

# Namespace WebApp.AI

## Classes

[Chatbot](#)

[Core](#)

# Class Chatbot

Namespace: [WebApp.AI](#)

Assembly: WebApp.dll

```
public class Chatbot : Core
```

## Inheritance

[object](#) ← [Core](#) ← Chatbot

## Inherited Members

[Core.systemPrompt](#), [Core.client](#), [Core.options](#), [object.Equals\(object\)](#),  
[object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#),  
[object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

# Constructors

## Chatbot(string?, int, float)

```
public Chatbot(string? systemPrompt = null, int maxTokens = 400, float temperature = 0.9)
```

## Parameters

systemPrompt [string](#)

maxTokens [int](#)

temperature [float](#)

# Methods

## AddHistory(string)

```
public void AddHistory(string message)
```

Parameters

message [string](#)

Run(string, int, int, int, Action<string>?)

```
public Task<string> Run(string query, int timeoutMillisecods = 10000, int  
retryDelayMilliseconds = 1000, int maxRetries = 3, Action<string>? callback = null)
```

Parameters

query [string](#)

timeoutMillisecods [int](#)

retryDelayMilliseconds [int](#)

maxRetries [int](#)

callback [Action](#)<[string](#)>

Returns

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

# Class Core

Namespace: [WebApp.AI](#)

Assembly: WebApp.dll

```
public class Core
```

## Inheritance

[object](#) ← Core

## Derived

[Chatbot](#)

## Inherited Members

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

# Constructors

## Core(string, int, float)

```
protected Core(string systemPrompt, int maxTokens, float temperature)
```

## Parameters

systemPrompt [string](#)

maxTokens [int](#)

temperature [float](#)

# Fields

## \_client

```
protected readonly OpenAIClient _client
```

Field Value

[OpenAIClient](#)

## \_systemPrompt

```
protected string _systemPrompt
```

Field Value

[string](#)

## Properties

### \_options

```
protected ChatCompletionsOptions _options { get; }
```

Property Value

[ChatCompletionsOptions](#)

## Methods

### Run(string, int, int, int, Action<string>?)

```
protected Task<string> Run(string query, int timeoutMillisecods, int  
retryDelayMilliseconds, int maxRetries, Action<string>? callback = null)
```

Parameters

query [string](#)

timeoutMillisecods [int](#)

retryDelayMilliseconds [int](#)

`maxRetries int`

`callback Action<string>`

Returns

`Task<string>`

# Namespace WebApp.APIs.AzureMaps

## Classes

### [Weather](#)

Provides methods to retrieve weather information from Azure Maps.

# Class Weather

Namespace: [WebApp.APIs.AzureMaps](#)

Assembly: WebApp.dll

Provides methods to retrieve weather information from Azure Maps.

```
public class Weather
```

## Inheritance

[object](#) ← Weather

## Inherited Members

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

## Constructors

### Weather()

Initializes a new instance of the [Weather](#) class.

```
public Weather()
```

## Methods

### GetCurrentCondition()

Gets the current weather condition based on the user's location.

```
public Task<CurrentCondition?> GetCurrentCondition()
```

Returns

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

The current weather condition or null if the information is not available.

## GetWeatherIconName(int?)

Gets the weather icon name based on the provided icon code.

```
public string? GetWeatherIconName(int? iconCode)
```

Parameters

**iconCode** [int](#)?

The icon code representing the weather condition.

Returns

[string](#)

The name of the weather icon or null if the icon code is not recognized.

# Namespace WebApp.APIs.GoogleTranslate

## Classes

### [GoogleTranslate](#)

Provides translation services using the Google Translate API.

# Class GoogleTranslate

Namespace: [WebApp.APIs.GoogleTranslate](#)

Assembly: WebApp.dll

Provides translation services using the Google Translate API.

```
public class GoogleTranslate
```

## Inheritance

[object](#) ← GoogleTranslate

## Inherited Members

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

## Constructors

### GoogleTranslate()

Initializes a new instance of the [GoogleTranslate](#) class.

```
public GoogleTranslate()
```

## Fields

### CurrentLanguage

Gets or sets the current language for translation.

```
public string CurrentLanguage
```

## Field Value

[string](#)

# Methods

## GetPreferredLanguage()

Gets the preferred language from the request headers.

```
public string GetPreferredLanguage()
```

Returns

[string](#)

The preferred language or "en" if not available.

