

HTML Web APIs

1. HTML Web APIs

HTML Web APIs are a set of built-in interfaces provided by modern web browsers that allow developers to create dynamic and interactive web applications. These APIs enable communication between the browser and system features such as storage, location, background processing, and server communication. HTML Web APIs work with JavaScript and help improve user experience without reloading the webpage.

2. HTML Geolocation

HTML Geolocation API is used to get the geographical location of a user with their permission. It can provide latitude and longitude information using GPS, Wi-Fi, or IP address.

Uses:

- Location-based services
- Maps and navigation systems
- Delivery and tracking applications

Advantages:

- Provides accurate user location
 - Improves personalized user experience
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3. HTML Drag and Drop

HTML Drag and Drop API allows users to drag elements and drop them into a different location on a web page. This feature makes web applications more interactive and user-friendly.

Uses:

- Dragging files to upload
- Rearranging items
- Interactive user interfaces

Advantages:

- Easy to use

- Enhances user interaction
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4. HTML Web Storage

HTML Web Storage API allows data to be stored in the user's browser. It stores data in key-value pairs and does not send data to the server automatically.

There are two types:

- **Local Storage** – stores data permanently
- **Session Storage** – stores data for a single session

Uses:

- Saving user preferences
 - Storing login information
 - Improving website performance
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5. HTML Web Workers

HTML Web Workers API allows scripts to run in the background without affecting the performance of the main webpage. It helps in handling heavy computations.

Uses:

- Background data processing
- Large calculations
- Improving page responsiveness

Advantages:

- Prevents webpage freezing
 - Improves performance
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6. HTML Server-Sent Events (SSE)

HTML Server-Sent Events (SSE) allow a web page to receive automatic updates from a server. The connection remains open and the server sends data continuously.

Uses:

- Live notifications

- News feeds
- Real-time updates

Advantages:

- Simple to implement
- Works over standard HTTP