



JONAS.IO
SCHMEDTMANN

THE COMPLETE JAVASCRIPT COURSE

FROM ZERO TO EXPERT!



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SECTION

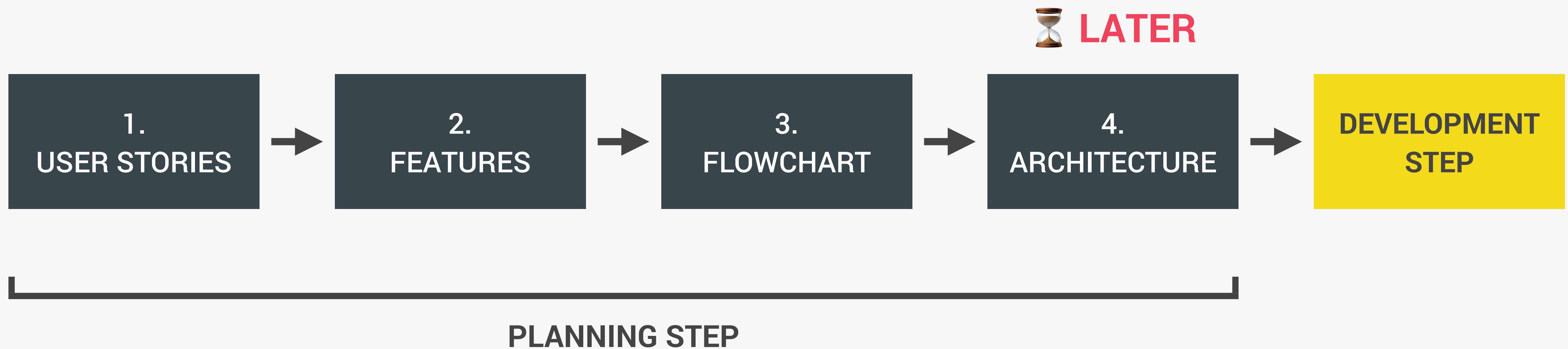
FORKIFY APP: BUILDING A MODERN
APPLICATION

LECTURE

PROJECT OVERVIEW AND PLANNING

JS

PROJECT PLANNING



1. USER STORIES



- 👉 **User story:** Description of the application's functionality from the user's perspective.
- 👉 **Common format:** As a *[type of user]*, I want *[an action]* so that *[a benefit]*

- 1 As a user, I want to **search for recipes**, so that I can find new ideas for meals
- 2 As a user, I want to be able to **update the number of servings**, so that I can cook a meal for different number of people
- 3 As a user, I want to **bookmark recipes**, so that I can review them later
- 4 As a user, I want to be able to **create my own recipes**, so that I have them all organized in the same app
- 5 As a user, I want to be able to **see my bookmarks and own recipes when I leave the app and come back later**, so that I can close the app safely after cooking

2. FEATURES



USER STORIES

FEATURES

1 Search for recipes



- 👉 Search functionality: input field to send request to API with searched keywords

2 Update the number of servings



- 👉 Display results with pagination

- 👉 Display recipe with cooking time, servings and ingredients

3 Bookmark recipes



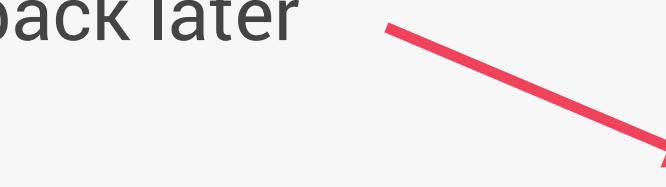
- 👉 Change servings functionality: update all ingredients according to current number of servings

