

# History and benefits of MCP

## Introduction

In this lesson, we took a deep dive into the background and importance of MCP (Model Context Protocol), exploring its **history** and **benefits**. Here's a casual walkthrough of what we've covered.

## Understanding Traditional Interaction Models

- We started by revisiting how users interact with large language models (LLMs).
- Typically, a user communicates with a host, which then interfaces with the underlying LLM.
- Examples include using **Claude Desktop Software** for the Claude LLM and **ChatGPT** with its varying versions like GPT 4.0 or GPT 3.5.

## Limitations of Traditional Systems

- Earlier models required developers to manually code interactions for each **API** and **framework**.
- This process was repetitive and inefficient, leading to developers "reinventing the wheel."
- Every API required understanding and adapting for individual frameworks, which was cumbersome.

## Introduction to MCP

- **MCP** abstracts the "red arrow" – the direct coding and integration hassles.
- Instead of connecting hosts directly to tools, we connect to an **MCP client**.
- The **MCP client** can link with multiple **MCP servers**, facilitating seamless tool integration.

## Benefits of MCP

- MCP pre-programs many of the complexities, making them updatable and standardized.
- Developers and users benefit as they no longer need to manually program each API call.
- With MCP, users can connect hosts to external services with minimal JSON configuration.

## Developer and User Advantages

- **Developers:** Only need to support an MCP client to access myriad MCP servers.
  - Eases the process of connecting to external APIs.
  - Simplifies the logic needed to integrate different services.
- **Users:** Can effortlessly connect services like Airbnb, Dropbox, etc., without custom coding.
  - Simply find a compatible MCP server and configure it with the host.

## Real-world Impact

- Many companies are now supporting MCP, indicating its growing popularity.

- Companies like **Zapier** and **Cloudflare** have developed MCP servers for their APIs.

## Course Highlights

- This course not only explains the concept but also guides on creating MCP servers and clients.
- We emphasize reducing complex integrations into just a few lines of **JSON code**.
- If a desired MCP server doesn't exist, the course provides instructions to build one.

## Conclusion

- MCP revolutionizes the way we connect tools and systems with LLMs, significantly benefiting both users and developers.
- By simplifying integration processes, MCP empowers us to focus on more innovative tasks rather than repetitive coding.

By understanding **MCP**, we can efficiently build and maintain scalable agentic AI applications. Let's leverage these insights to enhance our development practices!