

# Course Overview



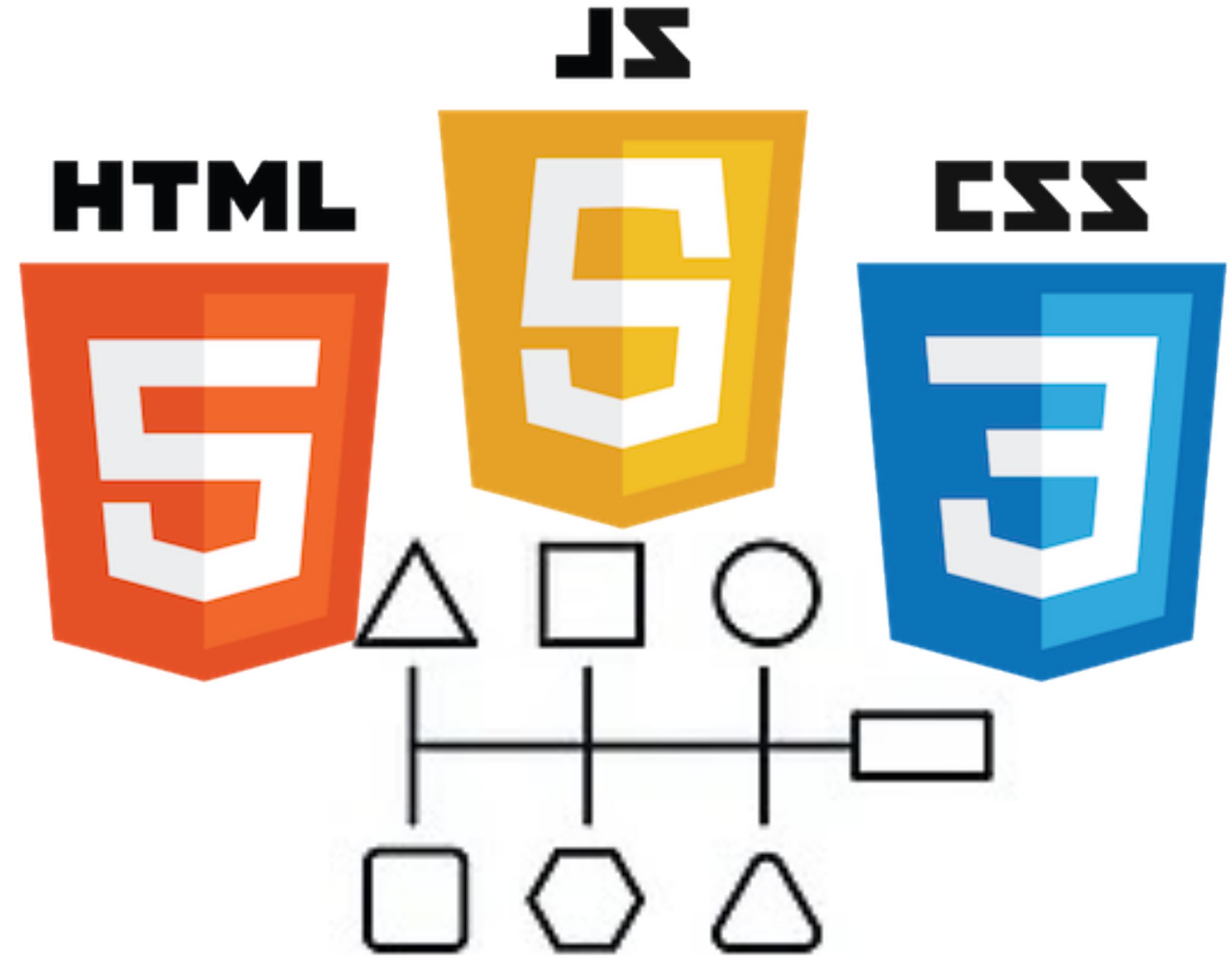
Full Stack Development 1

# Agenda

- Prerequisites
- Module Overview
- Components
- References

# 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)

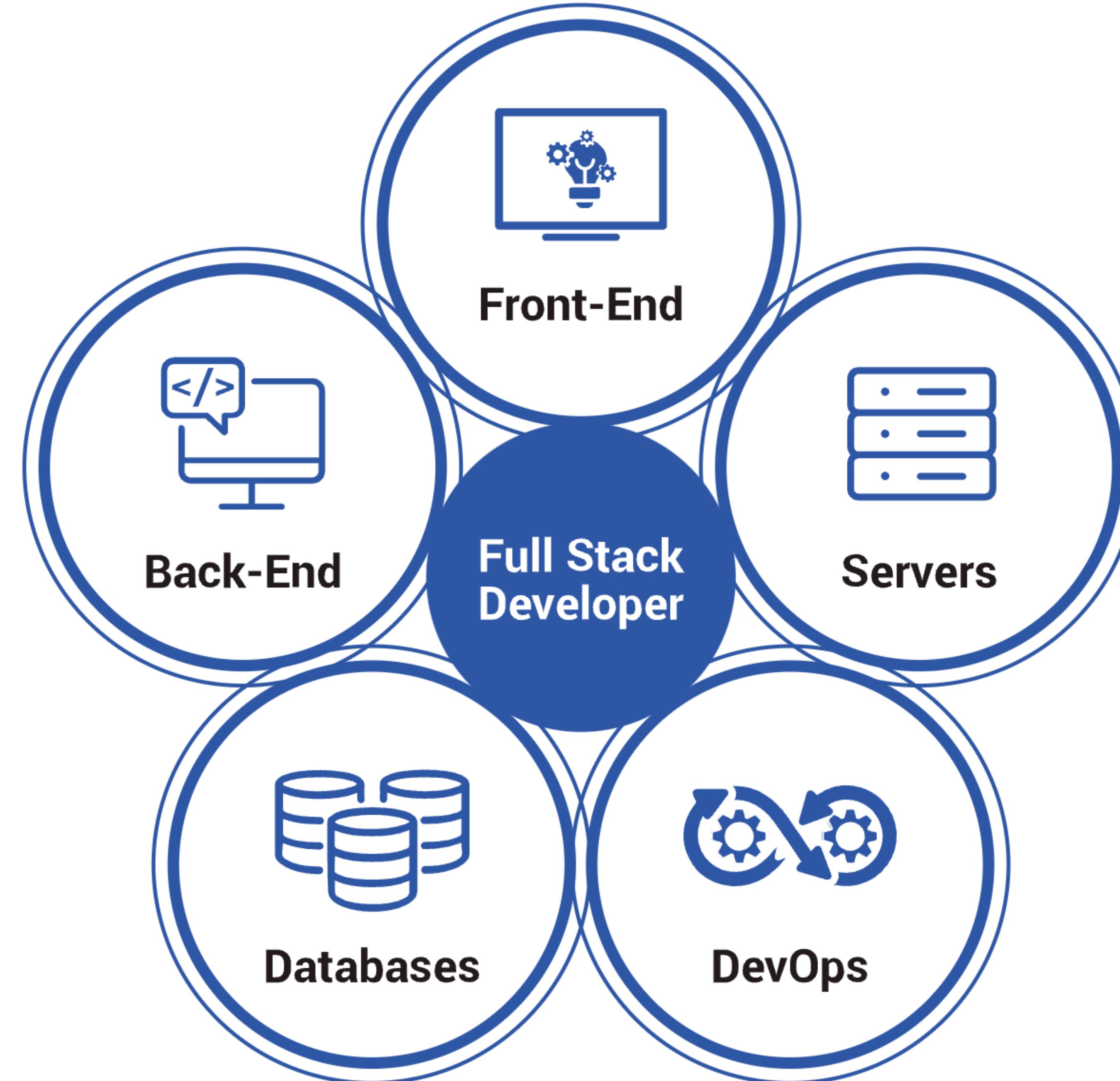
Back End Web  
Development

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 component of a back-end web development stack. From left to right:

- 01: Node**: Features the Node.js logo (a green hexagon with 'node' and 'js' in black) and the text "The fundamentals of Node. A first Node application."
- 02: Hapi.js**: Features the Hapi.js logo (a grey alien head with antennae) and the text "The Hapi application Framework".
- 03: Joi**: Features the Joi logo (a paintbrush with white paint) and the text "Validation with Joi".
- 05: Models**: Features a blue folder icon containing three blue cubes and the text "Incorporate Mongo Models".