4 Create my own recipes



- 👉 Bookmarking functionality: display list of all bookmarked recipes

5 See my bookmarks and own recipes
when I leave the app and come back later



- 👉 User can upload own recipes

- 👉 User recipes will automatically be bookmarked

- 👉 User can only see their own recipes, not recipes from other users

- 👉 Store bookmark data in the browser using local storage

- 👉 On page load, read saved bookmarks from local storage and display

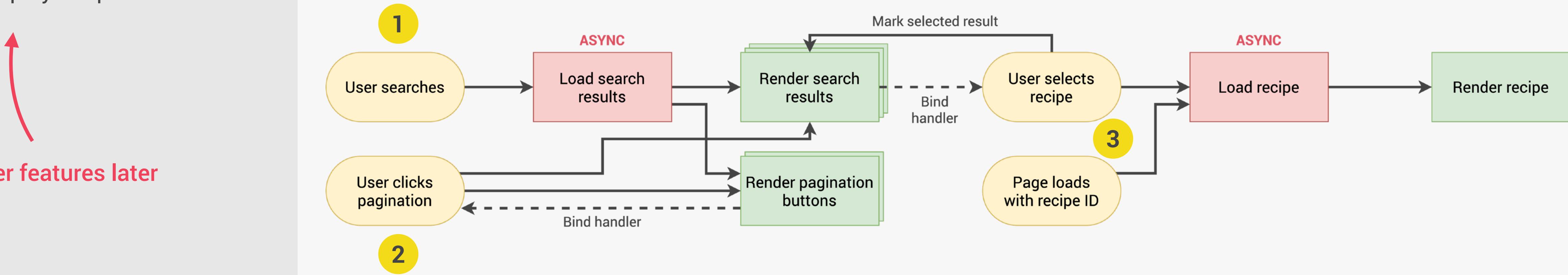
3. FLOWCHART (PART 1)



FEATURES

1. Search functionality: API search request
2. Results with pagination
3. Display recipe

Other features later





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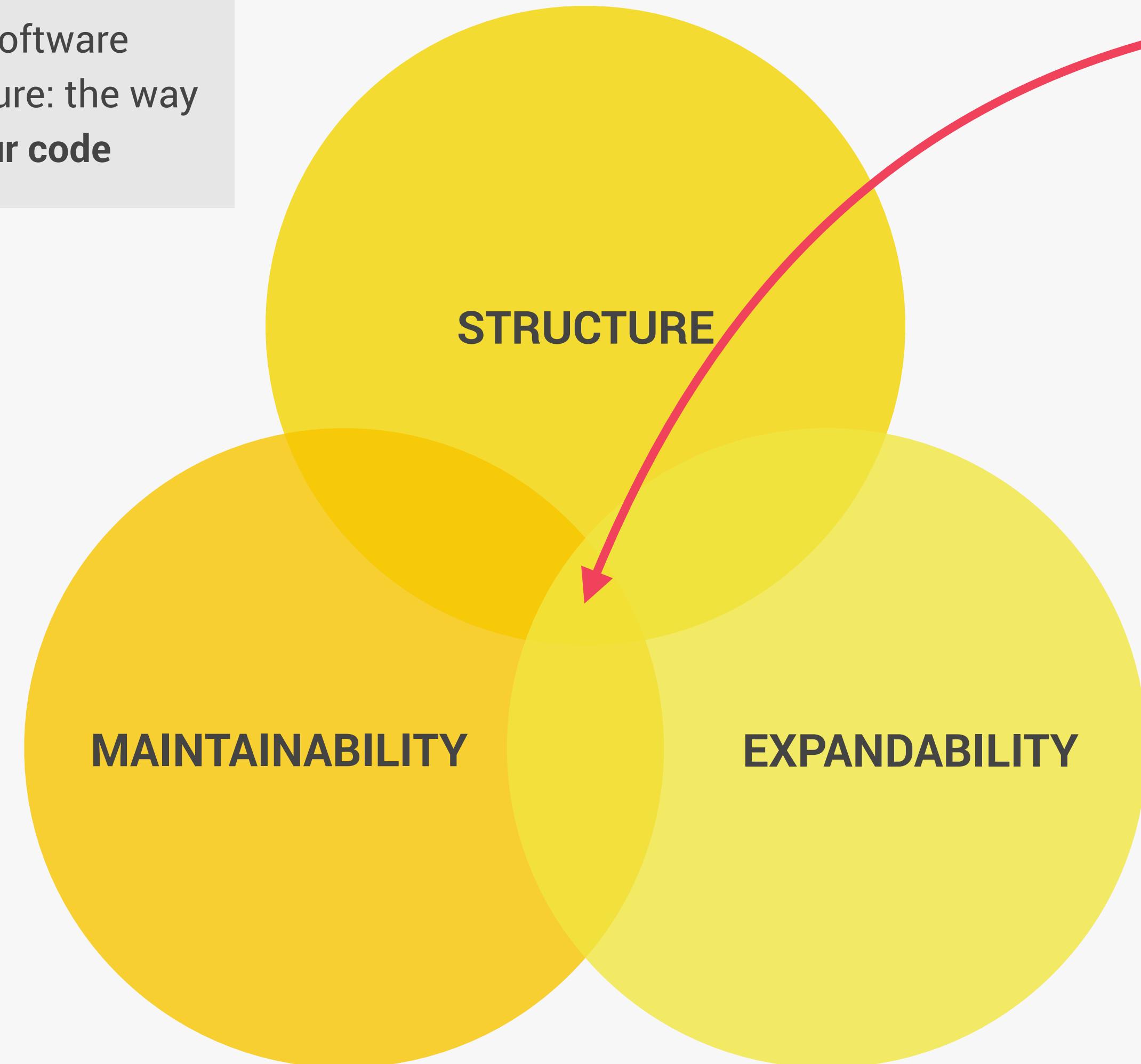
LECTURE

