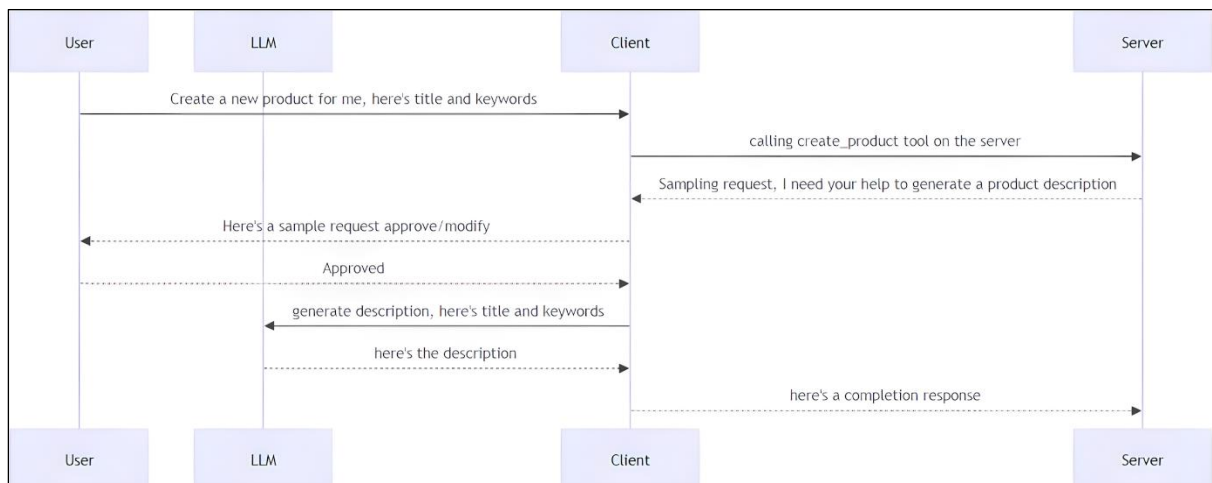
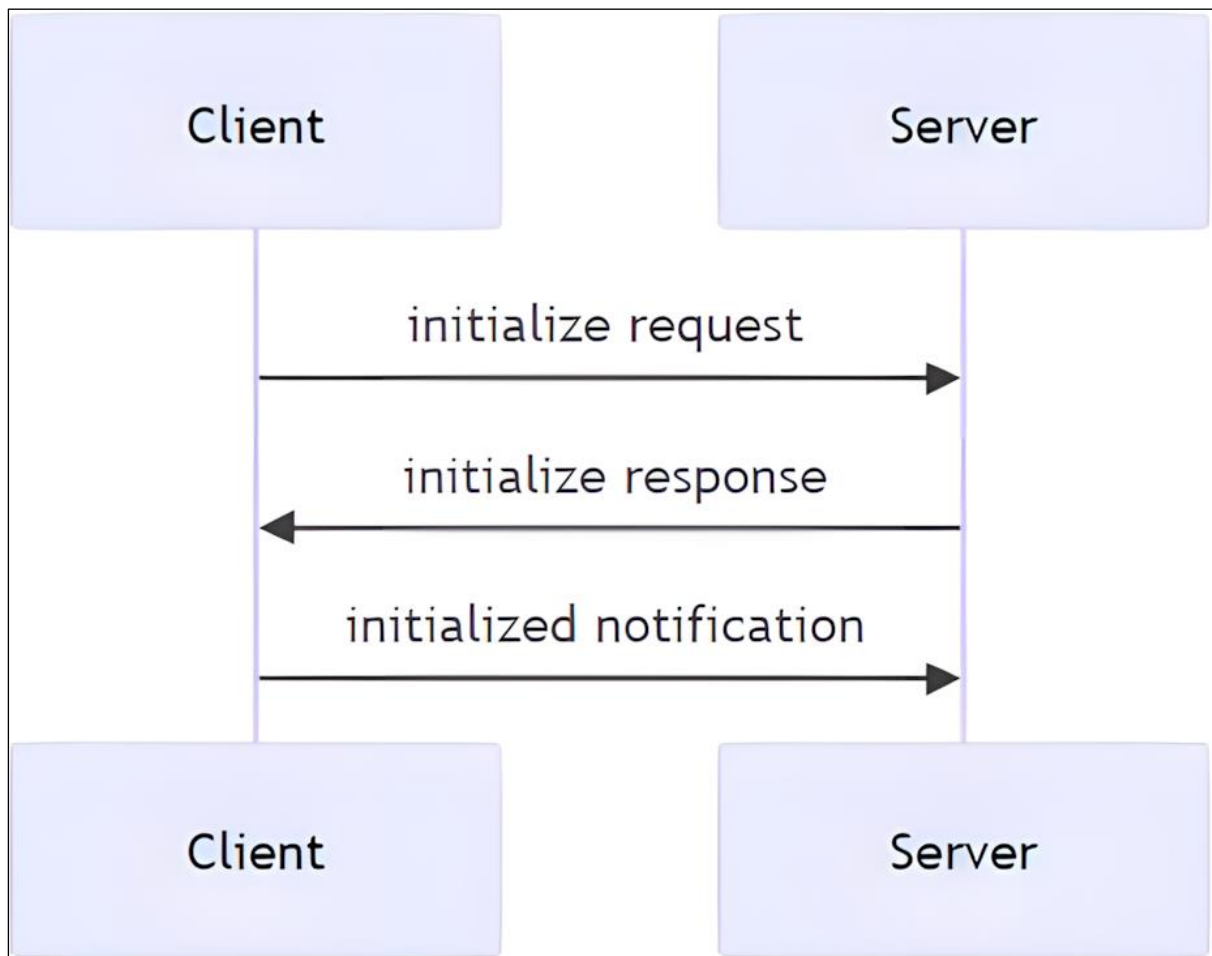
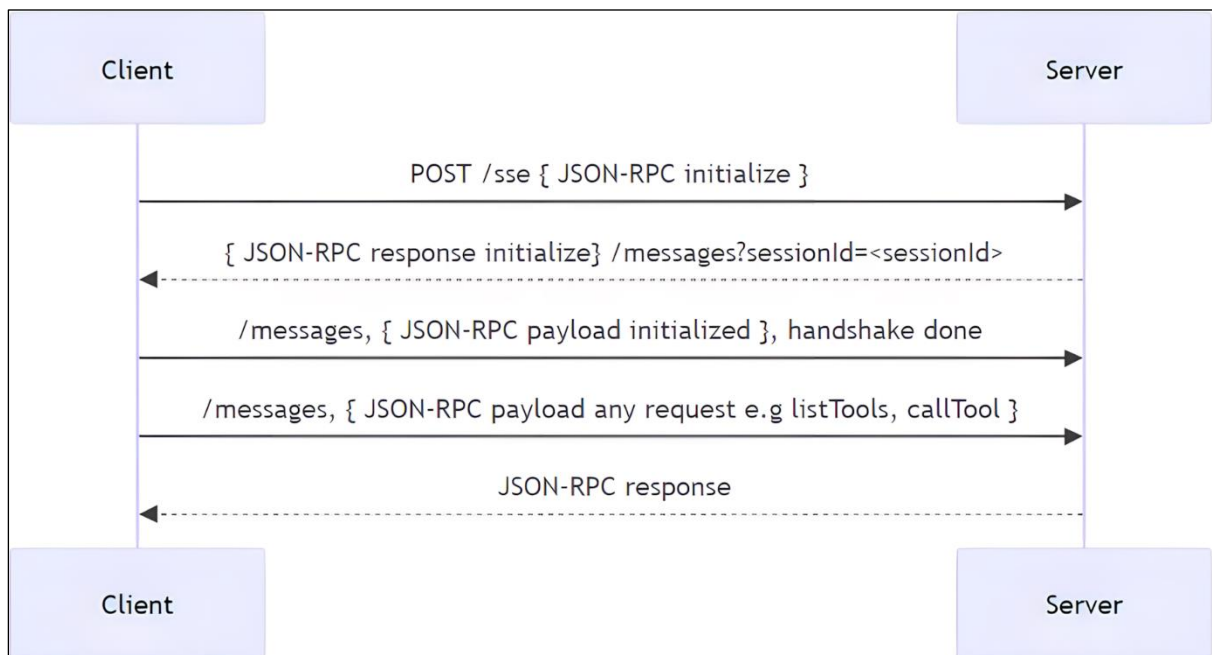
