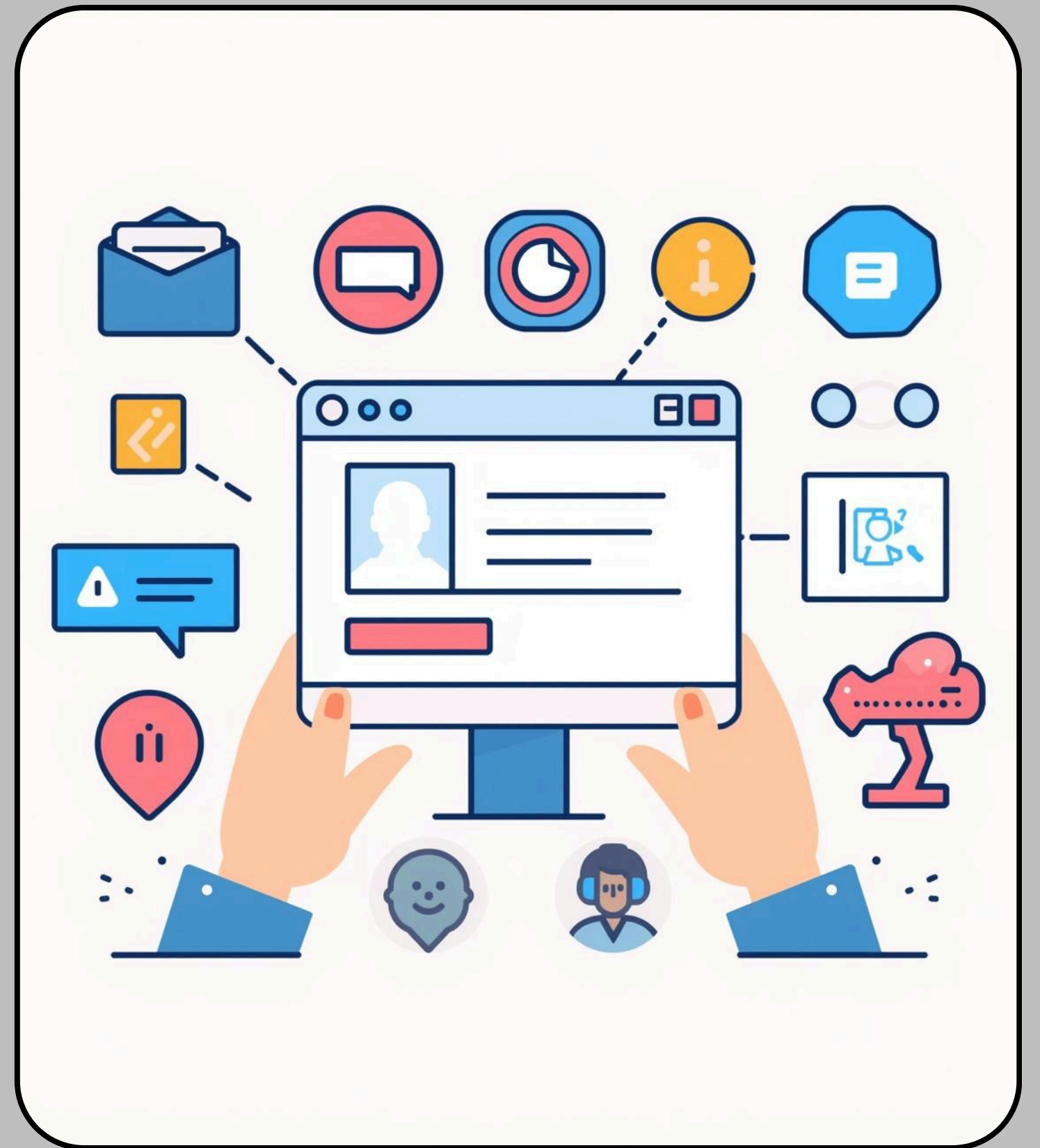


網站介紹

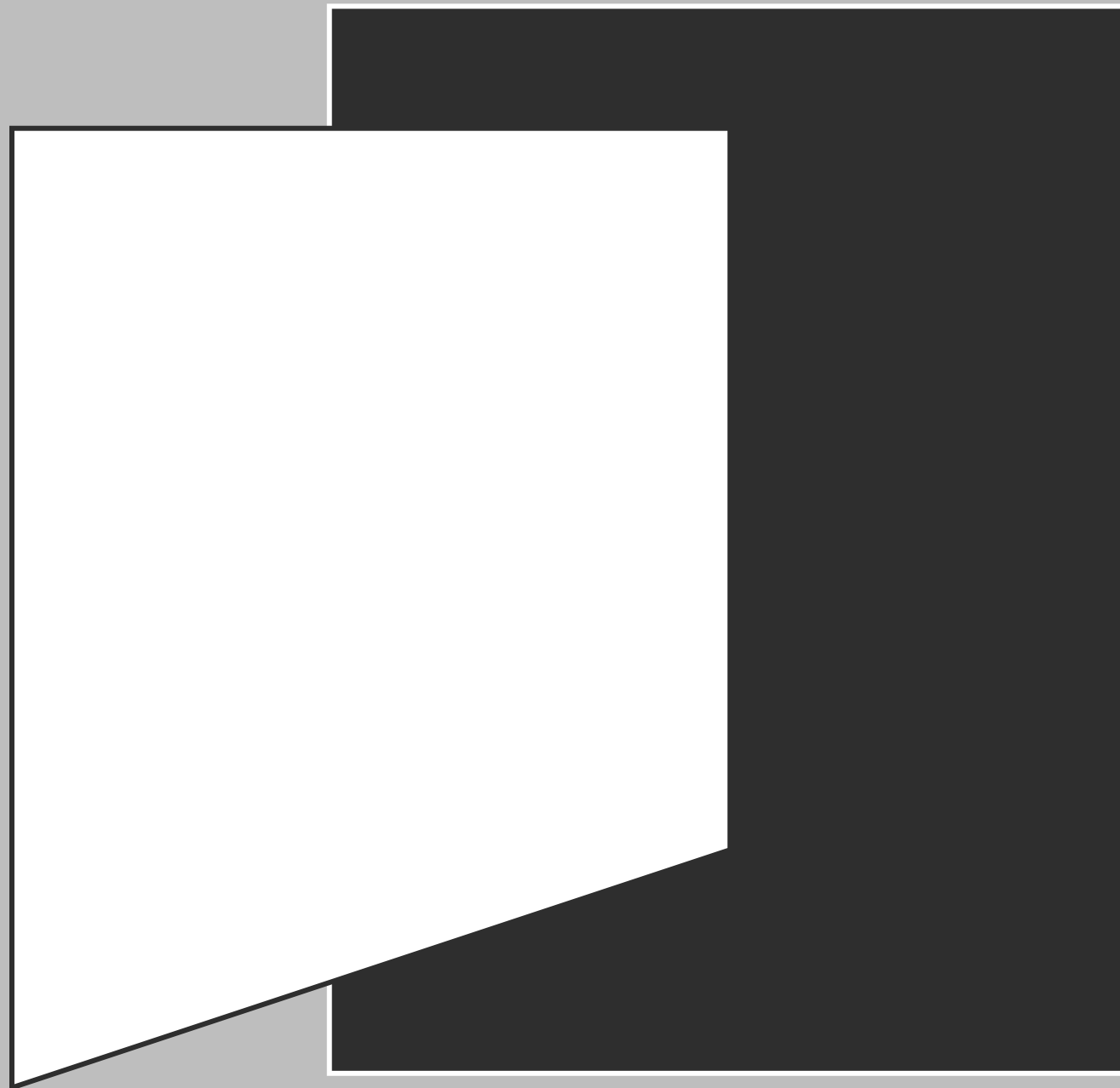
How Websites Work

1411232015	李晏昌
1411232024	傅侑聖



1. Aims of this Presentation

Understand the fundamental Client-Server model.
Identify the key roles of DNS, IP Addresses, and HTTP.
Explain the step-by-step process of how a browser
renders a webpage.