THE MVC ARCHITECTURE

JS

WHY WORRY ABOUT ARCHITECTURE?

👉 Like a house, software needs a structure: the way we **organize our code**



The perfect architecture

👉 We can create our own architecture (**Marty project**)

👉 We can use a well-established architecture pattern like MVC, MVP, Flux, etc. (**this project**)

👉 We can use a framework like React, Angular, Vue, Svelte, etc.



👉 A project is never done! We need to be able to easily **change it in the future**

👉 We also need to be able to easily **add new features**

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”
- 👉 UI 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)

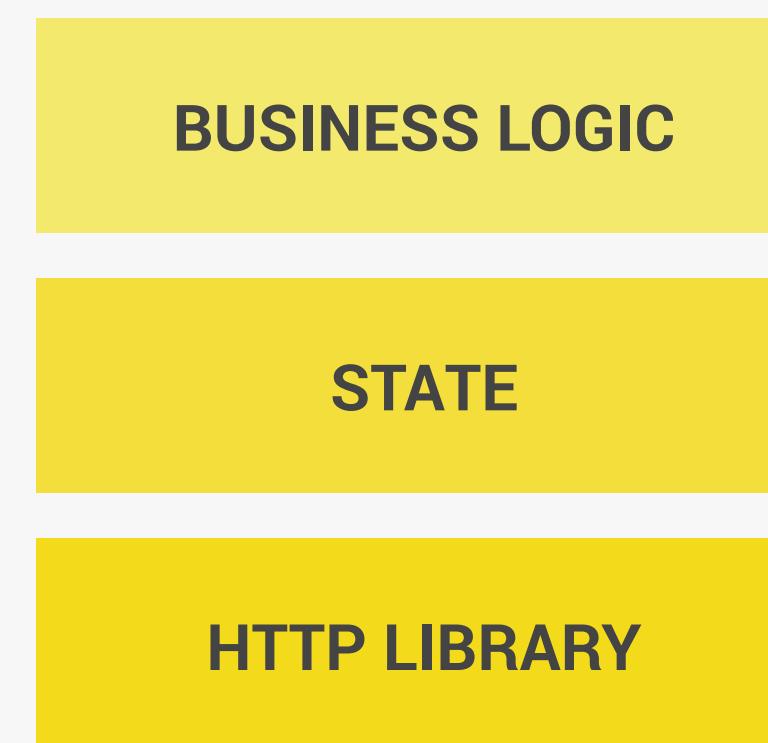
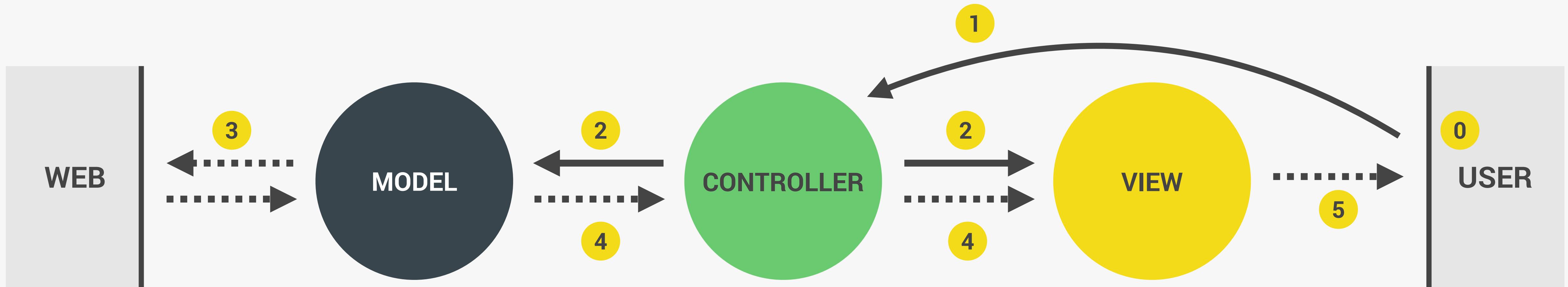
- 👉 Code that is only concerned about the **implementation of application itself**;
- 👉 Handles navigation and UI events

