THE COMPLETE JAVASCRIPT COURSE

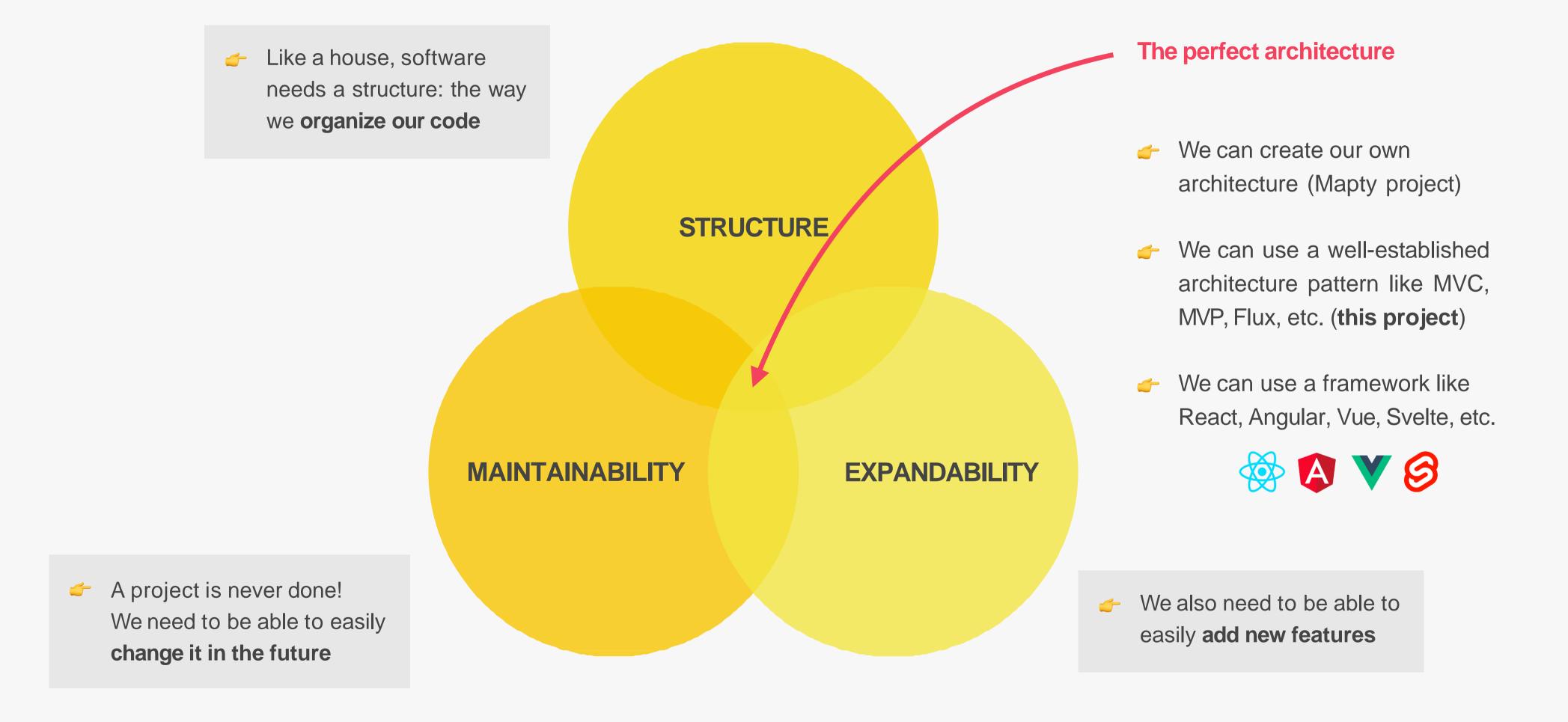
FROM ZERO TO EXPERT!

SECTION

FORKIFY APP: BUILDING A
MODERN APPLICATION

LECTURE
THE MVC ARCHITECTURE

WHY WORRY ABOUT ARCHITECTURE?



