

ANTHROPIC

WELCOME TO THE CURSORE

Introducing MCP

MCP clients

Hands-on with MCP servers

Project setup

Defining tools with MCP

The server inspector

Course satisfaction survey

Connecting with MCP clients

Implementing a client

Defining resources

Accessing resources

Defining prompts

Prompts in the client

Assessment and wrap Up

Final assessment on MCP

MCP review

Prompts in the client

Open in Claude

mcp_client.py

50 async def call_tool(
51 self, tool_name: str, tool_input: dict
52) -> types.CallToolResult | None:
53 return await self.session().call_tool(tool_name, tool_input)
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68 if resource.mimetype == "application/json":
69 return json.loads(resource.text)

The final step in building our MCP client is implementing prompt functionality. This allows us to list all available prompts from the server and retrieve specific prompts with variables filled in.

Implementing List Prompts

The `list_prompts` method is straightforward. It calls the session's list prompts function and returns the prompts:

```
async def list_prompts(self) -> list[types.Prompt]:  
    result = await self.session().list_prompts()  
    return result.prompts
```

Getting Individual Prompts

The `get_prompt` method is more interesting because it handles variable interpolation. When you request a prompt, you provide arguments that get

Next

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```
async def get_prompt(self, prompt_name, args: dict[str, str]):  
    result = await self.session().get_prompt(prompt_name, args)  
    return result.messages
```

For example, if your server has a `format_document` prompt that expects a `doc_id` parameter, the arguments dictionary would contain `{"doc_id": "plan.md"}`. This value gets interpolated into the prompt template.

Testing Prompts in Action

Once implemented, you can test prompts through the CLI. When you type a slash (/), available prompts appear as commands. Selecting a prompt like "format" will prompt you to choose from available documents.

```
mcp) $ mcp uv run main.py  
/format plan.md  
  deposition.md  
  report.pdf  
  financials.docx  
  outlook.pdf  
  plan.md  
  spec.txt
```

Next

Next

How Prompts Work

Prompts

- Defines a set of User and Assistant messages that can be used by the client
- These prompts should be high quality, well-tested, and relevant to the overall purpose of the MCP

MCP Server

```
from prompt_toolkit import Prompt  
  
def format_document(  
    doc_id: str  
)-> list[Message]:  
    """Return a list of messages"""
```

Prompts define a set of user and assistant messages that clients can use. They should be high-quality, well-tested, and relevant to your MCP server's

Next

purpose. The workflow is:

- Write and evaluate a prompt relevant to your server's functionality
- Define the prompt in your MCP server using the `@mcp.prompt` decorator
- Clients can request the prompt at any time
- Arguments provided by the client become keyword arguments in your prompt function
- The function returns formatted messages ready for the AI model

This system creates reusable, parameterized prompts that maintain consistency while allowing customization through variables. It's particularly useful for complex workflows where you want to ensure the AI receives properly structured instructions every time.