

**Web APIs**

**Web Development Boot Camp**

**Unit 04**





**What is the web browser?**

# Browsers Access Information on the Web

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A **web browser**, or **browser**, is a program used to access information on the World Wide Web. Every webpage, image, and video on the web can be accessed via a specific **Uniform Resource Locator (URL)**. Browsers use the URL to retrieve resources from a web server and display them on a user's device.



# What is an API?

# Application Programming Interface

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An **API (Application Programming Interface)** is a set of methods, properties, events, and URLs that developers use to interact with components of a user's web browser. APIs can also interact with data sets, hardware or software on a user's computer, and third-party software and services.



# What is a Web API?

# Web APIs Use JavaScript to Manipulate Webpages

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Web APIs are built into the web browser and contain methods that allow us to manipulate a webpage using JavaScript.

We use Web APIs to create elements and add them to the browser or to add and remove styles and attributes—all via JavaScript.



# What is the DOM?

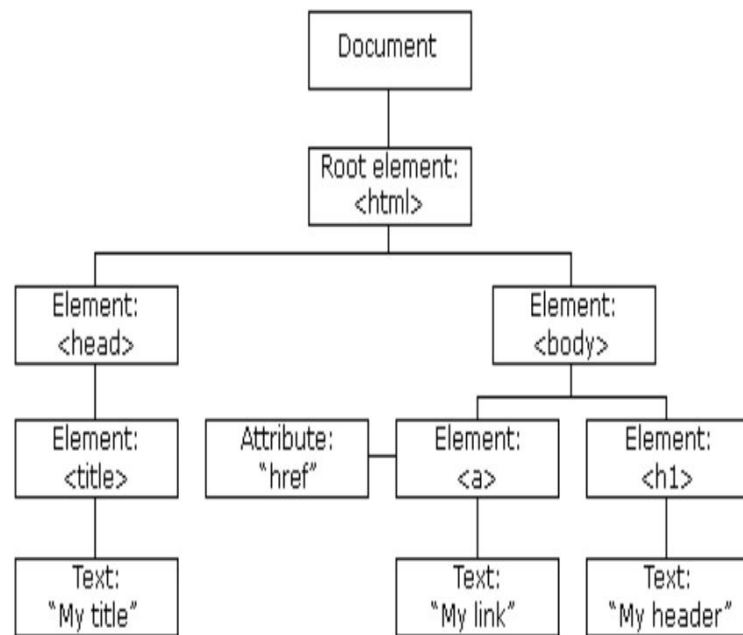


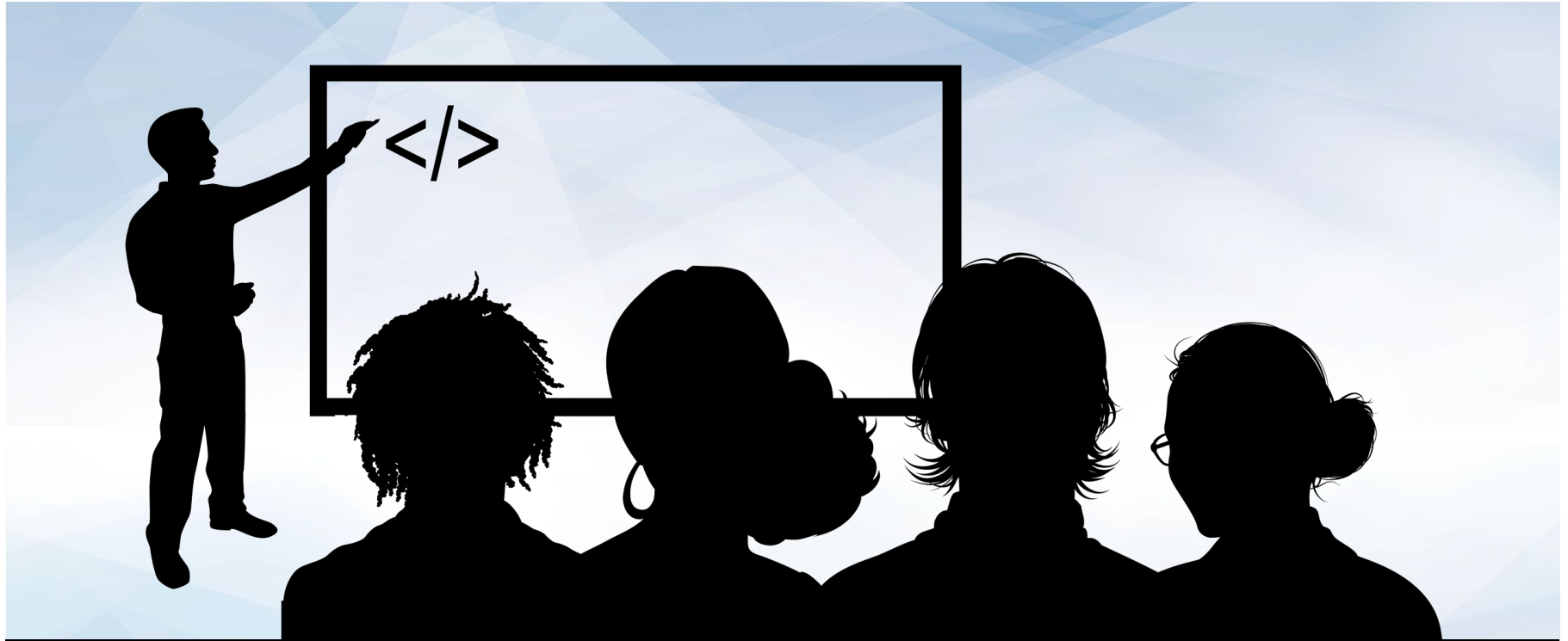
# The Document Object Model

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When we open a webpage, the browser creates a tree of objects that represent the opened page. That tree of objects is the **DOM**, or **Document Object Model**.

Using the DOM, we can manipulate the HTML elements on the page via JavaScript.





# Instructor Demonstration

## Mini Project