Key Websit Fuctions

網頁的主要功能

Key Website Functions



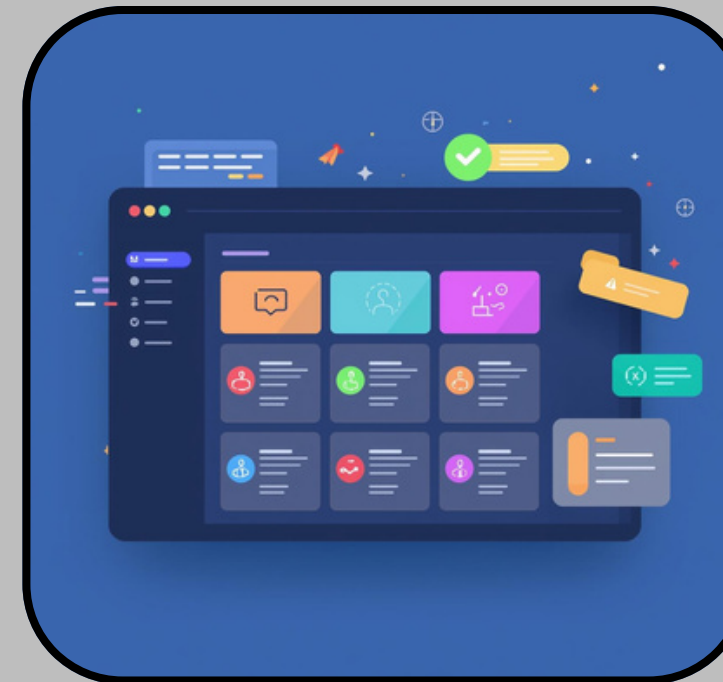
Displaying Information

Websites showcase text, images, and videos effectively.



User Interaction

Engaging elements like forms and buttons enhance experience.



