

Sharing Code between Blazor WebAssembly and Blazor Server



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Module overview



Introducing Blazor Server

**A new architecture for maximized
code-sharing**



Introducing Blazor Server



Blazor Hosting Models

WebAssembly

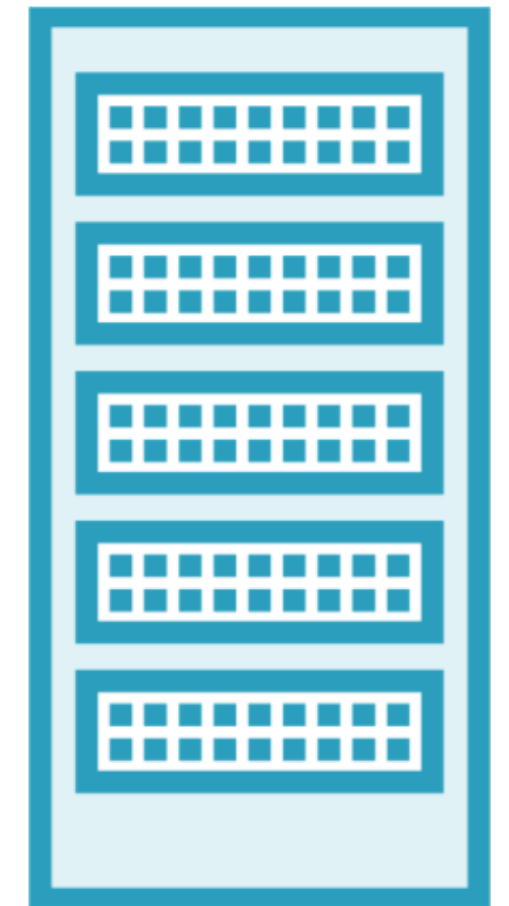
Server



