

# Technical Documentation for YouTube



YouTube is a video-sharing platform that allows users to upload, view, and share videos. It was founded in 2005 and is now owned by Google (Alphabet Inc.). YouTube has become one of the most visited websites globally and has a significant impact on online video consumption, content creation, and social engagement.

YouTube has transformed the way we access and engage with content. Its multifaceted features, such as user accounts, content upload and storage, content discovery, and community engagement, have made it a hub for sharing knowledge, entertainment, and creativity. YouTube's recommendation algorithm ensures that users discover content tailored to their interests, while its monetization strategies, including ads and subscriptions, have empowered creators and advertisers alike.

**Conclusion:**

In this case study, we've explored the design of YouTube's schema and the creation of an Entity-Relationship diagram. YouTube has redefined how people access, share, and engage with video content, enabling a vast and diverse community of content creators and viewers. The intricate data model, encompassing entities such as users, videos, comments, likes, subscriptions, playlists, and recommendations, forms the backbone of YouTube's functionality. Understanding this schema offers valuable insights into how YouTube effectively handles the complexities of content management and user engagement, contributing to its status as a global leader in the world of online video sharing.

**Case Study Link -**

<https://docs.google.com/document/d/1eim7MvLDLaNnbX2xH9nI0MowdRUA1hMWOkZFOb0uU4E/edit?usp=sharing>

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