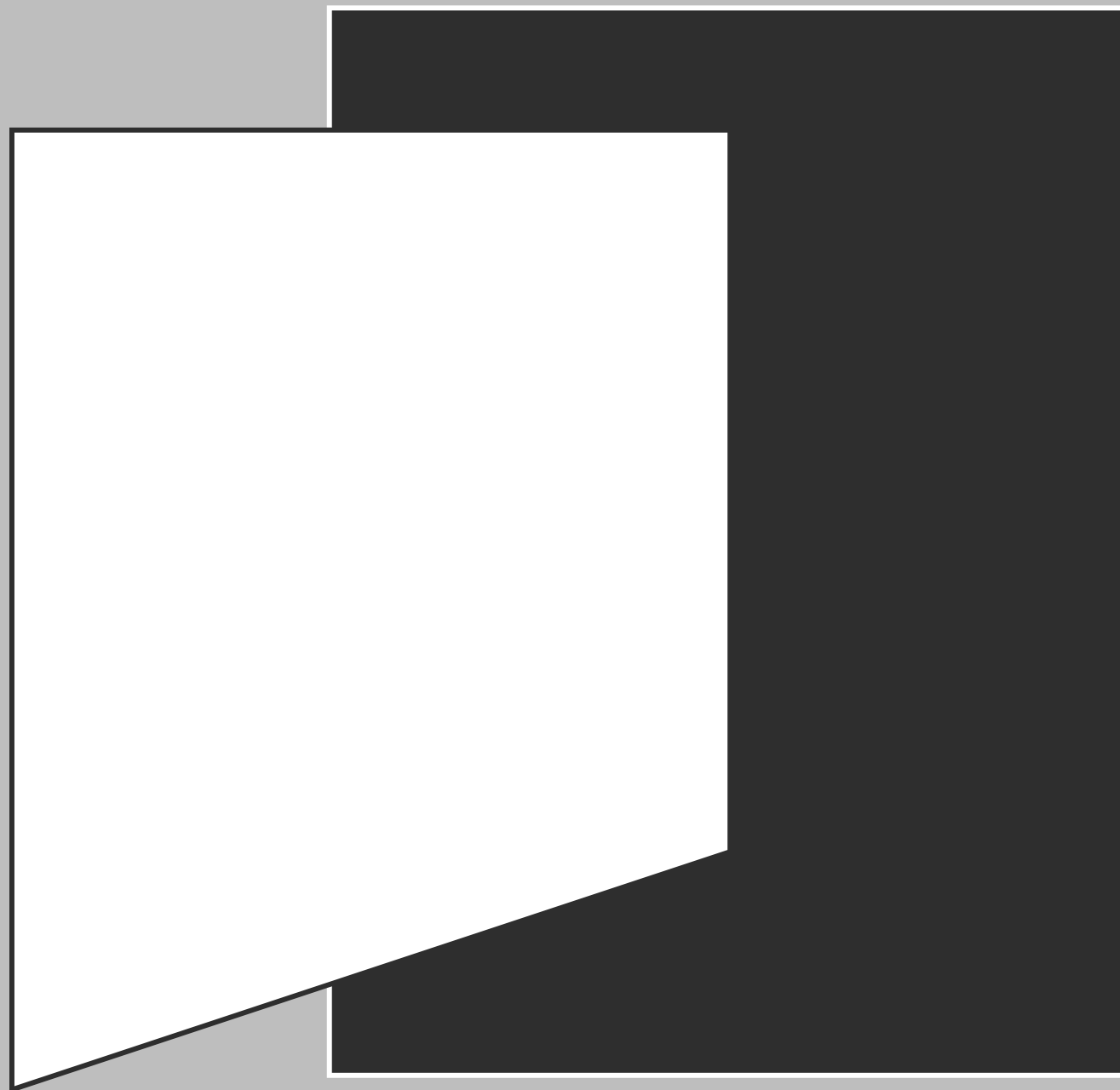
Content Management

Websites allow easy updating and organizing of content.



Communication Features

Contact forms and chat enable user feedback and interaction.



Website Workflow

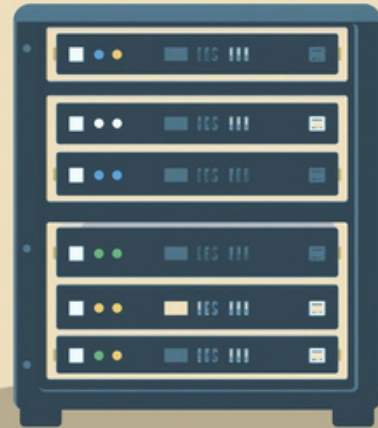
網頁工作流程

Understanding Website Components



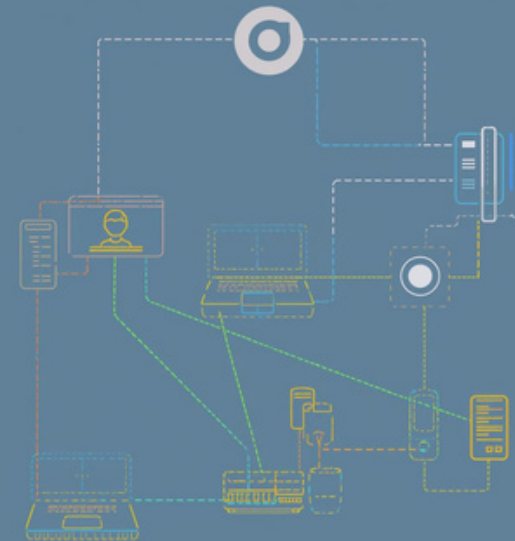
User Device

The computer or phone used for access



Web Server

Hosts the website files and information



Internet

Connects the user and the server



Browser

Displays the website content on screen

Understanding the backbone of web applications

The backend of a website is essential for functionality and performance. It consists of the server-side processing that handles business logic and data management. Key elements include:

Programming Languages: Common languages include Python, PHP, and Node.js, each offering unique advantages for web development.

Database Interaction: Databases store and retrieve data, allowing for dynamic content generation.

APIs: Application Programming Interfaces enable communication between different software components, facilitating data exchange and integration with third-party services.

Understanding these components helps in grasping how websites operate beyond the user interface.

Technologies Behind Websites



Web Development
HTML, CSS, and JavaScript
power websites.

Understanding HTTP and its significance

The HTTP (Hypertext Transfer Protocol) is the fundamental protocol used for communication on the web.

It enables the transfer of data between clients and servers, allowing users to access web content seamlessly.

Key HTTP methods include:

- **GET:** Retrieves data from a server
- **POST:** Sends data to a server for processing
- **PUT:** Updates existing data on a server
- **DELETE:** Removes data from a server

Each method has its specific use case, contributing to the overall functionality and user experience of websites in a dynamic digital landscape.

Understanding CSS and Its Importance

The CSS (Cascading Style Sheets) is the fundamental language used for styling and designing web pages.

It enables the separation of content from presentation, allowing developers to control layout, colors, fonts, and animations seamlessly.

Key CSS features include:

- **Typography:** Defines text size, font, and spacing
- **Colors & Backgrounds:** Sets text colors, gradients, and images
- **Box Model:** Controls margins, borders, and padding of elements
- **Layout Systems:** Uses Flexbox and Grid for responsive design
- **Animations & Transitions:** Adds interactive effects and smooth

Each feature has its specific role, contributing to the overall visual appeal and user experience of websites in a modern digital environment.