## GetSupportedLanguages()

Gets the list of supported languages and their codes.

```
public KeyValuePair<string, string>[]? GetSupportedLanguages()
```

Returns

[KeyValuePair](#)<[string](#), [string](#)>[]

An array of key-value pairs representing supported languages and their codes.

## TranslateText(string)

Translates the specified text to the current language.

```
public Task<string> TranslateText(string text)
```

Parameters

[text](#) [string](#)

The text to be translated.

## Returns

[Task](#) <string>

The translated text or the original text if translation fails.

# Namespace WebApp.Controllers

## Classes

[AIController](#)

[AccountController](#)

Controller responsible for handling user account-related actions, such as login, logout, and user preferences.

[CartController](#)

Controller responsible for managing shopping cart operations, including adding, removing, and editing items.

[CashierController](#)

Controller responsible for managing cashier-related operations, including product categories, best sellers, favorites, and customizations.

[CustomerController](#)

Controller responsible for managing customer-related operations, including viewing products, categories, best sellers, and favorites.

[HomeController](#)

Controller responsible for handling requests related to the home page and basic site navigation.

[ManagerController](#)

[MenuBoardController](#)

Controller responsible for handling requests related to the menu board, including displaying products and handling product details.

[StoryController](#)

# Class AIController

Namespace: [WebApp.Controllers](#)

Assembly: WebApp.dll

```
[ApiController]
public class AIController : Controller, IActionFilter, IAsyncActionFilter,
IFilterMetadata, IDisposable
```

## Inheritance

[object](#) ← [ControllerBase](#) ← [Controller](#) ← [AIController](#)

## Implements

[IActionFilter](#), [IAsyncActionFilter](#), [IFilterMetadata](#), [IDisposable](#)

## Inherited Members

[Controller.View\(\)](#), [Controller.View\(string\)](#), [Controller.View\(object\)](#),  
[Controller.View\(string, object\)](#), [Controller.PartialView\(\)](#), [Controller.PartialView\(string\)](#),  
[Controller.PartialView\(object\)](#), [Controller.PartialView\(string, object\)](#),  
[Controller.ViewComponent\(string\)](#), [Controller.ViewComponent\(Type\)](#),  
[Controller.ViewComponent\(string, object\)](#), [Controller.ViewComponent\(Type, object\)](#),  
[Controller.Json\(object\)](#), [Controller.Json\(object, object\)](#),  
[Controller.OnActionExecuting\(ActionExecutingContext\)](#),  
[Controller.OnActionExecuted\(ActionExecutedContext\)](#),  
[Controller.OnActionExecutionAsync\(ActionExecutingContext, ActionExecutionDelegate\)](#),  
[Controller.Dispose\(\)](#), [Controller.Dispose\(bool\)](#), [Controller.ViewData](#), [Controller.TempData](#),  
[Controller.ViewBag](#), [ControllerBase.StatusCode\(int\)](#), [ControllerBase.StatusCode\(int, object\)](#),  
[ControllerBase.Content\(string\)](#), [ControllerBase.Content\(string, string\)](#),  
[ControllerBase.Content\(string, string, Encoding\)](#),  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#), [ControllerBase.NoContent\(\)](#),  
[ControllerBase.Ok\(\)](#), [ControllerBase.Ok\(object\)](#), [ControllerBase.Redirect\(string\)](#),  
[ControllerBase.RedirectPermanent\(string\)](#), [ControllerBase.RedirectPreserveMethod\(string\)](#),  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#), [ControllerBase.LocalRedirect\(string\)](#),  
[ControllerBase.LocalRedirectPermanent\(string\)](#), [ControllerBase.LocalRedirectPreserveMethod\(string\)](#),  
[ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#), [ControllerBase.RedirectToAction\(\)](#),  
[ControllerBase.RedirectToAction\(string\)](#), [ControllerBase.RedirectToAction\(string, object\)](#),  
[ControllerBase.RedirectToAction\(string, string\)](#),  
[ControllerBase.RedirectToAction\(string, string, object\)](#),  
[ControllerBase.RedirectToAction\(string, string, string\)](#),

