

Namespace TestSR.API

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Class ChatHub

Namespace: [TestSR.API](#)

Assembly: TestSR.API.dll

```
public class ChatHub : Hub<IChatClient>, IDisposable
```














Inheritance

[object](#)  ← [Hub](#)  ← [Hub](#)  <[IChatClient](#)> ← ChatHub

Implements

[IDisposable](#) 

Inherited Members

[Hub<IChatClient>.Clients](#)  , [Hub.OnDisconnectedAsync\(Exception\)](#)  , [Hub.Dispose\(bool\)](#)  , [Hub.Dispose\(\)](#)  , [Hub.Context](#)  , [Hub.Groups](#)  , [object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Methods


OnConnectedAsync()

Called when a new connection is established with the hub.

```
public override Task OnConnectedAsync()
```

Returns

[Task](#) 

A [Task](#)  that represents the asynchronous connect.


Class ClientCertificateAuthenticationHandler

Namespace: [TestSR.API](#)

Assembly: TestSR.API.dll

```
public class ClientCertificateAuthenticationHandler :  
    AuthenticationHandler<ClientCertificateAuthenticationOptions>, IAuthenticationHandler
```

Inheritance

[object](#)  ← [AuthenticationHandler](#)  <[ClientCertificateAuthenticationOptions](#)> ←
ClientCertificateAuthenticationHandler

Implements

[IAuthenticationHandler](#) 

Inherited Members

[AuthenticationHandler<ClientCertificateAuthenticationOptions>.InitializeAsync\(AuthenticationScheme, HttpContext\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.InitializeEventsAsync\(\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.CreateEventsAsync\(\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.InitializeHandlerAsync\(\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.BuildRedirectUri\(string\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.ResolveTarget\(string\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.AuthenticateAsync\(\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.HandleAuthenticateOnceAsync\(\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.HandleAuthenticateOnceSafeAsync\(\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.HandleForbiddenAsync\(AuthenticationProperties\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.HandleChallengeAsync\(AuthenticationProperties\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.ChallengeAsync\(AuthenticationProperties\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.ForbidAsync\(AuthenticationProperties\)](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.Scheme](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.Options](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.Context](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.Request](#)  ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.Response](#)  ,

[AuthenticationHandler<ClientCertificateAuthenticationOptions>.OriginalPath](#) ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.OriginalPathBase](#) ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.Logger](#) ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.UrlEncoder](#) ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.Clock](#) ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.TimeProvider](#) ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.OptionsMonitor](#) ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.Events](#) ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.ClaimsIssuer](#) ,
[AuthenticationHandler<ClientCertificateAuthenticationOptions>.CurrentUri](#) , [object.Equals\(object\)](#) ,
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ClientCertificateAuthenticationHandler(IOptionsMonitor<ClientCertificateAuthenticationOptions>, ILoggerFactory, UrlEncoder)

```
public  
ClientCertificateAuthenticationHandler(IOptionsMonitor<ClientCertificateAuthenticationOptions> options, ILoggerFactory logger, UrlEncoder encoder)
```

Parameters

options [IOptionsMonitor](#) <[ClientCertificateAuthenticationOptions](#)>

logger [ILoggerFactory](#)

encoder [UrlEncoder](#)

Methods

HandleAuthenticateAsync()

Allows derived types to handle authentication.

```
protected override Task<AuthenticateResult> HandleAuthenticateAsync()
```

Returns

[Task](#) <[AuthenticateResult](#)>

The [AuthenticateResult](#).

Class ClientCertificateAuthenticationOptions

Namespace: [TestSR.API](#)

Assembly: TestSR.API.dll

```
public class ClientCertificateAuthenticationOptions : AuthenticationSchemeOptions
```

Inheritance

[object](#) ← [AuthenticationSchemeOptions](#) ← ClientCertificateAuthenticationOptions

Inherited Members

[AuthenticationSchemeOptions.Validate\(\)](#), [AuthenticationSchemeOptions.Validate\(string\)](#),
[AuthenticationSchemeOptions.ClaimsIssuer](#), [AuthenticationSchemeOptions.Events](#),
[AuthenticationSchemeOptions.EventsType](#), [AuthenticationSchemeOptions.ForwardDefault](#),
[AuthenticationSchemeOptions.ForwardAuthenticate](#),
[AuthenticationSchemeOptions.ForwardChallenge](#), [AuthenticationSchemeOptions.ForwardForbid](#),
[AuthenticationSchemeOptions.ForwardSignIn](#), [AuthenticationSchemeOptions.ForwardSignOut](#),
[AuthenticationSchemeOptions.ForwardDefaultSelector](#),
[AuthenticationSchemeOptions.TimeProvider](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#),
[object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#),
[object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Class ClientCertificateProvider

Namespace: [TestSR.API](#)

Assembly: TestSR.API.dll

```
public class ClientCertificateProvider : IClientCertificateProvider
```

Inheritance

[object](#) ← ClientCertificateProvider

Implements

[IClientCertificateProvider](#)

Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Methods

GetClientCertificates(string)

```
public X509Certificate2Collection GetClientCertificates(string subject)
```

Parameters

subject [string](#)

Returns

[X509Certificate2Collection](#)

Interface ICertificateValidationService

Namespace: [TestSR.API](#)

Assembly: TestSR.API.dll

```
public interface ICertificateValidationService
```

Methods

ValidateCertificate(X509Certificate2)

```
bool ValidateCertificate(X509Certificate2 clientCertificate)
```