PRESENTATION LOGIC (UI LAYER)

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

Keeping in sync

THE MODEL-VIEW-CONTROLLER (MVC) ARCHITECTURE

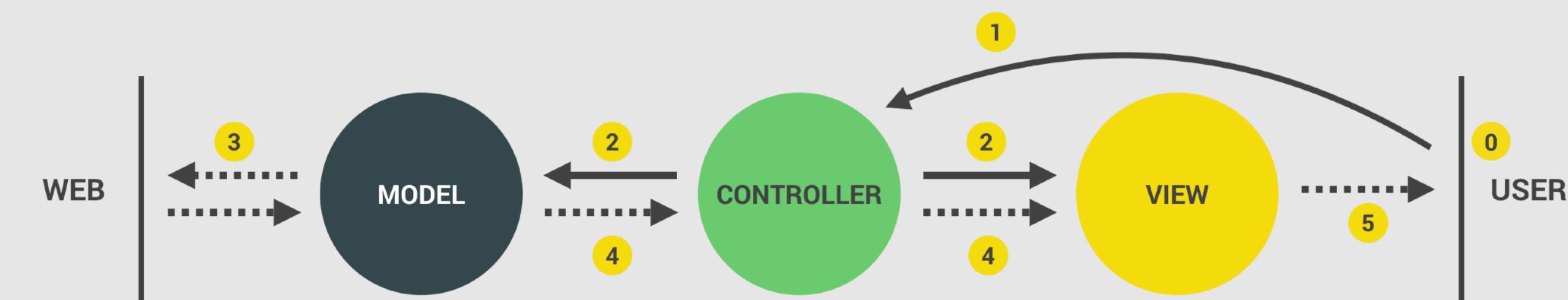
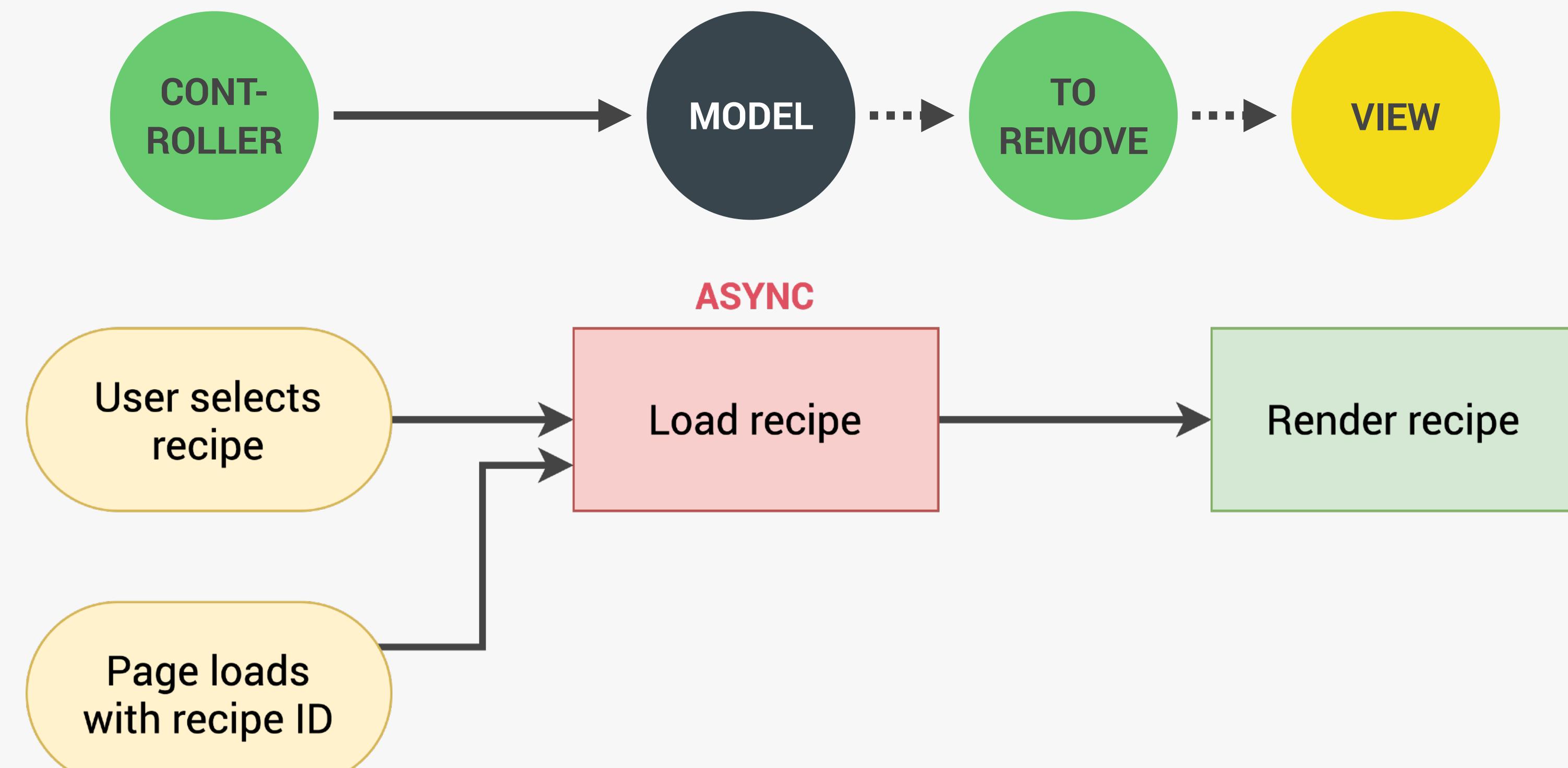


