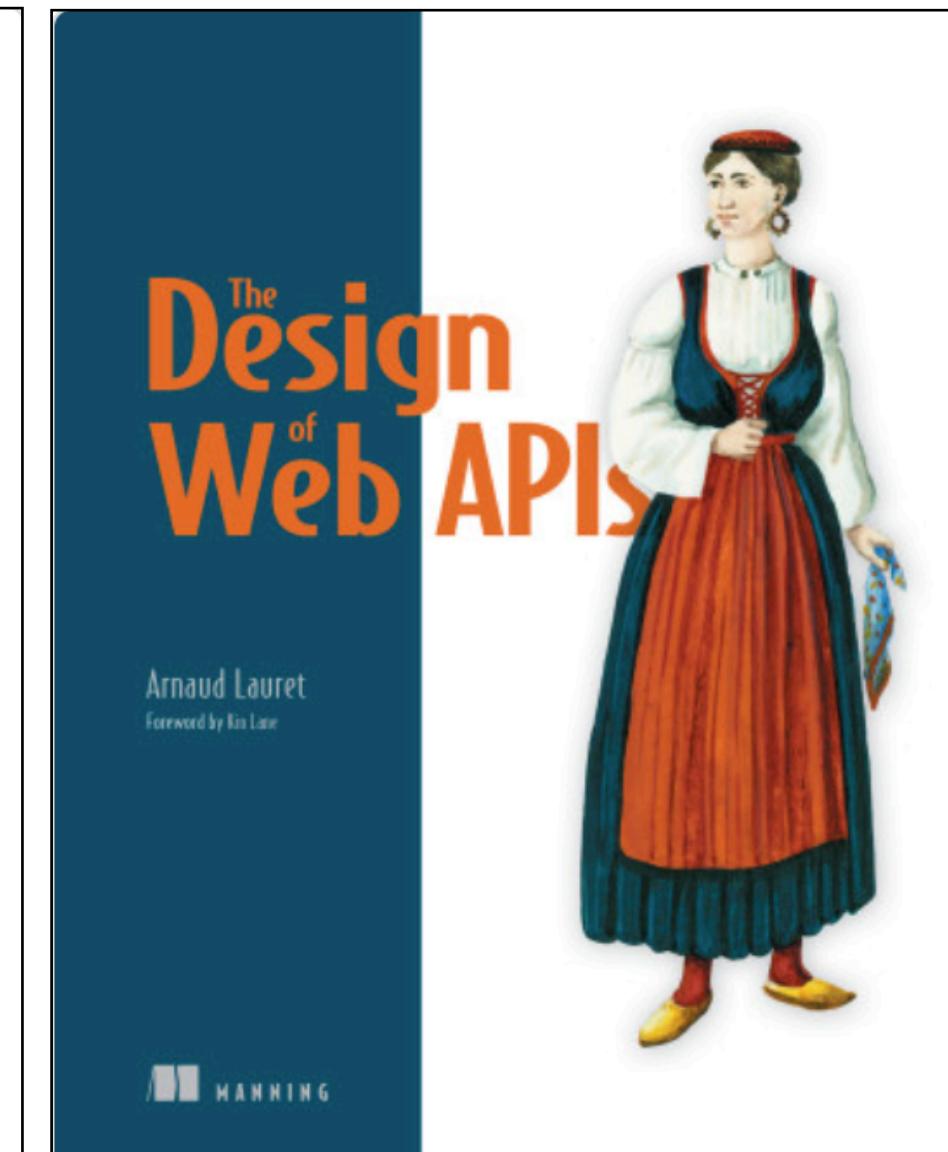
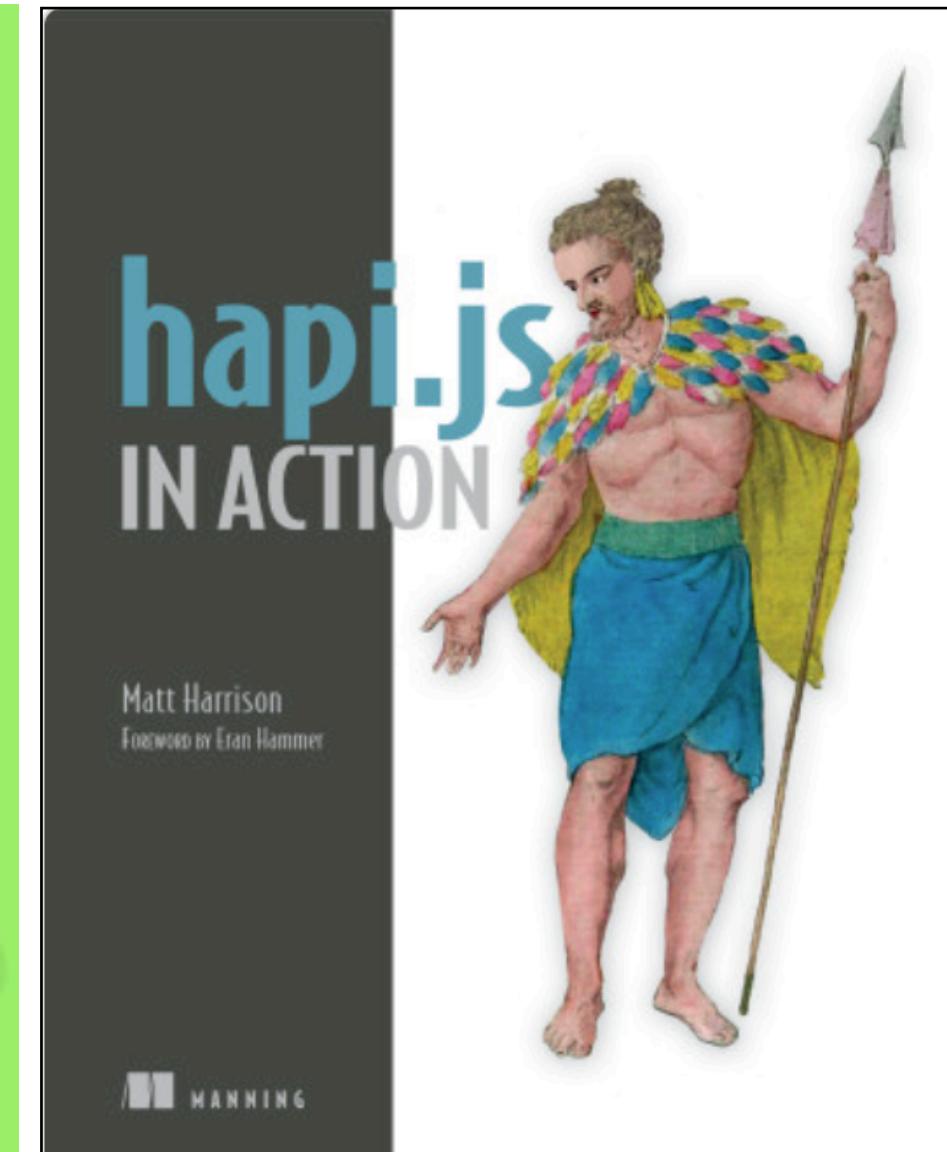
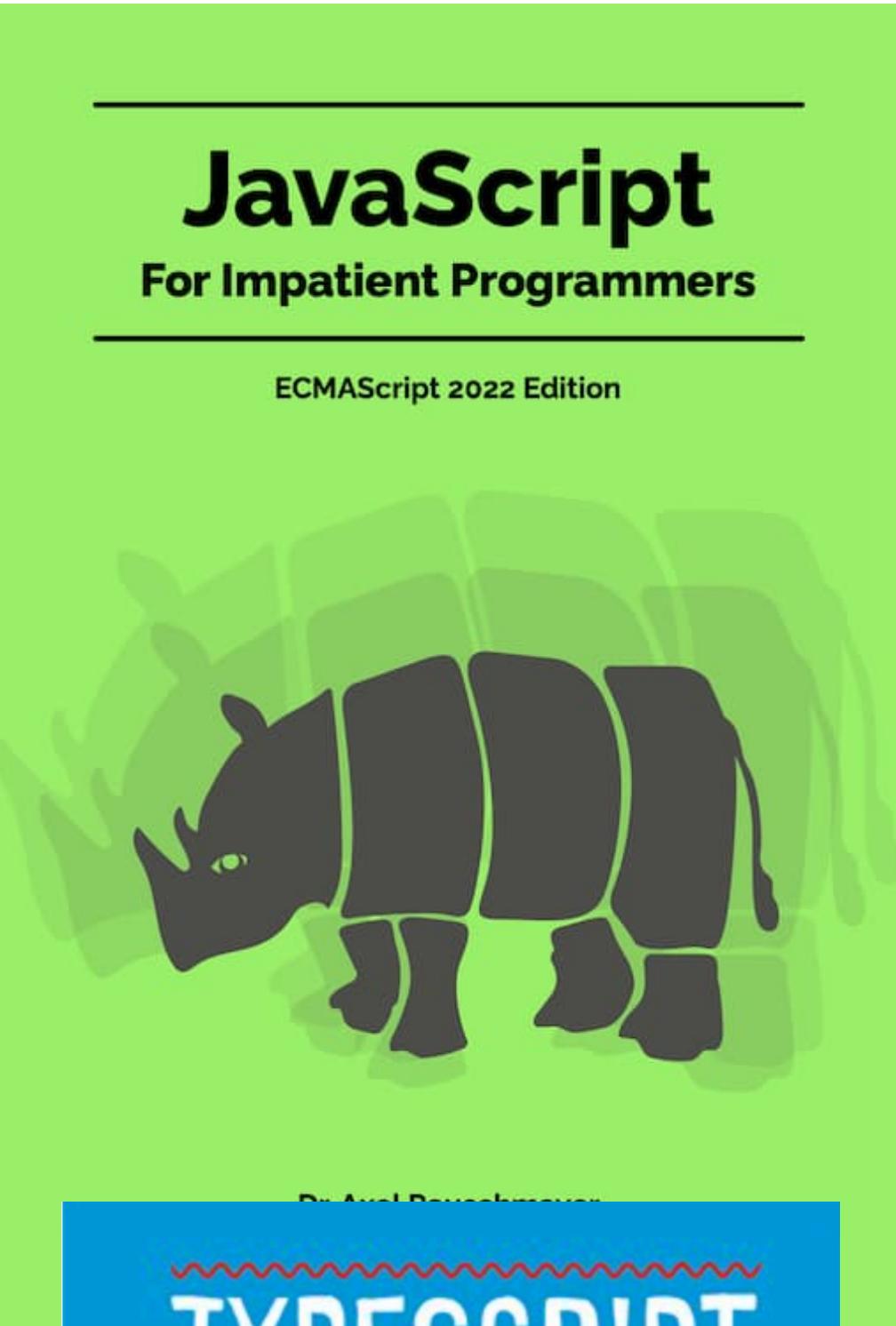
Assignment Specification



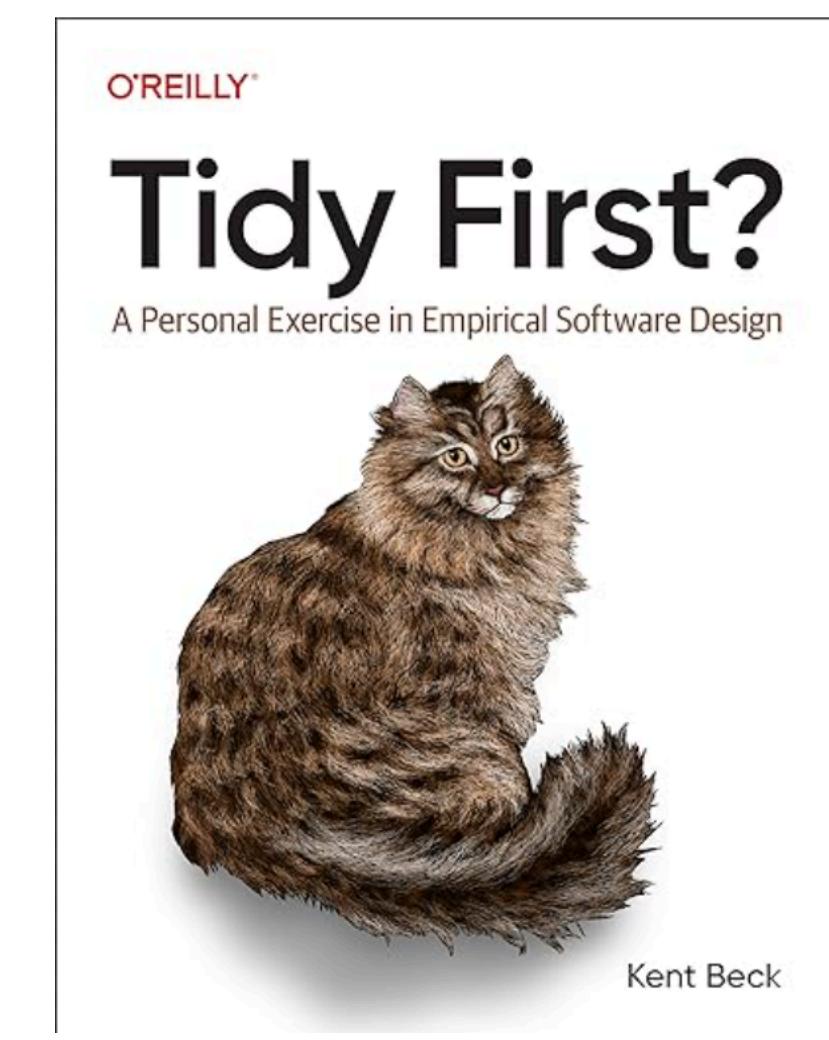
