# Reading path for web framework developers

The order in which to read this audience's pages - an orientation day, the request and its pieces, data, the cross-cutting concerns, operations, and the bridge to other frameworks - with time estimates and the pages...

Source file: doc/eng-us/help/web-framework-developers/web-framework-developers-reading-path.md
Last changed 2026-11-04
https://doc.exponential.earth/learninminutes/exphelp/viewer/help/web-framework-developers/web-framework-developers-reading-path.md

This page is for developers who want an order to read in. Each stage takes about half a day; the task in stage 2 is the hands-on part. Skip the stages your project does not need.

## Contents

1. Stage 1: orientation
2. Stage 2: the request and your first module
3. Stage 3: data
4. Stage 4: cross-cutting concerns
5. Stage 5: background work and APIs
6. Stage 6: operating it
7. Stage 7: other frameworks alongside
8. After this path

## Stage 1: orientation

1. Exponential for web framework developers
2. Your "coming from" page: Symfony, Laravel, Slim, CodeIgniter, Yii, CakePHP or Laminas, Django or Rails, Express or Spring
3. Concept dictionary
4. When to choose Exponential

## Stage 2: the request and your first module

1. The request lifecycle
2. Siteaccesses
3. Routing, Pretty URLs
4. Controllers, Responses
5. The view layer, Template resolution, Fetch functions
6. Do it: Task: build a small CRUD module

## Stage 3: data

1. The content model for ORM users
2. ORM: eZPersistentObject
3. Queries
4. Migrations and seed data

## Stage 4: cross-cutting concerns

1. Configuration, Environments and secrets
2. Dependency injection, Extension points
3. Middleware, Events and listeners, Workflows
4. Authentication, Authorization
5. Forms and CSRF, Validation
6. Caching, HTTP caching
7. Translations and right-to-left

## Stage 5: background work and APIs

1. Command line
2. Queues, Scheduled tasks
3. REST and JSON APIs, Headless front ends

## Stage 6: operating it

1. Testing, Debugging
2. Servers and deployment, Packages
3. Ten pitfalls, Checklists

## Stage 7: other frameworks alongside

1. Mixing Exponential and a framework
2. The Symfony legacy bridge
3. The platform products

## After this path

- The application creators' guides go deeper into each topic (Application creators: start here, their reading path).
- The extension development book teaches every extension point step by step (Extension development).
- The template language section explains the language in depth (The template language).

## Related pages

- Web framework developers: start here
- Web framework developer FAQ
- Glossary for web framework developers
- Free documentation: this page is free to copy, translate and improve under the GNU FDL 1.3.

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