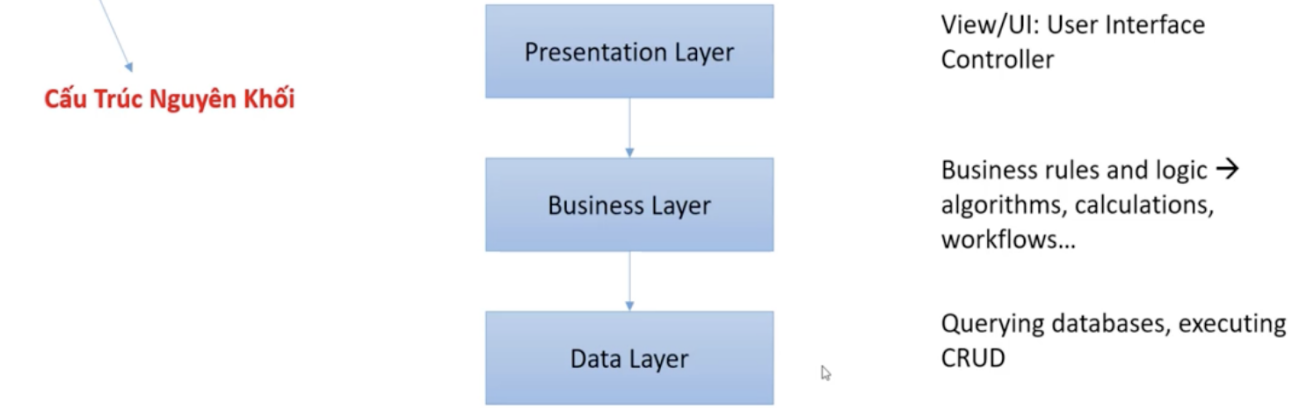
Monolith

Monolith vs N-Layer Architecture

Cấu Trúc Nguyên Khối



View/UI: User Interface
Controller

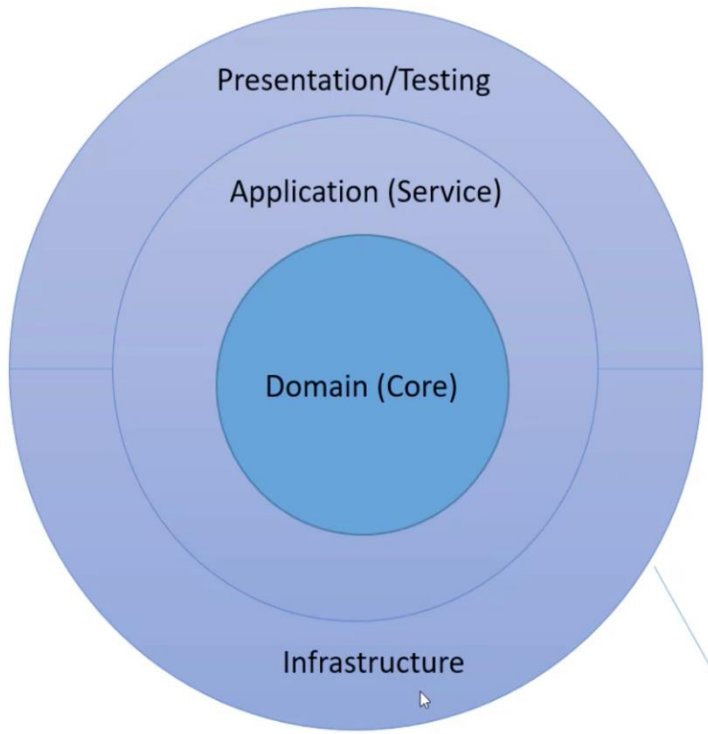
Business rules and logic → algorithms, calculations, workflows…

Querying databases, executing CRUD

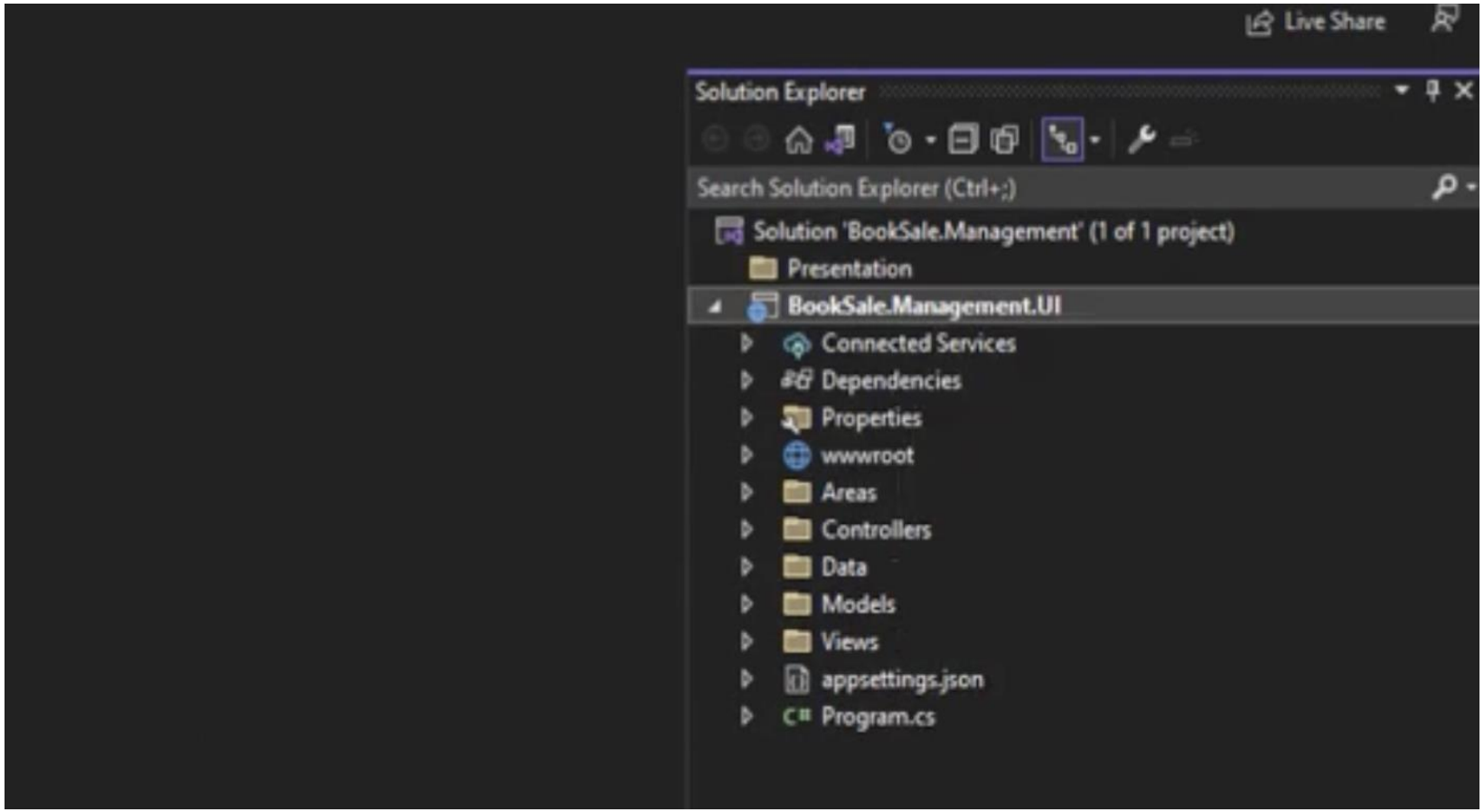
Database

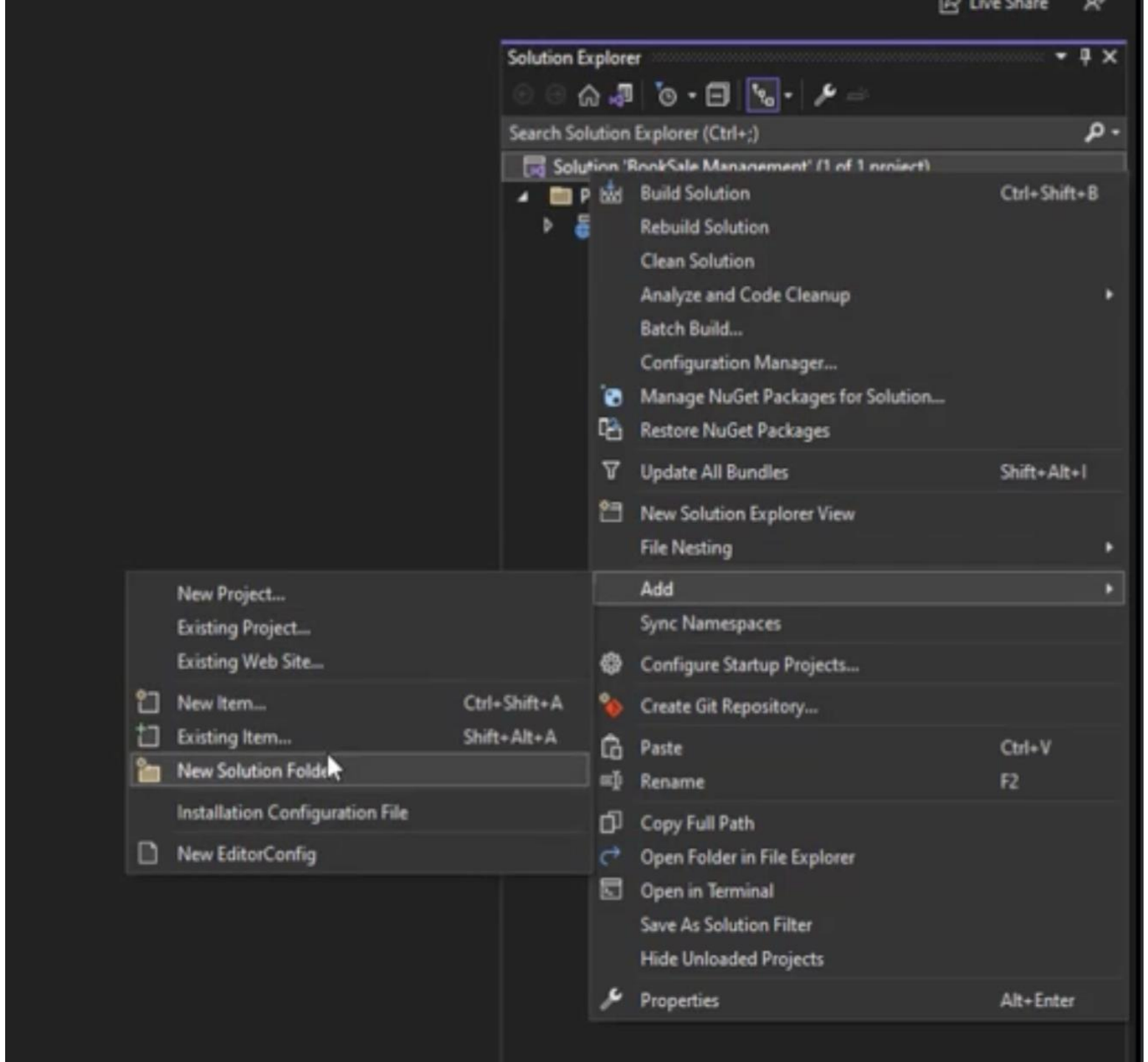
Onion Architecture

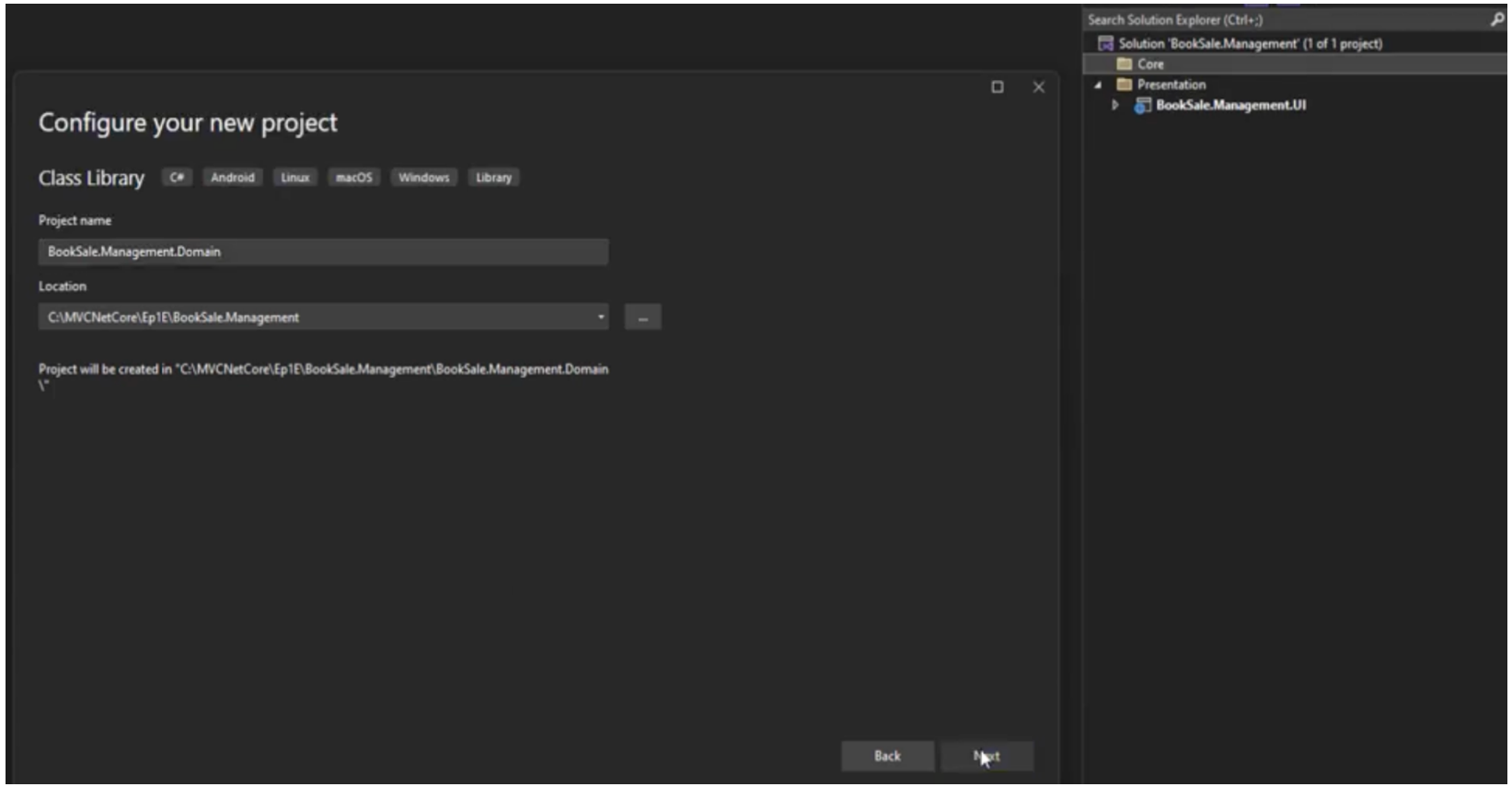
DDD: Domain-Driven Design

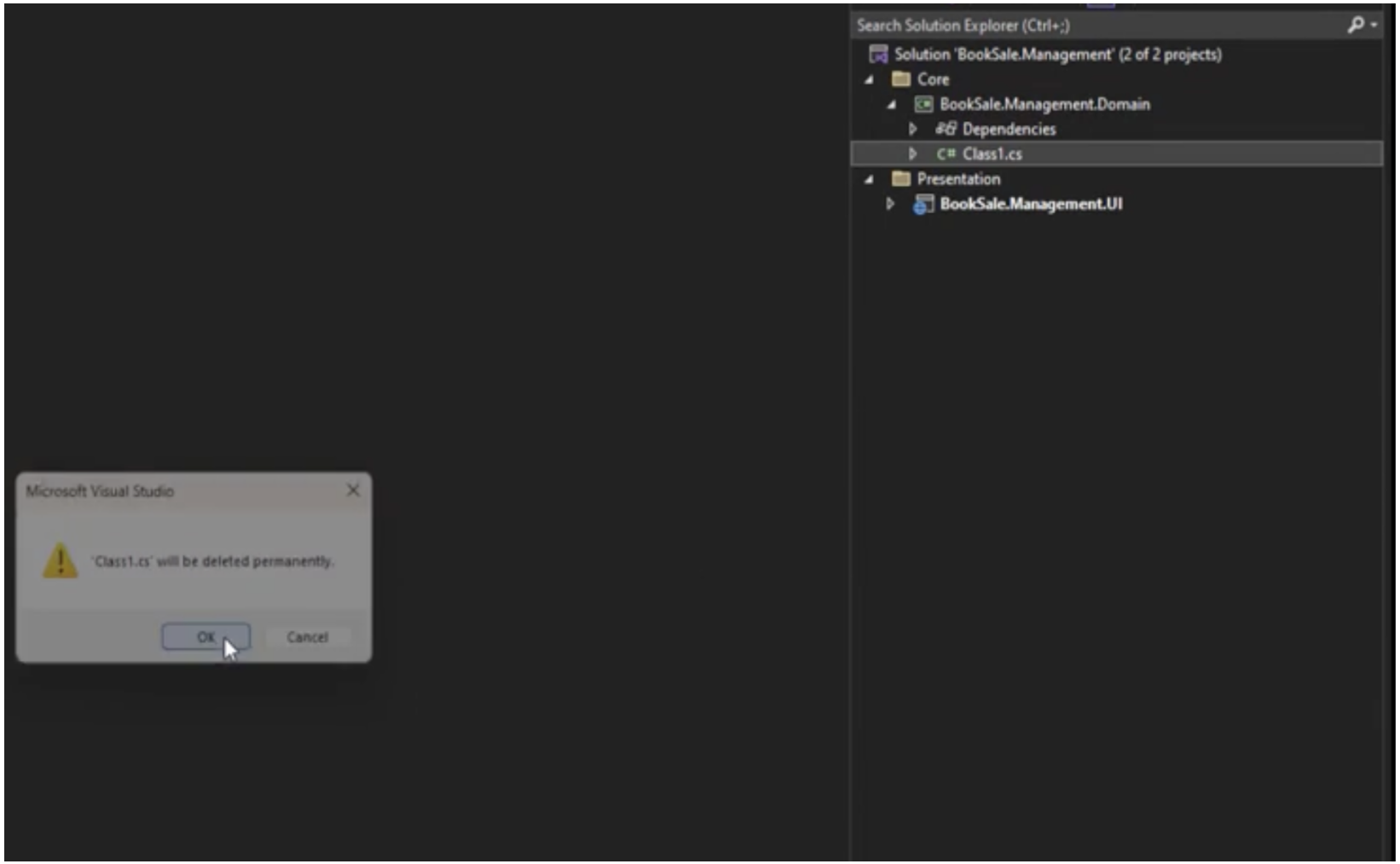


- Register DI, IoC Container
- Implement Database, Repository, Uow
- External Service: Logging, File, HttpClient …
- Configuration …

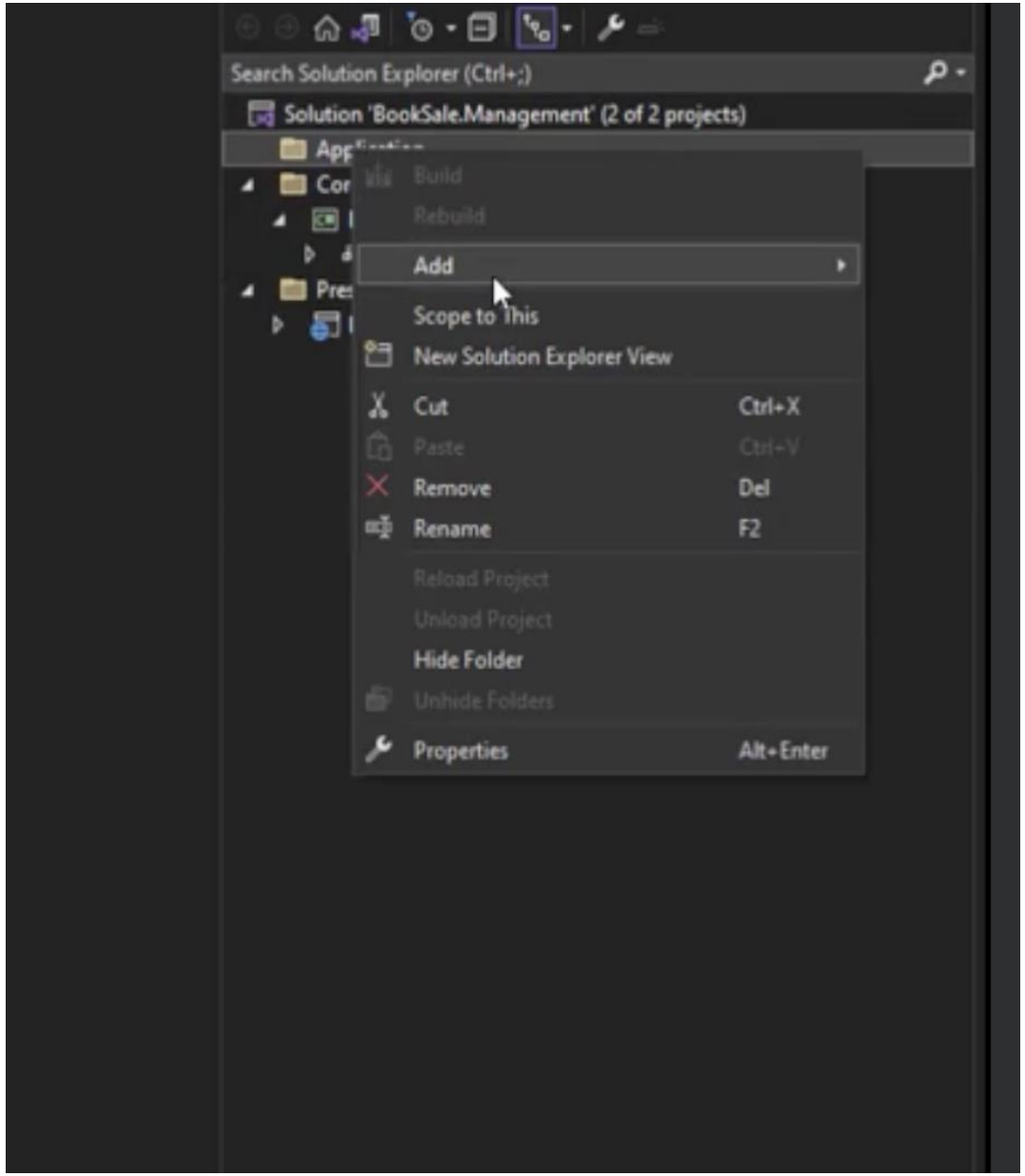

Live Share
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'BookSale.Management' (1 of 1 project)
Presentation
BookSale.Management.UI
Connected Services
Dependencies
Properties
wwwroot
Areas
Controllers
Data
Models
Views
appsettings.json
Program.cs

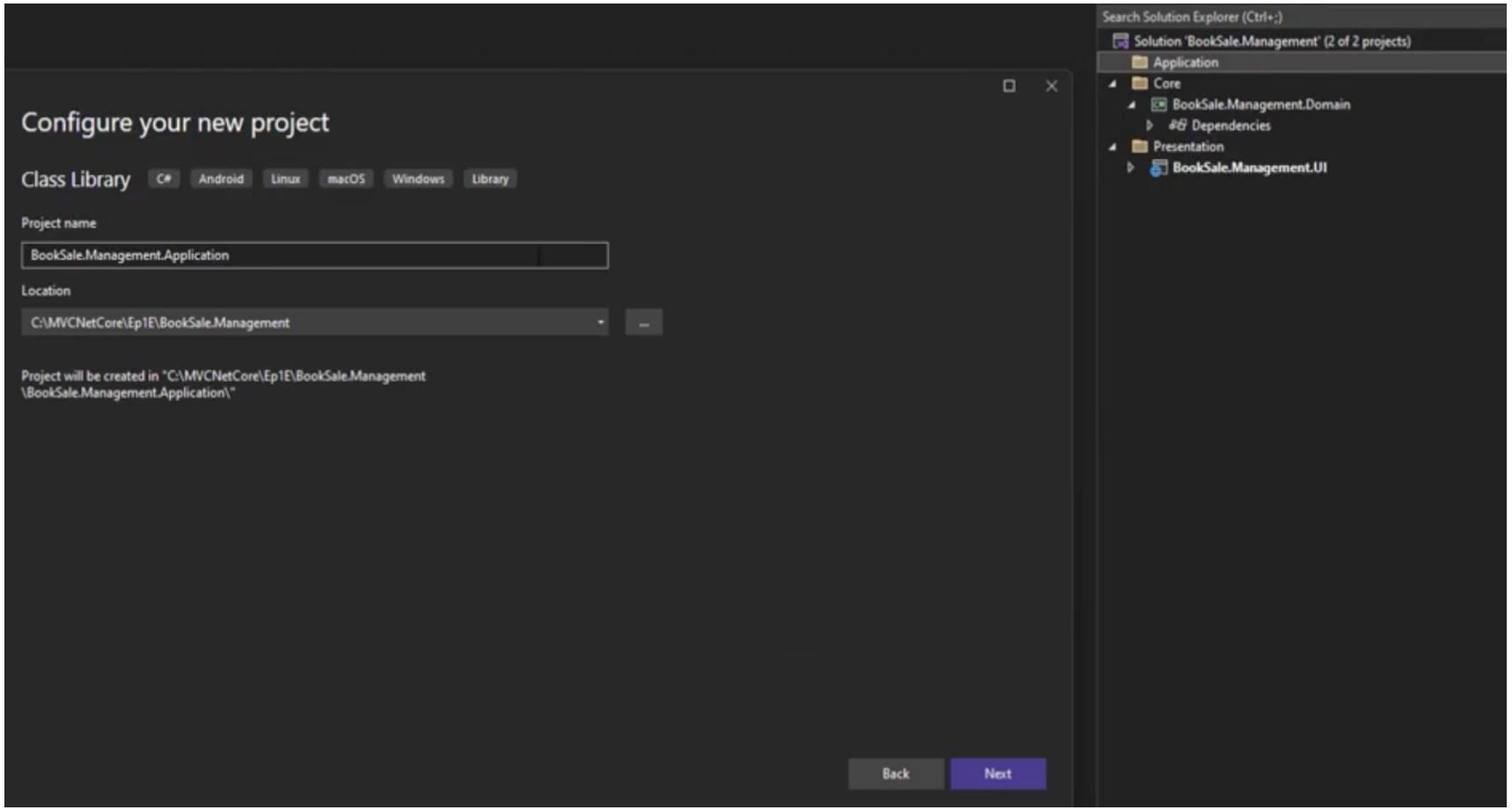

Live Share
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'BookSale Management' (1 of 1 project)
Build Solution Ctrl+Shift+B
Rebuild Solution
Clean Solution
Analyze and Code Cleanup
Batch Build...
Configuration Manager...
Manage NuGet Packages for Solution...
Restore NuGet Packages
Update All Bundles Shift+Alt+U
New Solution Explorer View
File Nesting
Add
Sync Namespaces
Configure Startup Projects...
Create Git Repository...
Paste Ctrl+V
Rename F2
Copy Full Path
Open Folder in File Explorer
Open in Terminal
Save As Solution Filter
Hide Unloaded Projects
Properties Alt+Enter
New Project...
Existing Project...
Existing Web Site...
New Item... Ctrl+Shift+A
Existing Item... Shift+Alt+A
New Solution Folder
Installation Configuration File
New EditorConfig


Configure your new project
Class Library
C#
Android
Linux
macOS
Windows
Library
Project name
BookSale.Management.Domain
Location
C:\MVCNetCore\Ep1E\BookSale.Management
Project will be created in "C:\MVCNetCore\Ep1E\BookSale.Management\BookSale.Management.Domain
\"
Back
Next
Search Solution Explorer (Ctrl+;)
Solution 'BookSale.Management' (1 of 1 project)
Core
Presentation
BookSale.Management.UI

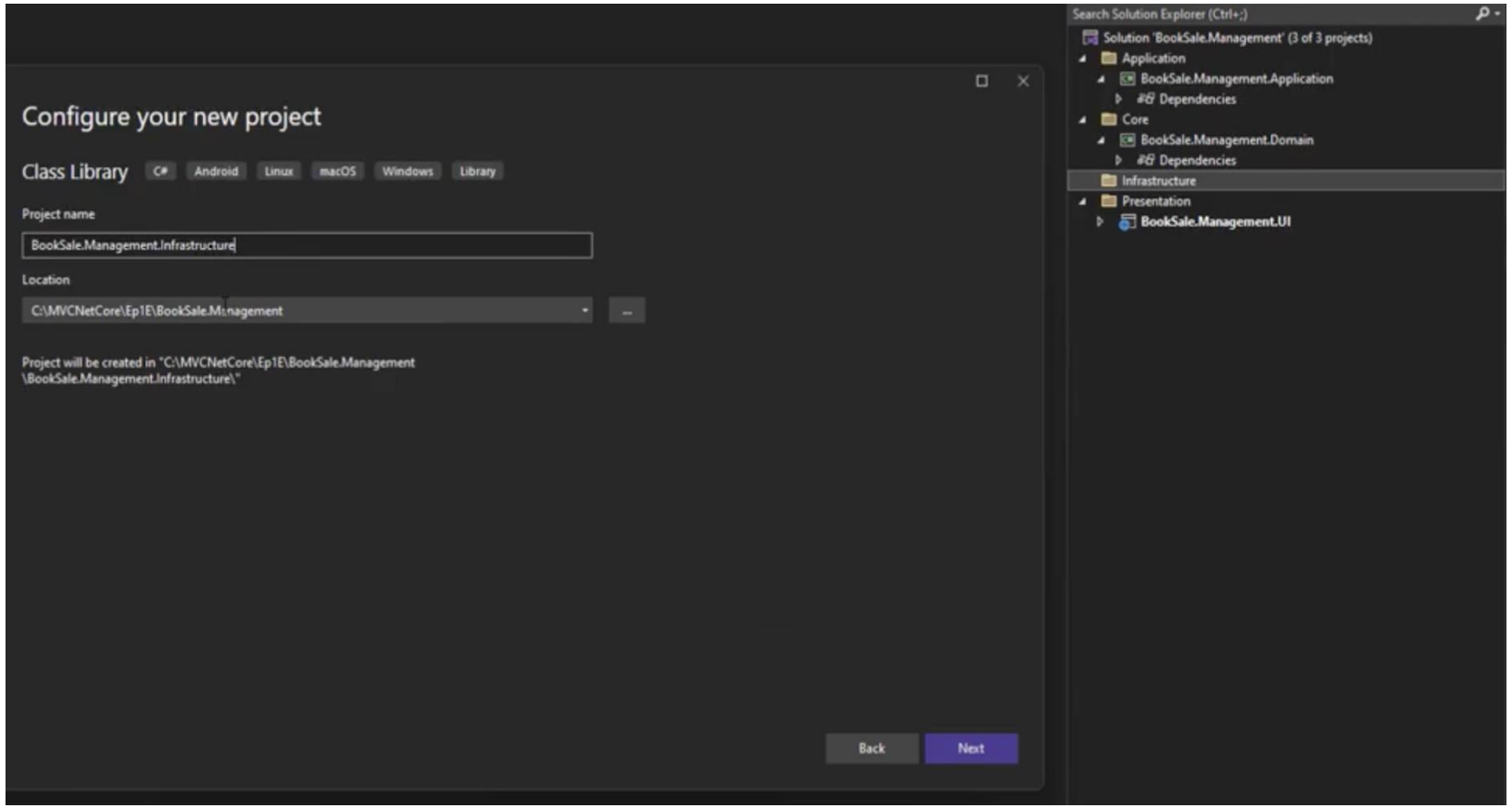

Search Solution Explorer (Ctrl+;)
Solution 'BookSale.Management' (2 of 2 projects)
Core
BookSale.Management.Domain
Dependencies
Class1.cs
Presentation
BookSale.Management.UI
Microsoft Visual Studio
'Class1.cs' will be deleted permanently.
OK
Cancel

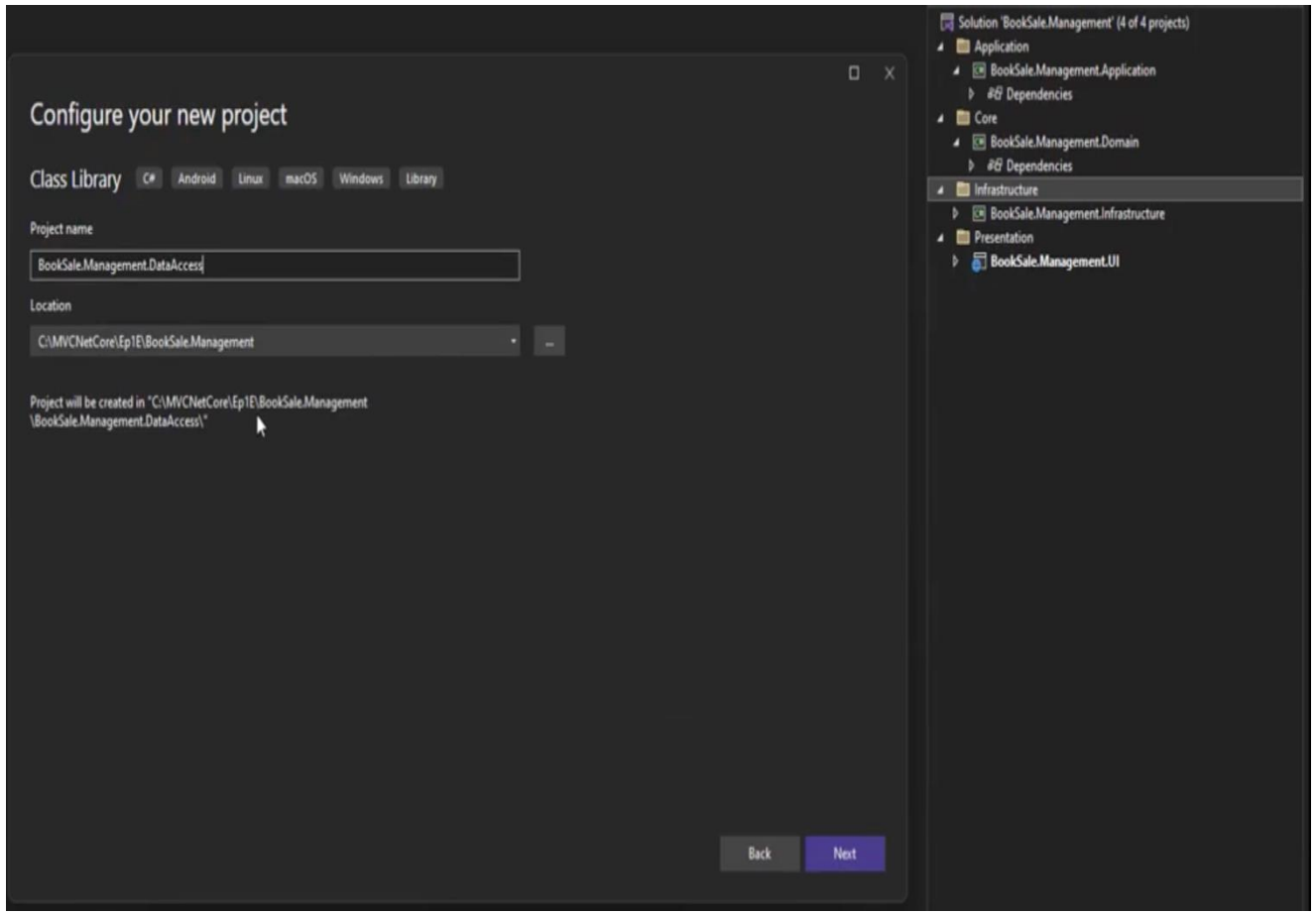
Create new project

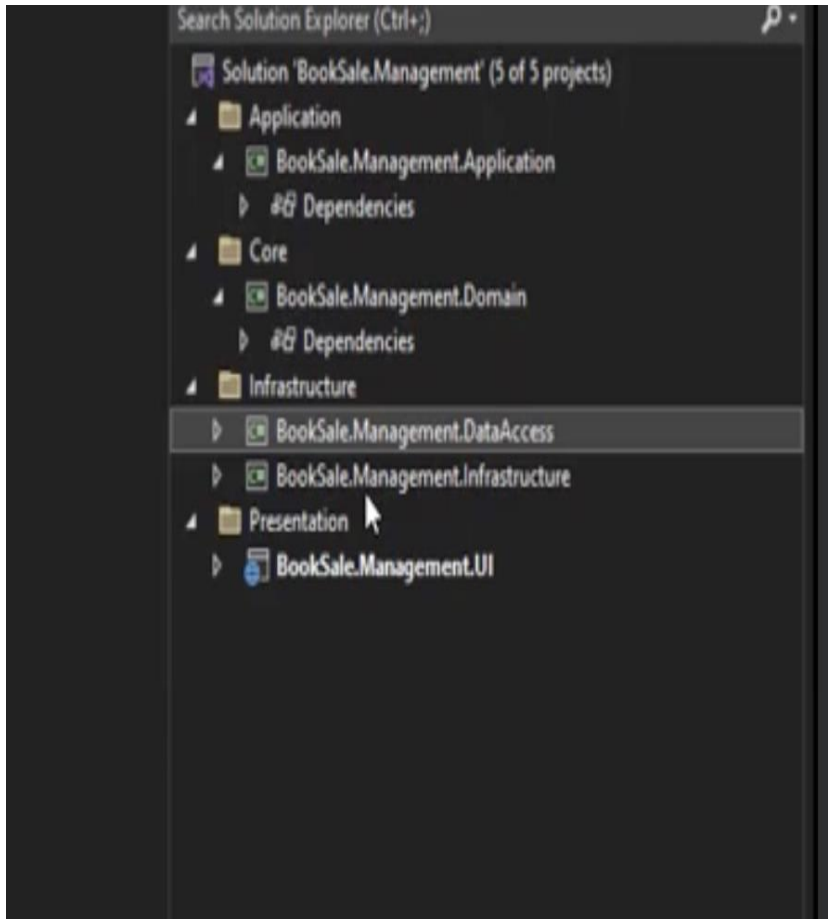


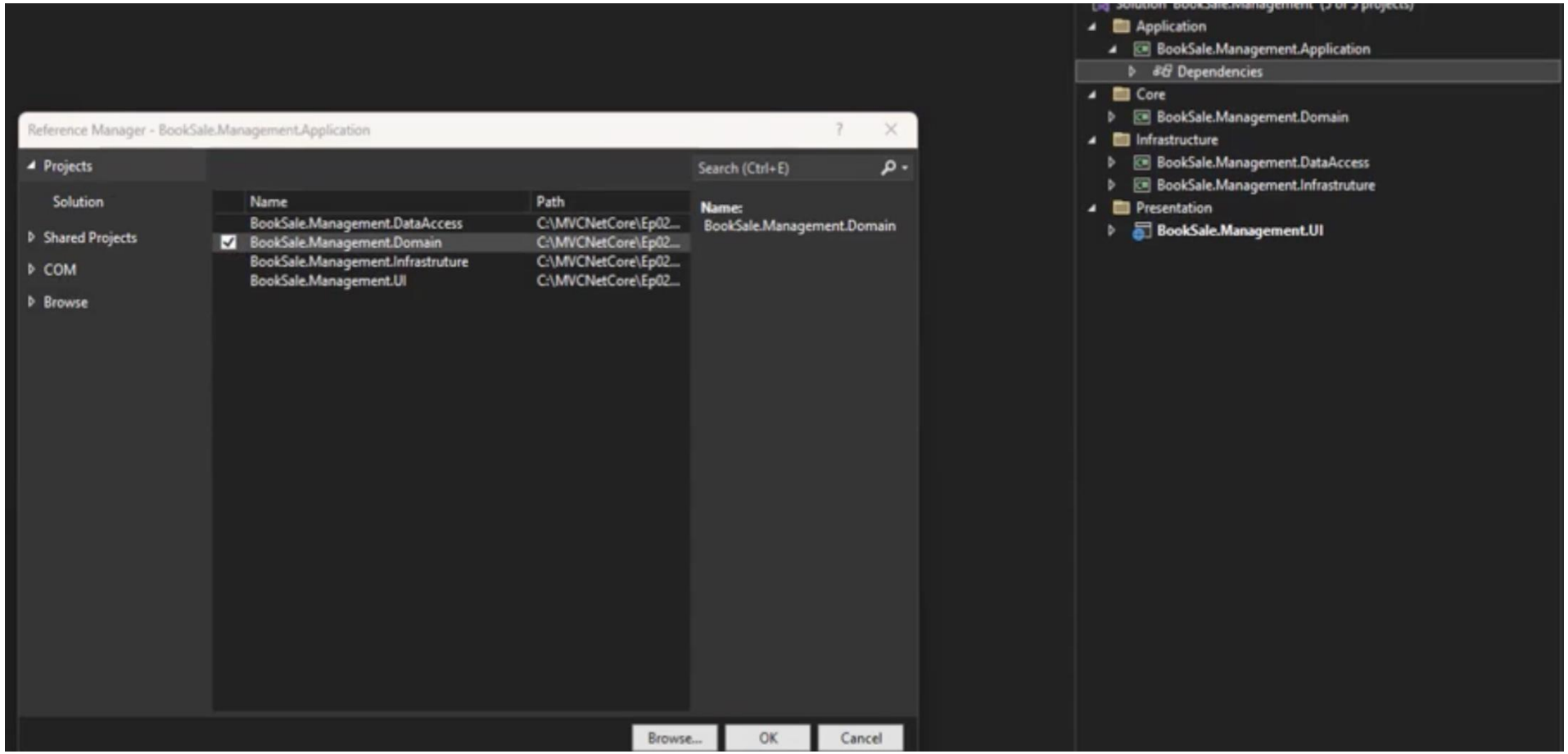

Configure your new project
Class Library
C#
Android
Linux
macOS
Windows
Library
Project name
BookSale.Management.Application
Location
C:\MVCNetCore\Ep1E\BookSale.Management
...
Project will be created in "C:\MVCNetCore\Ep1E\BookSale.Management
\BookSale.Management.Application\"
Back
Next
Search Solution Explorer (Ctrl+;)
Solution 'BookSale.Management' (2 of 2 projects)
Application
Core
BookSale.Management.Domain
Dependencies
Presentation
BookSale.Management.UI

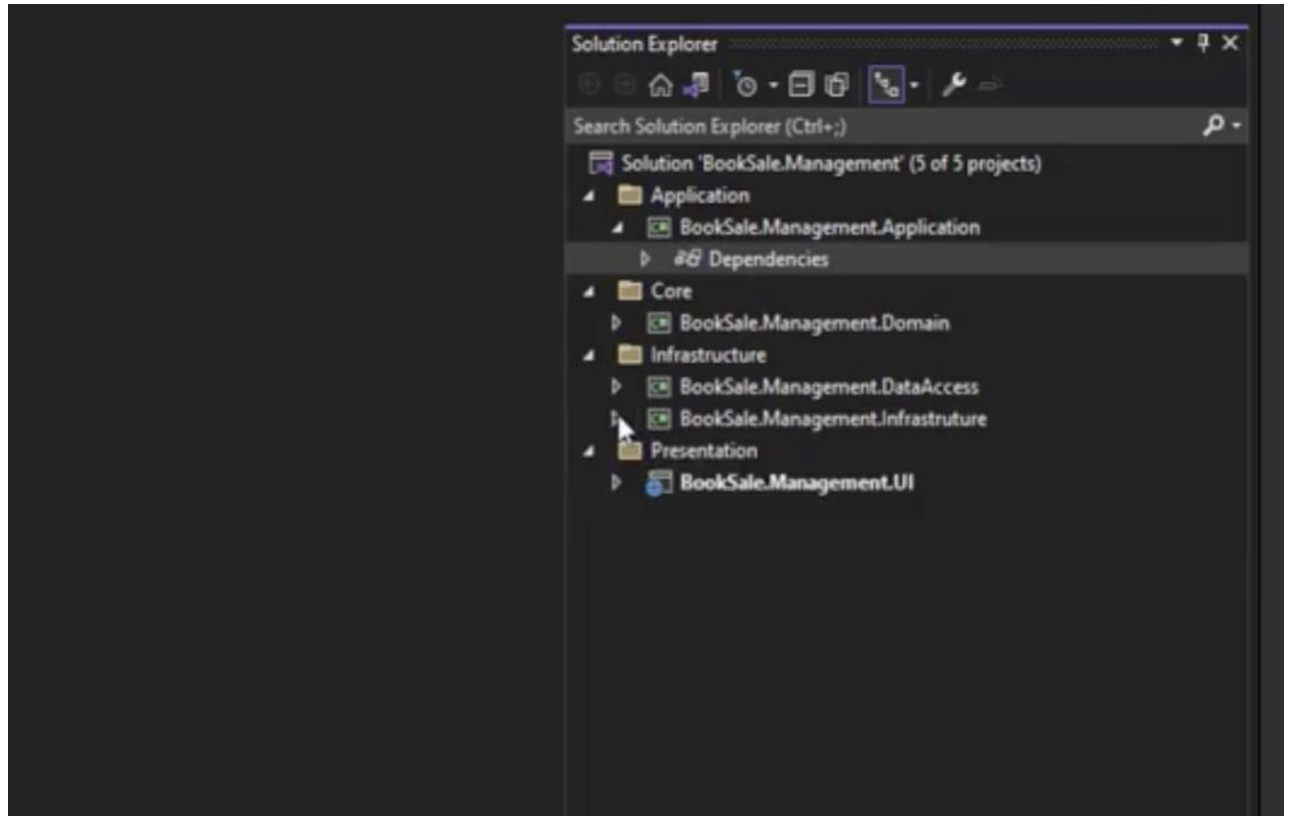
Infracstructe

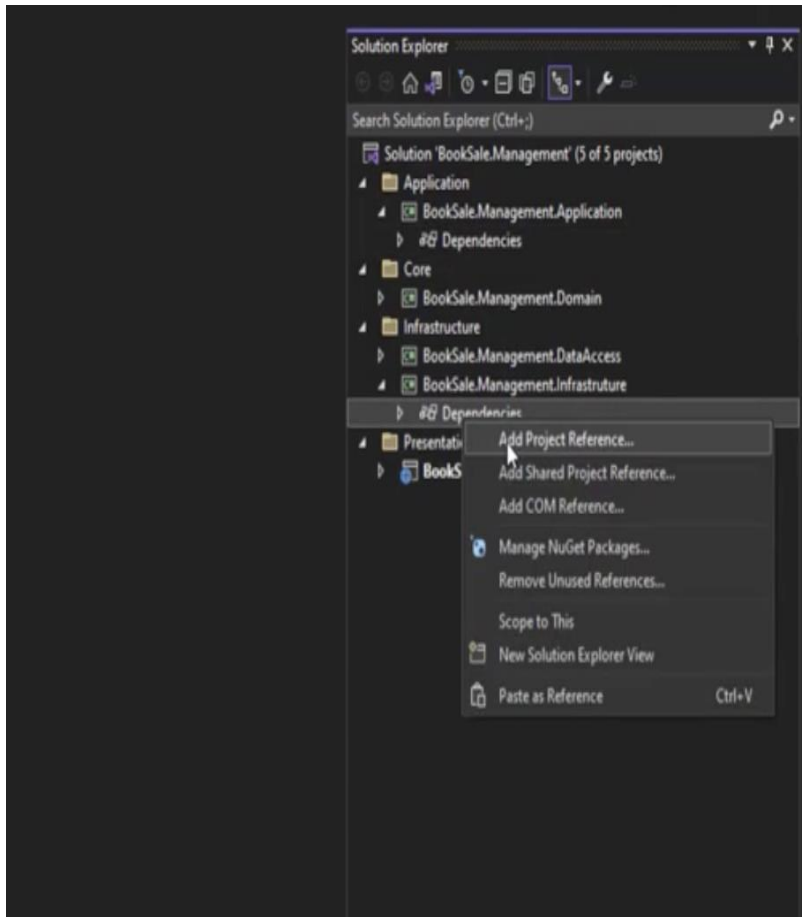


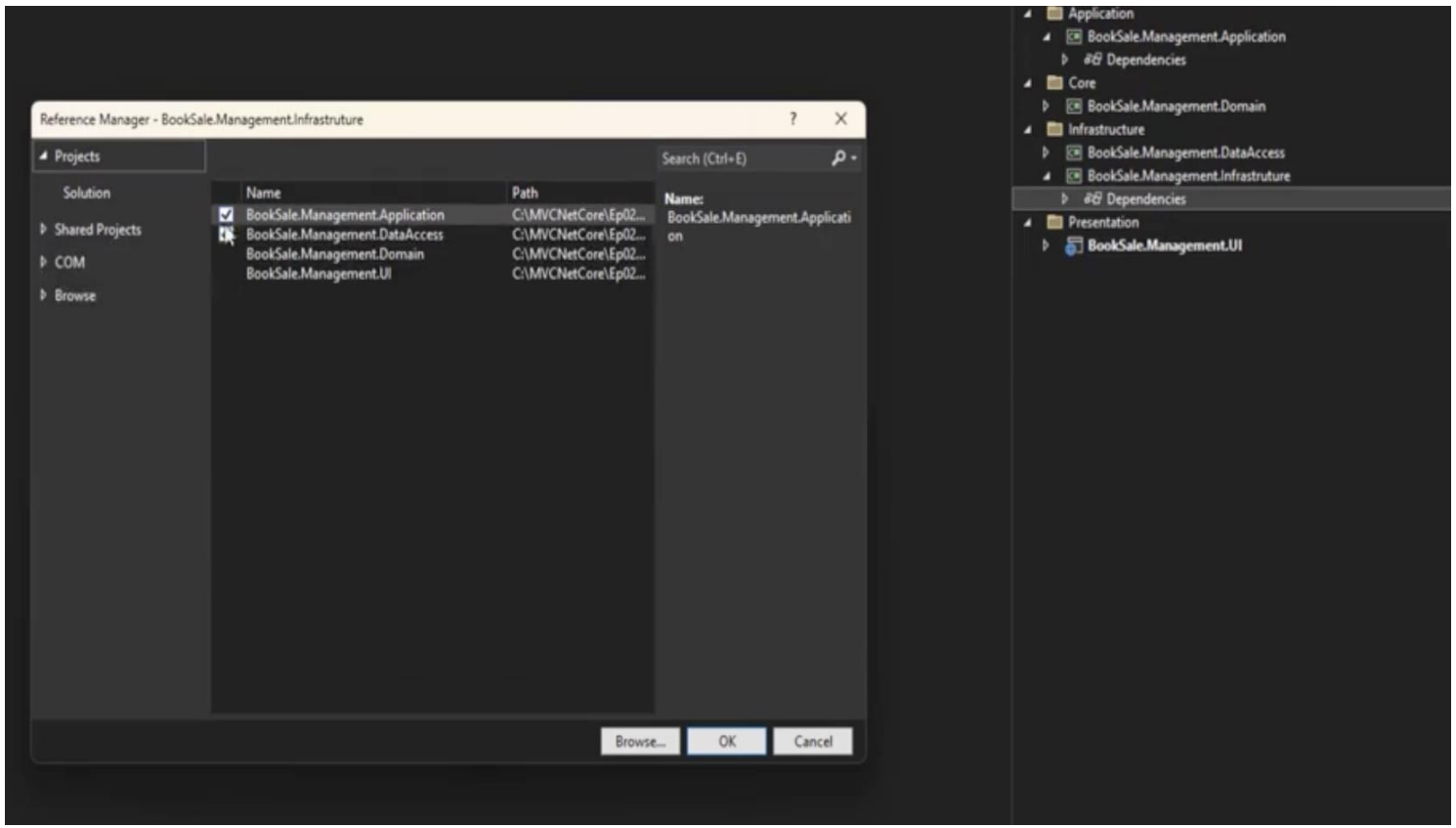

Configure your new project
Class Library
C#
Android
Linux
macOS
Windows
Library
Project name
BookSale.Management.DataAccess
Location
C:\MVCNetCore\Ep1E\BookSale.Management
Project will be created in "C:\MVCNetCore\Ep1E\BookSale.Management
\BookSale.Management.DataAccess\"
Back
Next
Solution 'BookSale.Management' (4 of 4 projects)
Application
BookSale.Management.Application
Dependencies
Core
BookSale.Management.Domain
Dependencies
Infrastructure
BookSale.Management.Infrastructure
Presentation
BookSale.Management.UI


Search Solution Explorer (Ctrl+;)
Solution 'BookSale.Management' (5 of 5 projects)
Application
BookSale.Management.Application
Dependencies
Core
BookSale.Management.Domain
Dependencies
Infrastructure
BookSale.Management.DataAccess
BookSale.Management.Infrastructure
Presentation
BookSale.Management.UI


Reference Manager - BookSale.Management.Application
Projects
Solution
Shared Projects
COM
Browse
Search (Ctrl+E)
Name
Path
BookSale.Management.DataAccess
C:\MVCNetCore\Ep02...
BookSale.Management.Domain
C:\MVCNetCore\Ep02...
BookSale.Management.Infrastruture
C:\MVCNetCore\Ep02...
BookSale.Management.UI
C:\MVCNetCore\Ep02...
Name:
BookSale.Management.Domain
Browse...
OK
Cancel
Application
BookSale.Management.Application
Dependencies
Core
BookSale.Management.Domain
Infrastructure
BookSale.Management.DataAccess
BookSale.Management.Infrastruture
Presentation
BookSale.Management.UI


Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'BookSale.Management' (5 of 5 projects)
Application
BookSale.Management.Application
Dependencies
Core
BookSale.Management.Domain
Infrastructure
BookSale.Management.DataAccess
BookSale.Management.Infrastruture
Presentation
BookSale.Management.UI


Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'BookSale.Management' (5 of 5 projects)
Application
BookSale.Management.Application
Dependencies
Core
BookSale.Management.Domain
Infrastructure
BookSale.Management.DataAccess
BookSale.Management.Infrastruture
Dependencies
Add Project Reference...
Add Shared Project Reference...
Add COM Reference...
Manage NuGet Packages...
Remove Unused References...
Scope to This
New Solution Explorer View
Paste as Reference
Ctrl+V


Reference Manager - BookSale.Management.Infrastruture
Projects
Solution
Shared Projects
COM
Browse
Search (Ctrl+E)
Name
Path
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C:\MVCNetCore\Ep02...
BookSale.Management.DataAccess
C:\MVCNetCore\Ep02...
BookSale.Management.Domain
C:\MVCNetCore\Ep02...
BookSale.Management.UI
C:\MVCNetCore\Ep02...
Name:
BookSale.Management.Application
Browse...
OK
Cancel
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BookSale.Management.DataAccess
BookSale.Management.Infrastruture
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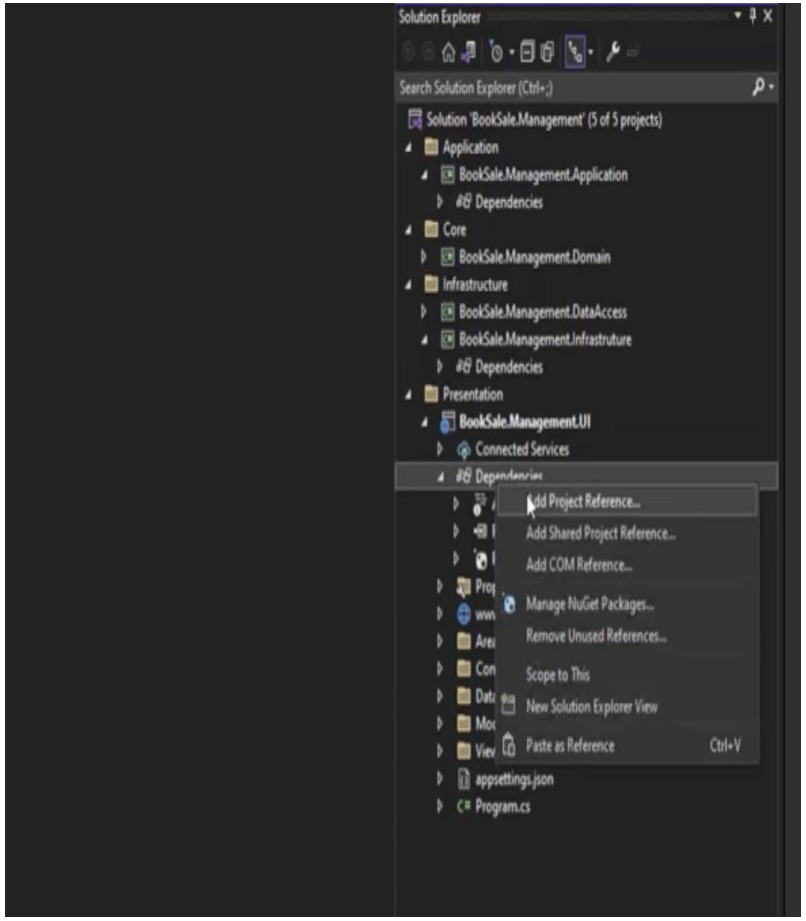
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Add Shared Project Reference...
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Remove Unused References...
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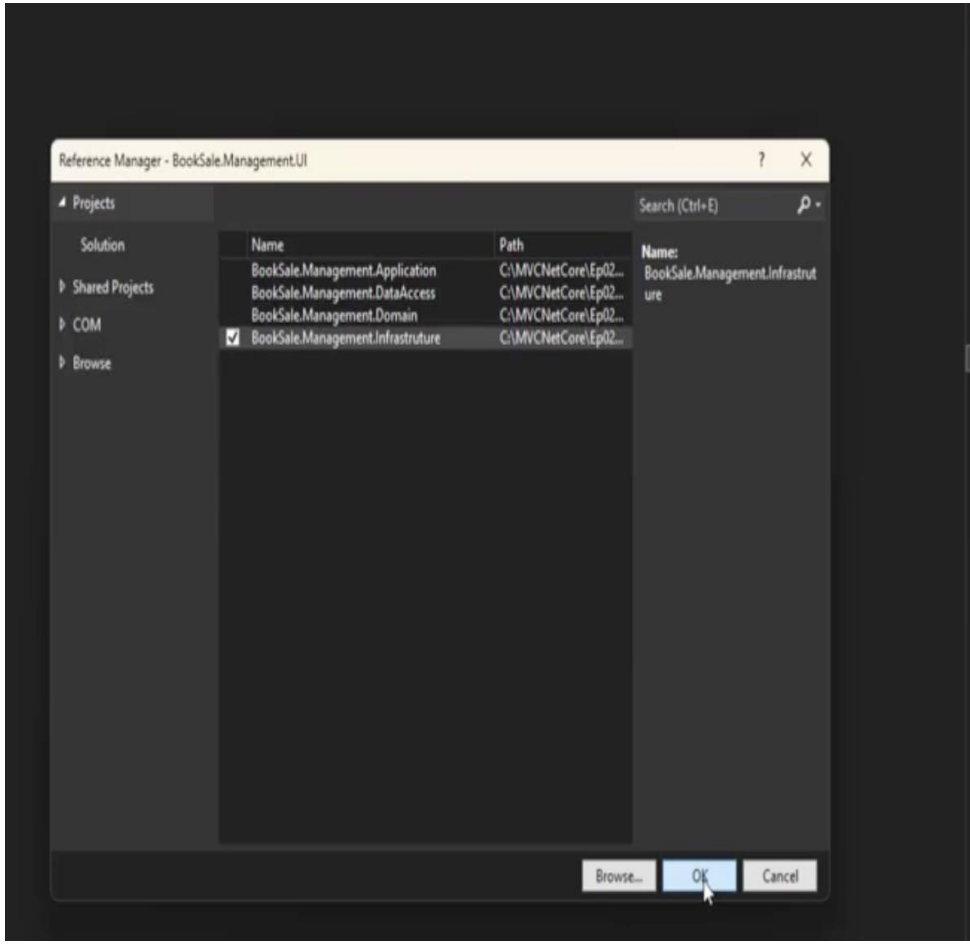
Program.cs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BookSale.Management.Domain
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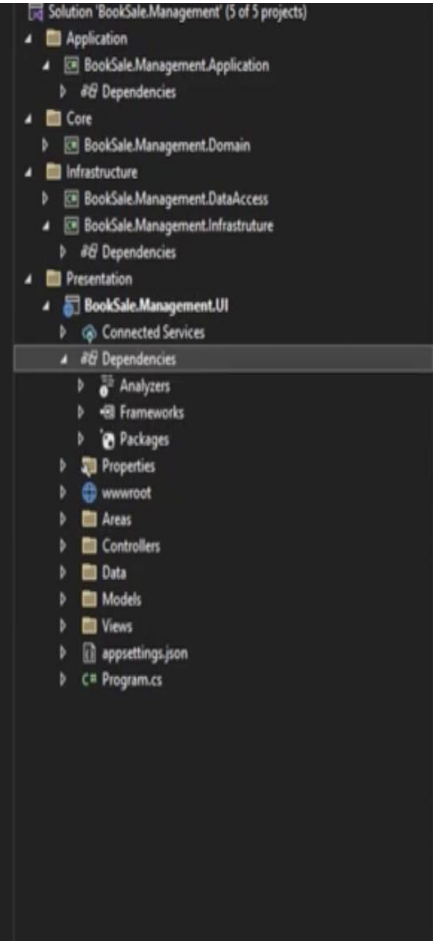
C:\MVCNetCore\Ep02...
Name:
BookSale.Management.Infrastruture
Browse...
OK
Cancel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Dependencies
Analyzers
Frameworks
Packages
Properties
wwwroot
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Controllers
Data
Models
Views
appsettings.json
Program.cs