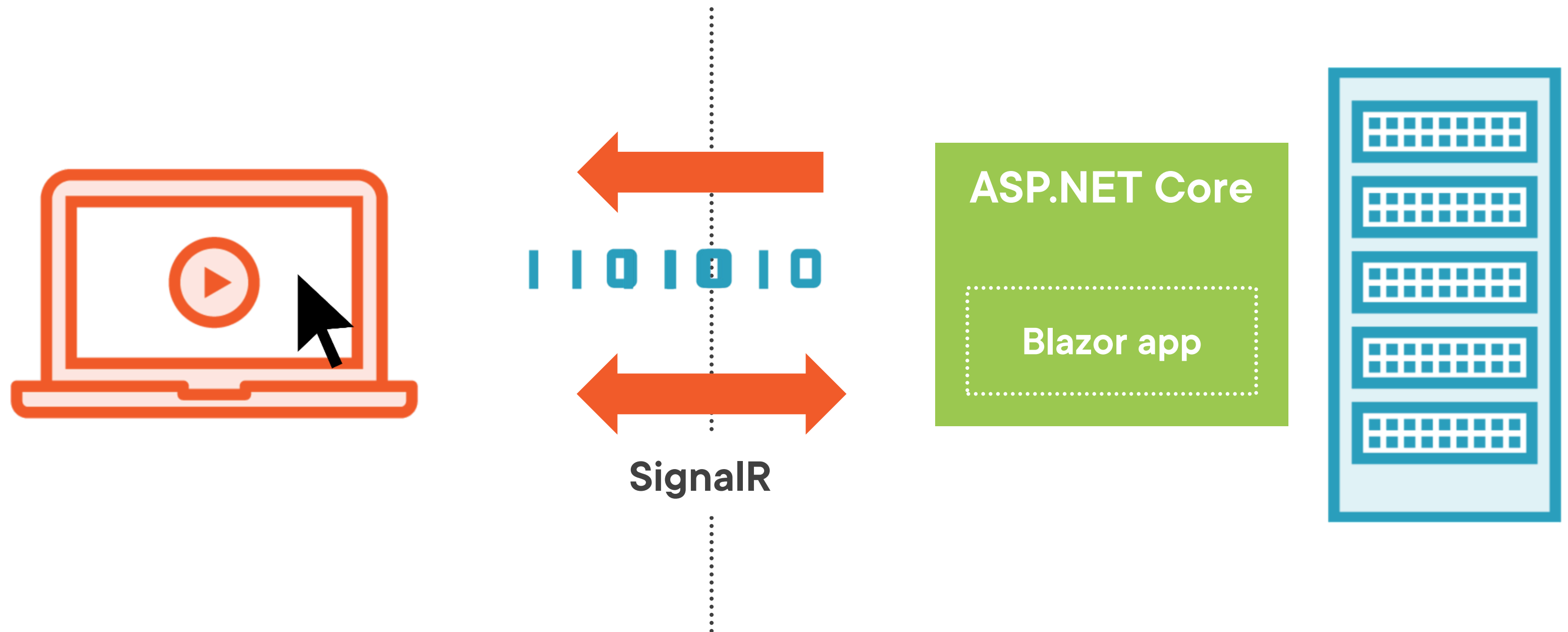
How Blazor WebAssembly Works



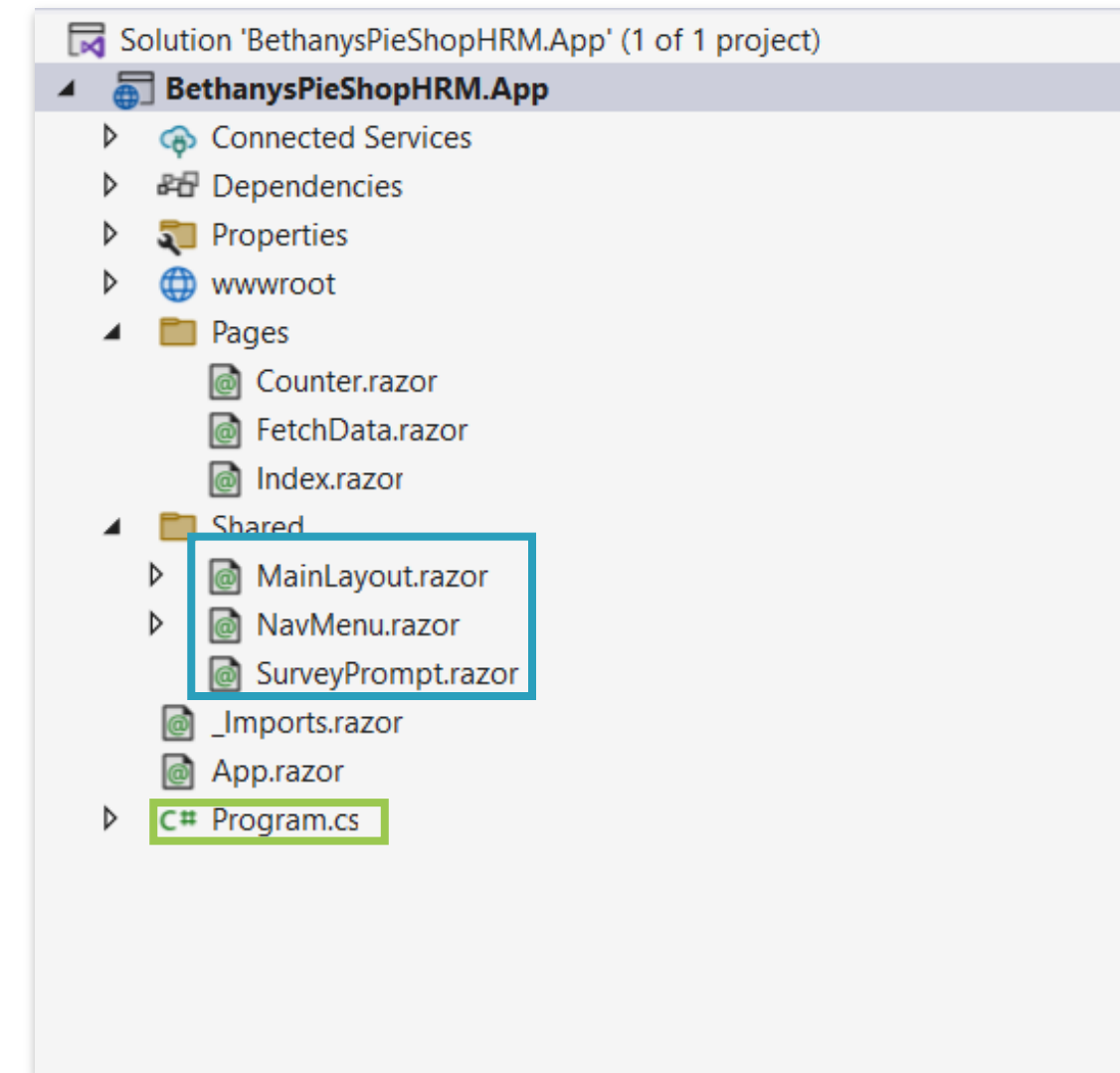
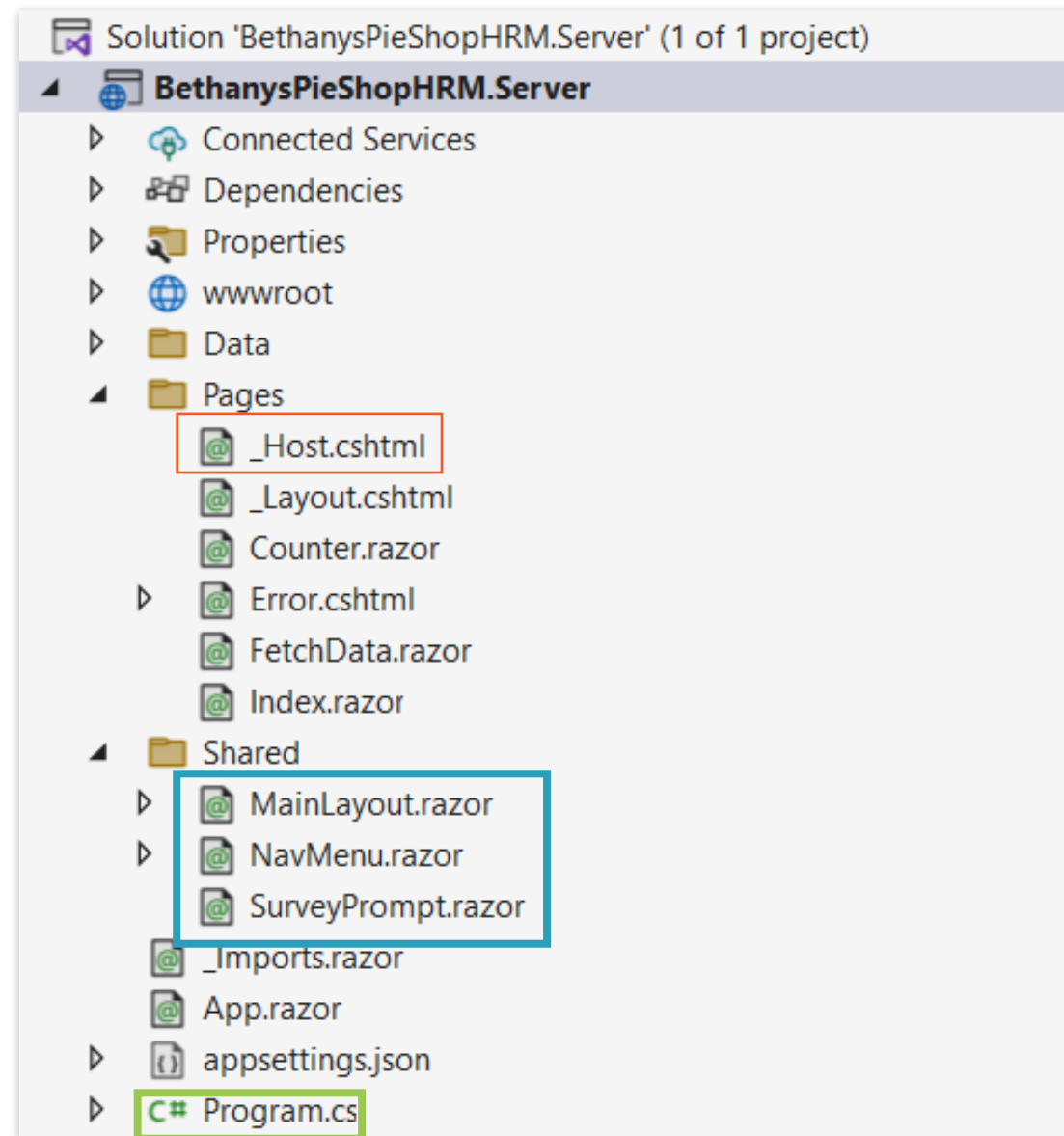
**Blazor
app**