Parameters

clientCertificate [X509Certificate2](#) 

Returns

[bool](#) 

Interface IChatClient

Namespace: [TestSR.API](#)

Assembly: TestSR.API.dll

```
public interface IChatClient
```

Methods

ReceiveNotification(string)

```
Task ReceiveNotification(string message)
```

Parameters

message [string](#) 

Returns

[Task](#) 

UpdateTime(DateTime)

```
Task UpdateTime(DateTime dateTime)
```

Parameters

dateTime [DateTime](#) 

Returns

[Task](#) 

Interface IClientCertificateProvider

Namespace: [TestSR.API](#)

Assembly: TestSR.API.dll


```
public interface IClientCertificateProvider
```

Methods

GetClientCertificates(string)

```
X509Certificate2Collection GetClientCertificates(string subject)
```

Parameters

subject [string](#) 

Returns

[X509Certificate2Collection](#) 

Class MyCertificateValidationService

Namespace: [TestSR.API](#)

Assembly: TestSR.API.dll

```
public class MyCertificateValidationService : ICertificateValidationService
```

Inheritance

[object](#) ← MyCertificateValidationService

Implements

[ICertificateValidationService](#)

Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Methods

ValidateCertificate(X509Certificate2)

```
public bool ValidateCertificate(X509Certificate2 clientCertificate)
```

Parameters

clientCertificate [X509Certificate2](#)

Returns

[bool](#)

Class MyConnection

Namespace: [TestSR.API](#)

Assembly: TestSR.API.dll

```
public class MyConnection : PersistentConnection
```

Inheritance

[object](#) ← [PersistentConnection](#) ← MyConnection

Inherited Members

[PersistentConnection.Initialize\(IDependencyResolver\)](#) , [PersistentConnection.Authorize\(IRequest\)](#) ,
[PersistentConnection.ProcessRequest\(IDictionary<string, object>\)](#) ,
[PersistentConnection.ProcessRequest\(HttpContext\)](#) ,
[PersistentConnection.TryGetConnectionId\(HttpContext, string, out string, out string, out int\)](#) ,
[PersistentConnection.GetSignals\(string, string\)](#) ,
[PersistentConnection.OnRejoiningGroups\(IRequest, IList<string>, string\)](#) ,
[PersistentConnection.OnConnected\(IRequest, string\)](#) ,
[PersistentConnection.OnReconnected\(IRequest, string\)](#) ,
[PersistentConnection.OnDisconnected\(IRequest, string, bool\)](#) , [PersistentConnection.Trace](#) ,
[PersistentConnection.ProtectedData](#) , [PersistentConnection.Pool](#) ,
[PersistentConnection.MessageBus](#) , [PersistentConnection.JsonSerializer](#) ,
[PersistentConnection.AckHandler](#) , [PersistentConnection.TraceManager](#) ,
[PersistentConnection.Counters](#) , [PersistentConnection.Transport](#) ,
[PersistentConnection.UserIdProvider](#) , [PersistentConnection.Connection](#) ,
[PersistentConnection.Groups](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Methods

AuthorizeRequest(IRequest)

Called before every request and gives the user a authorize the user.

```
protected override bool AuthorizeRequest(IRequest request)
```

Parameters

request [IRequest](#)

The Microsoft.AspNet.SignalR.IRequest for the current connection.

Returns

[bool](#)

A boolean value that represents if the request is authorized.

OnReceived(IRequest, string, string)

Called when data is received from a connection.

```
protected override Task OnReceived(IRequest request, string connectionId, string data)
```

Parameters

request [IRequest](#)

The Microsoft.AspNet.SignalR.IRequest for the current connection.

connectionId [string](#)


The id of the connection sending the data.

data [string](#)

The payload sent to the connection.

Returns

[Task](#)

A [Task](#) that completes when the receive operation is complete.

Class ServerTimeNotifierService

Namespace: [TestSR.API](#)

Assembly: TestSR.API.dll

```
public class ServerTimeNotifierService : BackgroundService, IHostedService, IDisposable
```

Inheritance

[object](#) ← [BackgroundService](#) ← ServerTimeNotifierService

Implements

[IHostedService](#), [IDisposable](#)

Inherited Members

[BackgroundService.Dispose\(\)](#), [BackgroundService.StartAsync\(CancellationToken\)](#), [BackgroundService.StopAsync\(CancellationToken\)](#), [BackgroundService.ExecuteTask](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

ServerTimeNotifierService(ILogger<ServerTimeNotifierService>, IHubContext<ChatHub, IChatClient>)

```
public ServerTimeNotifierService(ILogger<ServerTimeNotifierService> logger,
    IHubContext<ChatHub, IChatClient> context)
```

Parameters

logger [ILogger](#) <[ServerTimeNotifierService](#)>

context [IHubContext](#) <[ChatHub](#), [IChatClient](#)>

Methods

ExecuteAsync(CancellationToken)

This method is called when the [IHostedService](#) starts. The implementation should return a task that represents the lifetime of the long running operation(s) being performed.

```
protected override Task ExecuteAsync(CancellationToken stoppingToken)
```

Parameters

stoppingToken [CancellationToken](#)

Triggered when [StopAsync\(CancellationToken\)](#) is called.

Returns

[Task](#)

A [Task](#) that represents the long running operations.

Remarks

See [Worker Services in .NET](#) for implementation guidelines.