# Other MCP primitives (resources and prompts)

#### **Overview**

In this lesson, we dove into the lesser-known MCP server primitives resources and prompts. We've primarily focused on tools before, so now it's time to expand our understanding of what else MCP servers can offer, even though these components are less frequently used.

### **Tools Recap**

- Tools are the backbone of an MCP server.
  - They're akin to making a POST request in a RESTful API.
  - They perform actions like processing data, connecting to external APIs, taking screenshots, or automating processes.
  - The LLM decides which tool to call, how, and with what arguments.
  - We've covered this in detail previously, emphasizing that tools are the most utilized part of MCP servers.

## **Understanding Resources**

- Resources provide contextual data to MCP hosts or clients.
  - Think of resources like making a GET request.
  - They allow the LLM to access additional context as needed.
  - Used for adding data like inventory lists or user data to the MCP server's context.
  - Resources are application controlled, meaning each MCP host might handle them differently.
  - Despite their usefulness, many prefer tools over resources due to overlapping functionalities.

## **Exploring Prompts**

- Prompts are lists of predefined templates you can offer to users.
  - They help users craft well-structured inputs for LLMs.
  - Imagine having a library of prompts for writing research reports: users pick a prompt, customize it slightly, and get consistent results from
  - Prompts cater to efficient and effective use of LLM capabilities but are not as central as tools.

## Conclusion

- While **resources** and **prompts** might not be the main players, they serve crucial roles in specific scenarios, enriching the overall MCP architecture.
- We're going much deeper into this topic throughout the course, especially focusing on real-life examples.
- It's critical to have a comprehensive grasp of MCP server components, even if tools take center stage most of the time.

This session aims to ensure we're equipped with a holistic understanding of everything MCPs can offer. If you're keen on building complete MCP solutions, knowing these nuances will be invaluable!