COMPONENTS OF ANY ARCHITECTURE

BUSINESS LOGIC

- Code that solves the actual business problem;
- Directly related to what business does and what it needs;
- Example: sending messages, storing transactions, calculating taxes, ...

STATE

- Essentially stores all the data about the application
- Should be the "single source of truth"
- Ul should be kept in sync with the state
- State libraries exist





HTTP LIBRARY

- Responsible for making and receiving AJAX requests
- Optional but almost always necessary in real-world apps

APPLICATION LOGIC (ROUTER)

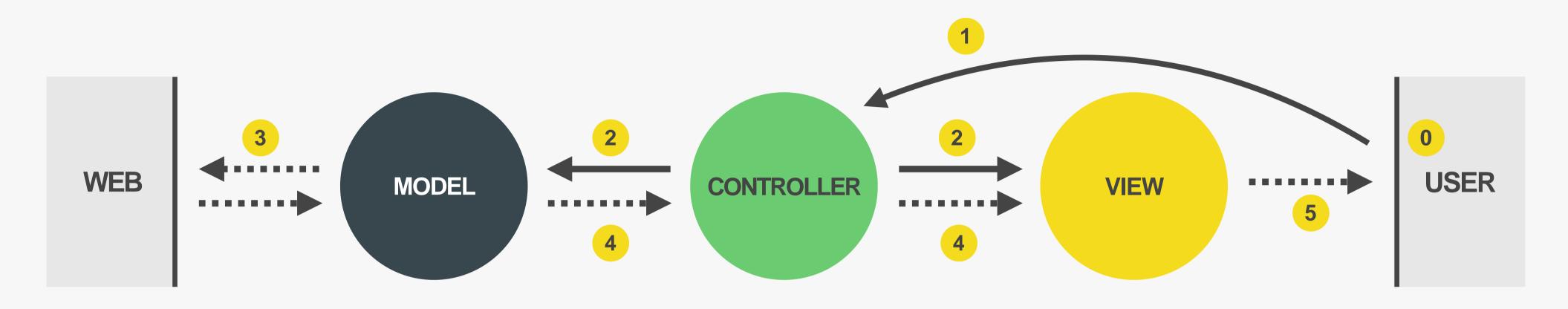
- Code that is only concerned about the **implementation** of application itself;
- Handles navigation and UI events

PRESENTATION LOGIC (UI LAYER)

- Code that is concerned about the visible part of the application
- Essentially displays application state

Keeping in sync

THEMODEL-VIEW-CONTROLLER (MVC) ARCHITECTURE



BUSINESS LOGIC

STATE

HTTP LIBRARY

APPLICATION LOGIC

- Bridge between model and views (which don't know about one another)
- Handles UI events and dispatches tasks to model and view

