



Enterprise Aurelia 2

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Working with Aurelia 2 in the enterprise.

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Introduction

Thank you for purchasing, sharing or pirating the Enterprise Aurelia Book. If you're wanting to use Aurelia 2 in an enterprise environment, then you have found the right book. If you are looking for recipes, then I am sorry to tell you that you won't find any recipes here (although, send me an email and I'll gladly share a favourite recipe with you).

What Is Aurelia?

Aurelia is a modern standards-compliant Javascript framework for building ambitious and straightforward applications. Unlike other frameworks and libraries, Aurelia is modular and can be adapted for each use-case, you won't find any monoliths here. As a framework, Aurelia abides by the mantra of not reinventing the wheel, opting to base features and decisions on real standards created by working groups such as W3C and WHATWG.

Although Aurelia is a framework, it is effortless to learn thanks to its convention-over-configuration approach. It makes some out-of-the-box assumptions about how your applications function, and in many instances, you will keep those defaults. It plays nicely with every third-party library, thanks in part to not having any proprietary DOM implementation and not requiring special bridge libraries.

By deciding to purchase this book, you probably knew all of that already.

About The Book

The term enterprise gets thrown around a lot, so what does Enterprise Aurelia even mean? Enterprise applications are more often than not monolithic and highly complex, with many moving parts. Furthermore, enterprise applications because of their sheer complexity are usually maintained over more extended periods.

We have all heard the jokes that companies will inevitably find themselves rewriting their application in that framework every time a new Javascript framework comes out. Sadly, it's not a joke. I have seen first-hand companies who rewrite their applications every two years and, if you can afford that, then your company must a licence to print money. Good for them.

Without throwing shade on other choices, this is where Aurelia breaks away from the sea of other frameworks and libraries. Aurelia is a batteries-included framework that gives you everything you need, offering additional packages for other features; routing, validation, data requests, testing, separation of concerns.

In this book, the recurring themes will be:

- Longevity
- Maintainability
- Practicality
- Simplicity
- Testability

You will learn how to structure your Aurelia 2 applications, where things should live, simple conventions for naming and structuring, how to keep your apps up to date and how to test them. Furthermore, you will also learn different patterns which will help you build Aurelia applications and scale development to different sized teams.

Enterprise Aurelia is the answer to the question: How can I build enterprise web applications with Aurelia 2?

A letter to your manager/boss

It would be naive to ignore the fact Aurelia can be a hard sell for some. Why not React, why not Angular, why not Svelte or Ember? While Aurelia isn't a bad option or a new one (Aurelia has been around since January 2015), Aurelia has always flown under the radar in the face of other frameworks.

Which is why I have included this section with an email template you can send to your manager or boss to consider Aurelia for your next build.

Dear Manager,

I am emailing about our next project , and I think we should consider Aurelia for this project. There is a good chance you have never heard about Aurelia before, or if you have, the older version one.

Based on all of the features we will need in this project, Aurelia 2 should be considered. While there are many other more popular choices, I think you will agree that the requirements of the project come first, not following trends or wasting tens of hours fitting a square peg into a round hole.

Unlike other choices, Aurelia is a standards-based Javascript framework that is similar to Angular, but not as verbose. It has a small learning curve, but is just as powerful as everything else out there on the market.

I think it would be worth creating a prototype and getting the opinion of others on the team before making any decisions.

It's all about the structure

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Build a map

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A map is made up of the following rules:

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Outlining the main pieces

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Mapping relationships

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Aurelia and Monorepos

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What is a monorepo?

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Setting up a monorepo with Aurelia

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Monorepo basics

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Tell NPM about our workspace

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Create a top level tsconfig file

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Create a package

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Setting up tests using Jest

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