

TSP : Birds A&Z Ltd.
Module : VIII
Batch : ESAD-CS/BAZL-01M/30/01

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Duration : 90 min
Total Marks : 100

Trainee Name : _____

Trainee ID : _____

Marks Rewarded: ____

Part One

[• Each question carries two marks]

Q1. On SignalR client side, how do handle the reception of information from the client?

- A. Using custom event
- B. Using callback**
- C. Using promise
- D. Using native socket event handler

Q2. To map and configure SignalR in host application, which process that must take place during application startup?

- A. Execution of Configure method of the Startup class.**
- B. Execution of Application Start event handler
- C. Execution of RegisterRoutes in RouteConfig class
- D. All of the above

Q3. What does the Configure method of the Startup class of the host application based on OWIN?

- A. filters out irrelevant requests that comes to the application
- B. apply security to the application
- C. configure the different OWIN middleware that will process the requests, such as SignalR, Web API, authentication, tracing, and so on**
- D. None of the above

Q4. What is the type of parameter that is passed to the Configure method of the Startup class?

- A. An instance of WebApp<T> class
- B. An instance of RouteCollection class
- C. An instance of a class implementing the IApplicationBuilder interface**
- D. An object of Application class

Q5. You have created a EchoConnection inheriting from PersistentConnection. How do configure it in the Configure method of the OWIN start up class?

- A. <IApplicationBuilder argument>.MapSignalR();
- B. <IApplicationBuilder argument>.MapSignalR<EchoConnection>()**
- C. <IApplicationBuilder argument>.MapSignalR(EchoConnection)
- D. <IApplicationBuilder argument>.MapSignalR (typeof(EchoConnection))

Q6. If WebSocket is used as Transport in between SignalR Server and client, how is PersistentConnection instantiated?

- A. the instance of PersistentConnection will remain active until the client disconnects**
- B. the instance of PersistentConnection each time the client sends data
- C. the instance of PersistentConnection each time an HTTP connection is opened from a client
- D. the instance of PersistentConnection each time client sends method call

Q7. If forever frame is used as Transport in between SignalR Server and client, how is PersistentConnection instantiated?

- A. the instance of PersistentConnection will remain active until the client disconnects

B. the instance of PersistentConnection each time the client sends data

- C. the instance of PersistentConnection each time an HTTP connection is opened from a client
- D. the instance of PersistentConnection each time client sends method call

Q8. Which one is not a method of PersistentConnection?

- A. protected Task OnConnected(IRequest request, string connectionId)
- B. protected Task OnDisconnected(IRequest request, string connectionId)
- C. protected Task OnReconnected(IRequest request, string connectionId)
- D. protected Task OnSend(IRequest request, string connectionId, string data)**

Q9. By default, SignalR uses connection id as

- A. GUID**
- B. Integer
- C. A random integer value
- D. Double precision floating point value

Q10. Which method of the persistent connection allows processing the data sent by the clients?

- A. OnConnected
- B. OnDisconnected
- C. OnReconnected
- D. OnReceived**

Q11. With PersistentConnection, which method will to send a message asynchronously to all clients connected to the service?

- A. Connection.Send**
- B. Connection.Broadcast**
- C. Connection.Notify
- D. Connection.Message

Q12. You are using PersistentConnection. Which one of the following sends a notification to all users of the service except the one who has just connected?

- A. Connection.Others.Broadcast("A new user is online!");**
- B. Connection.AllExcept(connectionId).Broadcast("A new user is online!", connectionId);
- C. Connection.Broadcast("A new user is online!", connectionId);
- D. Connection.All(connectionId).Broadcast("A new user is online!");

Q13. Which one is not a way to specify OWIN startup class?

- A. By defining the Startup class in the root namespace of the application
- B. Using the assembly attribute OwinStartup
- C. Including the entry "owin:AppStartup" in the <AppSettings> section of the .config file of the application and setting as a value the fully qualified name of the class and the method to
- D. By defining the Startup class in the app_start folder**

Q14. You have the following Startup class namespace MyApp

```
{
    public class Start
    {
        public void Run(IAppBuilder app){...}
    }
}
```

Which one correctly sets OWIN startup class?

- A. [assembly:OwinStartup(typeof(MyApp.Start))] before the namespace
- B. [assembly:OwinStartup(typeof(MyApp.Start))] before the class
- C. [assembly:OwinStartup(typeof(MyApp.Start), methodName: "Run")] before the namespace
- D. [assembly:OwinStartup(typeof(MyApp.Start), methodName: "Run")] before the class

Q15. To implement a client of PersistentConnection, which JavaScript libraries should you include?

- A. jquery 1.6 or higher
- B. jquery ui 2.2 or higher
- C. jquery.signalR 2.0 or higher
- D. signalr generated proxy

Q16. You have a PersistentConnection

```
public class ChatConnection: PersistentConnection
{
    protected override Task OnReceived(IRequest request,
string connectionId, string data)
    {
        return Connection.Broadcast(data);
    }
}
```

And the OWIN Startup class

```
public class Startup
{
    public void Configuration(IAppBuilder app)
    {
        app.MapSignalR< ChatConnection>("/chat");
    }
}
```

On the client

```
var connection = $.connection("/chat");
```

Now you want that after a successful connection a message will be sent to server. Which code should do it right?

- A. connection.start()
connection.send("Hi there!");
- B. connection.start(function() {
connection.send("Hi there!");
});
- C. connection.start()
.done(function() {
connection.send("Hi there!");
});
- D. connection.start()
connection.received = function(){
connection.send("Hi there!");
}

Q17. You have created a PersistentConnection. You want to support cross-domain connections. What should you do?

- A. Install microsoft.owin.cors nuget package
- B. Call the UseCors() before mapping SignalR
- C. Call the UseCors() after mapping SignalR
- D. Use EnableCors attribute on Connection class

Q18. You implementing cross-domain SignalR client. You want to use JSONP. Which one does it correctly?

- A. var connection = \$.connection("http.....");
connection.start({ jsonp: true })
.done(function() {
//
});
- B. var connection = \$.connection("http.....");
connection.start()
.done(function({ jsonp: true }) {
//
});
- C. var connection = \$.connection("http.....");
connection.jsonp=true;
connection.start()
.done(function(){
//
});
- D. var connection = \$.connection("http.....", {jsonp: true});
connection.start()
.done(function(){
//
});

Q19. In SignalR PersistentConnection client, which method is used for reception of data sent from the server?

- A. received
- B. message
- C. onmessage
- D. onrecieved

Q20. In PersistentConnection, whenever a new connection is made you want to get authenticated user name. Which code should you use?

- A. request.User.Identity.Name
- B. Context.User.Identity.Name
- C. Connection.User.Identity.Name
- D. Connection(connectionId).User.Identity.Name