PRESENTATION LOGIC

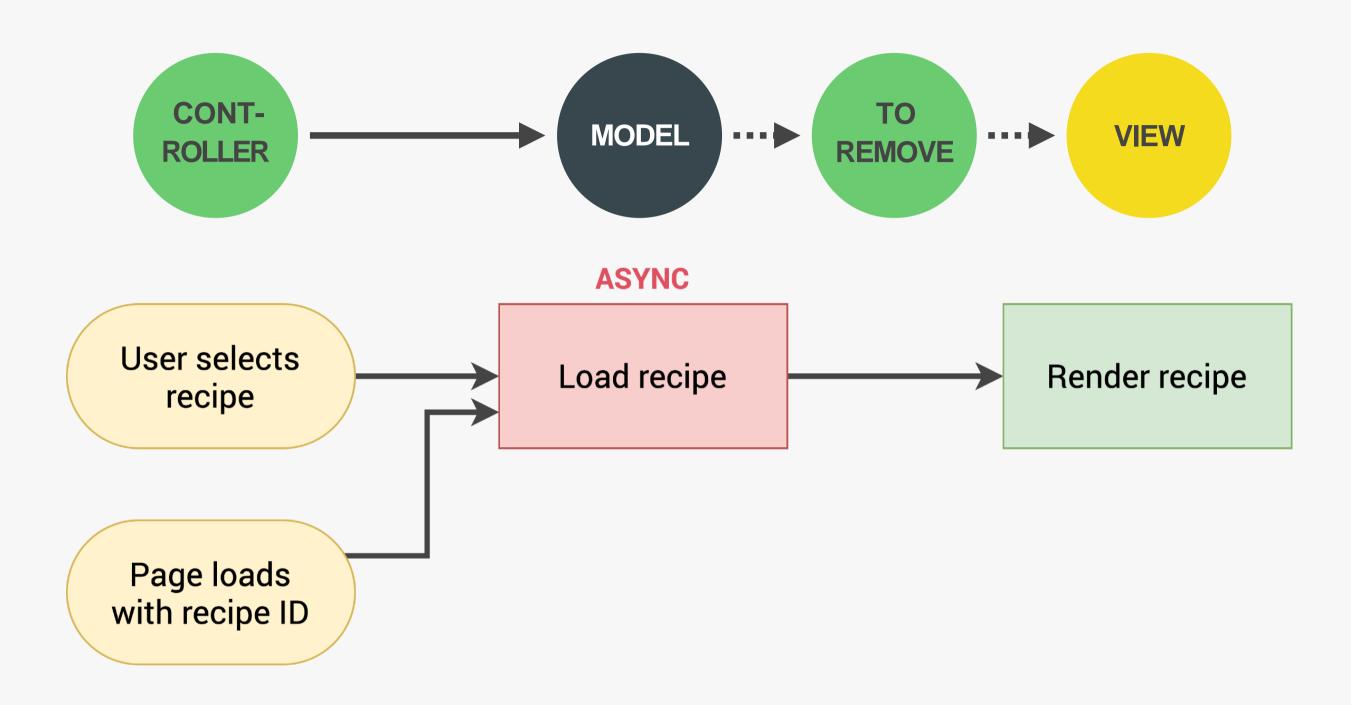
Connected by function call and import

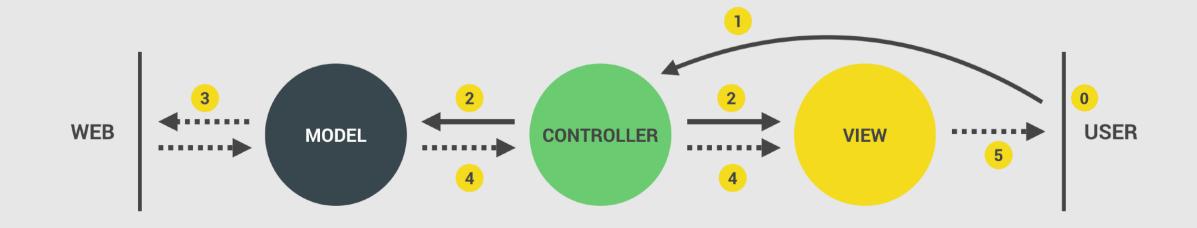
Data flow

