

# ■ .NET 8 MVC CLI Cheat Sheet (VS Code)

## Project Setup

Command	Description
dotnet new mvc -n MyMvcApp	Create a new MVC project
cd MyMvcApp	Go into project folder
dotnet new vscode	Add VS Code launch & tasks config
dotnet new gitignore	Add default .gitignore file
dotnet new globaljson --sdk-version 8.0.100	Lock project to specific SDK version

## Running & Debugging

Command	Description
dotnet run	Run the app
dotnet watch run	Run app & auto-restart on changes
dotnet build	Build project
dotnet clean	Clean build artifacts
dotnet publish -c Release -o ./publish	Publish for deployment

## Project & Solution Management

Command	Description
dotnet new sln -n MyMvcSolution	Create solution file
dotnet sln add MyMvcApp/MyMvcApp.csproj	Add project to solution
dotnet add reference ../MyLib/MyLib.csproj	Add reference to another project
dotnet list reference	List project references
dotnet remove reference	Remove project reference

## Package Management

Command	Description
dotnet add package Microsoft.EntityFrameworkCore.SqlServer	Add NuGet package
dotnet remove package PackageName	Remove package
dotnet list package	List installed packages

dotnet restore	Restore packages
----------------	------------------

## Entity Framework Core

Command	Description
dotnet tool install --global dotnet-ef	Install EF Core CLI tool
dotnet ef migrations add InitialCreate	Add a migration
dotnet ef database update	Apply migrations to DB
dotnet ef database drop	Drop database
dotnet ef dbcontext list	Show available DbContexts
dotnet ef migrations list	Show migrations

## Controller & Scaffold Generation

Command	Description
dotnet tool install -g dotnet-aspnet-codegenerator	Install scaffolding tool
dotnet aspnet-codegenerator controller -name HomeController -empty -outDir Controllers	Generate an empty controller
dotnet aspnet-codegenerator controller -name ProductsController -scaffolds "CRUD,DbContext,AppDbContext" -outDir Controllers -udl	Scaffold CRUD, DbContext, AppDbContext, Views
dotnet aspnet-codegenerator view Index Empty -outDir Views/HomeController	Generate an empty view

## Testing

Command	Description
dotnet new xunit -n MyMvcApp.Tests	Create xUnit test project
dotnet test	Run tests