

# Unit testing on the frontend

Extract the state, test the state

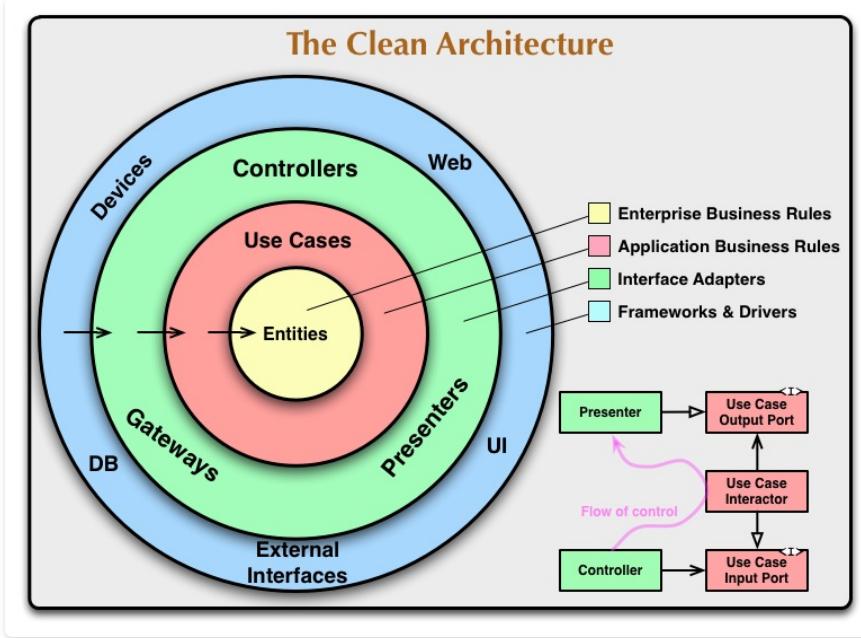
Press Space for next page →

# Table of contents

- Hexagonal architecture on the front-end
- Separating the state for rest
- Presentational component vs container component
- Testing the store
- Testing libs for react: vitest, react testing library, Mock Server Worker
- Links



# Hexagonal architecture



- Hexagonal architecture/Clean architecture/onion architecture: same idea under many names
- Domain logic should be in its own dedicated layer
- Domain layer does not depend on any other layer (may demand dependency inversion)
- Ports/adapters pattern that lets change other layer easily (SQL to elasticSearch, REST to graphQL, etc...)

# Code

Use code snippets and get the highlighting directly!<sup>[1]</sup>

```
interface User {  
  id: number  
  firstName: string  
  lastName: string  
  role: string  
}  
  
function updateUser(id: number, update: User) {  
  const user = getUser(id)  
  const newUser = { ...user, ...update }  
  saveUser(id, newUser)  
}
```



1. Learn More

# Components

You can use Vue components directly inside your slides.

We have provided a few built-in components like `<Tweet/>` and `<Youtube/>` that you can use directly. And adding your custom components is also super easy.

```
<Counter :count="10" />
```



Check out the guides for more.

<Tweet id="1390115482657726468" />

A screenshot of a Twitter post from the user @Slidevjs. The post features a logo for Slidev, a message about reaching 1K stars, and a link to the v0.3.0 release. It includes engagement metrics like 203 likes and 2 replies.

Slidev (@Slidevjs · Follow) · May 6, 2021

1K Stars on the Launch Day?! That's awesome! Thank you :)

BTW, v0.3.0 just released with LaTeX math support!

