

## SportsStore

Continue with the project we started in chapters 7-9

- ☐ Complete the shopping cart as described on pages 214-240
  - ☐ Add a **Cart** class to the Models folder (put the CartLine class in the same file) [p. 215-216]
  - ☐ Add the **"Add to Cart"** button to the **ProductSummary** partial view [p. 2.19]
  - ☐ Implement the **CartController** [p. 220-223]
  - ☐ Create the **Cart/Index** view [p. 223-225]
  - ☐ Create a Custom Model Binder for the Cart class [p. 227--228]
  - ☐ Register the **CartModelBinder** in the Global.asax file [p. 228]
  - ☐ Refactor **CartController** to remove the **GetCart** method [p. 229-230]
  - ☐ Add the **"Remove"** button to the shopping cart [p. 233]
  - ☐ Add the Cart Summary to the navbar [p. 234-236]
  - ☐ Implement the checkout process [p. 236-240]
  
- ☐ Add the following rules to your **.gitignore** file, to ignore temporary SQL Server project files
  - \*.dbmdl
  - \*.jfm
  
- ☐ Open your Global.asax and add the following line to the Application\_Start method. *This will prevent Entity Framework from requiring migrations for changes to the database schema.*  

```
Database.SetInitializer<SportsStoreDatabase>(null);
```
  
- ☐ Redesign the **Cart/Index** view to be **mobile friendly** (you may use the bootstrap grid system, but do not use a table)
  
- ☐ Integrate FontAwesome icons
  - ☐ Get a **kit** from <https://fontawesome.com> and add the provided script at the end of the body (in \_Layout.cshtml)
  - ☐ Add the class **fa-fw** to all icons to make them fixed width and reduce pop-in
  - ☐ Add an appropriate icon to the brand name in the navbar
  - ☐ Add an appropriate icon to each of the buttons on the website
    - ☐ <https://fontawesome.com/icons/shopping-cart>
    - ☐ <https://fontawesome.com/icons/credit-card>
    - ☐ <https://fontawesome.com/icons/dolly-flatbed>
    - ☐ <https://fontawesome.com/icons/arrow-left>

- ☐ Add a single image for each product
  - ☐ Find appropriate product images on <https://www.pexels.com/> and save the **Small** version
  - ☐ Put the product images into the **/Content/Products** folder
  - ☐ Add a **Photo column** to the Products table, use type NVARCHAR(100) NULL
  - ☐ Add a **Photo property** to the Product model, type string
  - ☐ Add **[StringLength(100)]** to the Photo property of the Product model
  - ☐ Update the **ProductSummary** to display the product photo (use class card-img-top, to put the photo at the top of the card) <https://getbootstrap.com/docs/4.3/components/card/>
  
- ☐ When an order is submitted, send an email to your personal email with the order information
  - ☐ Use **SmtpClient** to send the email
  - ☐ Use **environment variables** to store the SMTP credentials
    - ☐ Store the server name in **SMTP\_HOST**
    - ☐ Store the server port in **SMTP\_PORT**
    - ☐ Store your username in **SMTP\_USER**
    - ☐ Store your password in **SMTP\_PASSWORD**
  - ☐ Set the **From** and **To** addresses to username stored in SMTP\_USER
  - ☐ Set the **subject** of the email to "New Order Submitted!"
  - ☐ Refer to page 246 to build the **body** of the email

- ❑ When an order is submitted, save the order to the database

- ❑ Add an **Orders** table with the following schema

```
CREATE TABLE [Orders] (  
    [OrderID] INT NOT NULL PRIMARY KEY IDENTITY,  
    [OrderDate] DATETIME DEFAULT(GETDATE()) NOT NULL,  
    [ShipDate] DATETIME NULL  
);
```

- ❑ Create an **OrderLines** table with the following schema

```
CREATE TABLE [OrderLines] (  
    [OrderID] INT NOT NULL,  
    [ProductID] INT NOT NULL,  
    [Quantity] INT NOT NULL,  
    [PricePerUnit] DECIMAL(16,2) NOT NULL,  
  
    PRIMARY KEY ([OrderID], [ProductID]),  
    FOREIGN KEY ([OrderID]) REFERENCES [Orders] ([OrderID]),  
    FOREIGN KEY ([ProductID]) REFERENCES [Products] ([ProductID]),  
);
```

- ❑ Create the **Order** and **OrderLine** model classes to match the above schemas
  - ❑ Add DbSet properties **Orders** and **OrderLines** to the DbContext
  - ❑ Add logic to the **CartController.Checkout** method to save the order data to the Orders and OrderLines tables.