# Back End Web Development

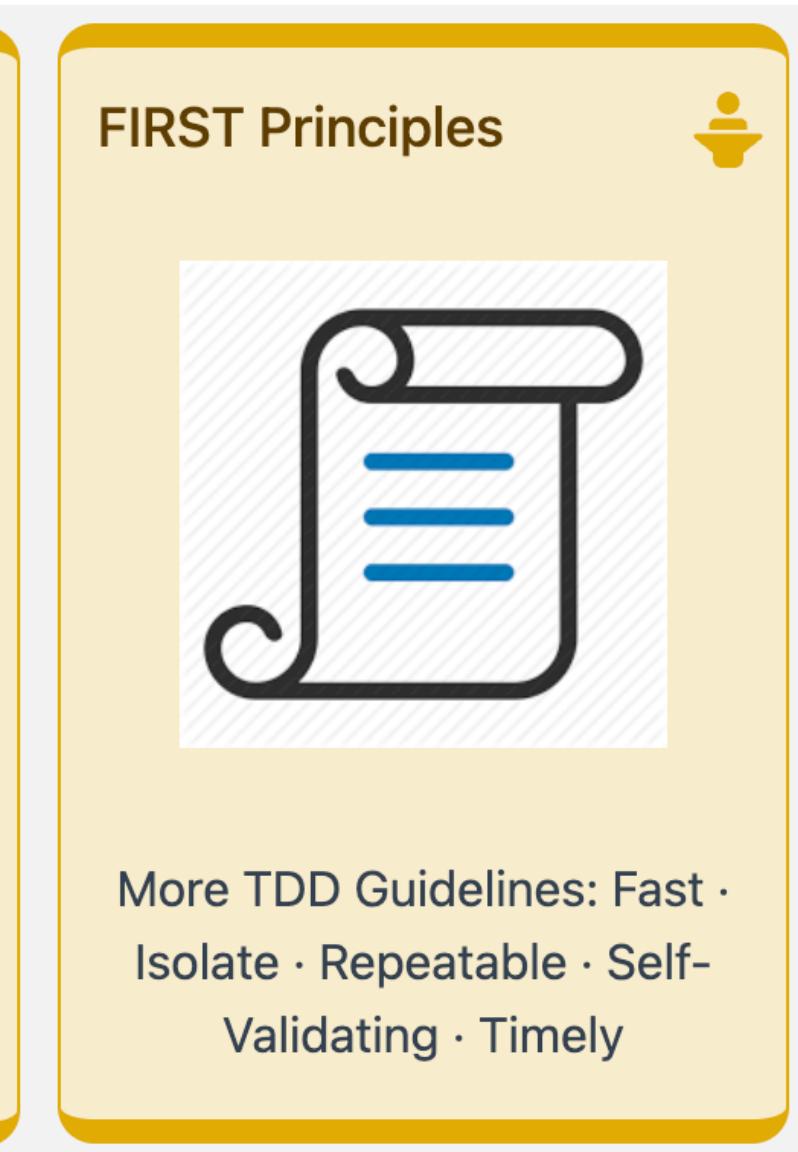
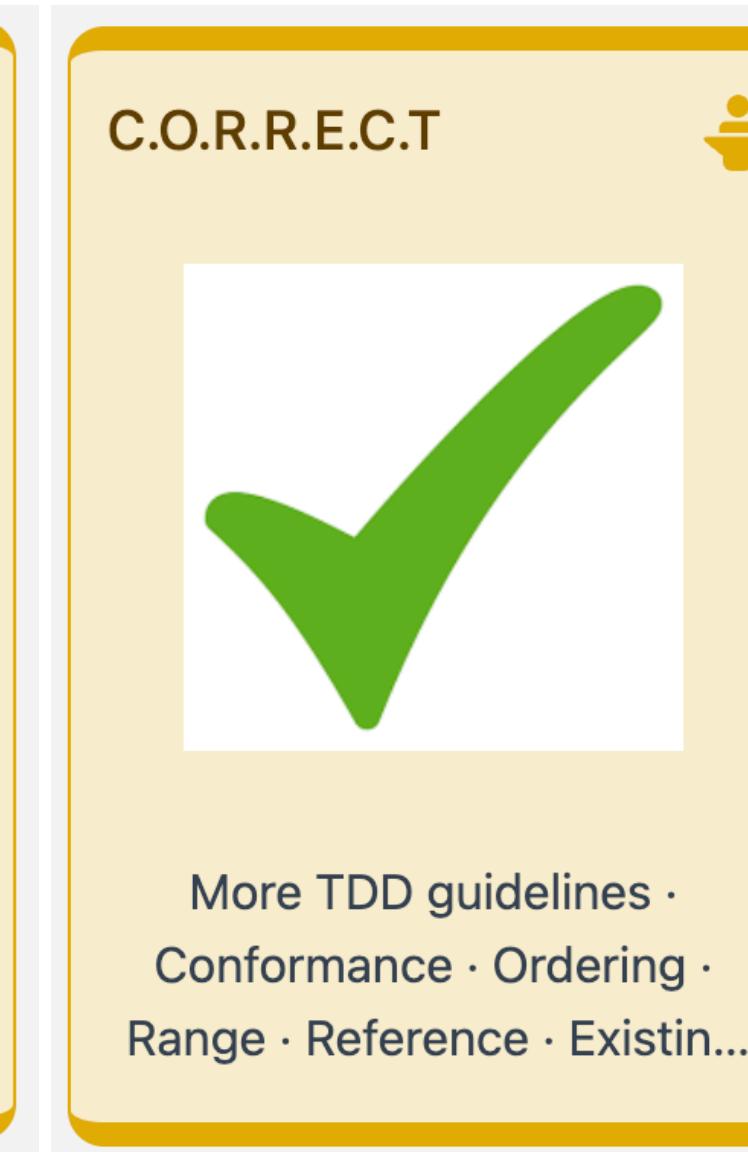
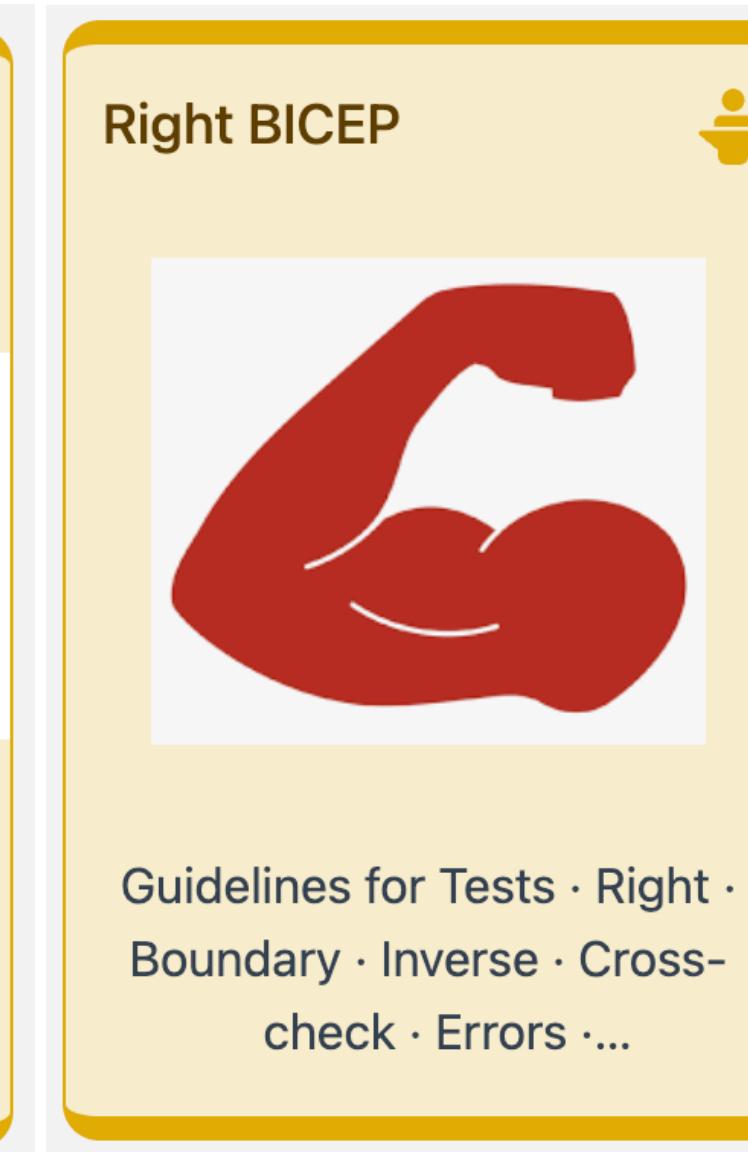
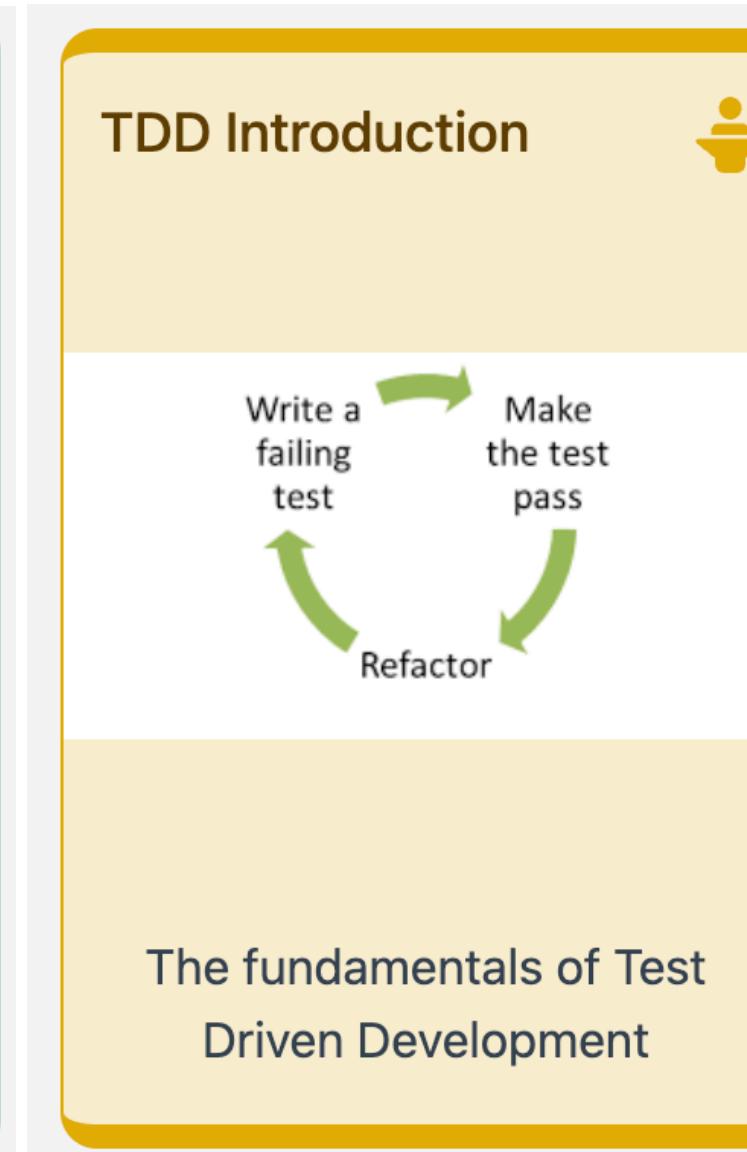
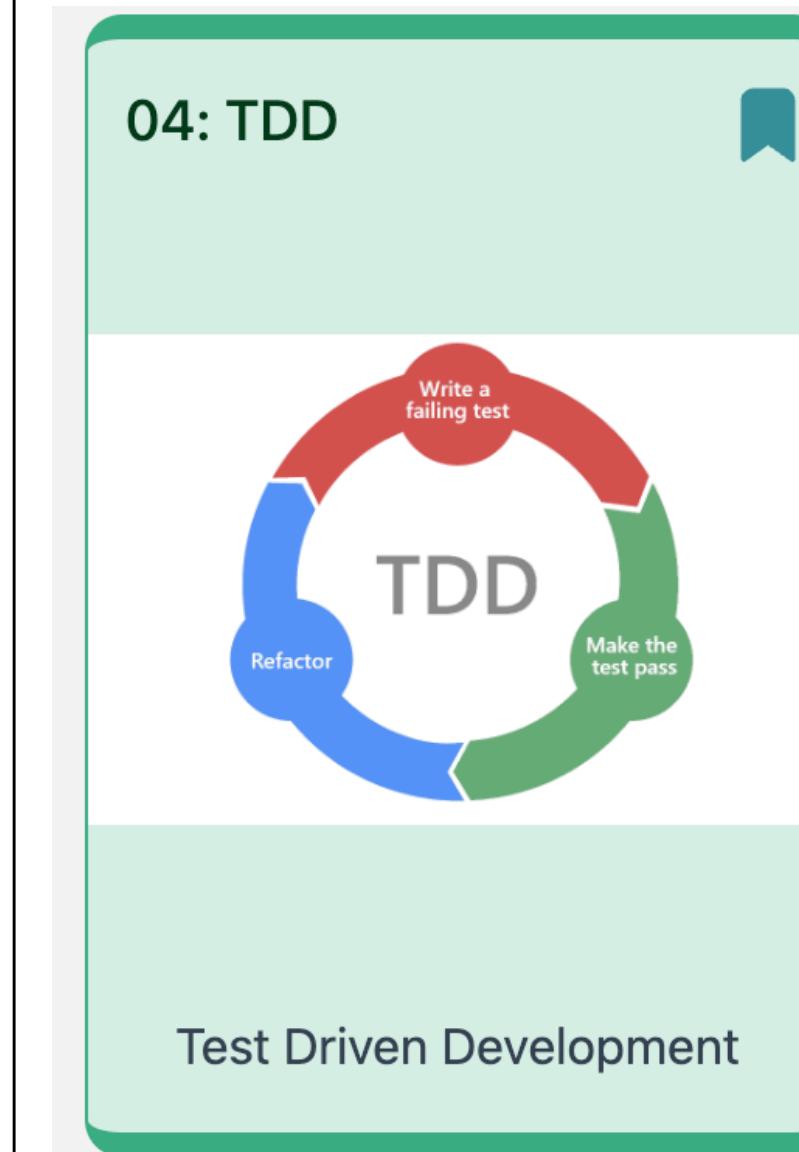
## **Test Driven Development**

Application Programmer Interfaces

# Front End Web Development

Full Stack

Core  
Concepts



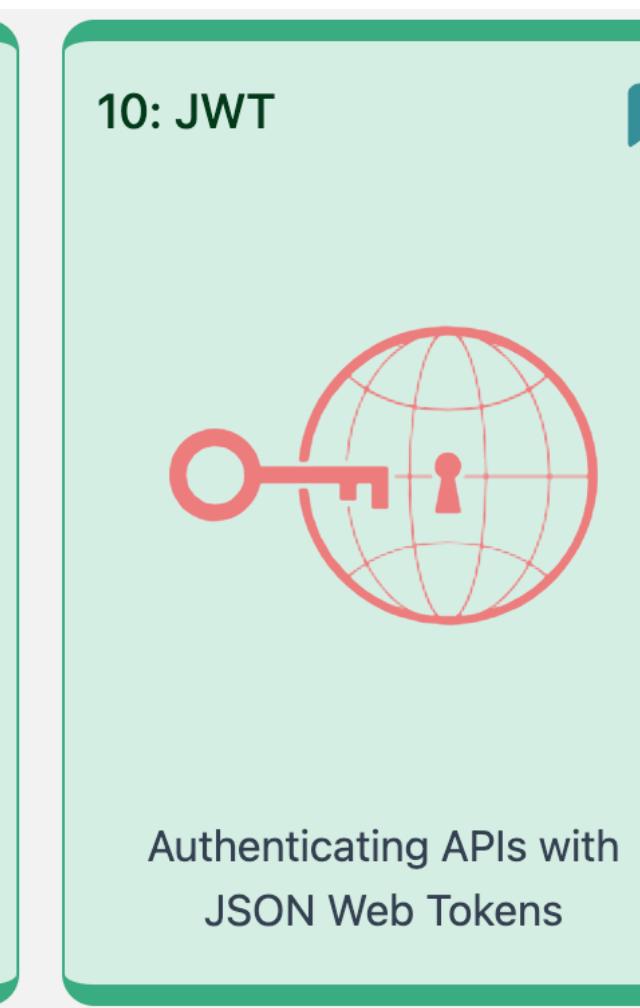
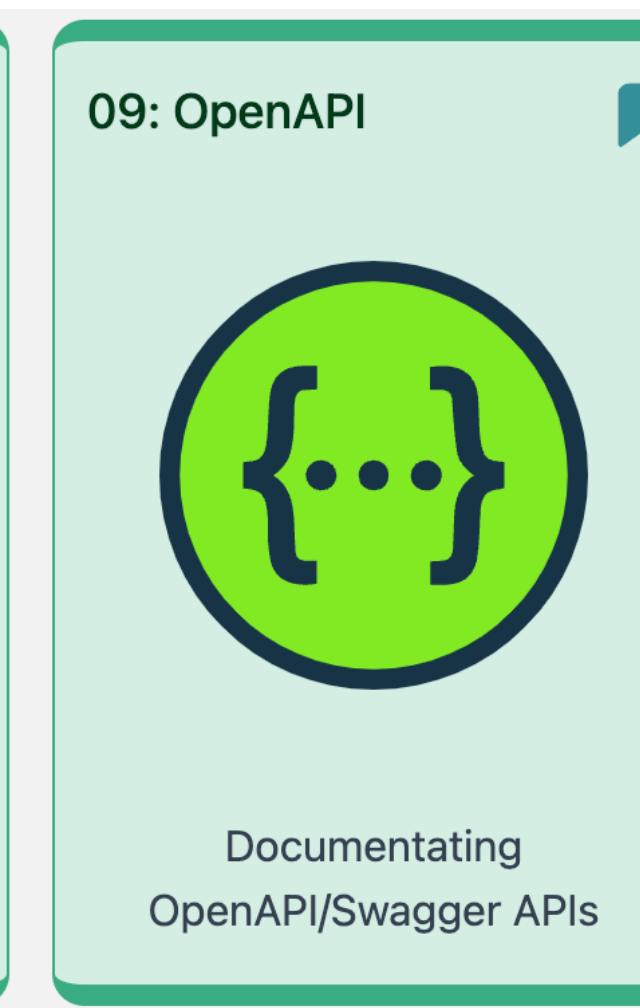
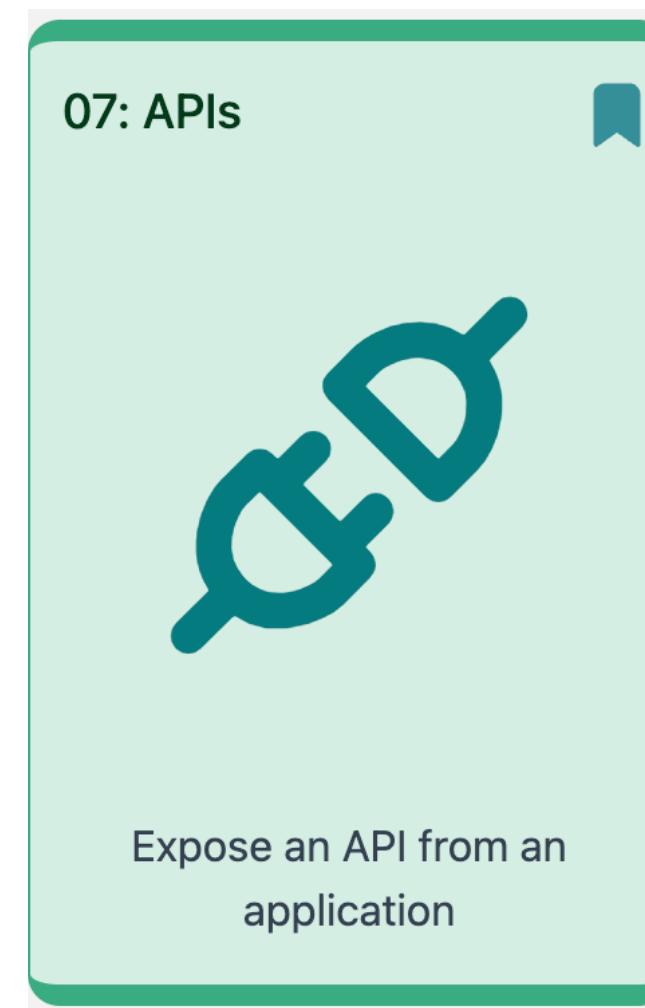
Back End Web  
Development