Presentation slides for developers

v0.3.0 2.4k commits 100+ dev dependencies

Stars 203

Read the full conversation on Twitter

203 Reply Copy link

Read 2 replies

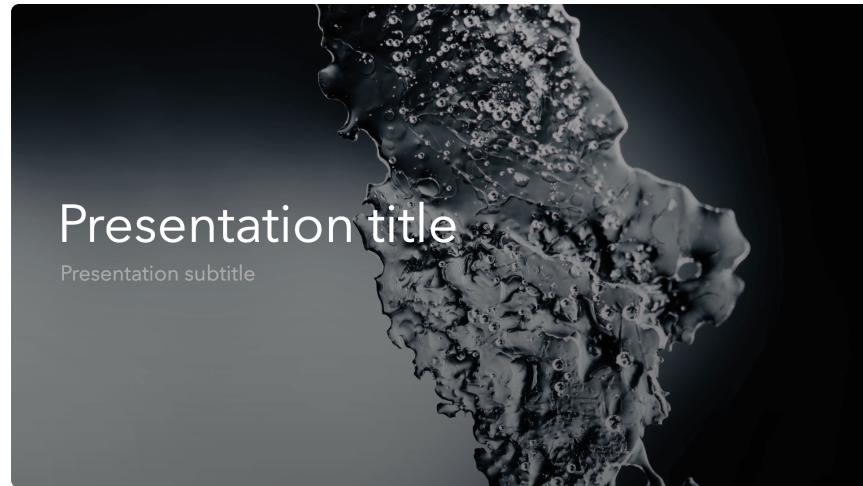
# Themes

Slidev comes with powerful theming support. Themes can provide styles, layouts, components, or even configurations for tools. Switching between themes by just **one edit** in your frontmatter:

```
---
```

**theme: default**

```
---
```



```
---
```

**theme: serif**

```
---
```



Read more about [How to use a theme](#) and check out the [Awesome Themes Gallery](#).

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# Animations

Animations are powered by [@vueuse/motion](#).

```
<div  
  v-motion  
  :initial="{ x: -80 }"  
  :enter="{ x: 0 }">  
  Slidev  
</div>
```



# LaTeX

LaTeX is supported out-of-box powered by KaTeX.

Inline  $\sqrt{3x - 1} + (1 + x)^2$

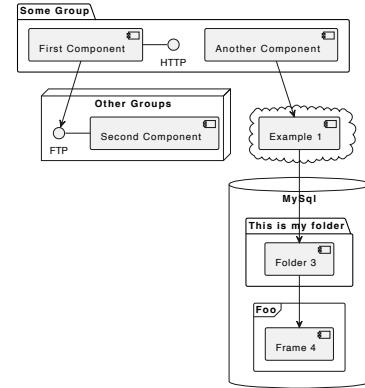
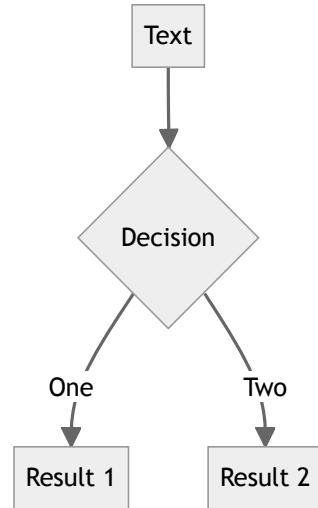
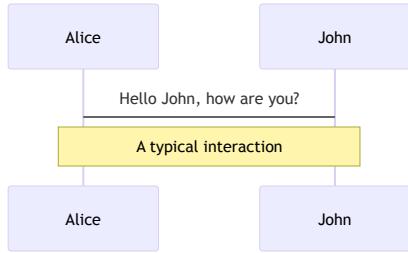
Block

$$\begin{aligned}\nabla \times \vec{\mathbf{B}} - \frac{1}{c} \frac{\partial \vec{\mathbf{E}}}{\partial t} &= \frac{4\pi}{c} \vec{\mathbf{j}} \nabla \cdot \vec{\mathbf{E}} = 4\pi\rho \\ \nabla \times \vec{\mathbf{E}} + \frac{1}{c} \frac{\partial \vec{\mathbf{B}}}{\partial t} &= \vec{\mathbf{0}} \\ \nabla \cdot \vec{\mathbf{B}} &= 0\end{aligned}$$

Learn more

# Diagrams

You can create diagrams / graphs from textual descriptions, directly in your Markdown.



[Learn More](#)

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# Multiple Entries

You can split your slides.md into multiple files and organize them as you want using the `src` attribute.

`slides.md`

```
# Page 1
```

Page 2 from main entry.

```
---
```

```
src: ./subpage.md
```

```
---
```

`subpage.md`

```
# Page 2
```

Page 2 from another file.

[Learn more](#)

## Learn More

[Documentations](#) · [GitHub](#) · [Showcases](#)

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