



# 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.