Documentation

What is WebSocket ?

WebSocket's are a communication protocol that enables real-time, bidirectional communication between a client (like a web browser) and a server.

WebSocket Connection



Advantage -

- Realtime Data Transfer
- Bi-Directional
- Efficient
- Persistent Connection

Use Cases for building WebSockets -

- Chat Application
- Real-Time Gaming
- Collaborative Editing
- Live Updates
- IOT(Internet Of Things)

Difference between HTTP Connection and WebSocket Connection.

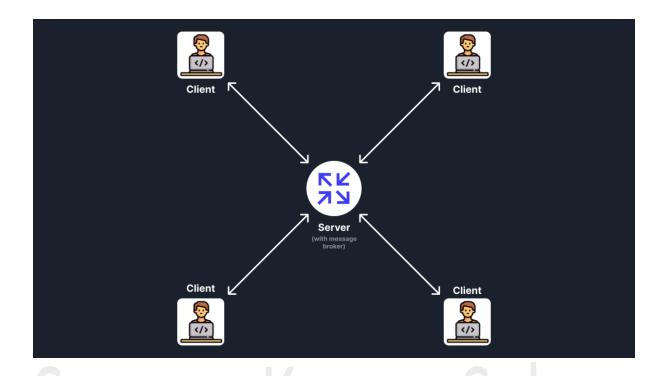
Request Hand Shake Web Socket Web Socket Server VS HTTP Connection Request Response Connection Terminated Server

HTTP Connection	WebSocket Connection
Request-Response	The Handshake
One-Way	Persistent Connection(Two- Way)
Inefficient for Real-Time	Real-Time Data

What is Handshake?

The client and server begin with a standard HTTP request, but this request includes an "Upgrade" header asking to switch to the WebSocket protocol.

WebSocket Message Broker



A WebSocket message broker is a system that facilitates real-time, bidirectional communication between clients and servers using the WebSocket protocol. It acts as an intermediary that manages the distribution of messages between connected clients, often following a publish-subscribe (pub/sub) model.