Test Driven  
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

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

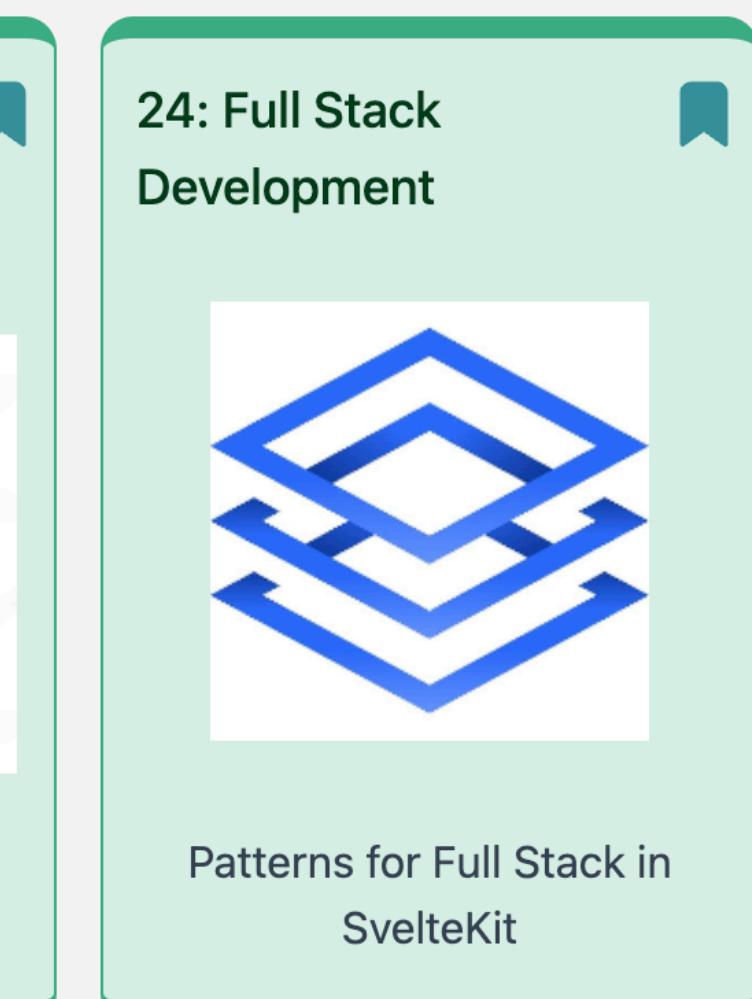
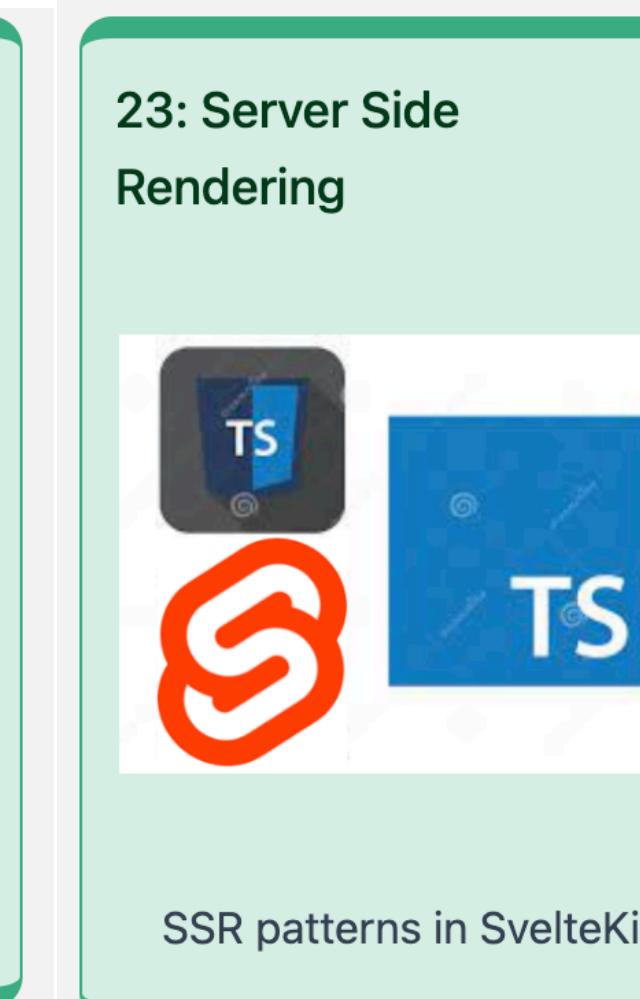
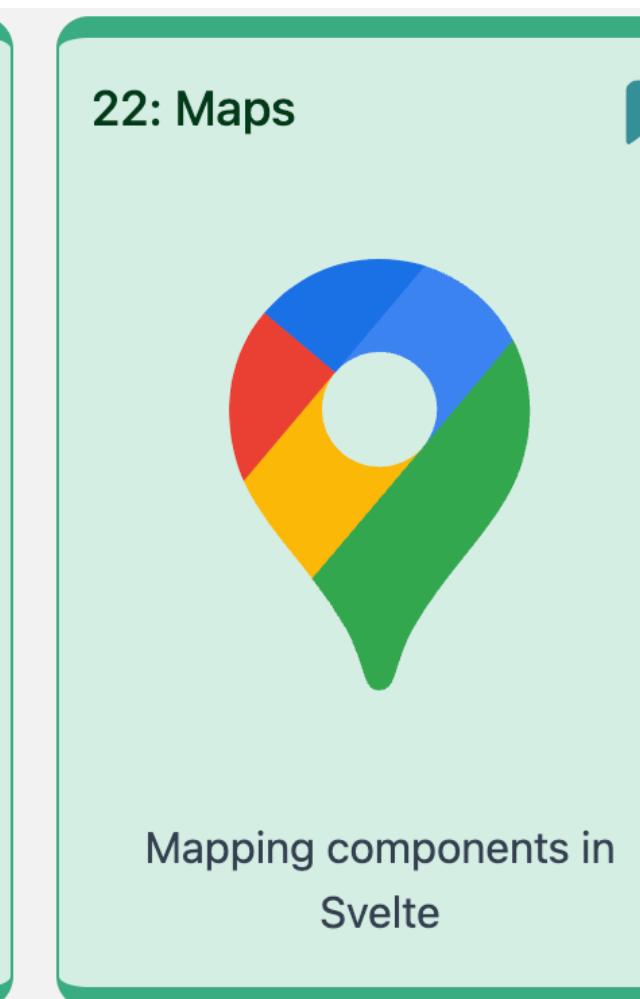
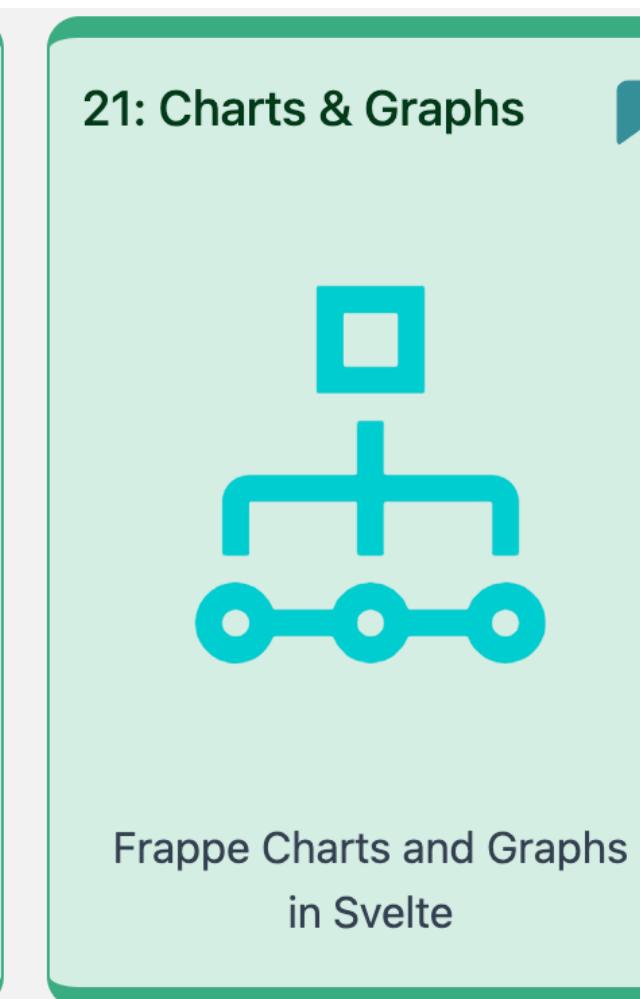
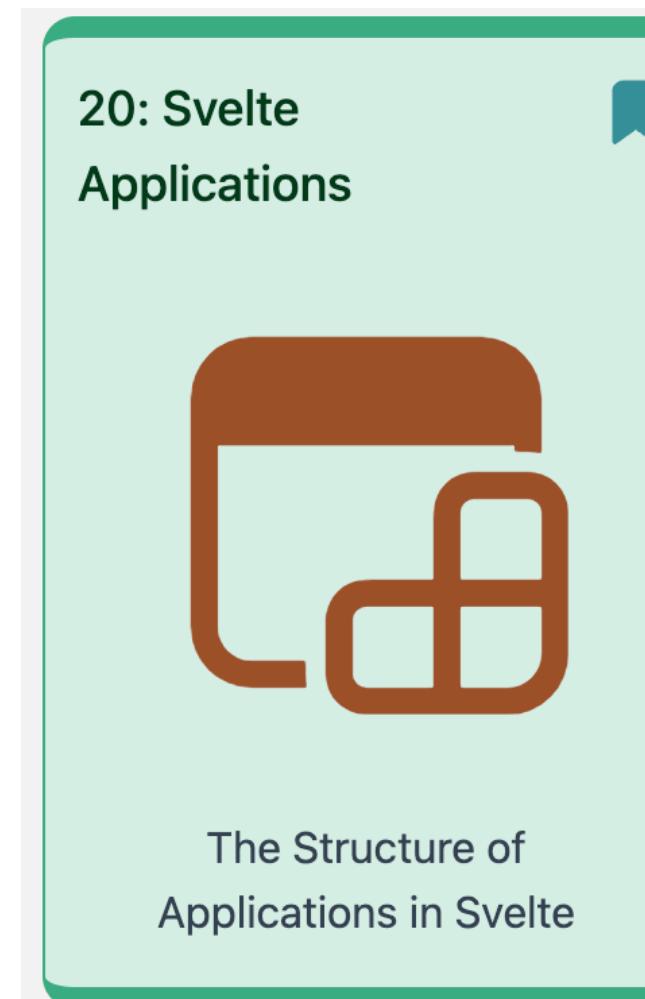
Back End Web  
Development