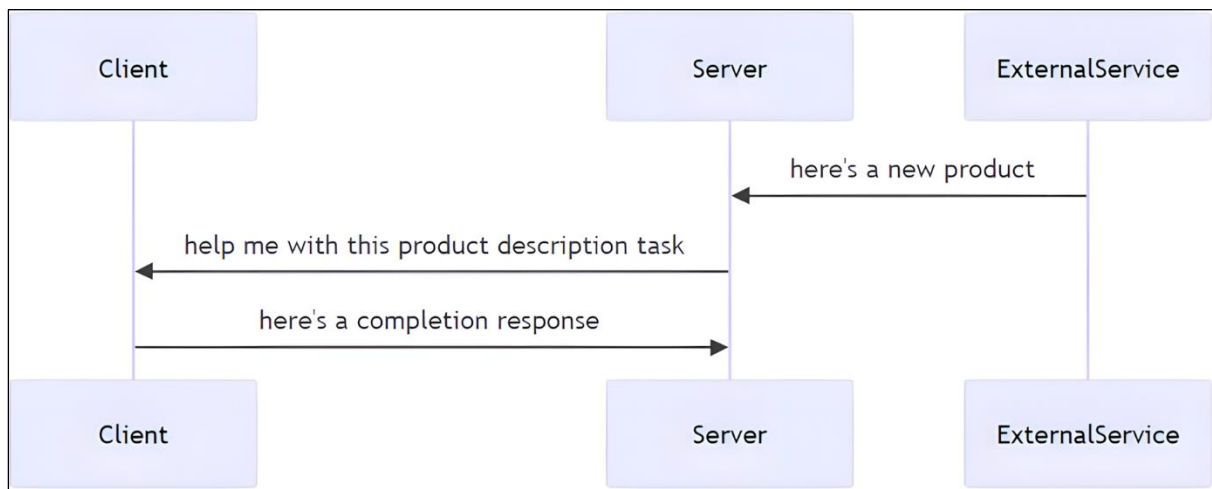
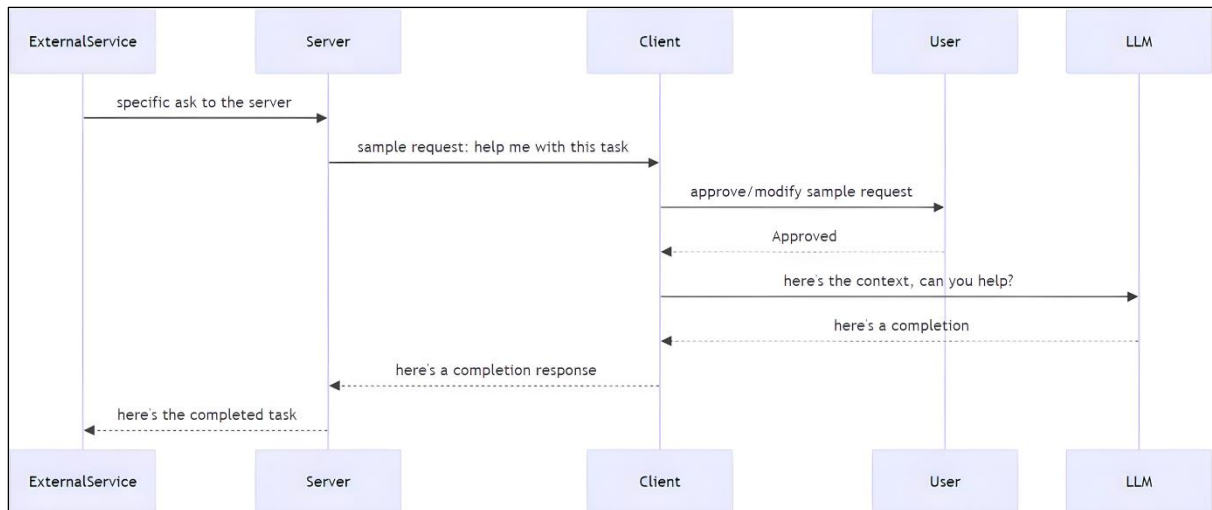
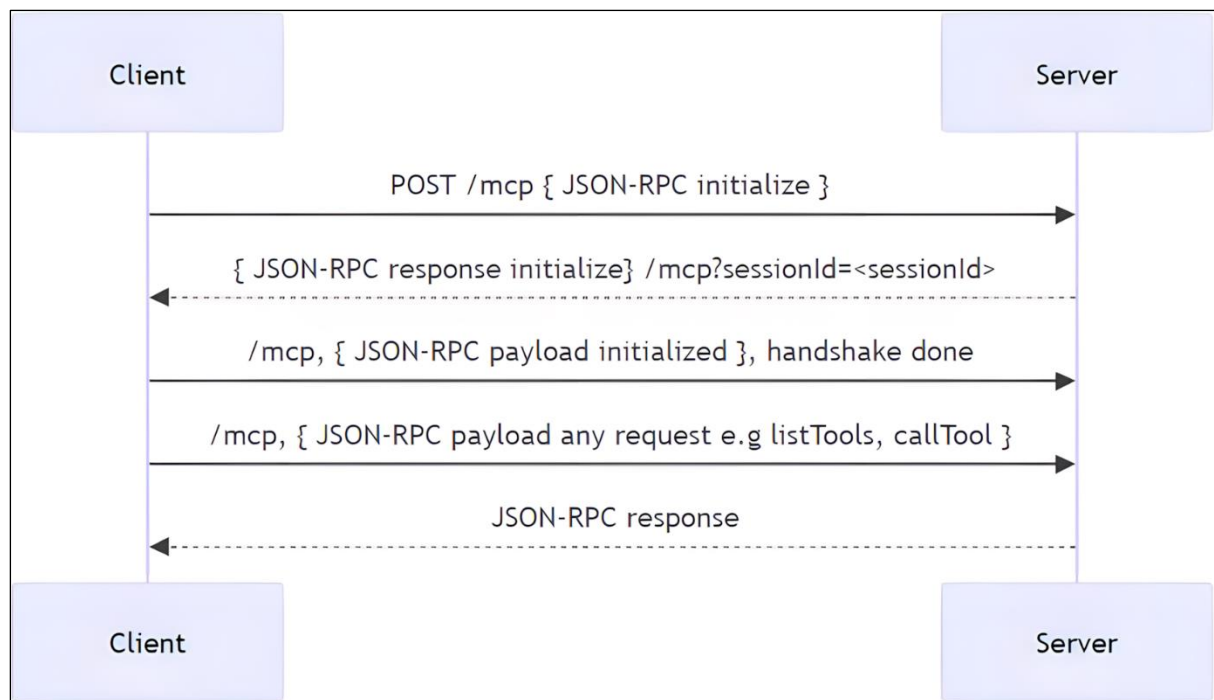


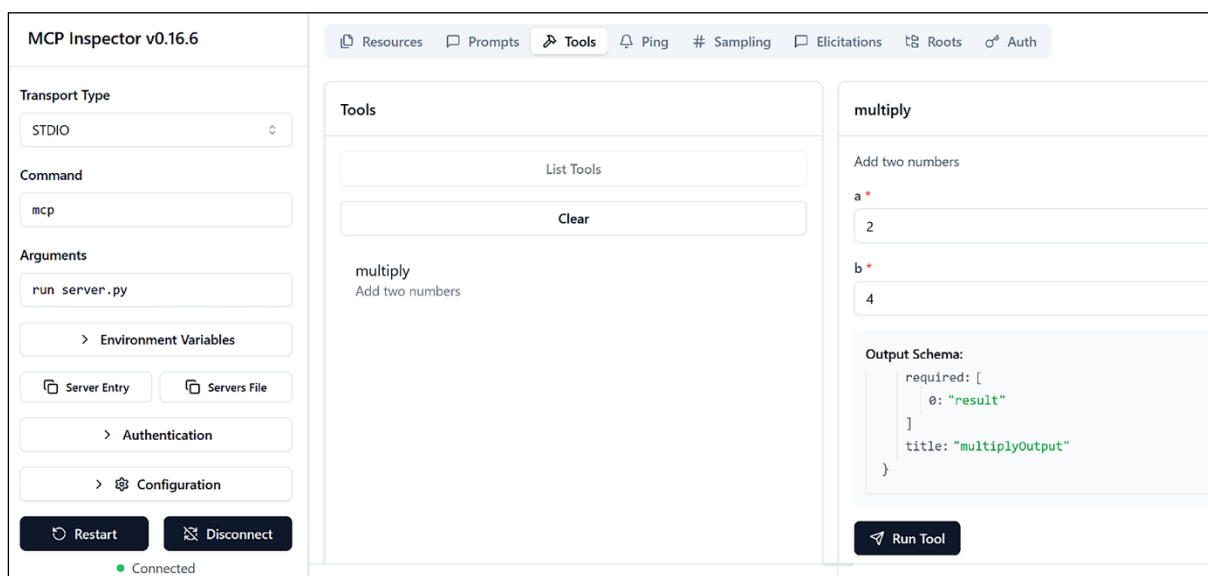
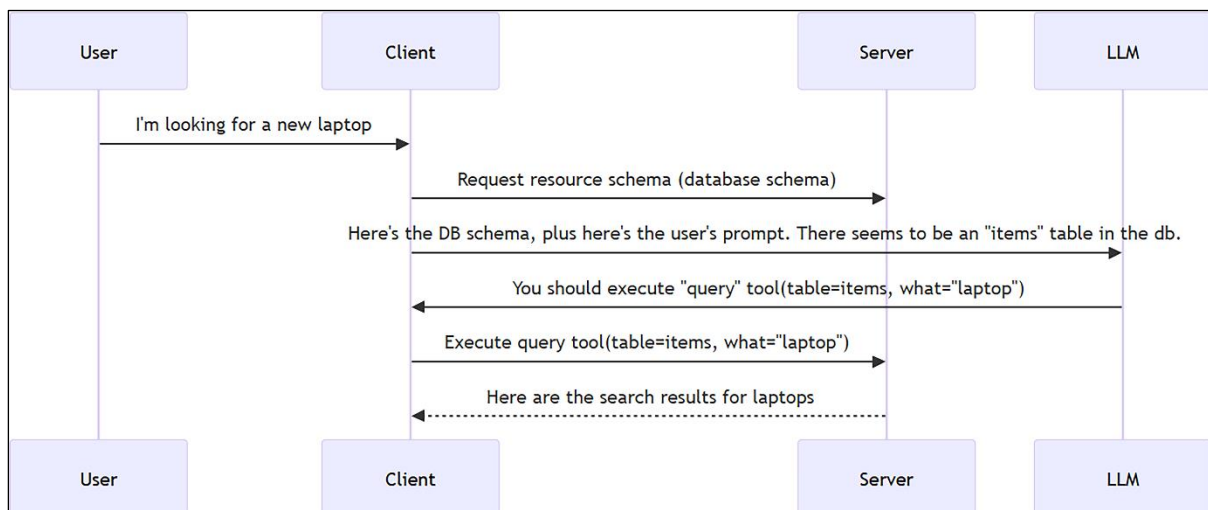
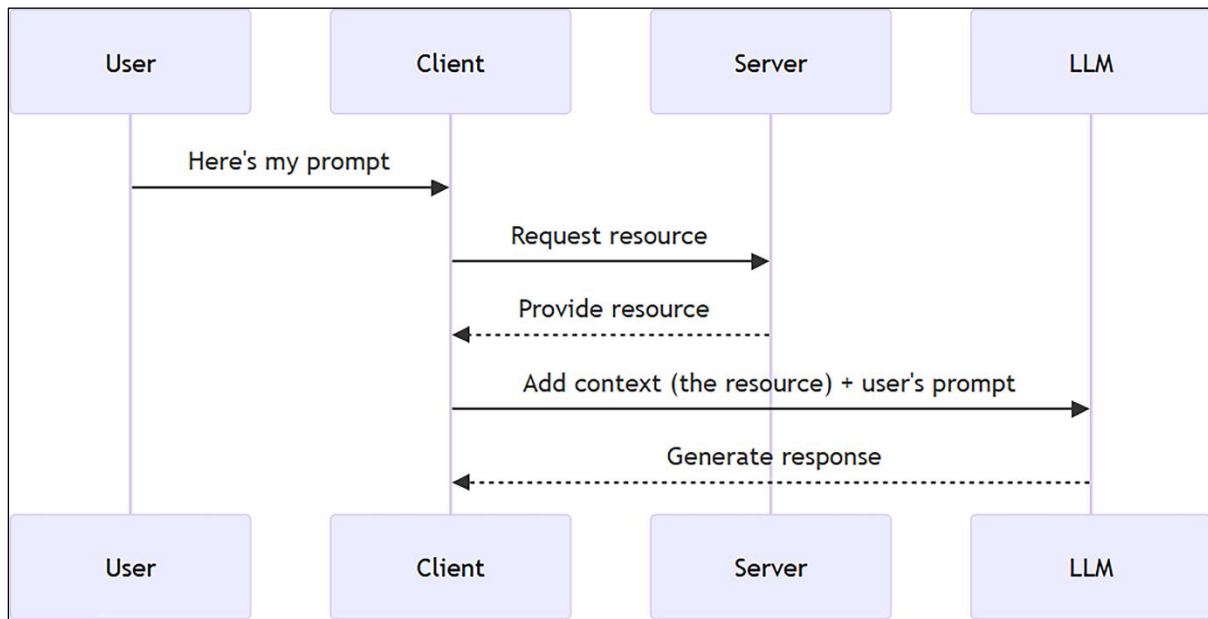
Chapter 2: Explaining the Model Context Protocol



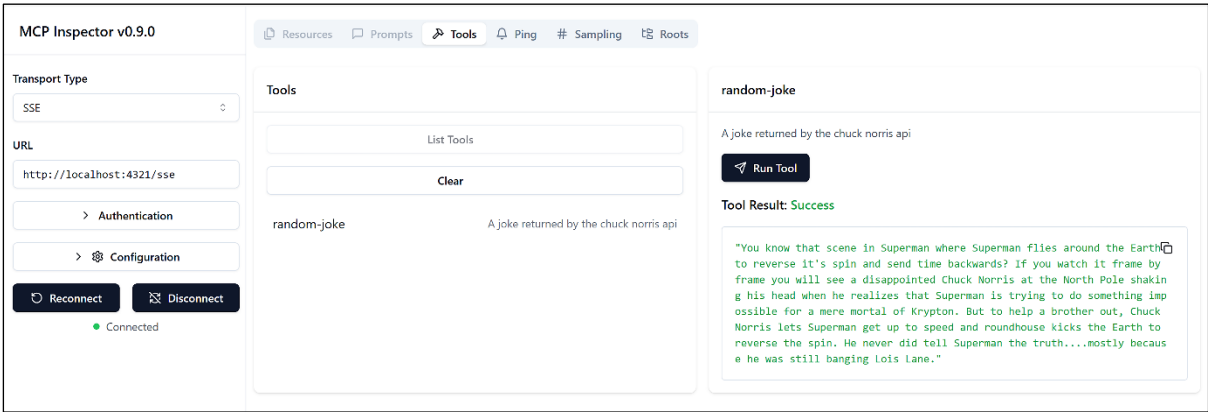




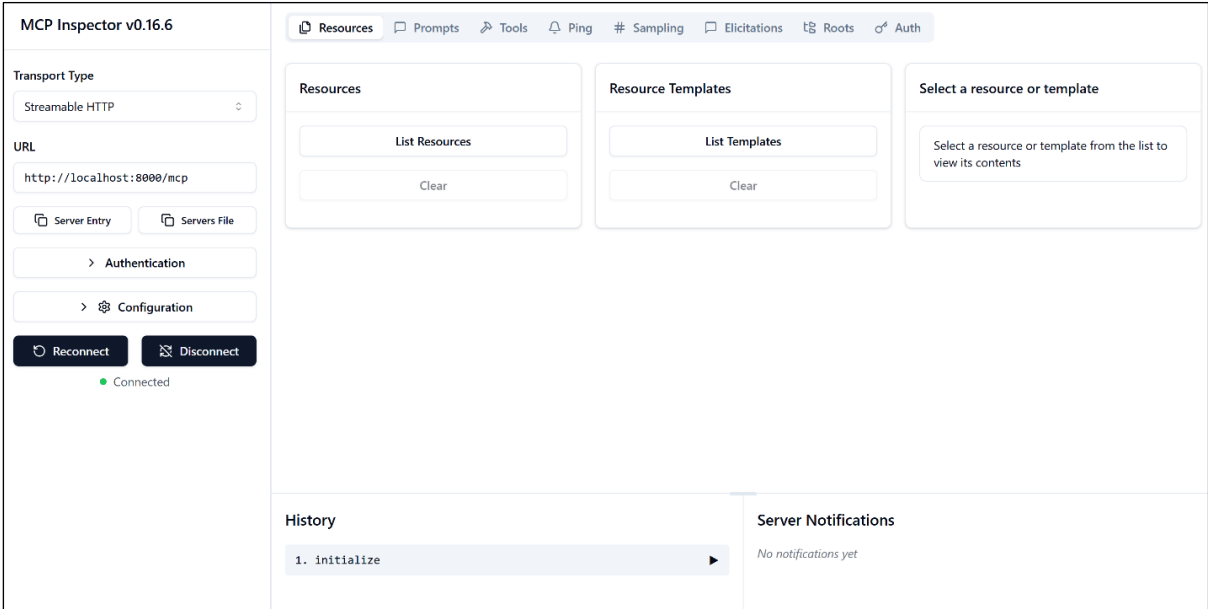
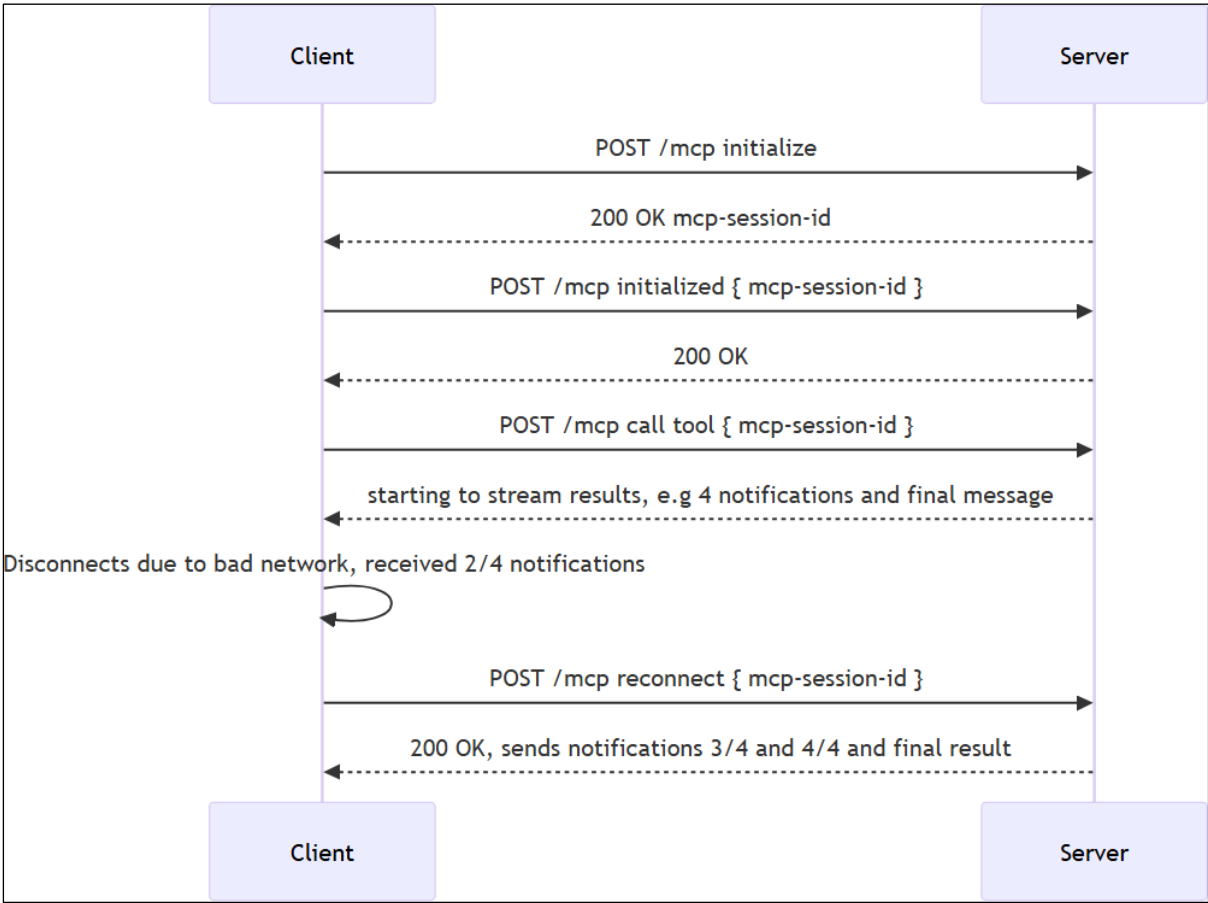
Chapter 3: Building and Testing Servers



Chapter 4: Building SSE Servers



Chapter 5: Streamable HTTP



 Run Tool

Tool Result: **Success**

Structured Content:

```
{  
  result: "Here's the file content: hello"  
}
```



✓ Valid according to output schema

Unstructured Content:

⚠ No text block matches structured content

```
"Here's the file content: hello"
```



Server Notifications

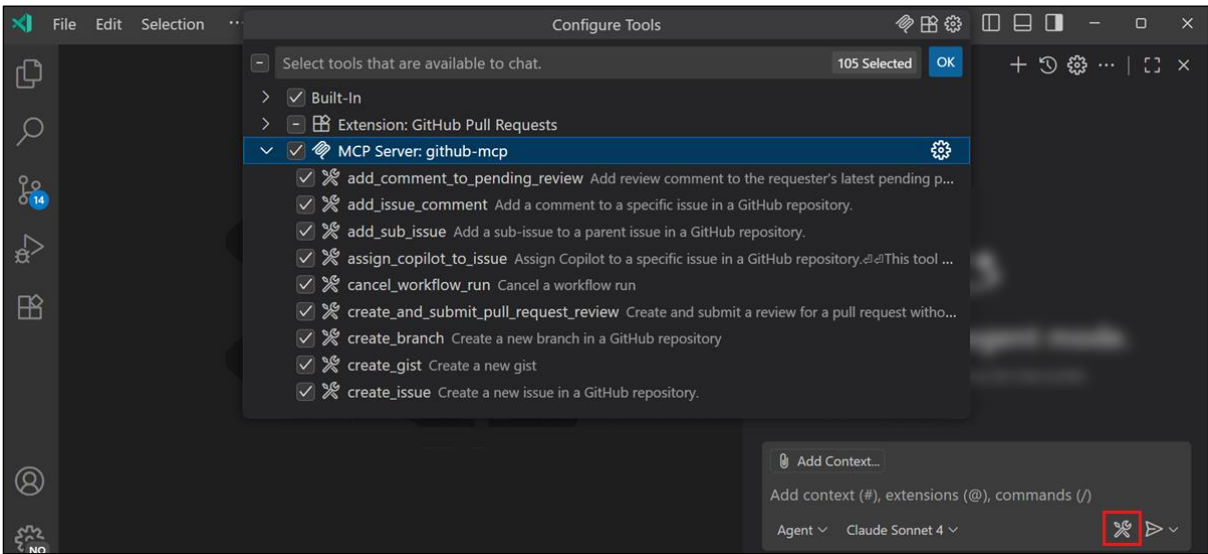
3. notifications/message ▼

Details:

```
{  
  method: "notifications/message"  
  params: {  
    level: "info"  
    data: "Processing file 3/3:"  
  }  
}
```



Chapter 8: Consuming Servers



Choose the type of MCP server to add		
Command (stdio)	Run a local command that implements the MCP protocol	Manual Install
HTTP (HTTP or Server-Sent Events)	Connect to a remote HTTP server that implements the MCP protocol	
NPM Package	Install from an NPM package name	Model-Assisted
Pip Package	Install from a Pip package name	
Docker Image	Install from a Docker image	
Browse MCP Servers...		



Playwright

Microsoft

Automate web browsers using accessibility trees for testing and data extraction.

Install Playwright

▼

MCP SERVERS - INS...



my-mcp-server-3bd3...



playwright



Start Server

Stop Server

Restart Server

Restart Server

Show Output

Show Configuration

Show Configuration (JSON)

Configure Model Access

Show Sampling Requests

Browse Resources

Uninstall

Run Navigate to a URL – playwright (MCP Server)

Navigate to a URL

Input

```
{ "url": "https://tfl.gov.uk/" }
```

Note that MCP servers or malicious conversation content may attempt to misuse 'Code - Insiders' through tools.

Continue | ✓

Cancel

> Used 1 reference

> Ran Navigate to a URL – playwright (MCP Server) ✓

Run Click – playwright (MCP Server)

Perform click on a web page

Input

```
{ "element": "Accept only essential coo
```

[See more](#)

Note that MCP servers or malicious conversation content may attempt to misuse 'Code - Insiders' through tools.

Continue | ✓

Cancel

```
10 server.registerTool("add", {
11     title: "Addition Tool",
12     description: "Add two numbers",
13     inputSchema: { a: z.number(), b: z.number() }
14 }, async ({ a, b }) => ({
15     content: [{ type: "text", text: String(a + b) }]
16 }));
17 // Start receiving messages on stdin and sending messages on stdout
18 async function main() {
19     console.log("Starting MCP server...");
20     const transport = new StdioServerTransport();
21     await server.connect(transport);
22 }
23 main();
24
```

>mcp

MCP: Reset Cached Tools

recently used 

MCP: Reset Trust

MCP: Open User Configuration

MCP: Add Server...

Accounts: Manage Trusted **MCP** Servers For Account

other commands

Extensions: Focus on **MCP** Servers - Installed View

Markdown: **C**hange **P**review Security Settings

MCP: Browse Resources...

MCP: Browse Servers

MCP: List Servers

MCP: Open Remote User Configuration

MCP: Open Workspace Folder MCP Configuration

MCP: Show Installed Servers

EXTENSIONS: MCP SERVERS



@mcp



Fabric Real-Time Inte... ★ 54

Query Eventhouse/ADX wit...

microsoft

Install



Terraform ★ 936

Seamlessly integrate with T...

hashicorp

Install



Figma Dev Mode ★ 4

Expose design context to ...

figma

Install



Azure Kubernetes Se... ★ 85

Interact with Azure Kubern...

Azure

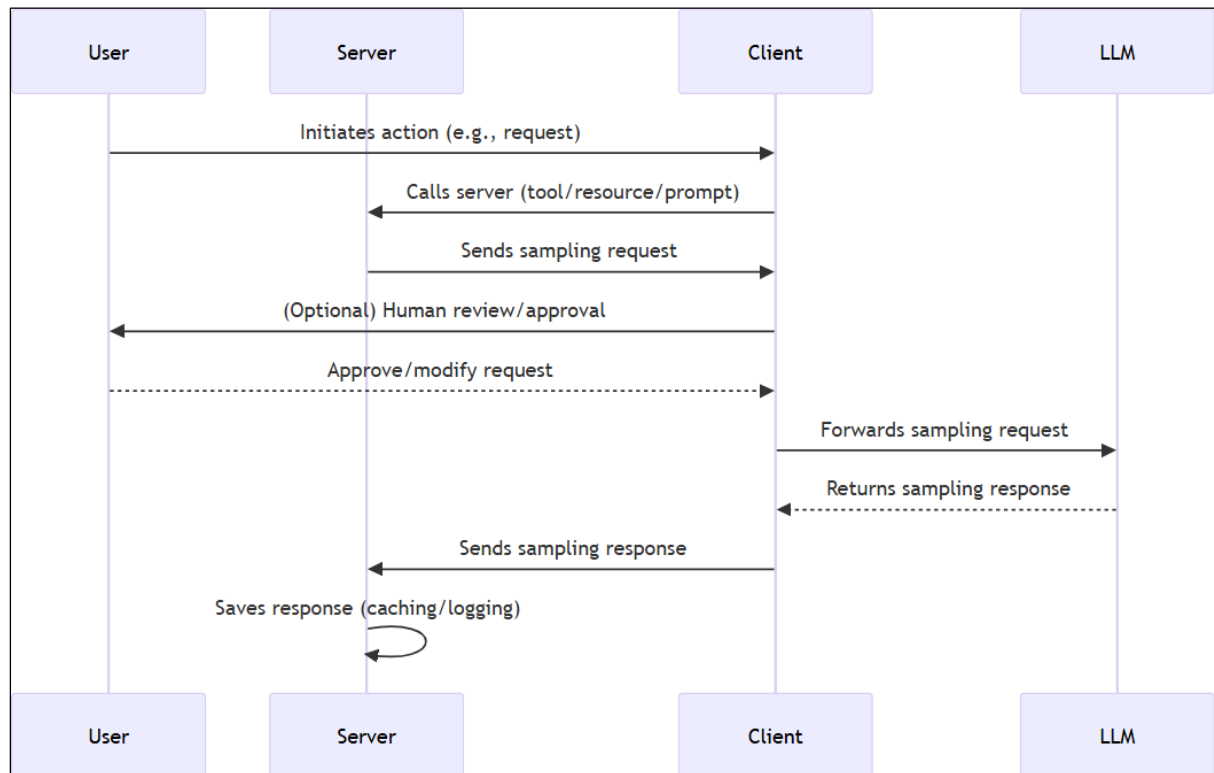
Install



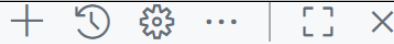
Serena ★ 12K

Semantic code retrieval & e...

Chapter 9: Sampling



CHAT



create a product tomato with keywords
red, juicy

> Used 1 reference

> Thought for a few seconds

✓ Ran `create_product` –
sampling (MCP Server) ✓

Input

```
{  
  "product_name": "tomato",  
  "keywords": "red, juicy"  
}
```

Output

```
{"id": 1, "name":  
"tomato", "description":  
"# Garden-Fresh  
Tomatoes\n\nPerfectly  
**red** and incredibly  
**juicy**, our premium  
tomatoes are the ideal  
addition to your kitchen.  
Harvested at peak  
ripeness, each tomato  
delivers an explosion of  
garden-fresh flavor with  
every bite.\n\n##
```

Add Context...

`mcp.json` +

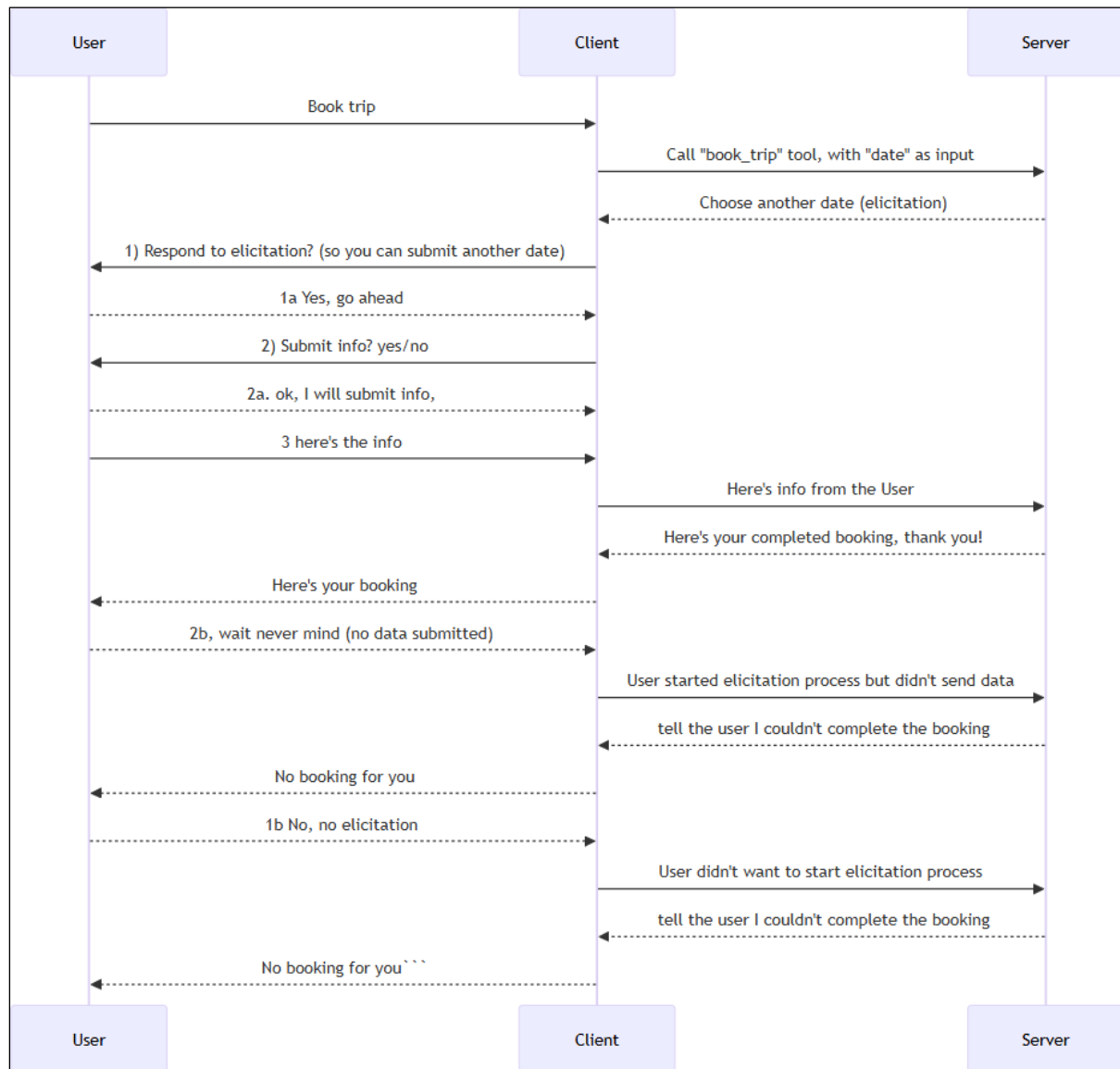
Add context (#), extensions (@), commands

Agent ▾

Copilot-SWE ▾



Chapter 10: Elicitation



book trip on 2025-01-02

> Used 1 reference

Run `book_trip` – elicitation-test (MCP Server)

Book a trip with date availability check.

Input

```
{ "date": "2025-01-02" }
```

Note that MCP servers or malicious conversation content may attempt to misuse 'Code - Insiders' through tools.

Continue | 

Cancel



book trip on 2025-01-02

> Used 1 reference

> Running **book_trip** – elicitation-
test (MCP Server)



Request for Input – elicitation-
test (MCP Server)

No trips available on 2025-01-02. Would you
like to try another date?

Respond

Cancel



Check alternative (1/2)

Would you like to check another date?

true

false



Alternative date (2/2)

2025-01-01

▶ 2025-01-01

None No selection

book trip on 2025-01-02

> Used 1 reference

> Ran `book_trip` – elicitation-
test (MCP Server)

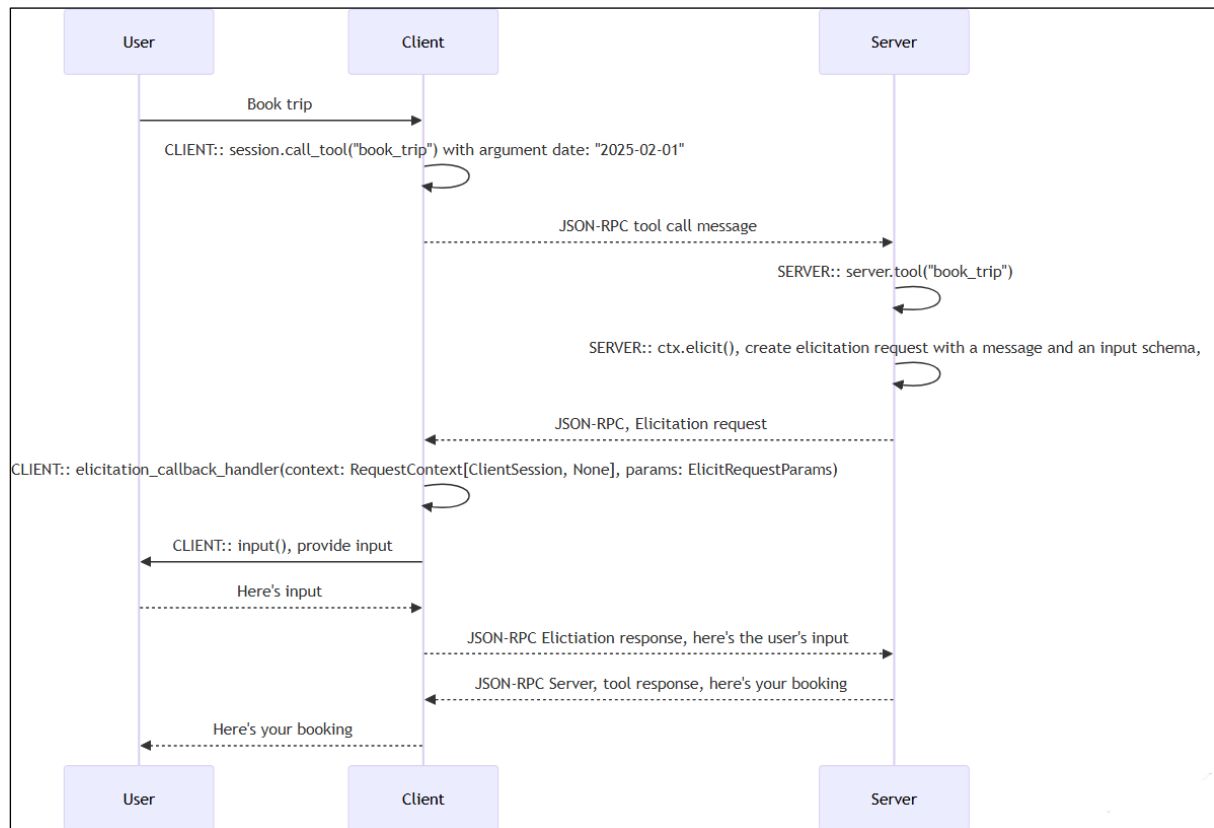


Request for Input – elicitation-
test (MCP Server)

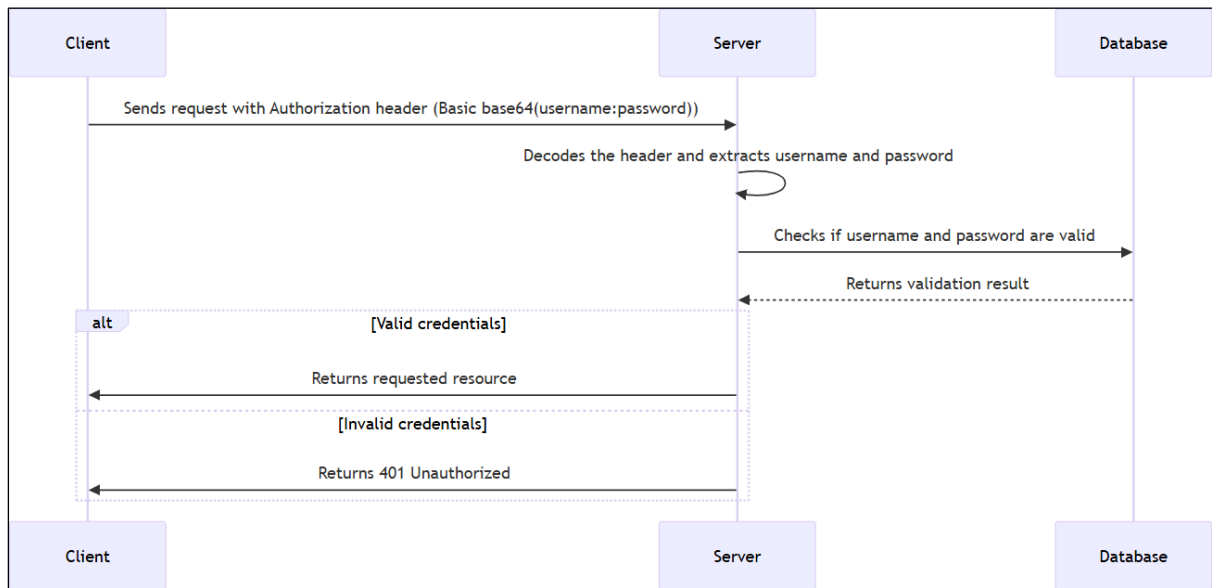
No trips available on 2025-01-02. Would you
like to try another date?

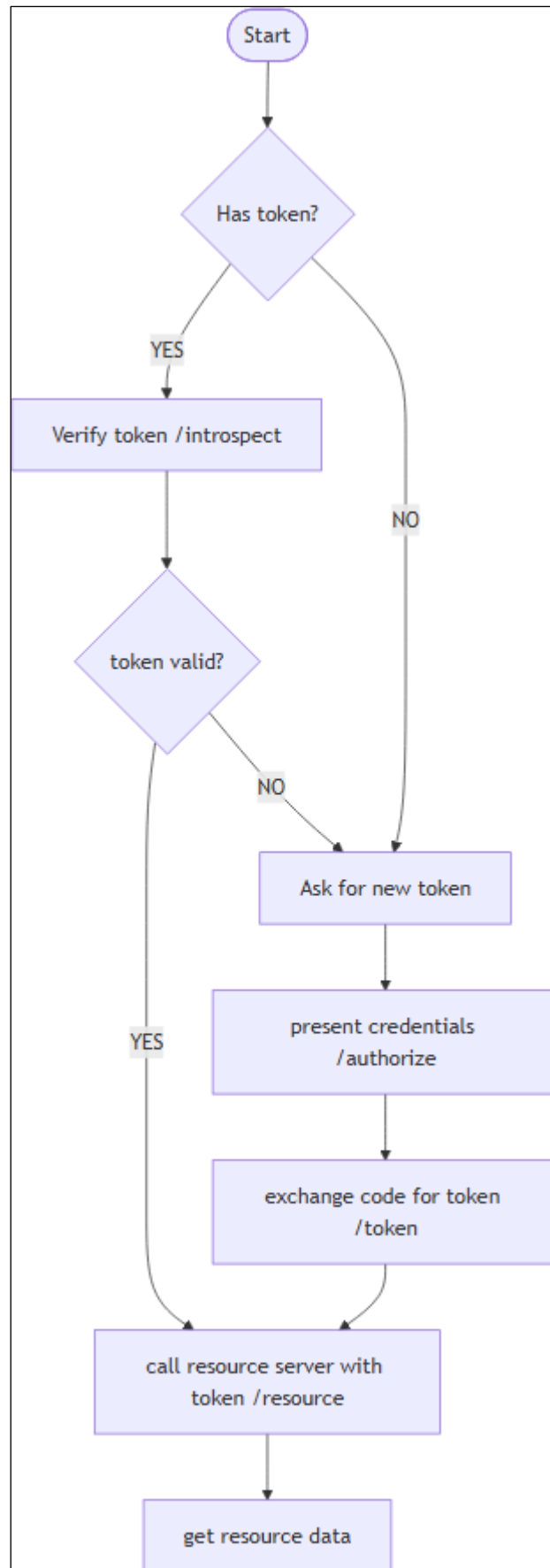
```
{  
  "checkAlternative": true,  
  "alternativeDate": "2025-01-01"  
}
```

The trip has been successfully booked, but it is
scheduled for 2025-01-01 instead of 2025-01-02.
Would you like to change the date to 2025-01-02?



Chapter 11: Securing Your Application





Chapter 12: Bringing MCP Apps to Production

