



Real Time Tool

SignalR



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ABOUT REAL TIME TOOL

SignalR



- SignalR is an abstraction over the communication mechanisms. It is a set of libraries that are small and focused on building real-time web applications as well as client applications cross-platform.⁽¹⁾
- We are going to use it to build a simple chat application that works in real time like WhatsApp

Why SignalR⁽²⁾ ?

1

Fast & scalable

High performance and is one of the fastest real-time frameworks around.

2

Open source & open protocol

SignalR is open-source on GitHub, just like the rest of .NET ,the protocol specification for communication between hubs and clients is open too.

3

Connect from everywhere

With client SDKs for JavaScript, .NET (C#, F#, and Visual Basic), and Java, you can connect to your SignalR hub and start receiving real-time messages on almost any platform including web, mobile, desktop, and games.



IN .NET

Technologies to integrate with SignalR⁽³⁾



JS

TS

Blazor

CHAT APP ARCHITECTURE :

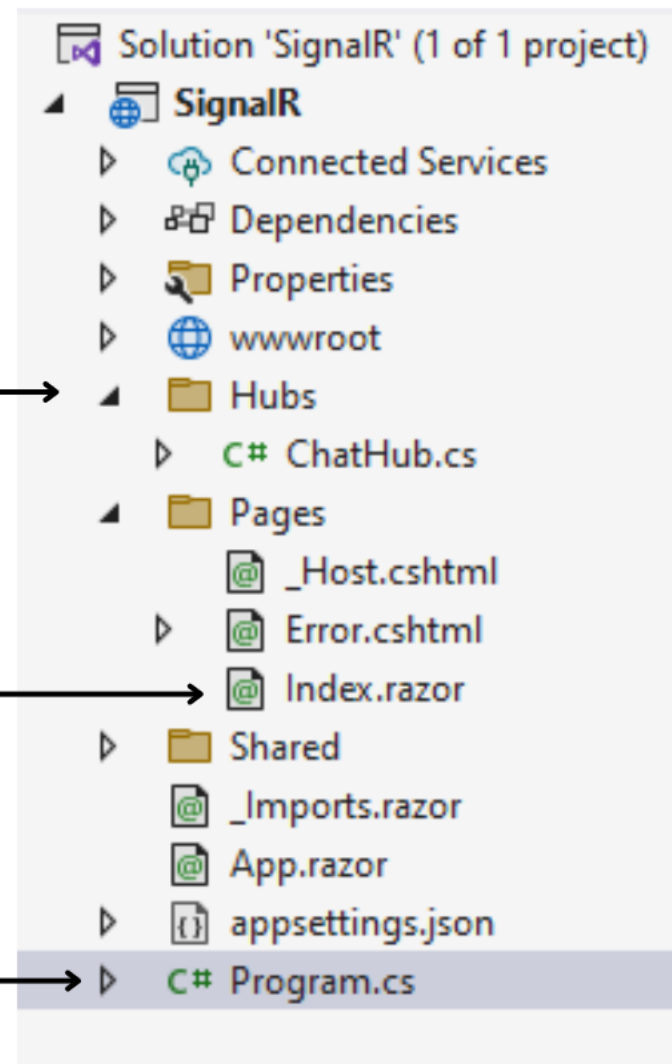


3 CREATE A HUBS (PLURAL)

2 RAZOR COMPONENT CODE FOR CHAT

1

THE PLACE WHERE YOU NEED TO REGISTER YOUR SERVICES AND DEPENDENCIES AFTER THE BUILDER , SO ADD SERVICES AND AN ENDPOINT FOR THE SIGNALR HUB .



SEND MESSAGE IN REAL TIME



SignalR

User:

Message:

- makkawi: hi...

SignalR

User:

Message:

- makkawi: hi...

SignalR

User:

Message:

- makkawi: hi...

References :

- 1-** <https://owlypixel.com/introduction-to-signalr-real-time-communication-library/>
- 2-** <https://dotnet.microsoft.com/en-us/apps/aspnet/signalr>
- 3-** <https://learn.microsoft.com/en-ca/aspnet/core/blazor/tutorials/signalr-blazor?view=aspnetcore-7.0&tabs=visual-studio&pivots=server>