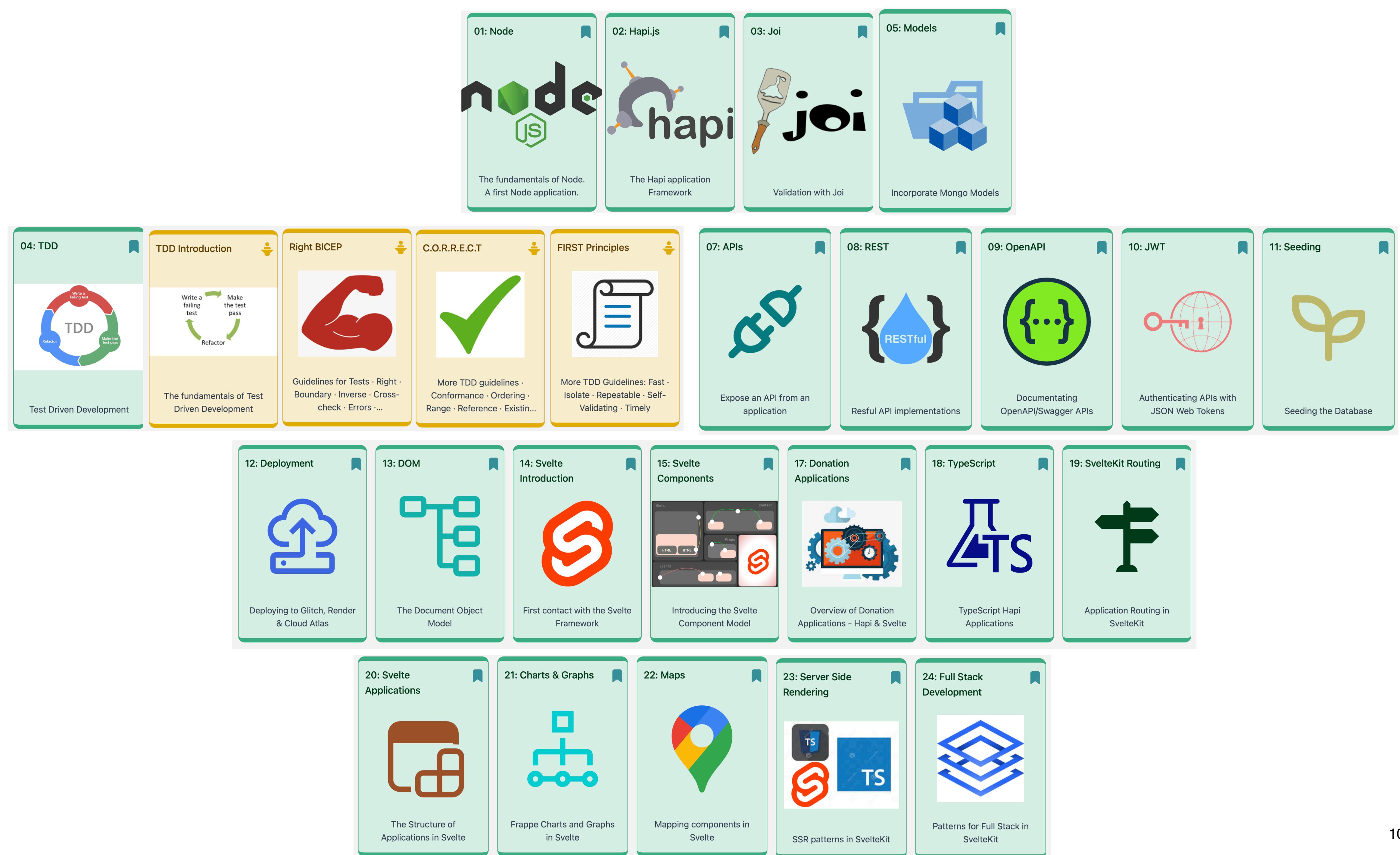
Test Driven  
Development

Application  
Programmer  
Interfaces

Front End Web  
Development

**Full Stack**

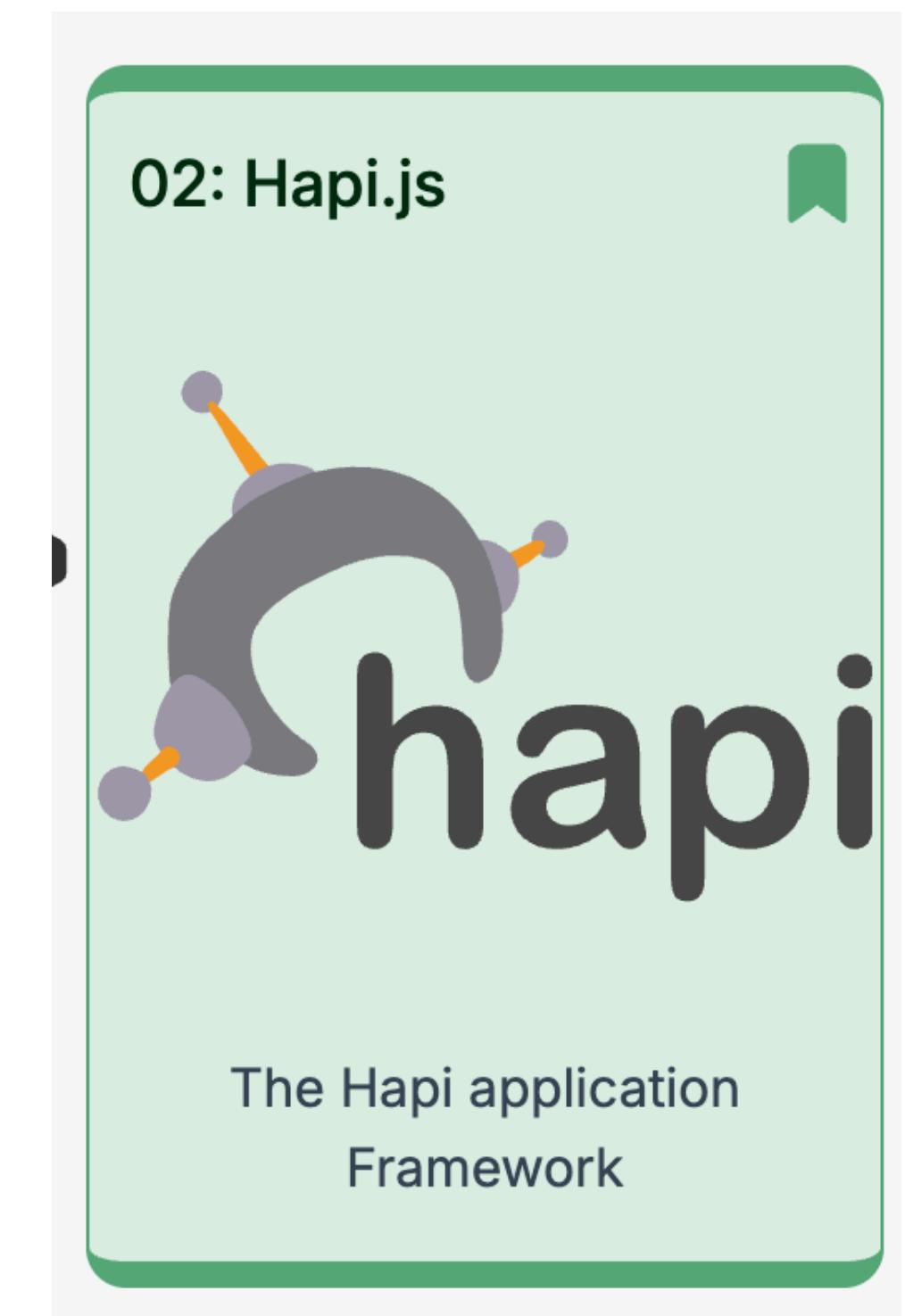




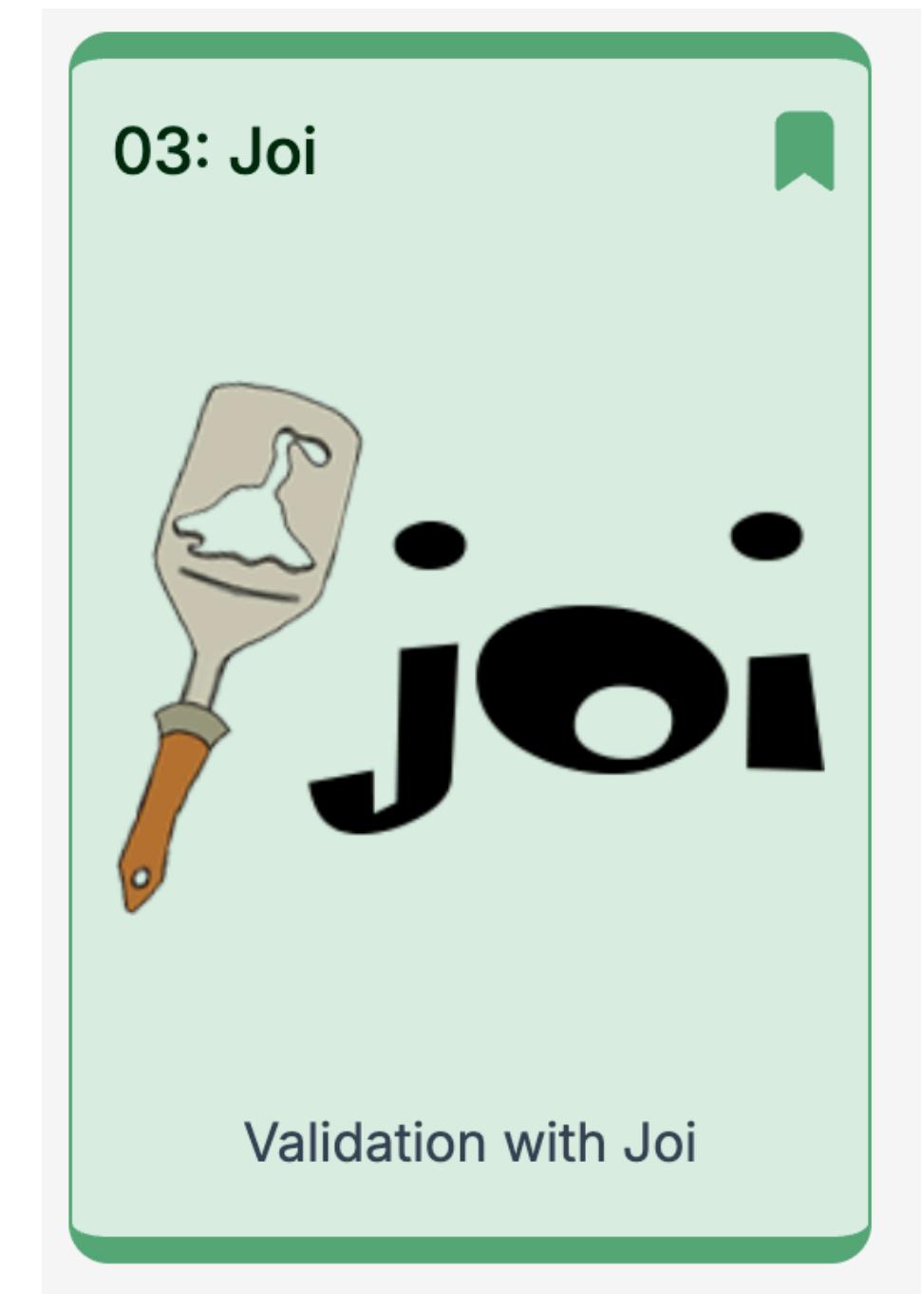
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APR	EASTER 2	5	6	7	8	9	10
	9	12	13	14	15	16	17
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MAY	11	26	27	28	29	30	31
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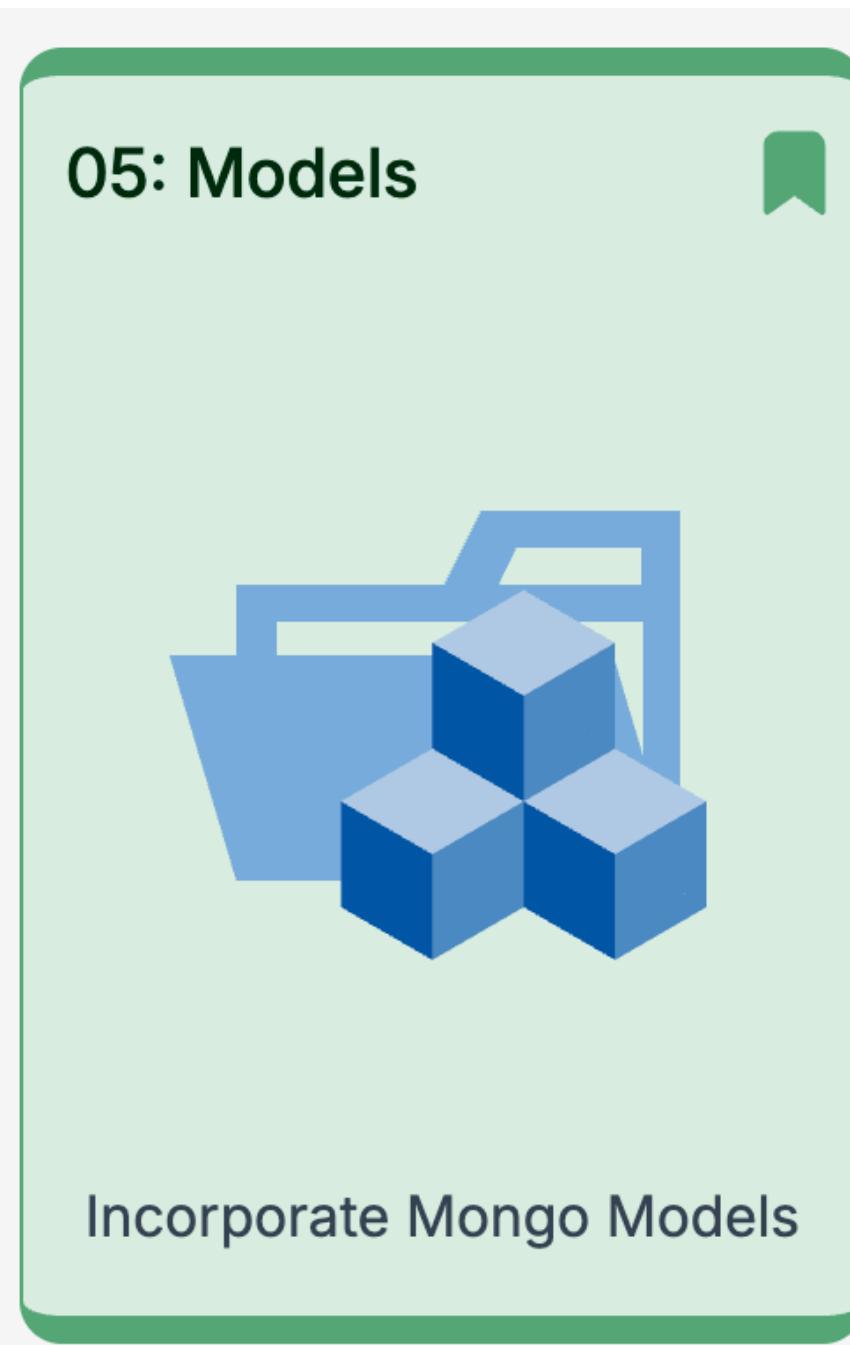