[ControllerBase.RedirectToAction\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanentPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoute\(string\)](#)  ,  [ControllerBase.RedirectToRoute\(object\)](#)  ,  
 [ControllerBase.RedirectToRoute\(string, object\)](#)  ,  [ControllerBase.RedirectToRoute\(string, string\)](#)  ,  
 [ControllerBase.RedirectToRoute\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string\)](#)  ,  [ControllerBase.RedirectToPage\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string\)](#)  ,  [ControllerBase.RedirectToPage\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.File\(byte\[\], string\)](#)  ,  [ControllerBase.File\(byte\[\], string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string\)](#)  ,  [ControllerBase.File\(byte\[\], string, string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string\)](#)  ,  [ControllerBase.File\(Stream, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, string\)](#)  ,  [ControllerBase.File\(Stream, string, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,

[ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(string, string\)](#)  ,  [ControllerBase.File\(string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, string\)](#)  ,  [ControllerBase.File\(string, string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string\)](#)  ,  [ControllerBase.PhysicalFile\(string, string, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.Unauthorized\(\)](#)  ,  [ControllerBase.Unauthorized\(object\)](#)  ,  [ControllerBase.NotFound\(\)](#)  ,  
 [ControllerBase.NotFound\(object\)](#)  ,  [ControllerBase.BadRequest\(\)](#)  ,  
 [ControllerBase.BadRequest\(object\)](#)  ,  [ControllerBase.BadRequest\(ModelStateDictionary\)](#)  ,  
 [ControllerBase.UnprocessableEntity\(\)](#)  ,  [ControllerBase.UnprocessableEntity\(object\)](#)  ,  
 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#)  ,  [ControllerBase.Conflict\(\)](#)  ,  
 [ControllerBase.Conflict\(object\)](#)  ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#)  ,  
 [ControllerBase.Problem\(string, string, int?, string, string\)](#)  ,  
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#)  ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#)  ,  [ControllerBase.ValidationProblem\(\)](#)  ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#)  ,  
 [ControllerBase.Created\(string, object\)](#)  ,  [ControllerBase.Created\(Uri, object\)](#)  ,  
 [ControllerBase.CreatedAtAction\(string, object\)](#)  ,  
 [ControllerBase.CreatedAtAction\(string, object, object\)](#)  ,  
 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#)  ,  
 [ControllerBase.CreatedAtRoute\(string, object\)](#)  ,  [ControllerBase.CreatedAtRoute\(object, object\)](#)  ,  
 [ControllerBase.CreatedAtRoute\(string, object, object\)](#)  ,  [ControllerBase.Accepted\(\)](#)  ,  
 [ControllerBase.Accepted\(object\)](#)  ,  [ControllerBase.Accepted\(Uri\)](#)  ,  [ControllerBase.Accepted\(string\)](#)  ,  
 [ControllerBase.Accepted\(string, object\)](#)  ,  [ControllerBase.Accepted\(Uri, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string\)](#)  ,  [ControllerBase.AcceptedAtAction\(string, string\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#)  ,  
 [ControllerBase.AcceptedAtRoute\(object\)](#)  ,  [ControllerBase.AcceptedAtRoute\(string\)](#)  ,  
 [ControllerBase.AcceptedAtRoute\(string, object\)](#)  ,  [ControllerBase.AcceptedAtRoute\(object, object\)](#)  ,

[ControllerBase.AcceptedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Challenge\(\)](#) ,  
 [ControllerBase.Challenge\(params string\[\]\)](#) ,  [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
 [ControllerBase.Forbid\(params string\[\]\)](#) ,  [ControllerBase.Forbid\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal\)](#) ,  [ControllerBase.SignIn\(ClaimsPrincipal, string\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

### AIController(ILocator<AIController>)

```
public AIController(ILocator<AIController> logger)
```

## Parameters

logger [ILogger](#)<AIController>

## Methods

### ClearHistory()

Clears the chatbot history in the session.

```
[HttpDelete]  
[Route("AI/ClearHistory")]  
public IActionResult ClearHistory()
```

Returns

[IActionResult](#)

### GetHistory()

Gets the chatbot history from the session.

```
[HttpGet]  
[Route("AI/GetHistory")]  
public string GetHistory()
```

Returns

[string](#)

### GetHistorySplit()

Gets the chatbot history from the session and splits it into an array.

```
[HttpGet]  
[Route("AI/GetHistorySplit")]  
public IActionResult GetHistorySplit()
```

Returns

[IActionResult](#)