MODEL, VIEW AND CONTROLLER IN FORKIFY (RECIPE DISPLAY



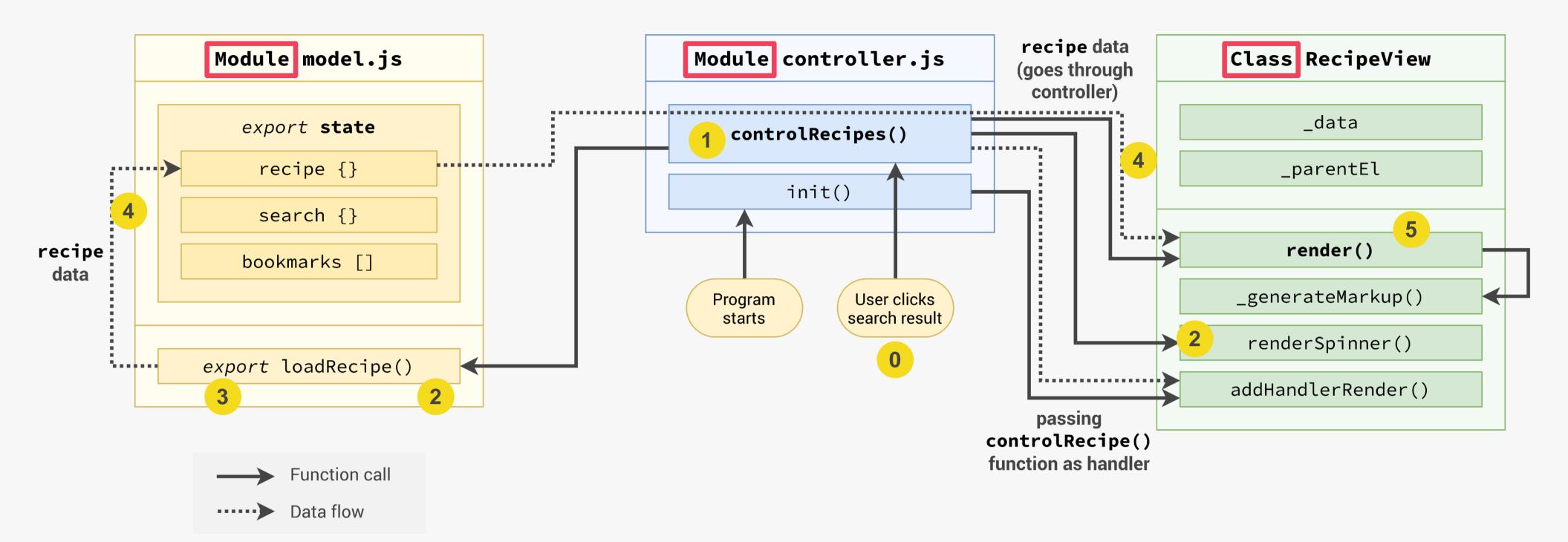


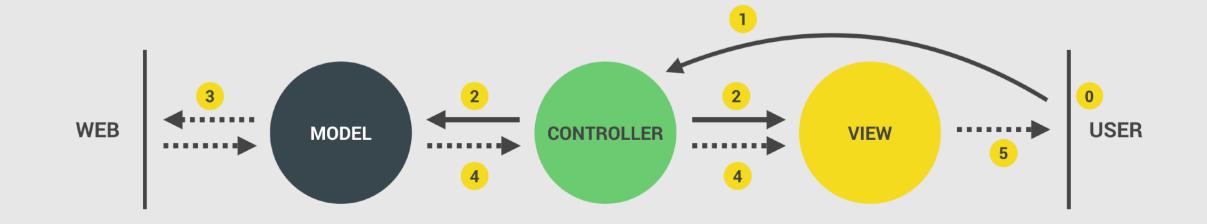




MVC IMPLEMENTATION (RECIPE DISPLAY ONLY)