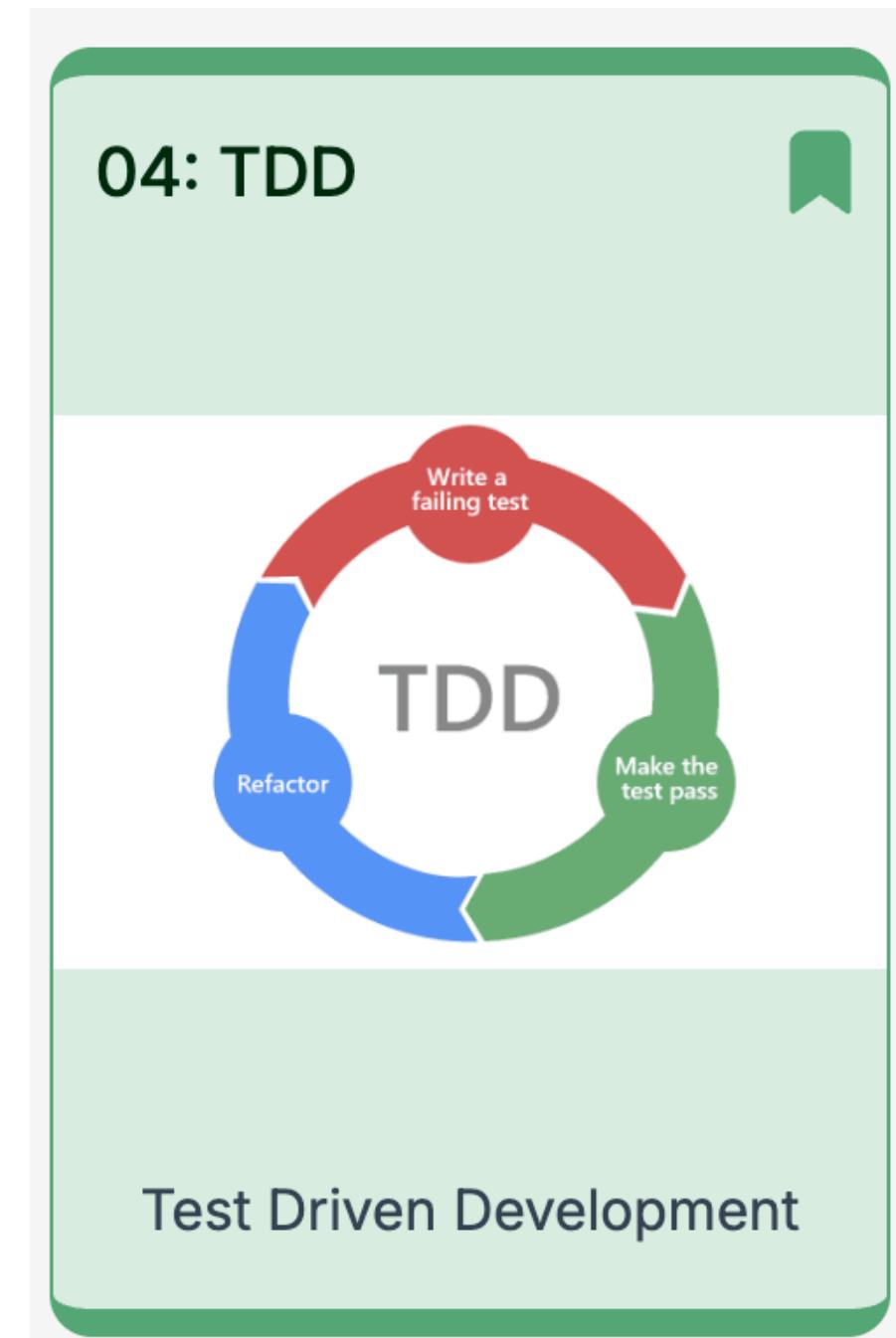
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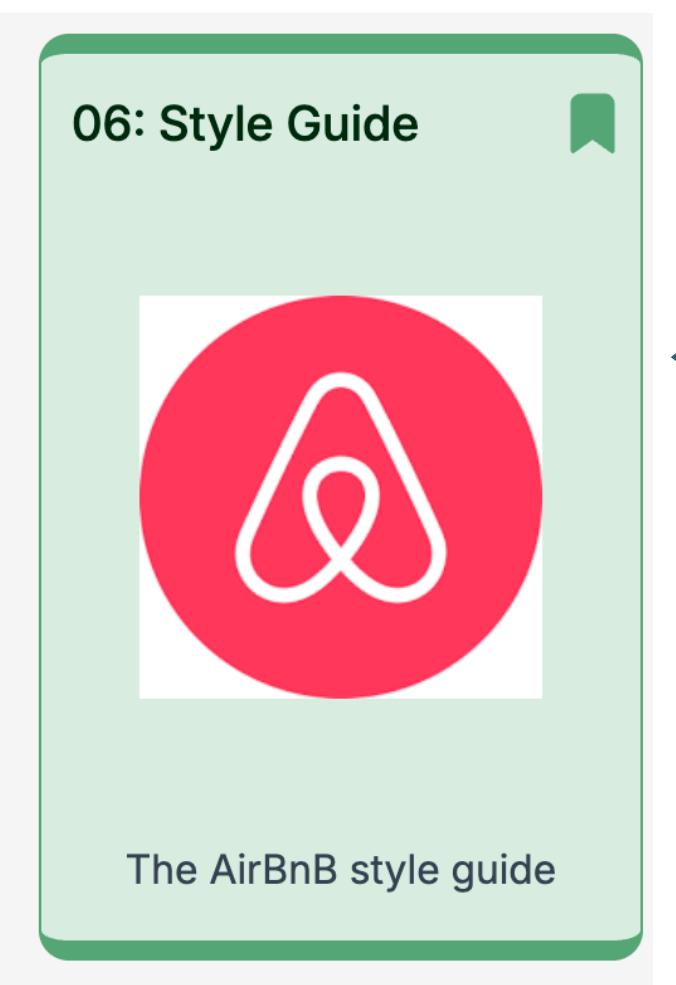
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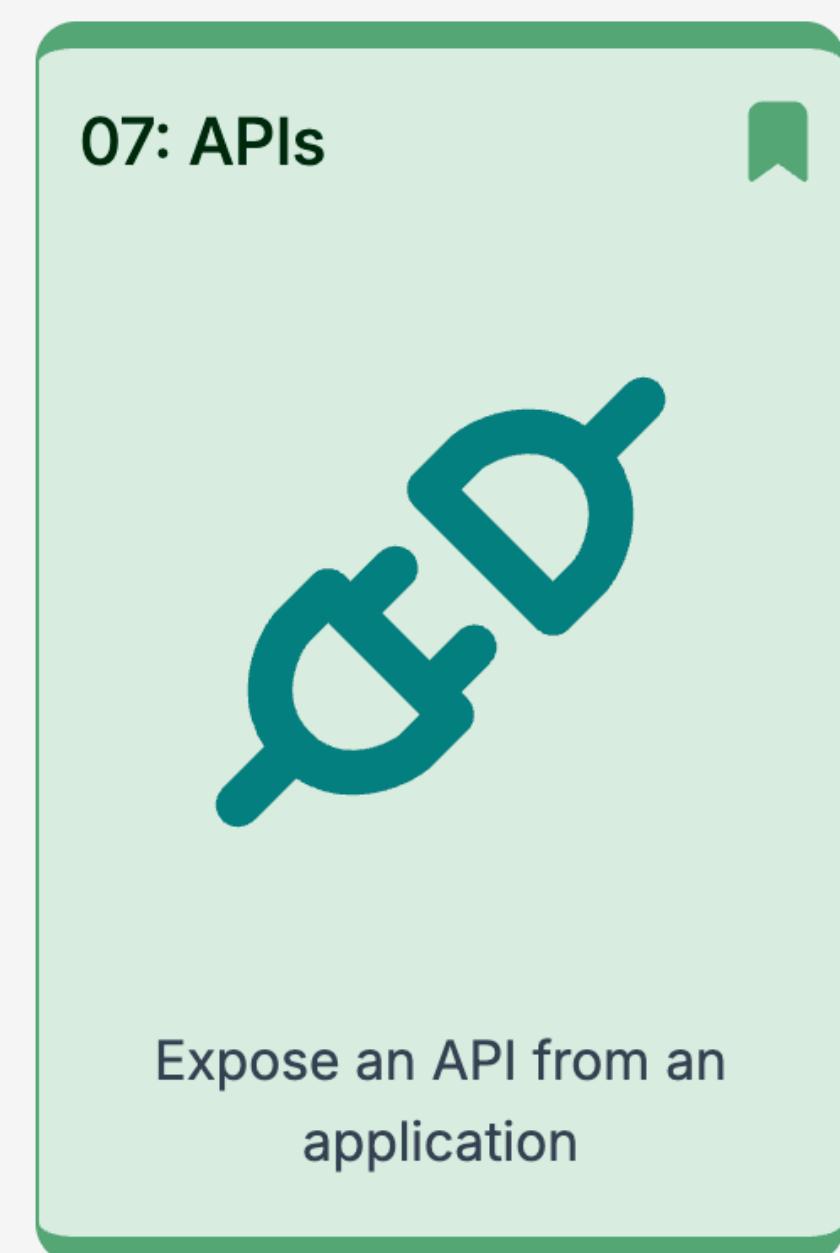
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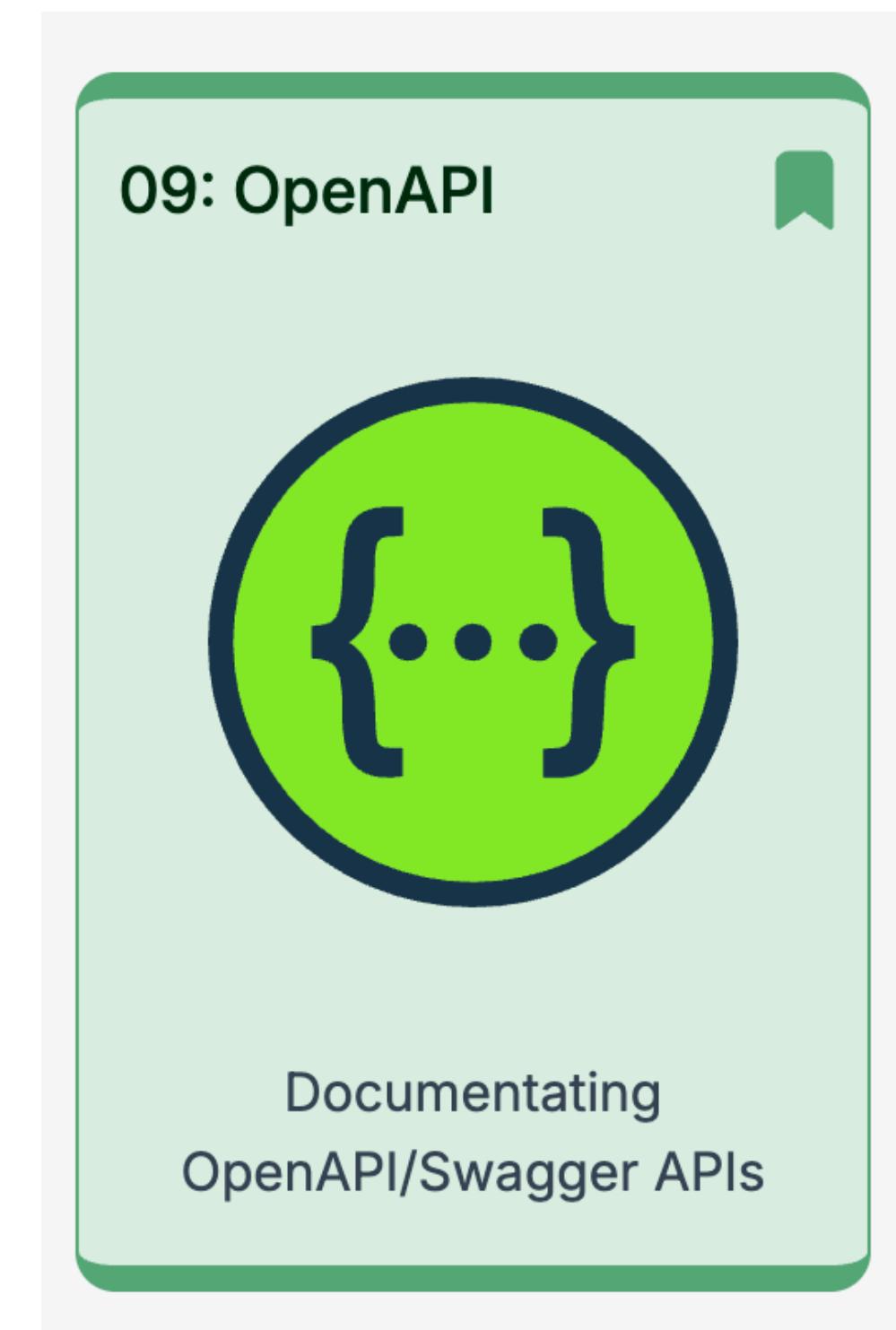
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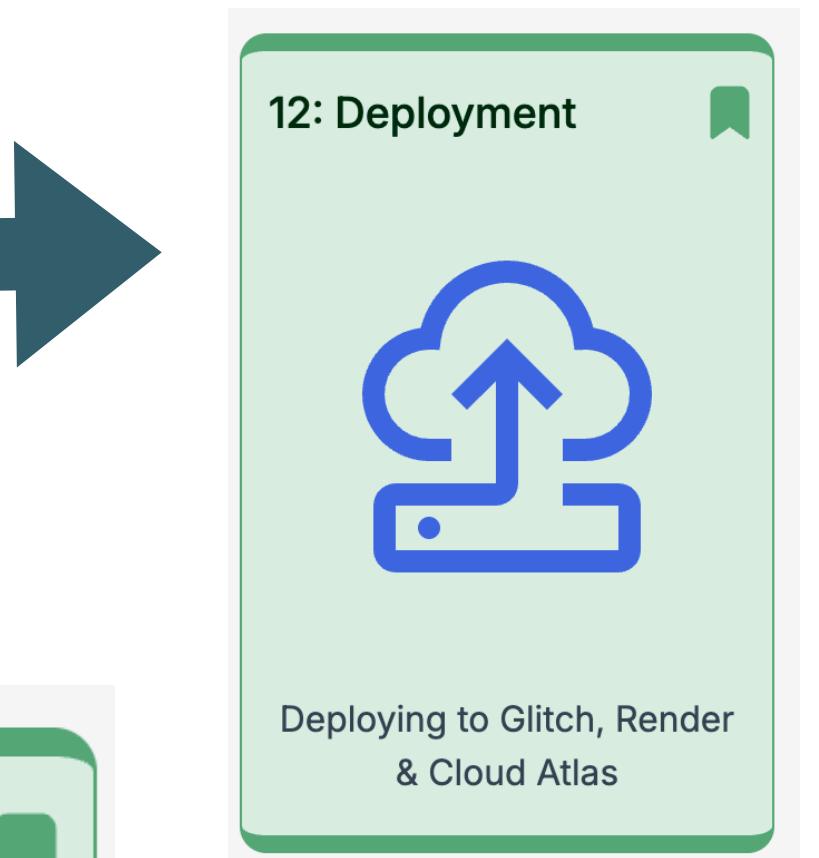
Independent study