## GetResponse(string)

Queries the AI for a response to the given input.

```
[HttpPost]  
[Route("AI/GetResponse/{input}")]  
public Task<IActionResult> GetResponse(string input)
```

Parameters

input [string](#)

Returns

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

## SetHistory(string)

Sets the chatbot history in the session.

```
[HttpPost]  
[Route("AI/SetHistory")]  
public void SetHistory(string history)
```

Parameters

history [string](#)

# Class AccountController

Namespace: [WebApp.Controllers](#)

Assembly: WebApp.dll

Controller responsible for handling user account-related actions, such as login, logout, and user preferences.

```
[AllowAnonymous]
[ApiController]
public class AccountController : Controller, IActionFilter, IAsyncActionFilter,
IFilterMetadata, IDisposable
```

## Inheritance

[object](#) ← [ControllerBase](#) ← [Controller](#) ← AccountController

## Implements

[IActionFilter](#), [IAsyncActionFilter](#), [IFilterMetadata](#), [IDisposable](#)

## Inherited Members

[Controller.View\(\)](#), [Controller.View\(string\)](#), [Controller.View\(object\)](#),  
[Controller.View\(string, object\)](#), [Controller.PartialView\(\)](#), [Controller.PartialView\(string\)](#),  
[Controller.PartialView\(object\)](#), [Controller.PartialView\(string, object\)](#),  
[Controller.ViewComponent\(string\)](#), [Controller.ViewComponent\(Type\)](#),  
[Controller.ViewComponent\(string, object\)](#), [Controller.ViewComponent\(Type, object\)](#),  
[Controller.Json\(object\)](#), [Controller.Json\(object, object\)](#),  
[Controller.OnActionExecuting\(ActionExecutingContext\)](#),  
[Controller.OnActionExecuted\(ActionExecutedContext\)](#),  
[Controller.OnActionExecutionAsync\(ActionExecutingContext, ActionExecutionDelegate\)](#),  
[Controller.Dispose\(\)](#), [Controller.Dispose\(bool\)](#), [Controller.ViewData](#), [Controller.TempData](#),  
[Controller.ViewBag](#), [ControllerBase.StatusCode\(int\)](#), [ControllerBase.StatusCode\(int, object\)](#),  
[ControllerBase.Content\(string\)](#), [ControllerBase.Content\(string, string\)](#),  
[ControllerBase.Content\(string, string, Encoding\)](#),  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#), [ControllerBase.NoContent\(\)](#),  
[ControllerBase.Ok\(\)](#), [ControllerBase.Ok\(object\)](#), [ControllerBase.Redirect\(string\)](#),  
[ControllerBase.RedirectPermanent\(string\)](#), [ControllerBase.RedirectPreserveMethod\(string\)](#),  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#), [ControllerBase.LocalRedirect\(string\)](#),  
[ControllerBase.LocalRedirectPermanent\(string\)](#), [ControllerBase.LocalRedirectPreserveMethod\(string\)](#),  
[ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#), [ControllerBase.RedirectToAction\(\)](#),  
[ControllerBase.RedirectToAction\(string\)](#), [ControllerBase.RedirectToAction\(string, object\)](#),

[ControllerBase.RedirectToAction\(string, string\)](#)  ,  
 [ControllerBase.RedirectToAction\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToAction\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToAction\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanentPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoute\(string\)](#)  , ControllerBase.RedirectToRoute(object) ,  
 [ControllerBase.RedirectToRoute\(string, object\)](#)  , ControllerBase.RedirectToRoute(string, string) ,  
 [ControllerBase.RedirectToRoute\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string\)](#)  , ControllerBase.RedirectToPage(string, object) ,  
 [ControllerBase.RedirectToPage\(string, string\)](#)  , ControllerBase.RedirectToPage(string, string, object) ,  
 [ControllerBase.RedirectToPage\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.File\(byte\[\], string\)](#)  , ControllerBase.File(byte[], string, bool) ,  
 [ControllerBase.File\(byte\[\], string, string\)](#)  , ControllerBase.File(byte[], string, string, bool) ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string\)](#)  , ControllerBase.File(Stream, string, bool) ,