How Blazor Server Works



Comparing Server-side and Client-side Blazor



Invoking Blazor Server Through a JS file

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  ...
</head>
<body>
  @RenderBody()

  <div id="blazor-error-ui">
    <environment include="Staging,Production">
      An error has occurred. This application may no longer respond until reloaded.
    </environment>
    <environment include="Development">
      An unhandled exception has occurred. See browser dev tools for details.
    </environment>
    <a href="" class="reload">Reload</a>
    <a class="dismiss">✕</a>
  </div>

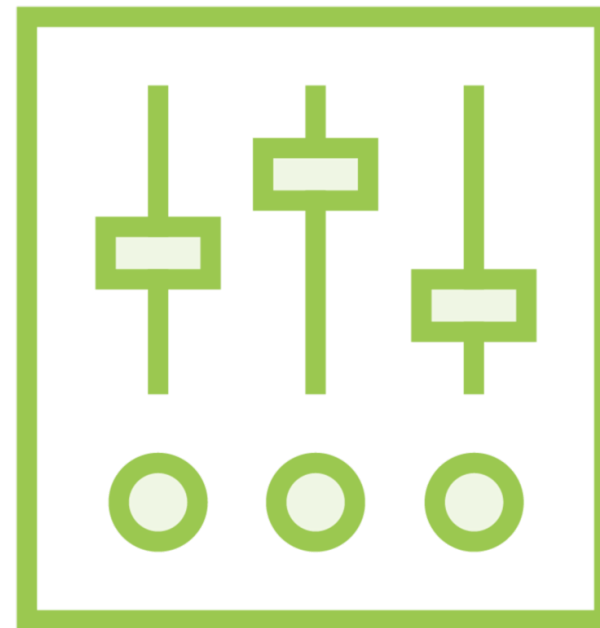
  <script src="_framework/blazor.server.js"></script>
</body>
</html>
```



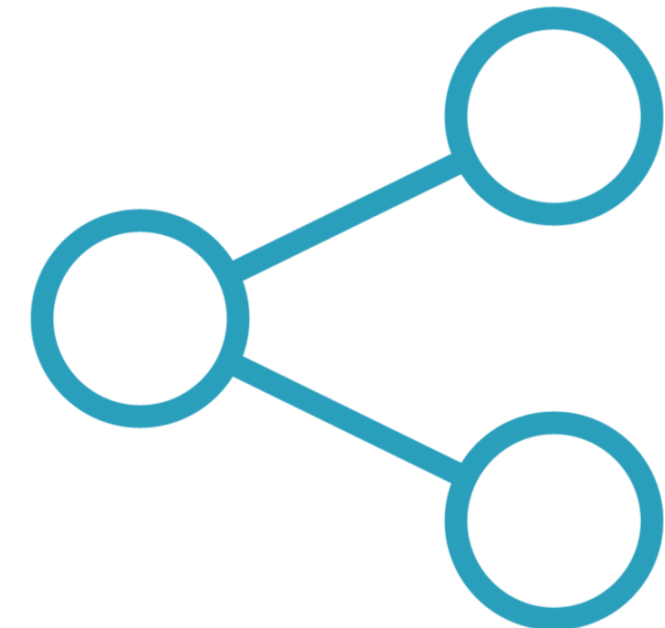
The Case for Blazor Server