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# Independent study



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10: JWT

Authenticating APIs with JSON Web Tokens

11: Seeding

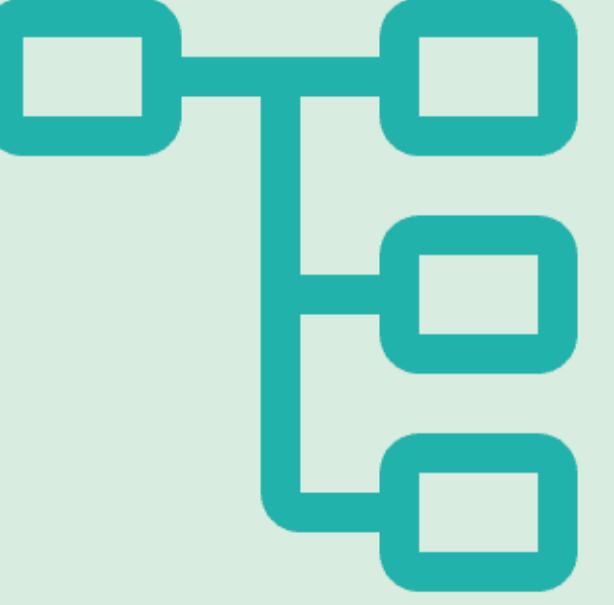
Seeding the Database

13: Assignment

Concept, detail and grading rubric

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	EXAM	10	11	12	13	14	15
	EXAM	17	18	19	20	21	22

**14: DOM**



The Document Object Model

**15: Svelte Introduction**



First encounters with the Svelte Framework

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JAN	WEEK	11	12	13	14	15	16
	1	18	19	20	21	22	23
	2	25	26	27	28	29	30
FEB	3	1	2	3	4	5	6
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MAY	11	26	27	28	29	30	31
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	EXAM	17	18	19	20	21	22

## 16. Svelte Components



Introducing the Svelte Component Model

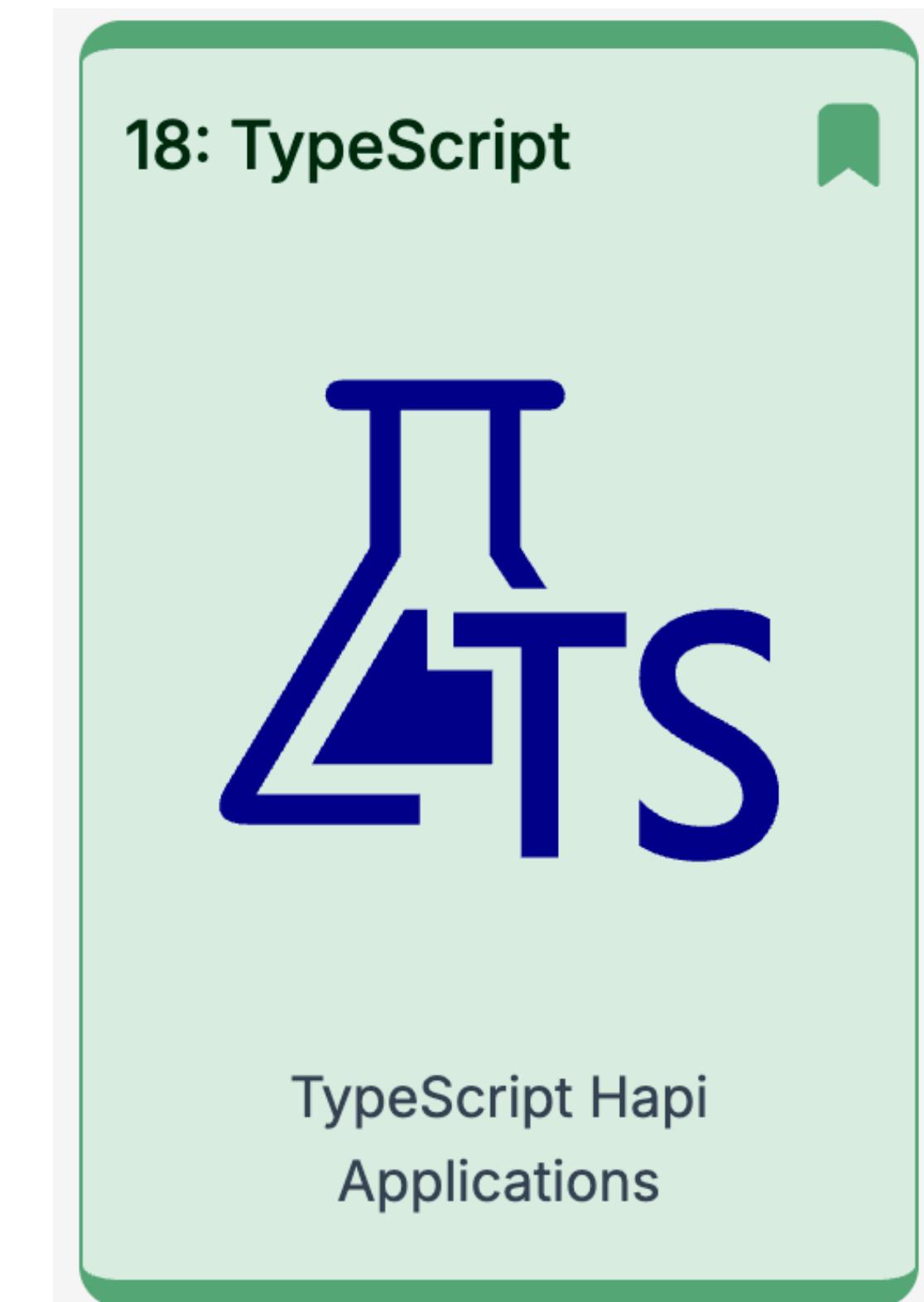
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## 17: Donation Applications



Overview of Donation Applications - Hapi & Svelte

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		S	M	T	W	T	F
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19: SvelteKit

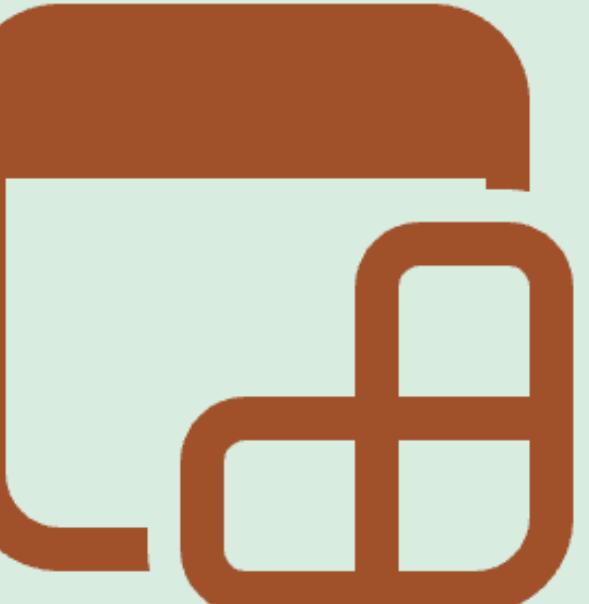
Routing



Application Routing in SvelteKit

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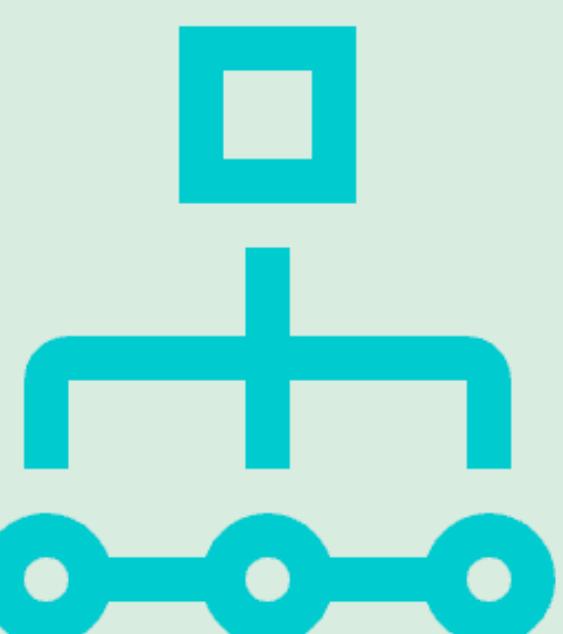
## 20: Svelte Applications



The Structure of Applications in Svelte

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	2	25	26	27	28	29	30
FEB	3	1	2	3	4	5	6
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## 21: Charts & Graphs



Frappe Charts and Graphs  
in Svelte

		S	M	T	W	T	F
JAN	WEEK	11	12	13	14	15	16
	1	18	19	20	21	22	23
	2	25	26	27	28	29	30
FEB	3	1	2	3	4	5	6
	4	8	9	10	11	12	13
	READING	15	16	17	18	19	20
	5	22	23	24	25	26	27
MAR	6	1	2	3	4	5	6
	READING	8	9	10	11	12	13
	7	15	16	17	18	19	20
	8	22	23	24	25	26	27
	EASTER 1	29	30	31	1	2	3
APR	EASTER 2	5	6	7	8	9	10
	9	12	13	14	15	16	17
	10	19	20	21	22	23	24
MAY	11	26	27	28	29	30	31
	12	3	4	5	6	7	8
	EXAM	10	11	12	13	14	15
	EXAM	17	18	19	20	21	22

## 22: Maps



Mapping components in Svelte

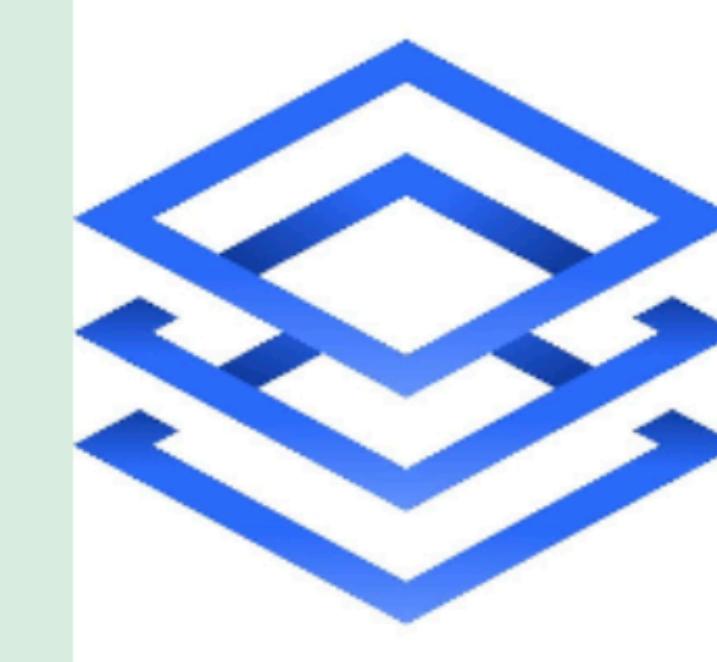
		S	M	T	W	T	F
JAN	WEEK	11	12	13	14	15	16
	1	18	19	20	21	22	23
	2	25	26	27	28	29	30
FEB	3	1	2	3	4	5	6
	4	8	9	10	11	12	13
	READING	15	16	17	18	19	20
	5	22	23	24	25	26	27
MAR	6	1	2	3	4	5	6
	READING	8	9	10	11	12	13
	7	15	16	17	18	19	20
	8	22	23	24	25	26	27
EASTER 1	29	30	31	1	2	3	
APR	EASTER 2	5	6	7	8	9	10
	9	12	13	14	15	16	17
	10	19	20	21	22	23	24
MAY	11	26	27	28	29	30	31
	12	3	4	5	6	7	8
	EXAM	10	11	12	13	14	15
	EXAM	17	18	19	20	21	22

