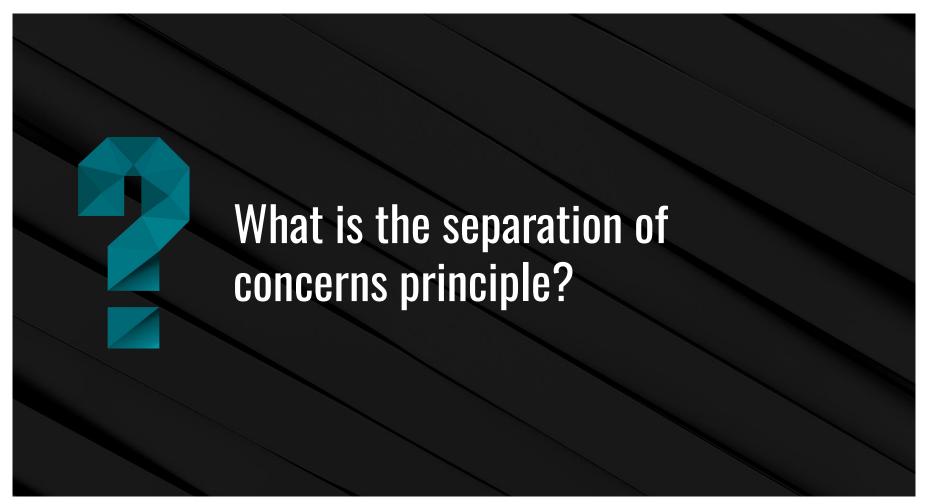
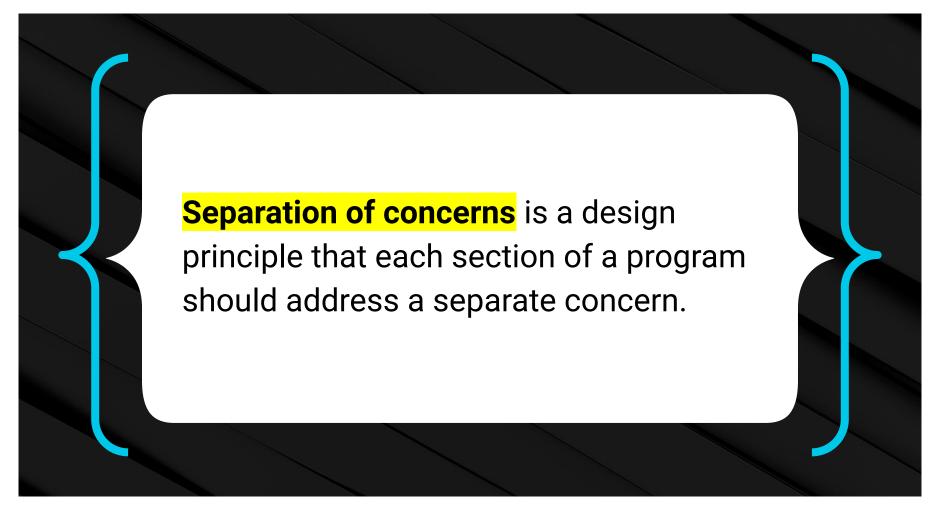


**Coding Boot Camp** 

Module 14







### **Separation of Concerns**

#### In a restaurant:

### Chef

The chef's concern is to cook the food.



### Server

The server's concern is to take orders and serve food.



### Customer

A customer's concern is to order and eat.





We do not expect the customer to go back into the kitchen to cook food or the server to sit at a table and order, etc.

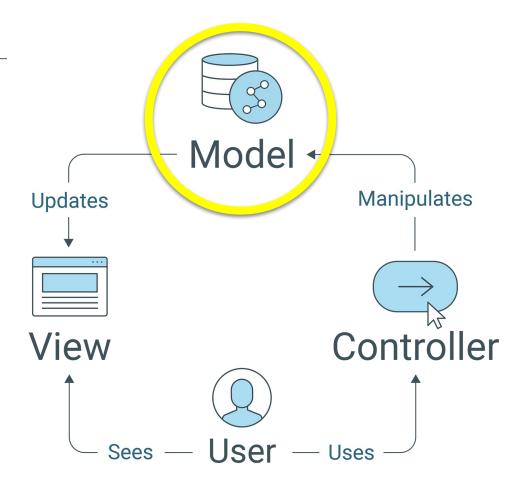


# **The Model-View-Controller (MVC)**

framework is an architectural pattern that adheres to the separation of concerns principle.