**No initial download,
all code executes on
server**



**All .NET Core server
features become
available**



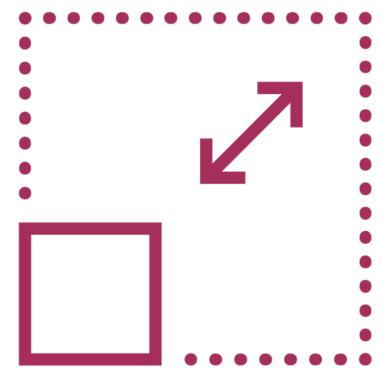
**Code isn't shared with
clients**



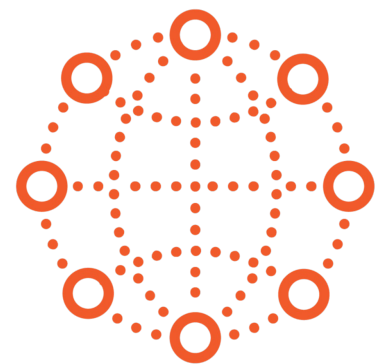
But...



No offline support



Scalability



Network delay



Demo

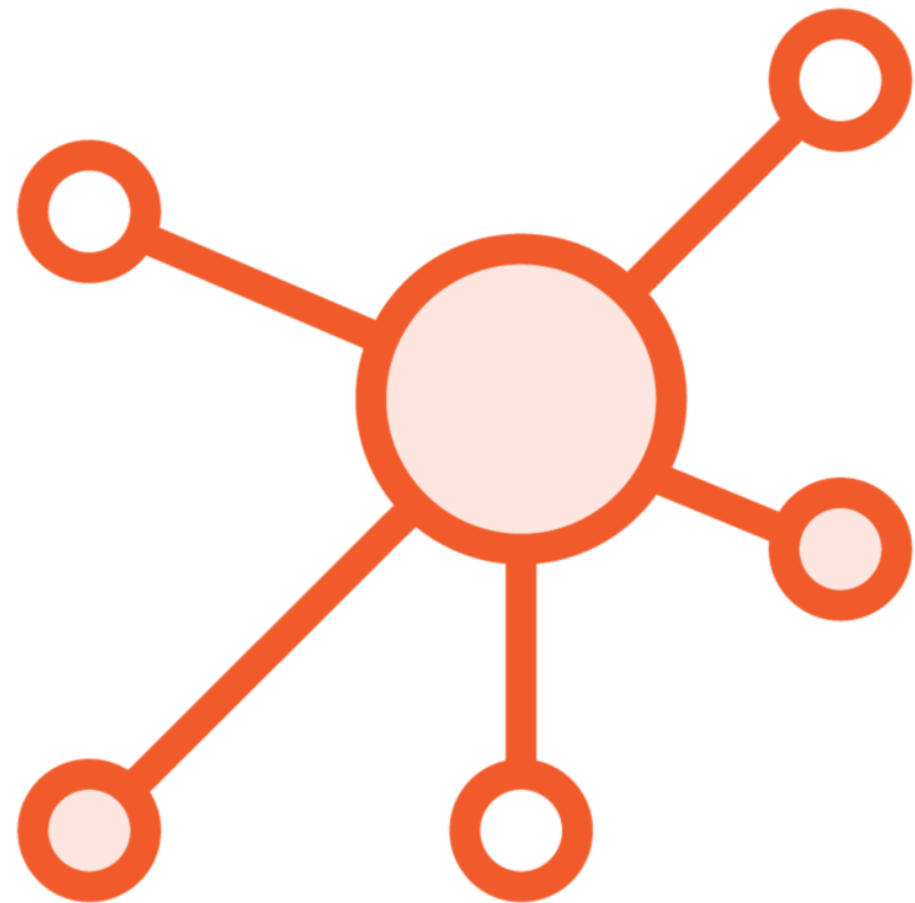


**Exploring File → New Project for
server-side Blazor**



