



MCP Server Development Assignment

Project Overview

Create an MCP (Model Context Protocol) server and a simple web-based MCP client using the available functionality from the Fake Store API.

API Documentation: <https://fakestoreapi.com/docs>

Required Capabilities

- ✓ **Login** - User authentication functionality
- ✓ **Add item to cart** - Shopping cart item addition
- ✓ **Remove item from cart** - Shopping cart item removal
- ✓ **Display current cart, itemised** - Detailed cart view with item breakdown
- ✓ **Bonus functionality** - Additional features of your choice

Deliverables

1. GitHub Repository

Submit a complete GitHub repository containing all your source code, documentation, and setup instructions.

2. Demo Video

Create a short demonstration video (1-2 minutes) showcasing the functionality with clear explanations of features and implementation.

Technical Requirements

Language & Libraries: You may use any programming language and libraries of your choice.

AI Tool Usage: Feel free to use any AI tools to assist with development, provided you understand the resulting code.

Code Understanding: Ensure you can explain and understand all code in your implementation.

Important Constraint: Do not use any APIs other than the Fake Store API (<https://fakestoreapi.com/docs>) in your implementation.