[ControllerBase.File\(Stream, string, string\)](#)  ,  [ControllerBase.File\(Stream, string, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(string, string\)](#)  ,  [ControllerBase.File\(string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, string\)](#)  ,  [ControllerBase.File\(string, string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?\)](#)  ,  [ControllerBase.EntityTagHeaderValue](#)  ,  
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 [ControllerBase.PhysicalFile\(string, string, string\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?\)](#)  ,  [ControllerBase.EntityTagHeaderValue](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.Conflict\(object\)](#)  ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#)  ,  
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 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#)  ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#)  ,  [ControllerBase.ValidationProblem\(\)](#)  ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#)  ,  
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 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#)  ,  
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 [ControllerBase.CreatedAtRoute\(string, object, object\)](#)  ,  [ControllerBase.Accepted\(\)](#)  ,  
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 [ControllerBase.Accepted\(string, object\)](#)  ,  [ControllerBase.Accepted\(Uri, object\)](#)  ,  
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 [ControllerBase.AcceptedAtAction\(string, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#)  ,

[ControllerBase.AcceptedAtAction\(string, string, object, object\)](#) ,  
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 [ControllerBase.AcceptedAtRoute\(string, object\)](#) ,  [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Challenge\(\)](#) ,  
 [ControllerBase.Challenge\(params string\[\]\)](#) ,  [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
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 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

AccountController(ILogger<AccountController>)

Initializes a new instance of the [AccountController](#) class.

```
public AccountController(ILogger<AccountController> logger)
```

## Parameters

`logger` [I~~Logger~~<AccountController>](#)

The logger instance.

# Methods

## AccessDenied()

Handles scenarios where users encounter unauthorized access, logging details and redirecting to the configured return URL.

```
[HttpGet]  
[Route("Account/AccessDenied")]  
public IActionResult AccessDenied()
```

## Returns

[IActionResult](#)

## Error()

Handles scenarios where users encounter errors,

```
[HttpGet]  
[Route("Account/Error")]  
[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]  
public IActionResult Error()
```

## Returns

[IActionResult](#)

## GetEmail()

Retrieves user email.

```
[HttpGet]  
[Route("Account/GetEmail")]  
public string GetEmail()
```

Returns

[string](#)

## GetName()

Retrieves user name.

```
[HttpGet]  
[Route("Account/GetName")]  
public string GetName()
```

Returns

[string](#)

## GetRole()

Retrieves user role.

```
[HttpGet]  
[Route("Account/GetRole")]  
public string GetRole()
```

Returns

[string](#)

## GetUserInfo()

Retrieves user name, role, and email in a JSON format.

```
[HttpGet]  
[Route("Account/GetUserInfo")]  
public IActionResult GetUserInfo()
```

Returns

[IActionResult](#)

## Login(string, string)

Initiates user authentication using a specified provider (defaulting to Google) and redirects users to the provider's authentication page.

```
[HttpGet]  
[Route("Account/Login")]  
public IActionResult Login(string provider = "Google", string returnUrl = "/")
```

Parameters

`provider` [string](#)

`returnUrl` [string](#)

Returns

[IActionResult](#)

## LoginCallback(string)

Upon successful authentication, retrieves user information, assigns appropriate roles (Manager, Cashier, or Customer), sets user preferences, and signs in the user, redirecting to the appropriate location based on roles and returnUrl.

```
[HttpGet]  
[Route("Account/LoginCallback")]
```

```
public Task<IActionResult> LoginCallback(string returnUrl)
```

Parameters

returnUrl [string](#)

Returns

[Task](#) <IActionResult>

## Logout(string)

Handles user sign-out, redirecting users to the appropriate location based on their role.

```
[HttpGet]  
[Route("Account/Logout")]  
public IActionResult Logout(string returnUrl)
```

Parameters

returnUrl [string](#)

Returns

[IActionResult](#)

## ResetPreferencesToDefault()

Resets user preferences to default values.

```
[HttpDelete]  
[Route("Account/ResetPreferencesToDefault")]  
public IActionResult ResetPreferencesToDefault()
```

Returns

[IActionResult](#)

## SaveUserPreferences(string?, string?, string?, string?)

Saves user preferences as cookies and to the database if the user is authenticated.

```
[HttpPost]  
[Route("Account/SaveUserPreferences")]  
public IActionResult SaveUserPreferences(string? accCursor = null, string? accTextSize =  
null, string? accContrast = null, string? accLanguage = null)
```