- 👉 Bridge between model and views (which don't know about one another)
- 👉 Handles UI events and **dispatches tasks to model and view**

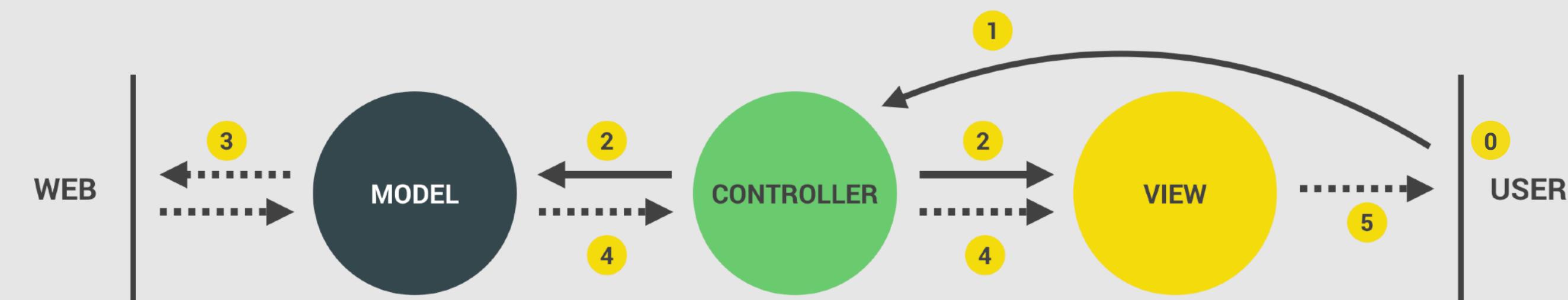
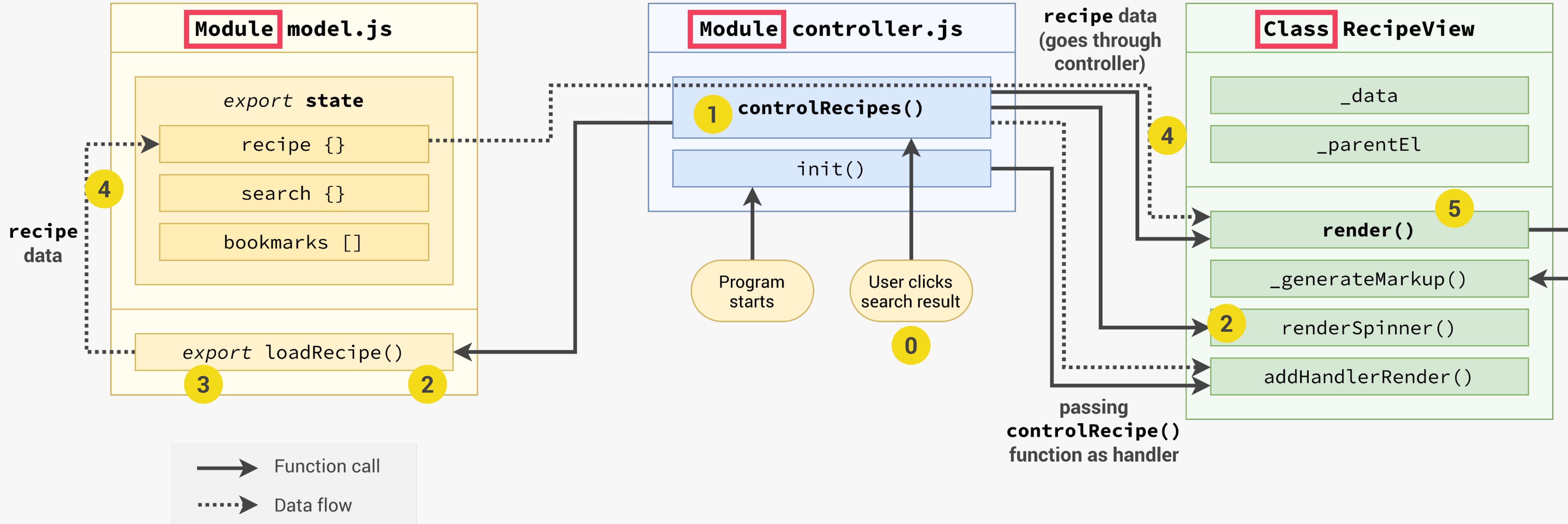
PRESENTATION LOGIC

