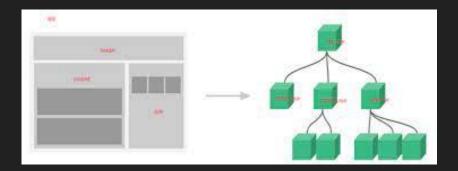
Felicette

A no-code/low-code platform to bootstrap frontend applications.

How it works

We can view an application as a nested structure, where each component has the following properties:

- source code (HTML/JavaScript/CSS)
- input: props
- output: emits
- parent component
- child components



Given these properties we can break down "frontend development" into a series of small prompts and functions:

- 1. Base prompt ('Create a login component ...')
- 2. Optional: a series of q&a prompts ('How many input fields? Email and password. ...')
- 3. LLM generates initial source code
- 4. Optional: modifications ('Make sure the passwords contain 10 digits.', 'Emit a 'submit' event when a user is logging in')
- 4. Optional: LLM wants to needs parent component: get_parent_component('my-new-comp') # Modify parent component to write a callback for the emit
- 5. Finally: run unit tests on generated component and on the whole application to maintain consistency

Architecture







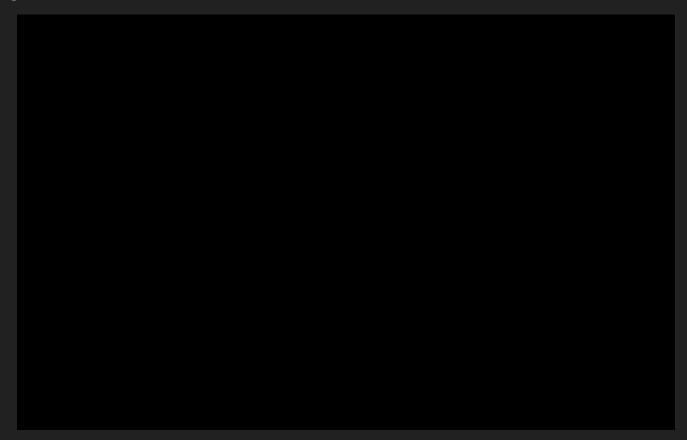


Break down into: template, script, props and emits

Run unit tests

```
<!DOCTYPE html>
<html id="home-layout">
<head>
<meta http-equiv="content-type" conte
<tittle>Source Code Pro:/title>
<!-- made with <3 and AFDKO -->
<meta name="keywords" content="sans,
monospace, open source, coding, for
<link rel="stylesheet" type="text/css
</head>
<body>
<div id="main">
```

Demo



Future work

- Implement outlines package to generate source-code given a specific syntax
- Fine-tune models for every major frontend framework with high quality source code
- Fine-tune on various UI component libraries e.g. Bootstrap, Quasar Framework
- Export source code to VS Code, GitHub or StackBlitz