Onsite schedule October 21-30, 2025

	Tuesday 21	Wednesday 22	Thursday 23	Tuesday 28	Wednesday 29	Thursday 30
8:15-9:45	K223			K223		
10:00-11:30						
11:45-13:15			K223		K223	
13:45-15:15		K223	K223		K223	K223
15:30-17:00		K223	K223		K223	K223
17:15-18:45		K223			K223	

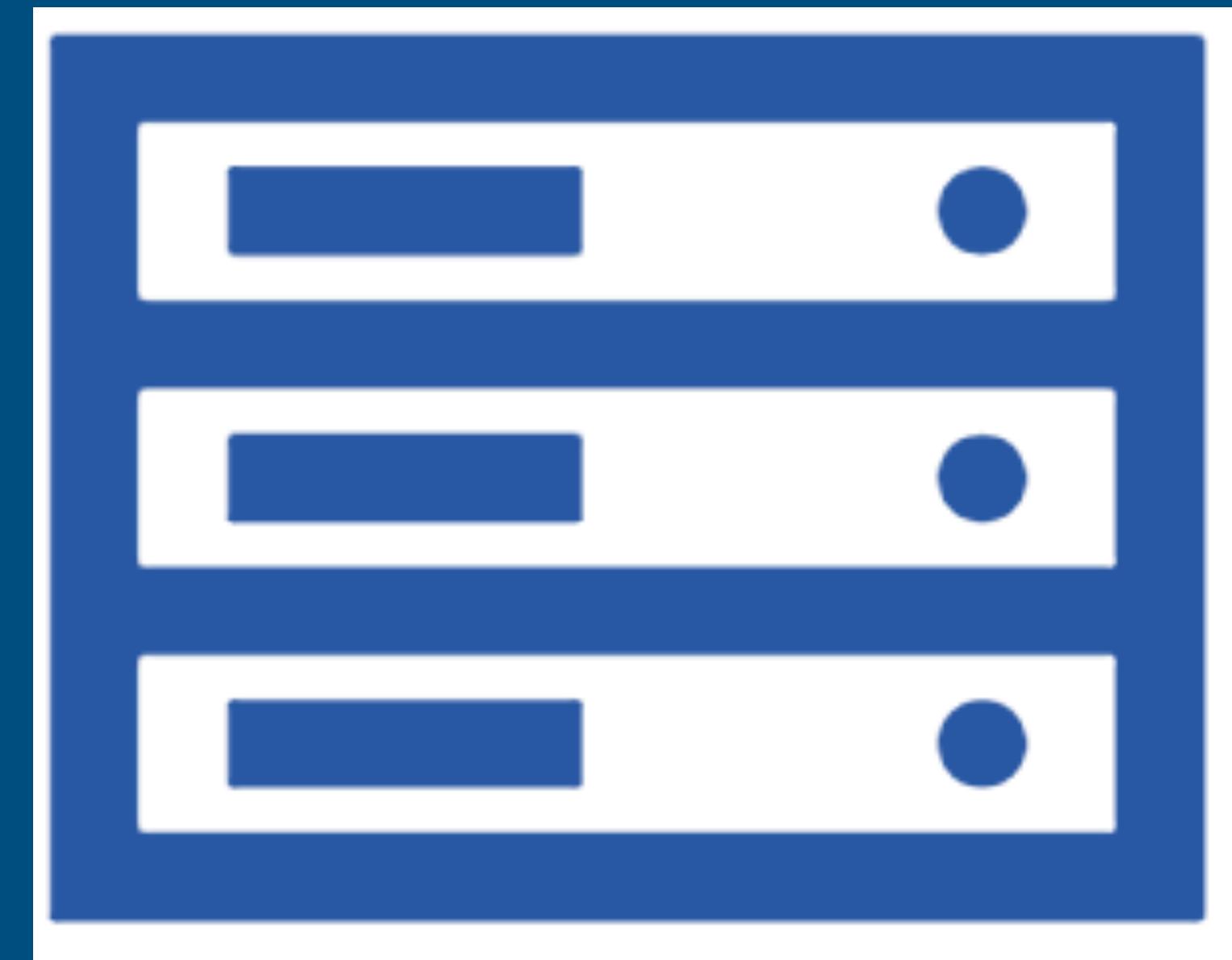




- <https://exploringjs.com/impatient-js/toc.html>
- <https://nodeweekly.com/>
- <https://javascriptweekly.com/>
- <https://frontendfoc.us/>
- <https://svelte.dev/blog>



Course Overview



Advanced Stack Web Development