

# Demo: Creating a .NET 8 Minimal API with GitHub Copilot

---

Welcome to this guided lab for creating a .NET 8 Minimal API using GitHub Copilot. This lab will walk you through each step, from initializing your project to creating CRUD operations and writing unit tests.

---

## Prerequisites

- .NET 8 SDK installed
  - Git installed and configured
  - Visual Studio Code with GitHub Copilot extension
- 

## Step 1: Create a New .NET 8 Minimal API Project

Use GitHub Copilot's `@workspace /new` command to scaffold a new minimal API application.

### Prompt:

```
@workspace /new Create a .net 8 minimal API project with name BooksAPI. Do not add controller classes. Generate Book model class, DbContext and appsettings.json files
```

This will generate the boilerplate code for a new minimal API project.

---

## Step 2: Initialize Git for the Project

Open a terminal in your project directory and run:

```
cd BooksAPI
git init
```

This will initialize a new Git repository.

---

## Step 3: Add Entity Framework Core with SQLite

Install the required NuGet packages for Entity Framework Core and SQLite:

```
dotnet add BooksAPI package Microsoft.EntityFrameworkCore.Sqlite --version <Specify version>
dotnet add BooksAPI package Microsoft.EntityFrameworkCore.Tools --version <Specify version>
```

## Step 4: Update Program.cs to configure DbContext Service with Sqlite

Open the [Copilot edits](#) and use the below prompt to update the service registration.

```
Update the Program.cs to use the Sqlite provider for database
```