- Connected by function call and import
- Data flow

MODEL, VIEW AND CONTROLLER IN FORKIFY (RECIPE DISPLAY ONLY)



MVC IMPLEMENTATION (RECIPE DISPLAY ONLY)





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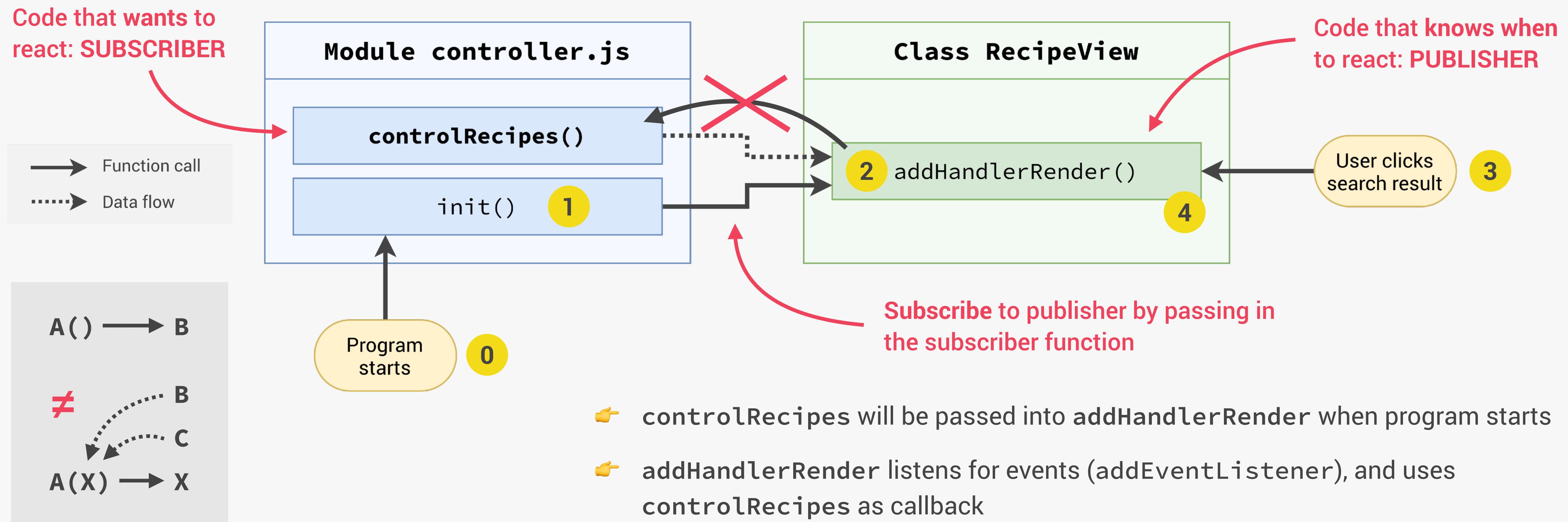
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EVENT HANDLERS IN MVC:
PUBLISHER-SUBSCRIBER PATTERN

JS

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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WRAPPING UP: FINAL
CONSIDERATIONS

JS

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.