**23: Server Side Rendering**



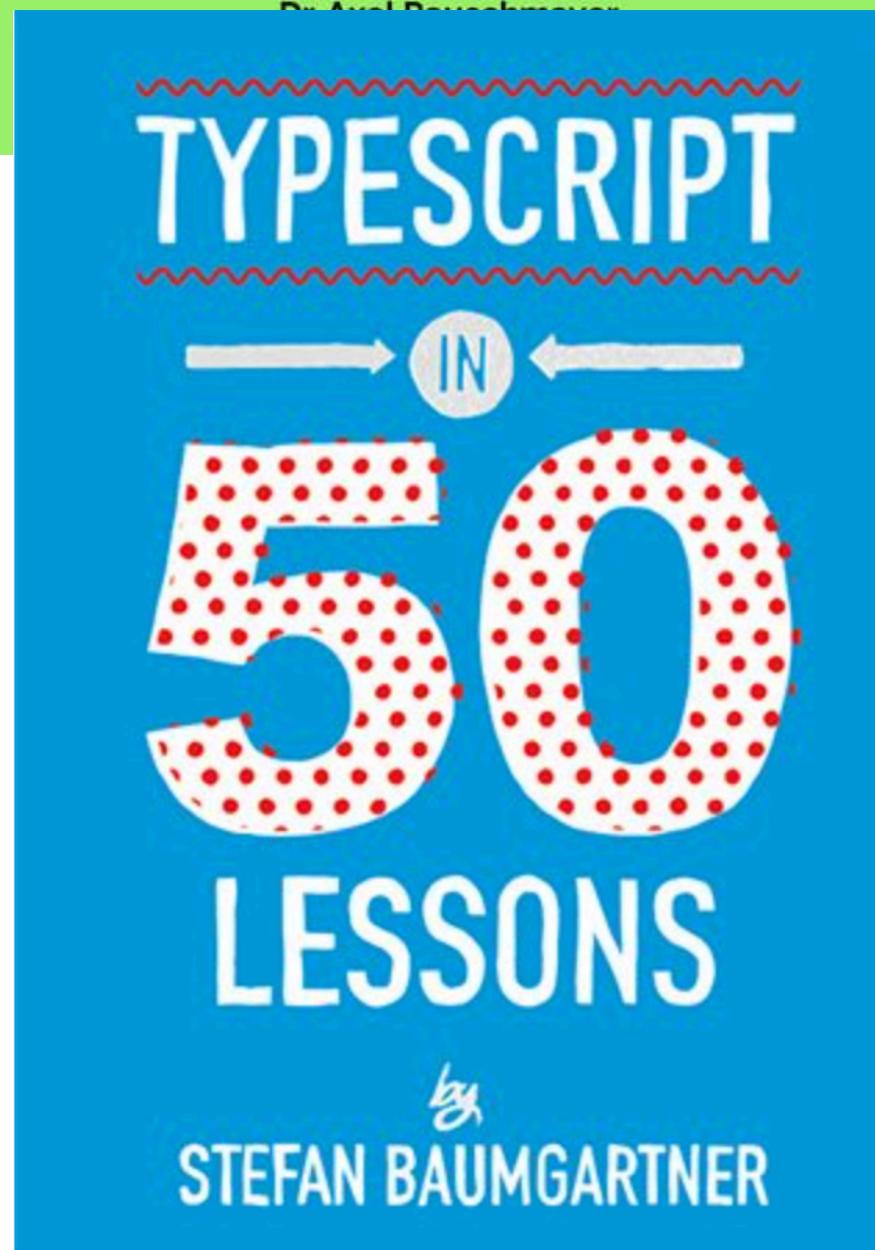
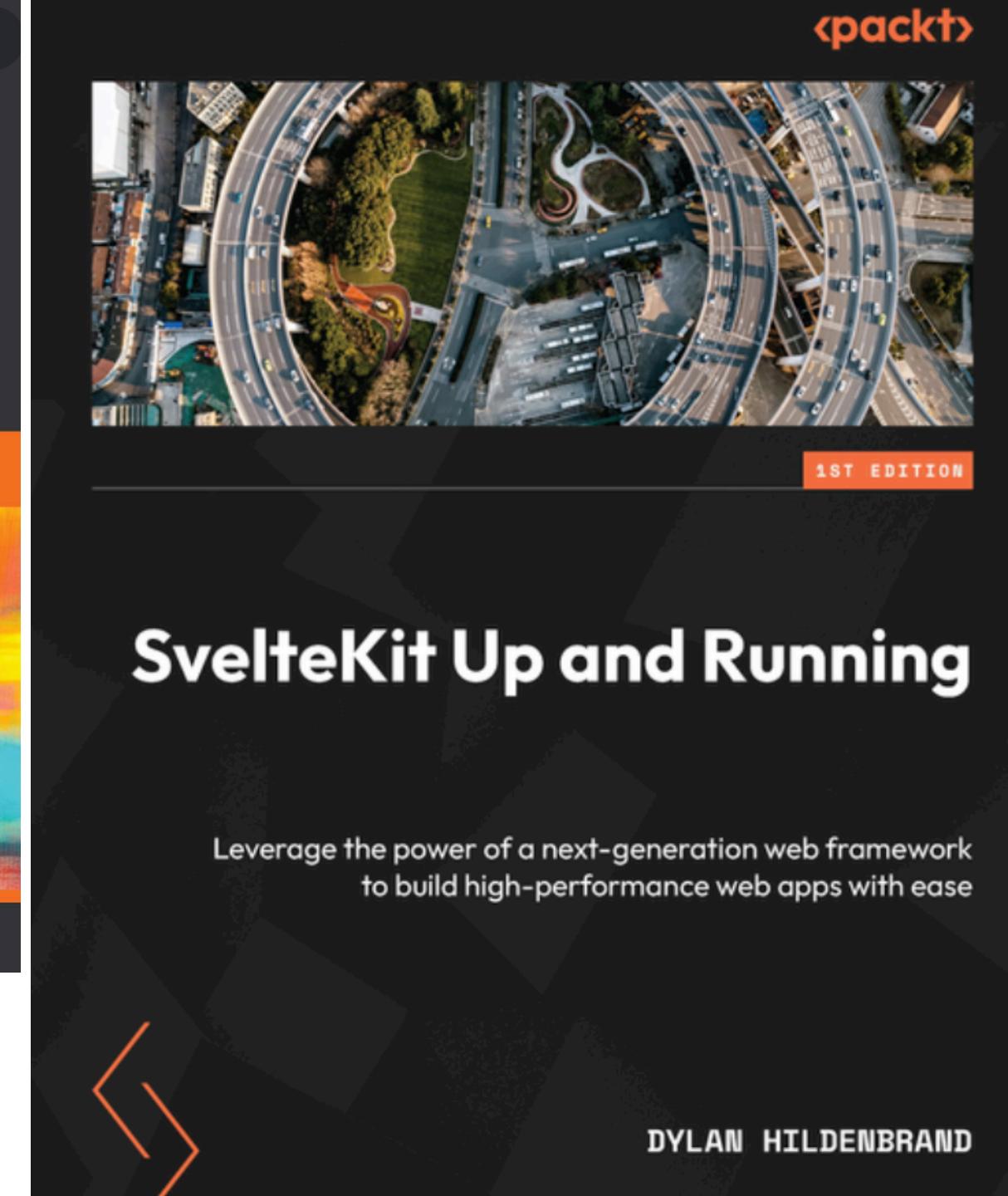
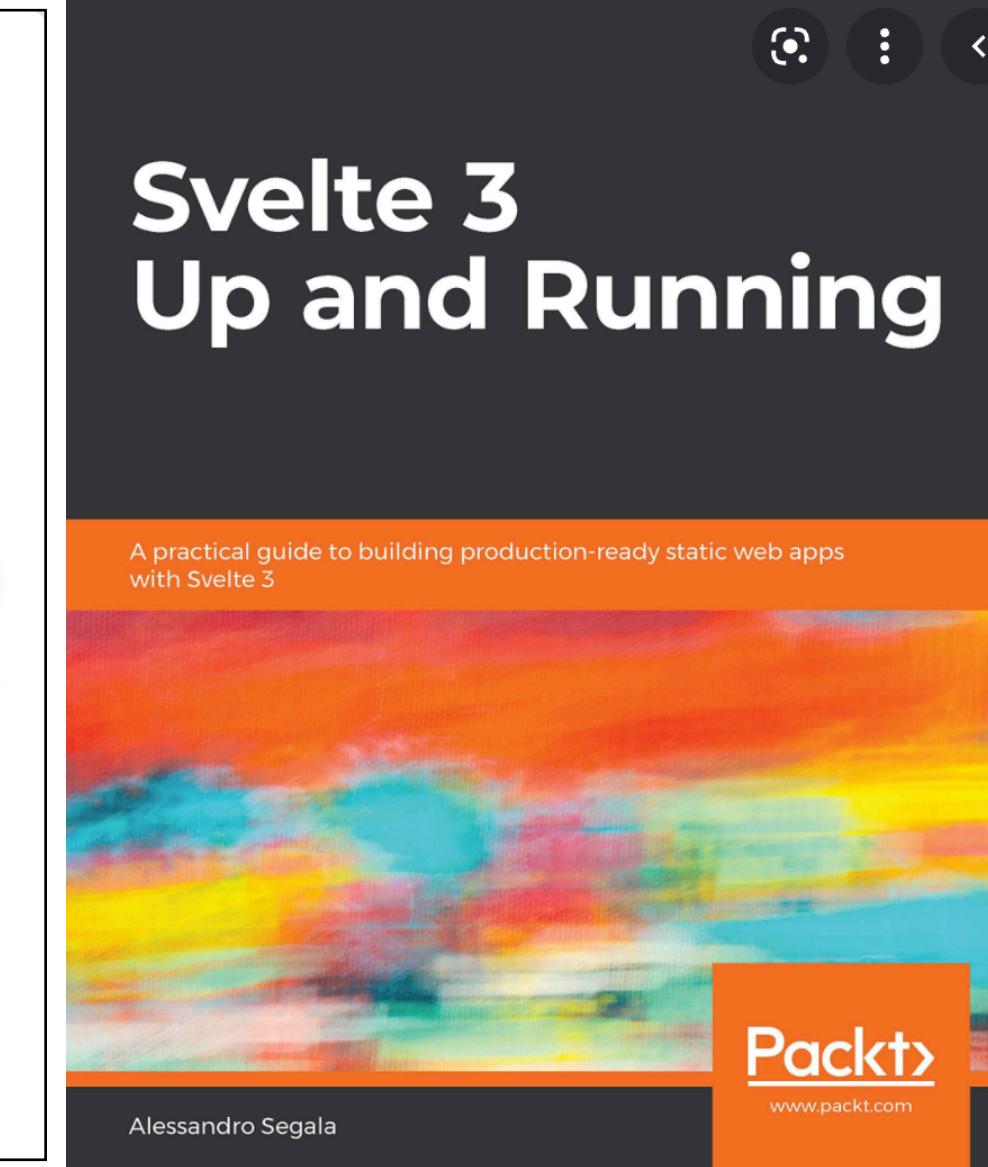
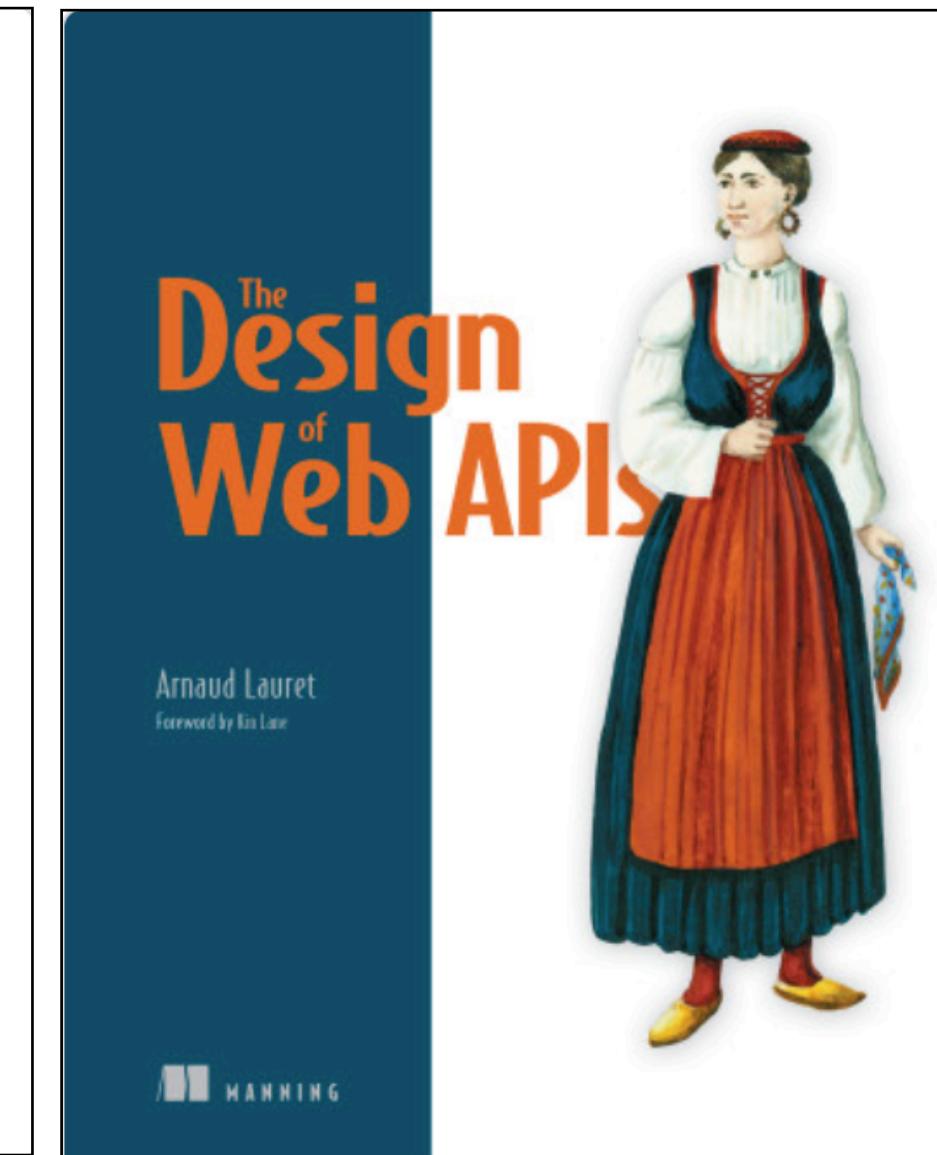
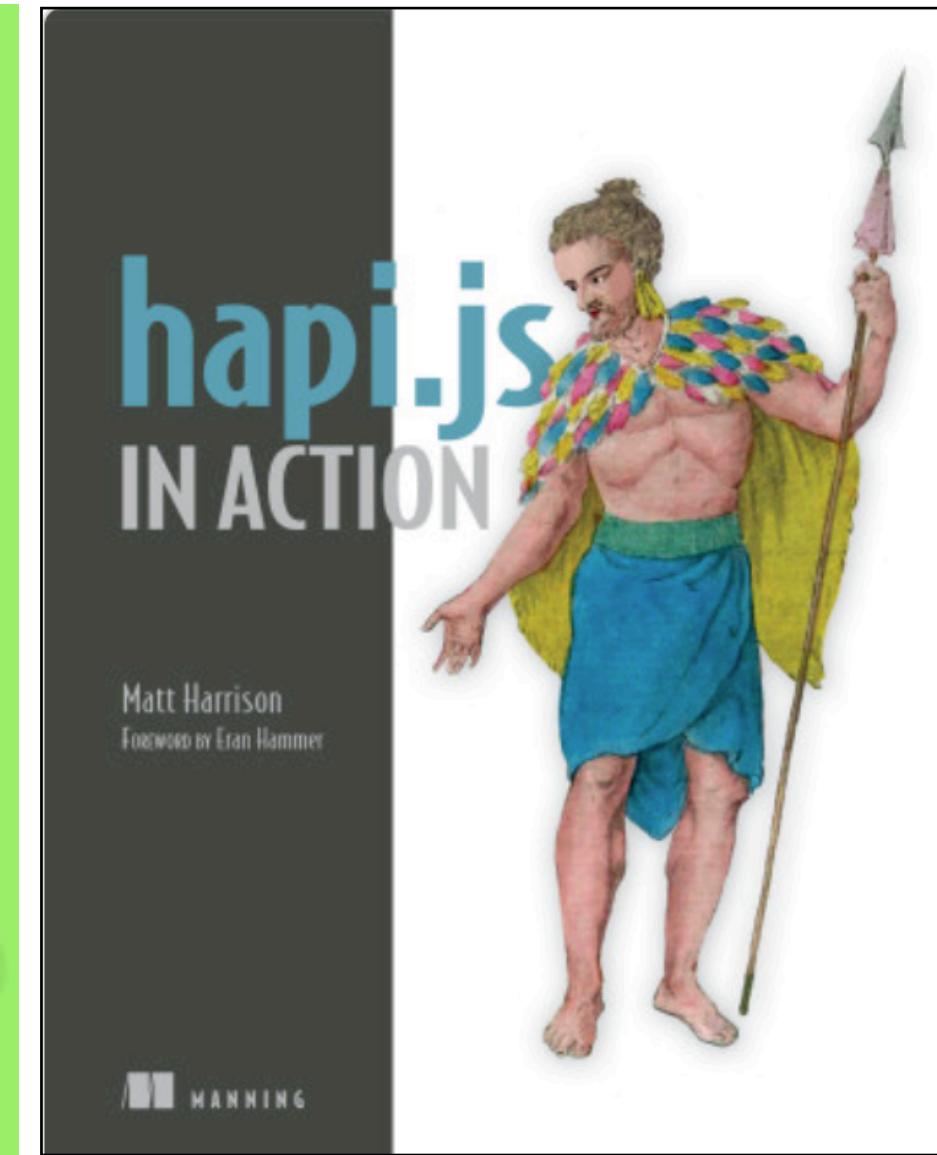
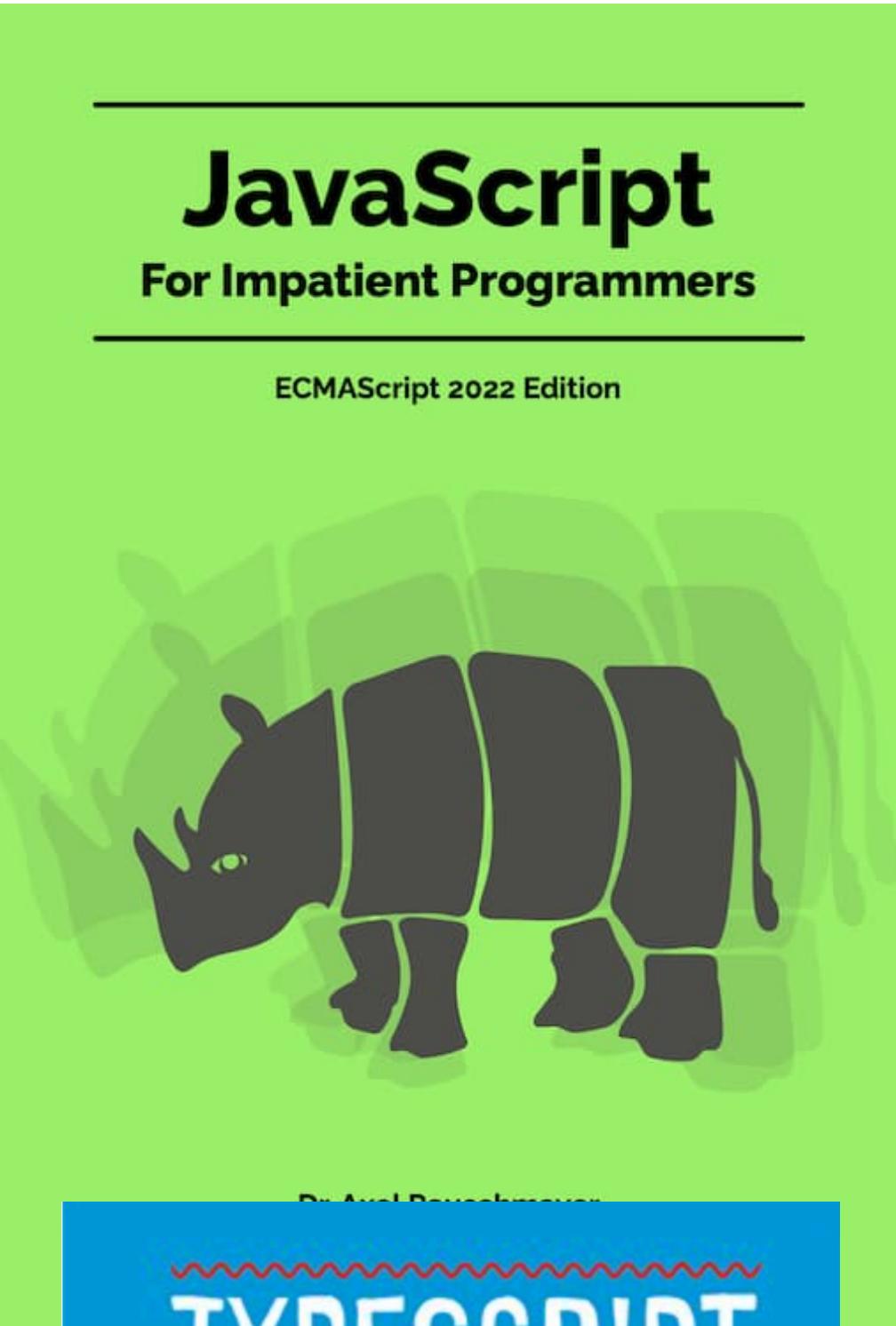
SSR patterns in SvelteKit

**24: Full Stack Development**

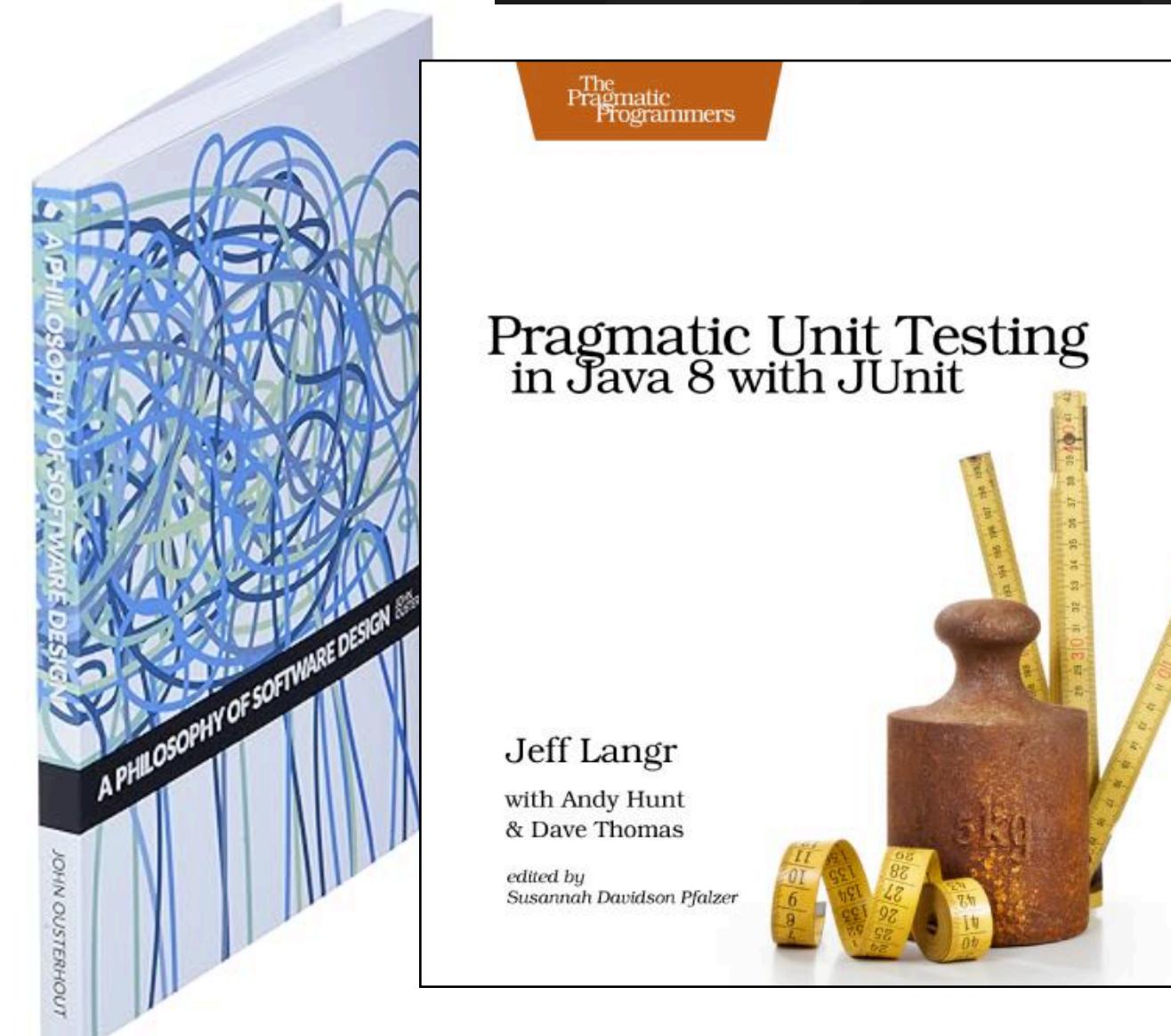


Patterns for Full Stack in SvelteKit





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



# Course Overview



Full Stack Development 1