



# C1 - MVVM frameworks

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C-DEV-121

## MVVM projects

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must have



Vue.js

1.0



## MUST-HAVE FOR ALL MVVM PROJECTS

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### SCAFFOLDING WITH VUE CLI

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All projects must be instantiated via [Vue CLI] (<https://www.npmjs.com/package/@vue/cli>) (the Vue.js command online development tool).

#### WHY?

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Creating a Vue.js project “from scratch” makes very little sense, and is even counterproductive, so using `Vue CLI` is, therefore, more than advised: it is recommended. In addition, project scaffolding with `Vue CLI` provides tools to compile the project, to serve the project under development, to test the project ... Finally, multiple options are offered by `Vue CLI` when creating the project (use of the `Vue Router`, use of `Vuex`, use of CSS pre-processors (SASS, SCSS, Less), ...).

#### HOW TO DETECT THE USE OF `Vue CLI` IN THE PROJECT?

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- the `package.json` file must contain the development dependencies (“devDependencies”) linked to `Vue CLI`: `@ vue/ cli-plugin-babel` OR `@ vue/cli-service`.
- the `package.json` file must contain scripts related to Vue.js development: the `build` script launches a `vue-cli-service build` type command.
- there is a `vue.config.js` file at the root of the project.

#### ALTERNATIVE

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As an alternative to `Vue CLI`, the project can use the tooling offered by `Vite`.  
In this case, the `package.json` file must contain the `vite` dependency.

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### USING THE VUE ROUTER

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All projects must use [Vue Router] (<https://www.npmjs.com/package/vue-router>) (the official router associated with Vue.js).

#### WHY?

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All projects require you to create several different pages. To navigate between these pages, a route management system is required.

#### HOW TO DETECT THE USE OF `Vue Router` IN THE PROJECT?

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- the `package.json` file must contain the `vue-router` dependency.
- the router is usually located in `./src/router/index.js`.



## USING DYNAMIC ROUTES IN THE APPLICATION ROUTER

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Like the dynamic routes offered by the server (for example: GET `/pokemons/{id}`), the application's router must offer a dynamic route to obtain information about Pokemons.

## HOW TO DETECT THE DYNAMIC ROUTE?

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In this file which manages the routes, a dynamic route is expressed like this:

```
{
  path: '/pokemons/:id',
  name: 'pokemon',
  component: Pokemon
}
```

Note the dynamic parameter `:id` for the `path` property (with `:`, which indicates its dynamic character).