A New Architecture for Maximized Code-sharing



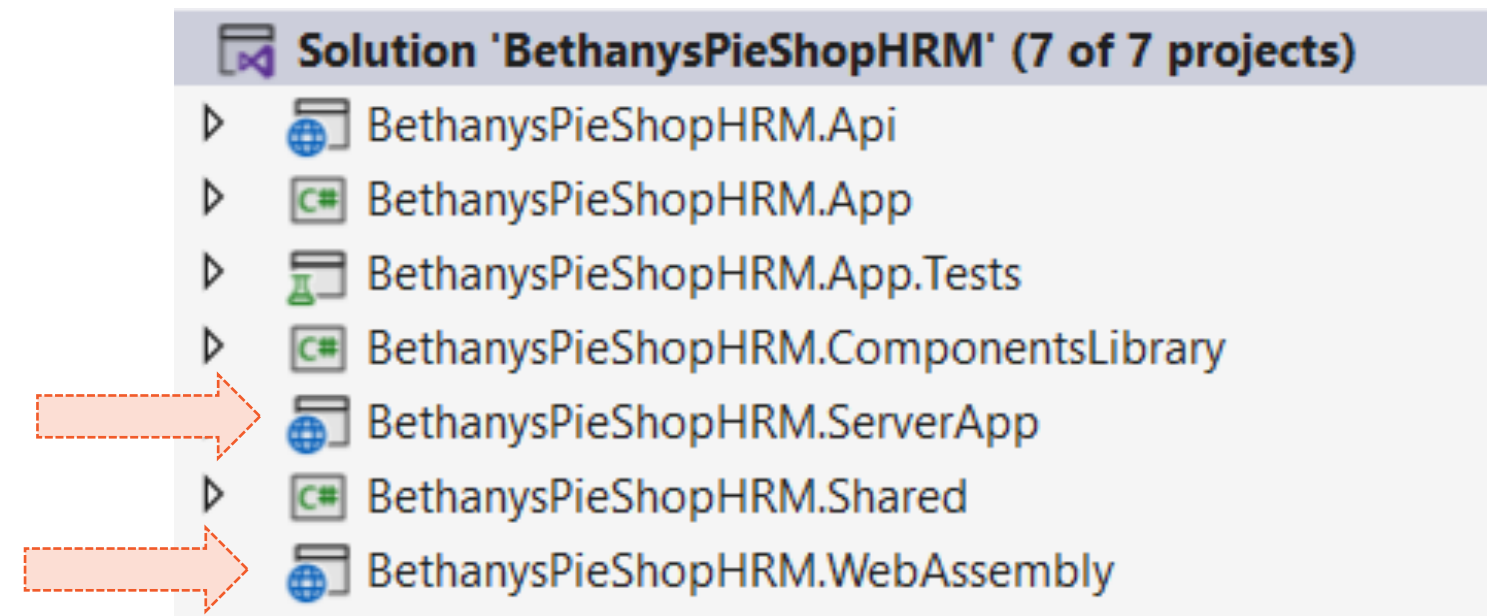


Sharing code

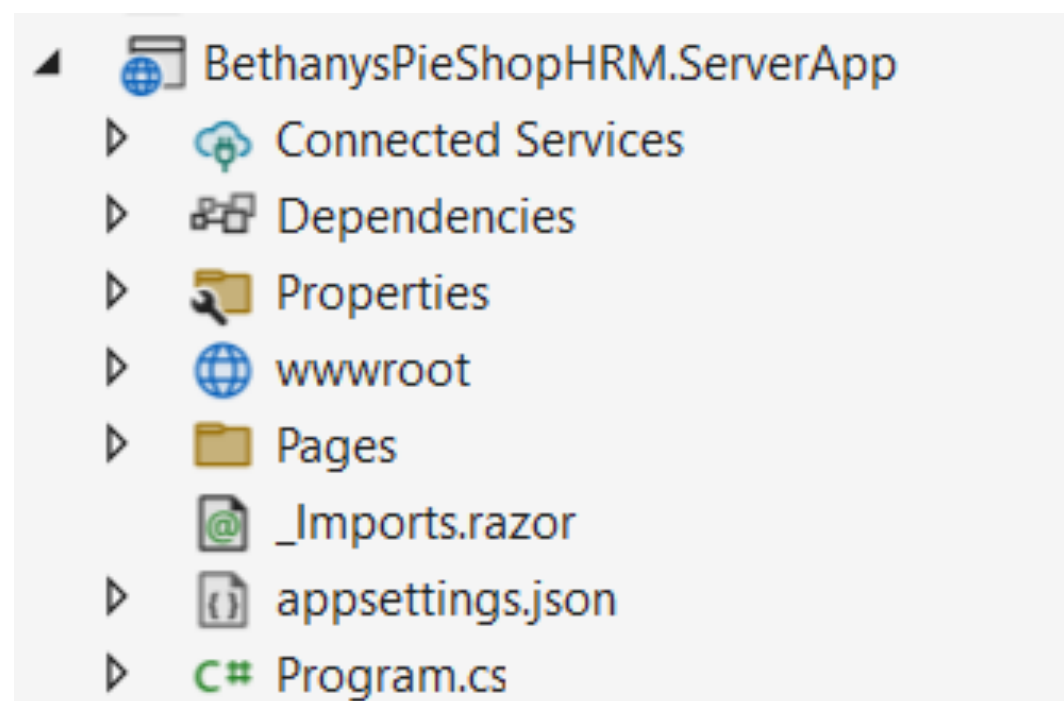
- App code is shared
- We can call the “app” from a Blazor WASM or Blazor Server project
- Extract what’s different to the individual projects
- Share all the rest



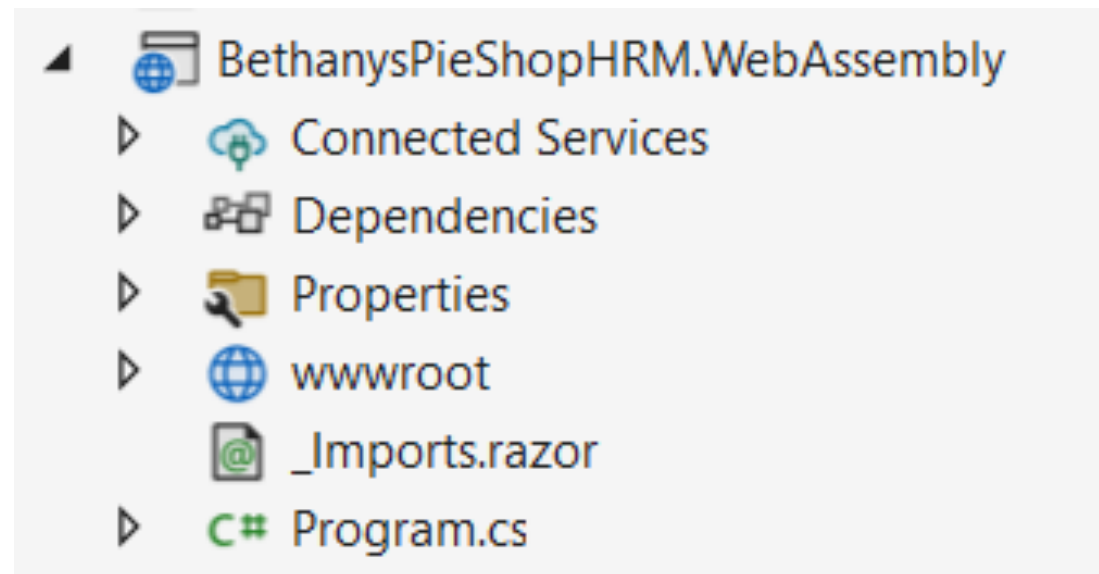
Proposed Approach

