# Setup Guide: Mendix Studio Pro + GitHub Copilot MCP Server Integration

This guide provides step-by-step instructions to configure Mendix Studio Pro with an MCP Server and integrate it with GitHub Copilot for enhanced developer experience.

## 📦 1. Download Required Files

Download all necessary files from the following location:

**[Download files from here](https://mendixtechnologybv-my.sharepoint.com/:f:/g/personal/ricardo_perdigao_mendix_com/Eq19X-5Ru0FEqVeuGGFfh5wByFNLaV9UwMYAB5VwbUjGlQ?e=lWXofE)**

Files include:

* StudioProMCPServer.mpk
* JavaInstructions.md (for custom Copilot instructions)

## 🧰 2. Mendix Studio Pro Configuration

### Prerequisites

* Mendix Studio Pro **version 10.24.1** installed.

### Steps

1. **Start** Mendix Studio Pro 10.24.1.
2. **Create** a new empty project.  
   *(You can also use an existing one, but starting fresh is recommended.)*
3. **Import** the module package:
   * Go to **Project Explorer > App > Modules**.
   * Right-click and choose **Import module package...**.
   * Select StudioProMCPServer.mpk.
4. **Close** Studio Pro after successful import.

### Enable Extension Development Mode

1. **Modify your Studio Pro shortcut**:
   * Right-click your Mendix Studio Pro shortcut.
   * In the **Target** field, append the following:
   * --enable-extension-development
   * Example full target:
   * "C:\Program Files\Mendix\10.24.1.74050\modeler\studiopro.exe" --enable-extension-development
2. **Restart** Studio Pro using this modified shortcut.
3. **Verify MCP Server Extension**:
   * You should now see a new menu item:  
     Extensions > MCP > MCP Server
   * Click **"Start MCP Server"**.
   * If you see a green message:  
     **"MCP Server started successfully"**,  
     your Mendix configuration is complete

## 💻 3. GitHub Copilot Configuration

### Open Your Java Project

1. **Open** your Java codebase folder in **Visual Studio Code Insiders (VSCode)**.

## 🔌 4. Add MCP Server to GitHub Copilot

1. In VSCode, open **GitHub Copilot Chat**.
2. Go to:  
   **Tools (tools icon) > Configure Tools > Add More Tools...**A screenshot of a computer

   AI-generated content may be incorrect.
3. Select **"Add MCP Server"**.
4. In the dialog:
   * Select **"HTTP..."**
   * Set:
     + **URL**: http://localhost:3001/sse
     + **Name**: StudioPro
     + **Scope**: Choose Global or Workspace based on your preference.

## 📝 5. Add Custom Instructions to GitHub Copilot

1. In GitHub Copilot Chat, go to:  
   **Settings > Configure Chat...**A screenshot of a computer

   AI-generated content may be incorrect.
2. Select **"Instructions"**.
3. Click **"New Instruction File..."**.
4. Save the file under:  
   .github/instructions/
5. Name the file, e.g.,  
   JavaConverterInstructions.md
6. Start with the provided JavaInstructions.md file content.
7. **Review**, **edit**, and **customize** the instructions to match your needs.

## 📝 6. .Net project for the Studio Prom MCP Server Extension (not needed, experimental, Ricardo is still developing it, for reference only):

<https://github.com/rperdiga/MCPExtension>