### **MVC Framework**

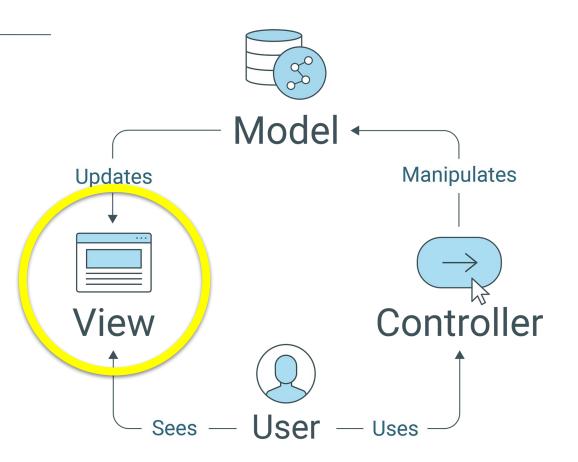
The **Model** stores data and data-related logic.



7

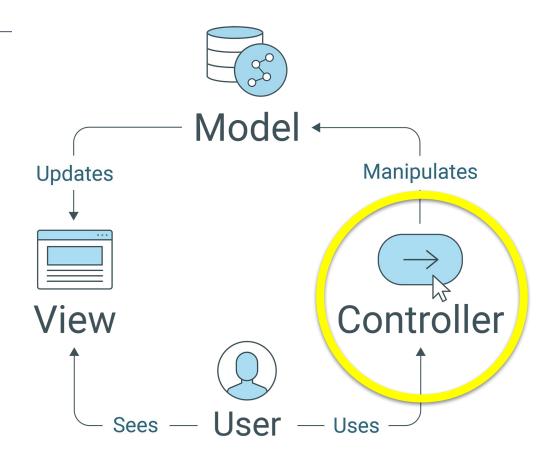
#### **MVC Framework**

The **View** is in charge of UI/UX concerns, or what a user will see and interact with.

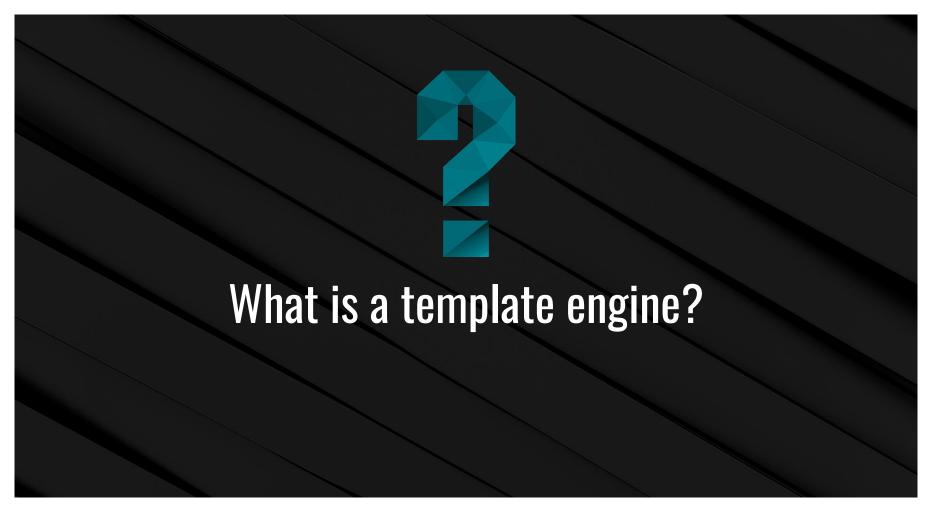


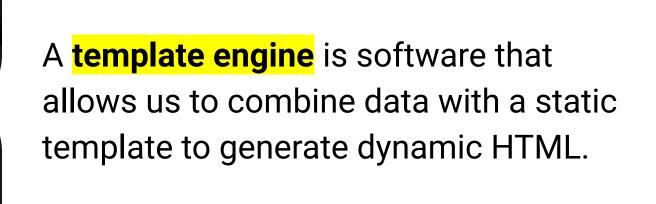
#### **MVC Framework**

The **Controller** is the interface between Models and Views. It processes requests from the View, uses the Model to manipulate data, and sends data to the View to render.



9





## **Template Engines**

Most template engines offer the following features:



Placeholders for data that we wish to include



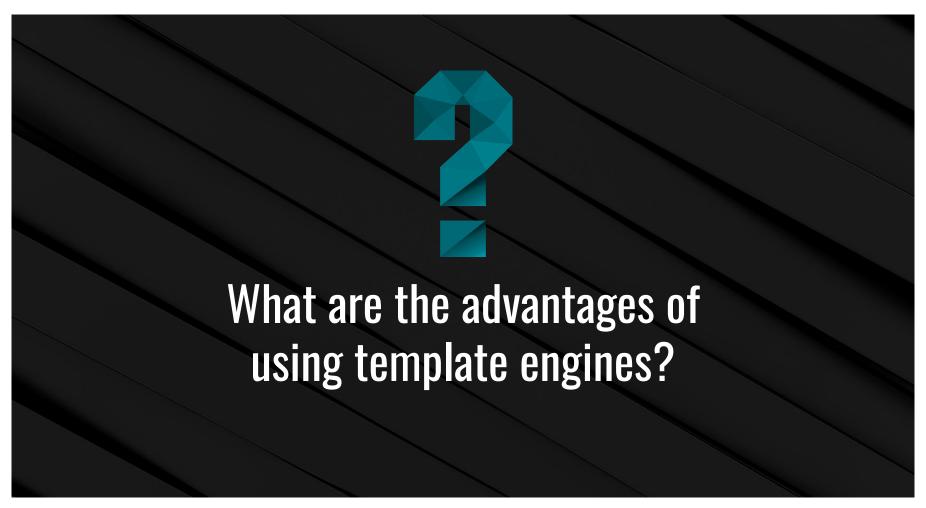
**Functions** 



Conditional rendering and looping



Text replacement



# **Template Engines**

#### Template engines provide the following benefits:



They help us follow the separation of concerns principle and MVC by providing an easy, clean way to separate HTML and JavaScript.



They offer tools that reduce repetition in code.

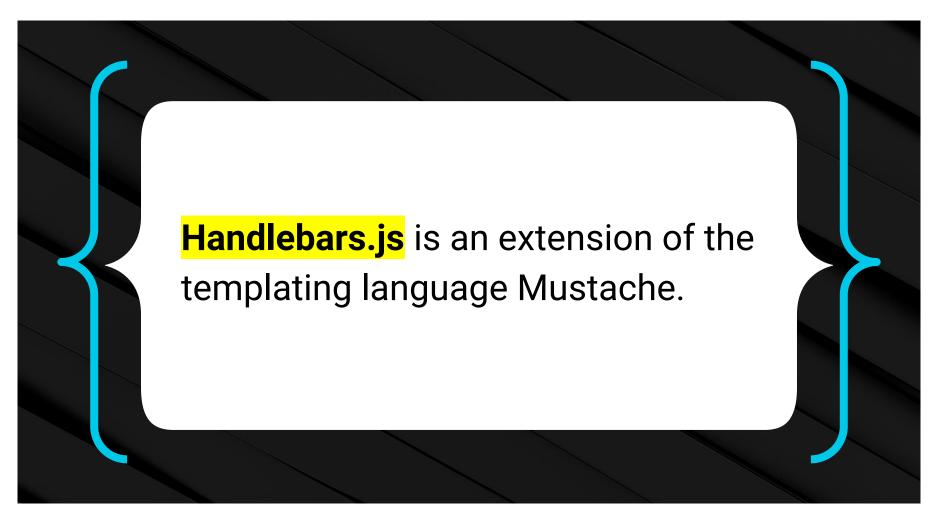


Templates are easy to create, use, and maintain.



They improve SEO and make fewer client-to-server requests.





# {{Handlebars.js}}

01

It is a logicless templating language that separates code from the View. 02

It compiles templates into a single resource and then returns the HTML after replacing variables with data.

03

It is a pure rendering engine—meaning that it has no built-in support for event handling, accessing back-end services, or making incremental DOM updates.



## Why Handlebars.js?

#### Handlebars.js provides the following benefits:



It gives us a great introduction to template engines because it is easy to use but offers a ton of functionality. It isn't the only option out there, but it is a great place to start!



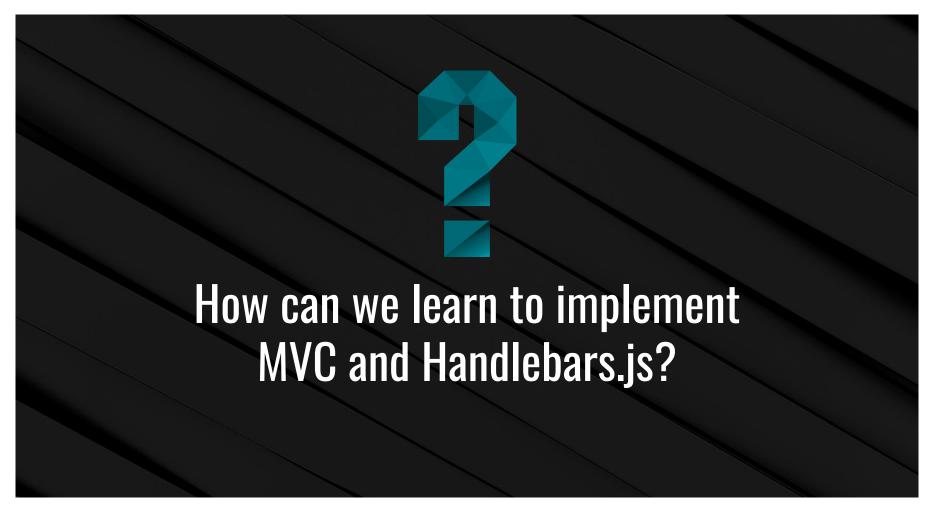
It prepares us to encounter other languages that have this sort of templating built into them.



It helps us follow separation of concerns and the MVC framework.



It is a step towards learning to use heavier frameworks like React.js to build single-page applications.





### How to learn MVC and Handlebars.js

You can try the following strategies to learn MVC and Handlebars.js:

