

## Created new web.api project

### Add nuget packages

1. Add entityframework core
2. Add entityframework core sql server

### Create model folder

#### Add model class

add a class named Message

#### Add using

```
using System.ComponentModel.DataAnnotations;
```

#### Add code

```
using System.ComponentModel.DataAnnotations;
namespace WebApplication.Model
{
    public class Message
    {
        public int MessageId { get; set; }
        [Required]
        public string Text { get; set; }
    }
}
```

### Create data folder

#### Add context class

Add a class named context

#### Add using

```
using Microsoft.EntityFrameworkCore;
using WebApplication.Model;
```

#### Add code

```
using Microsoft.EntityFrameworkCore;
using WebApplication.Model;
namespace WebApplication.Data
{
    public class MyContext : DbContext
    {
        public MyContext(DbContextOptions<MyContext> options) : base(options) { }
        public DbSet<Message> Messages { get; set; }
    }
}
```

### Open startup.cs

#### Add using

```
using WebApplication.Data;
using Microsoft.EntityFrameworkCore;
```

### Navigate to ConfigureServices()

#### Add new code after line 29

```
services.AddDbContext<MyContext>(options =>
    options.UseSqlServer(
        Configuration.GetConnectionString("DefaultConnection")));
```

### Open appsettings.json

#### Add code after line 1

Replace the value prefixed with My.

```
"ConnectionStrings": {
```

```

    "DefaultConnection":
    "Server=(localdb)\\mssqllocaldb;Database=MyDatabaseName1;Trusted_Connection=true;MultipleActiveResultSets=true"
  },

```

### After Connection String

Modify connection with a value appropriate for working locally or in the cloud. Replace all values prefixed with My. when using Azure, select an affordable DTU value.

- Local Machine  
Server=(localdb)\\mssqllocaldb;Database=MyDatabaseName;Trusted\_Connection=True;MultipleActiveResultSets=true
- Azure SQL Database  
Server=MySqlServerName.database.windows.net;Database=MyDatabaseName;UserId=MySqlLogin;Password=MyPassword;MultipleActiveResultSets=true

### Migrate changes to the database

1. Tools – NuGet Package Manager – Package Manager Console
2. add-migrations newPhotoModel
3. update-database

add html

```

<ul id="messages">
</ul>

```

Update client script to refresh

```

    setInterval(function () {

    }, 1000);

```

Update client script to get server data

```

    setInterval(function () {
        $.ajax({
            url: '/api/messages',
            type: 'get'
        }).done(function (data) {
            $('#messages').html('');
            for (var i in data) {
                $('#messages').append('<li>' + data[i].text + '</li>');
            }
        });
    }, 1000);

```

Add html

```

<input id="text" />
<button id="send">Send Message</button>

```

Add event handler

```

$('#send').click(function () {
});

```

Update event handler

```

$('#send').click(function () {
    $.ajax({
        url: '/api/messages',
        type: 'post',
        data: JSON.stringify({ text: $('#text').val() }),
        contentType: "application/json"
    });
});

```

```
});  
});
```