### Parameters

accCursor [string](#)

accTextSize [string](#)

accContrast [string](#)

accLanguage [string](#)

### Returns

[IActionResult](#)

# Class CartController

Namespace: [WebApp.Controllers](#)

Assembly: WebApp.dll

Controller responsible for managing shopping cart operations, including adding, removing, and editing items.

```
[ApiController]  
public class CartController : Controller, IActionFilter, IAsyncActionFilter,  
IFilterMetadata, IDisposable
```

## Inheritance

[object](#) ← [ControllerBase](#) ← [Controller](#) ← [CartController](#)

## Implements

[IActionFilter](#), [IAsyncActionFilter](#), [IFilterMetadata](#), [IDisposable](#)

## Inherited Members

[Controller.View\(\)](#), [Controller.View\(string\)](#), [Controller.View\(object\)](#),  
[Controller.View\(string, object\)](#), [Controller.PartialView\(\)](#), [Controller.PartialView\(string\)](#),  
[Controller.PartialView\(object\)](#), [Controller.PartialView\(string, object\)](#),  
[Controller.ViewComponent\(string\)](#), [Controller.ViewComponent\(Type\)](#),  
[Controller.ViewComponent\(string, object\)](#), [Controller.ViewComponent\(Type, object\)](#),  
[Controller.Json\(object\)](#), [Controller.Json\(object, object\)](#),  
[Controller.OnActionExecuting\(ActionExecutingContext\)](#),  
[Controller.OnActionExecuted\(ActionExecutedContext\)](#),  
[Controller.OnActionExecutionAsync\(ActionExecutingContext, ActionExecutionDelegate\)](#),  
[Controller.Dispose\(\)](#), [Controller.Dispose\(bool\)](#), [Controller.ViewData](#), [Controller.TempData](#),  
[Controller.ViewBag](#), [ControllerBase.StatusCode\(int\)](#), [ControllerBase.StatusCode\(int, object\)](#),  
[ControllerBase.Content\(string\)](#), [ControllerBase.Content\(string, string\)](#),  
[ControllerBase.Content\(string, string, Encoding\)](#),  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#), [ControllerBase.NoContent\(\)](#),  
[ControllerBase.Ok\(\)](#), [ControllerBase.Ok\(object\)](#), [ControllerBase.Redirect\(string\)](#),  
[ControllerBase.RedirectPermanent\(string\)](#), [ControllerBase.RedirectPreserveMethod\(string\)](#),  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#), [ControllerBase.LocalRedirect\(string\)](#),  
[ControllerBase.LocalRedirectPermanent\(string\)](#), [ControllerBase.LocalRedirectPreserveMethod\(string\)](#),  
[ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#), [ControllerBase.RedirectToAction\(\)](#),  
[ControllerBase.RedirectToAction\(string\)](#), [ControllerBase.RedirectToAction\(string, object\)](#),  
[ControllerBase.RedirectToAction\(string, string\)](#),

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 [ControllerBase.RedirectToAction\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToAction\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, object\)](#)  ,  
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 [ControllerBase.RedirectToActionPermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#)  ,  
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 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#)  ,  
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 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#)  ,  
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 [ControllerBase.RedirectToPage\(string, string\)](#)  ,  [ControllerBase.RedirectToPage\(string, string, object\)](#)  ,  
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 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#)  ,  
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 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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[ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.File\(string, string, string\)](#)  ,  [ControllerBase.File\(string, string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.BadRequest\(object\)](#)  ,  [ControllerBase.BadRequest\(ModelStateDictionary\)](#)  ,  
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 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#)  ,  [ControllerBase.Conflict\(\)](#)  ,  
 [ControllerBase.Conflict\(object\)](#)  ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#)  ,  
 [ControllerBase.Problem\(string, string, int?, string, string\)](#)  ,  
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#)  ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#)  ,  [ControllerBase.ValidationProblem\(\)](#)  ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#)  ,  
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 [ControllerBase.CreatedAtAction\(string, object, object\)](#)  ,  
 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#)  ,  
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 [ControllerBase.AcceptedAtAction\(string, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#)  ,

[ControllerBase.AcceptedAtRoute\(object\)](#) ,  [ControllerBase.AcceptedAtRoute\(string\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object\)](#) ,  [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Challenge\(\)](#) ,  
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 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
 [ControllerBase.Forbid\(params string\[\]\)](#) ,  [ControllerBase.Forbid\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#) ,  
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 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

### CartController(ILogger<CartController>, CartService)

Initializes a new instance of the [CartController](#) class.

```
public CartController(ILogger<CartController> logger, CartService cartService)
```

## Parameters

`logger` [ILogger](#)<CartController>

The logger instance.