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FORKIFY APP: BUILDING A MODERN APPLICATION

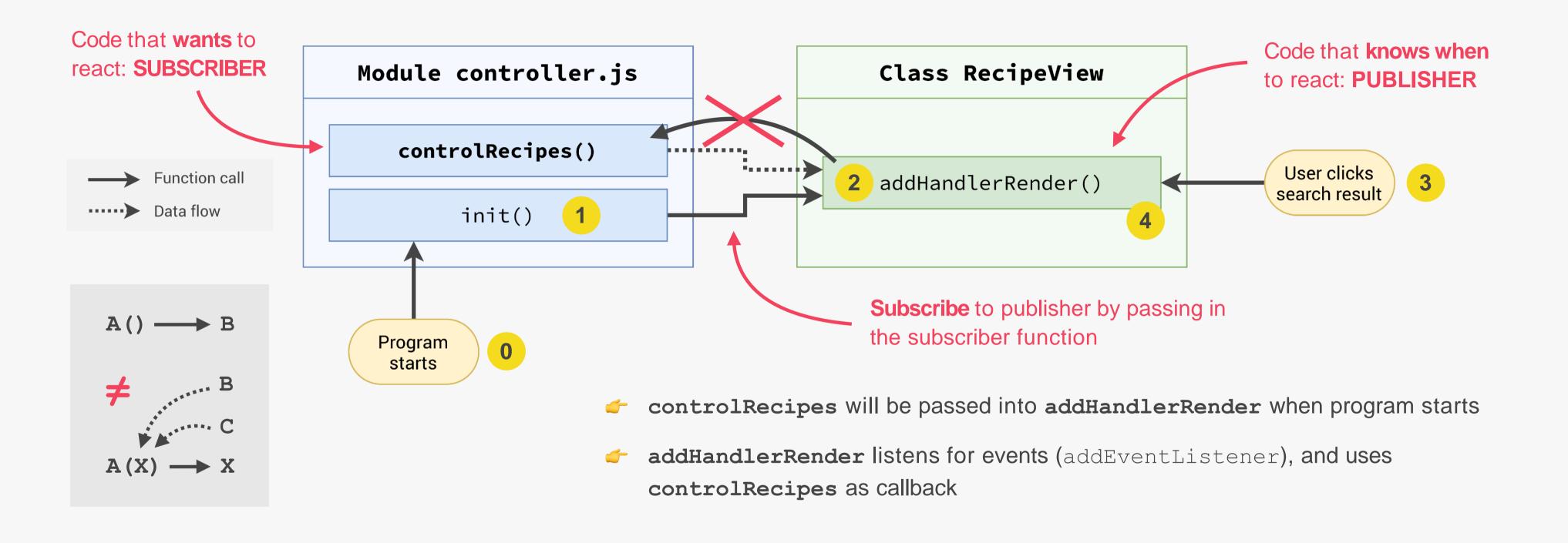
LECTURE

EVENT HANDLERS IN MVC: PUBLISHER-SUBSCRIBER PATTERN



EVENT HANDLING IN MVC: PUBLISHER-SUBSCRIBER PATTERN





- Events should be **handled** in the **controller** (otherwise we would have application logic in the view)
- Events should be listened for in the view (otherwise we would need DOM elements in the controller)

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SECTION FORKIFY APP: BUILDING A MODERN APPLICATION

LECTURE
WRAPPING UP: FINAL
CONSIDERATIONS

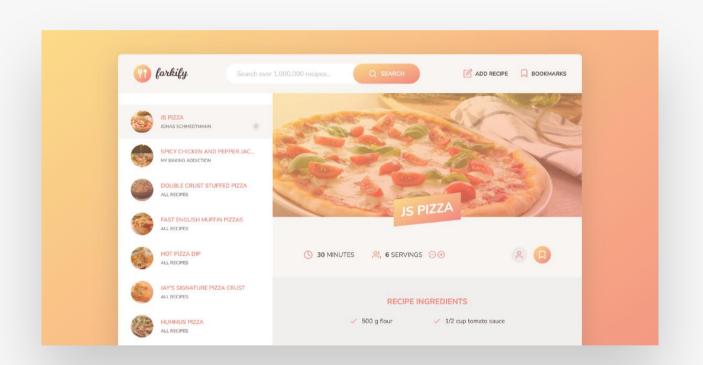
IMPROVEMENT AND FEATURE IDEAS: CHALLENGES





- Display number of pages between the pagination buttons;
- Ability to sort search results by duration or number of ingredients;
- Perform ingredient validation in view, before submitting the form;
- Improve recipe ingredient input: separate in multiple fields and allow more than 6 ingredients;

- Shopping list feature: button on recipe to add ingredients to a list;
- Weekly meal planning feature: assign recipes to the next 7 days and show on a weekly calendar;
- Get nutrition data on each ingredient from spoonacular API (https://spoonacular.com/food-api) and calculate total calories of recipe.



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