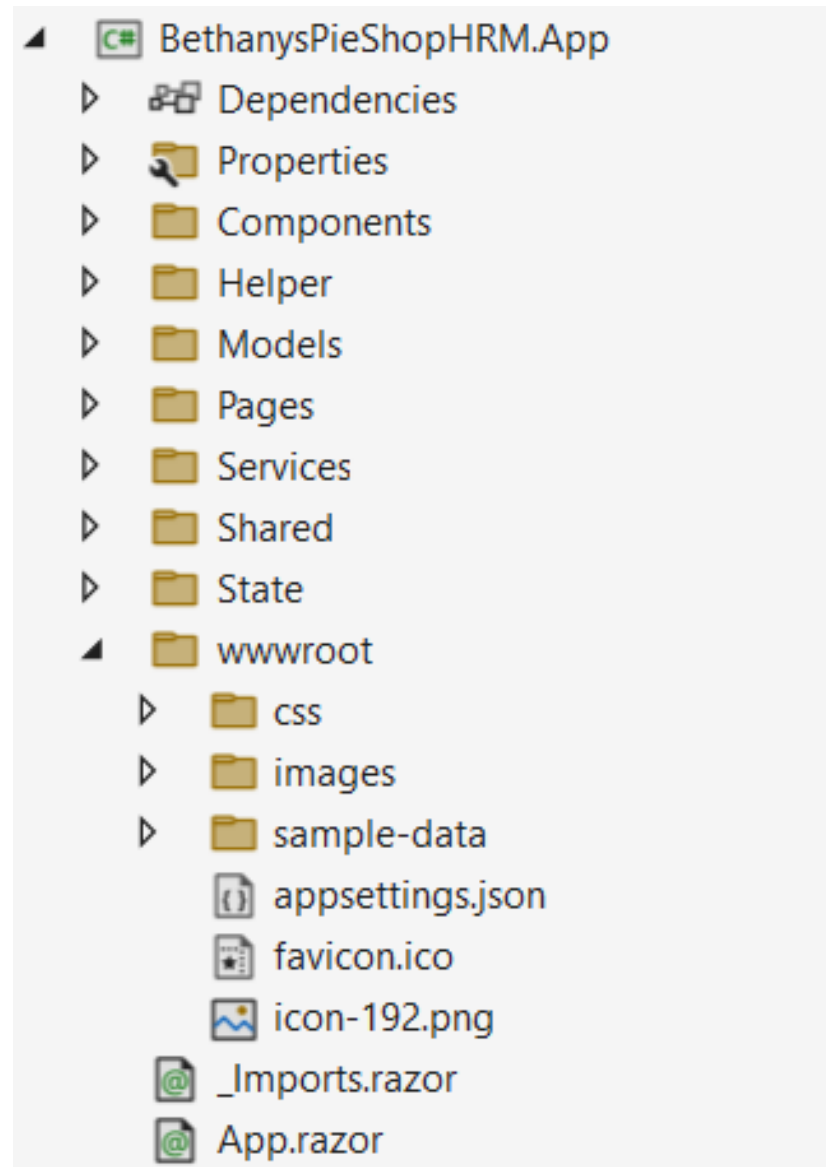


Blazor Server App



Blazor WebAssembly App





Shared project

- index.html is removed
- Project is a Razor Class Library
- All code in here can be reused



Demo



Exploring the new architecture

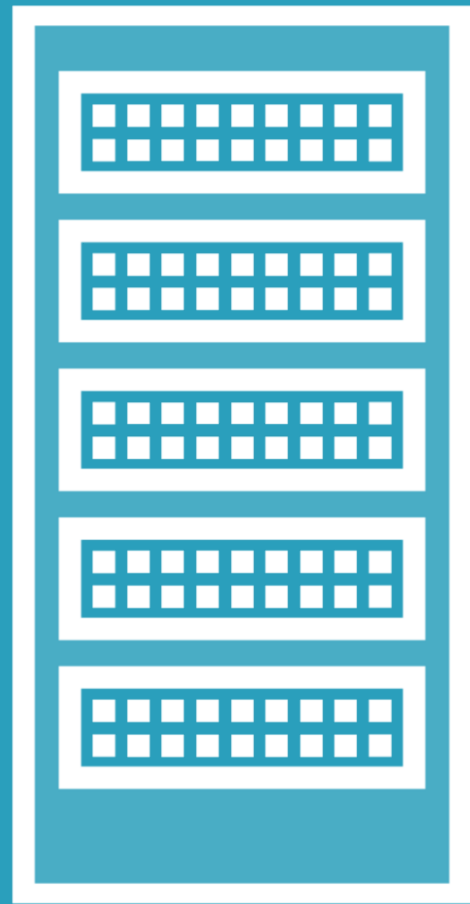


Summary



Blazor code can be shared between WASM and Server projects





Up next:
Deploying our application to Azure