`cartService` [CartService](#)

The service responsible for cart operations.

## Methods

### AddItem(AddItemModel)

Adds an item to the shopping cart with the specified product ID and customization IDs.

```
[HttpPost]  
[Route("/Cart/AddItem")]  
public IActionResult AddItem(AddItemModel model)
```

## Parameters

`model` [AddItemModel](#)

The model containing the product ID and customization IDs.

## Returns

[IActionResult](#)

### Checkout(CheckoutModel)

Clears the shopping cart.

```
[HttpPost]  
[Route("/Cart/Checkout")]
```

```
public IActionResult Checkout(CheckoutModel model)
```

## Parameters

model [CheckoutModel](#)

The model containing user information.

## Returns

[IActionResult](#)

## EditCount(EditCountModel)

Edits the quantity of an item in the shopping cart at the specified index.

```
[HttpPost]  
[Route("/Cart/EditCount")]  
public IActionResult EditCount(EditCountModel model)
```

## Parameters

model [EditCountModel](#)

The model containing the index of the item to edit and whether to increment or decrement the quantity.

## Returns

[IActionResult](#)

## Error()

Displays the error view.

```
[HttpGet]  
[Route("/Cart/GetCartSize")]  
[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]  
public IActionResult Error()
```

Returns

## [IActionResult](#)

The error view.

## GetCartFromSession()

Retrieves the shopping cart from the session.

```
[HttpGet]  
[Route("/Cart/GetCartFromSession")]  
public Cart GetCartFromSession()
```

Returns

## [Cart](#)

The current shopping cart.

## Index()

Displays the shopping cart contents along with the total number of items.

```
[HttpGet]  
[Route("/Cart")]  
public IActionResult Index()
```

Returns

## [IActionResult](#)

The view containing the shopping cart information.

## RemoveItem(int)

Removes an item from the shopping cart at the specified index.

```
[HttpPost]  
[Route("/Cart/RemoveItem")]  
public IActionResult RemoveItem(int index)
```

## Parameters

**index** [int](#)

The index of the item to remove.

## Returns

[IActionResult](#)

An HTTP result indicating the success of the operation.

## SetCartInSession(Cart)

Sets the provided shopping cart in the session.

```
[HttpPost]  
[Route("/Cart/SetCartInSession")]  
public void SetCartInSession(Cart cart)
```

## Parameters

**cart** [Cart](#)

The shopping cart to set in the session.

# Class CashierController

Namespace: [WebApp.Controllers](#)

Assembly: WebApp.dll

Controller responsible for managing cashier-related operations, including product categories, best sellers, favorites, and customizations.

```
[Authorize(Roles = "Cashier, Manager")]
[ApiController]
public class CashierController : Controller, IActionFilter, IAsyncActionFilter,
IFilterMetadata, IDisposable
```

## Inheritance

[object](#) ← [ControllerBase](#) ← [Controller](#) ← CashierController

## Implements

[IActionFilter](#), [IAsyncActionFilter](#), [IFilterMetadata](#), [IDisposable](#)

## Inherited Members

[Controller.View\(\)](#), [Controller.View\(string\)](#), [Controller.View\(object\)](#),  
[Controller.View\(string, object\)](#), [Controller.PartialView\(\)](#), [Controller.PartialView\(string\)](#),  
[Controller.PartialView\(object\)](#), [Controller.PartialView\(string, object\)](#),  
[Controller.ViewComponent\(string\)](#), [Controller.ViewComponent\(Type\)](#),  
[Controller.ViewComponent\(string, object\)](#), [Controller.ViewComponent\(Type, object\)](#),  
[Controller.Json\(object\)](#), [Controller.Json\(object, object\)](#),  
[Controller.OnActionExecuting\(ActionExecutingContext\)](#),  
[Controller.OnActionExecuted\(ActionExecutedContext\)](#),  
[Controller.OnActionExecutionAsync\(ActionExecutingContext, ActionExecutionDelegate\)](#),  
[Controller.Dispose\(\)](#), [Controller.Dispose\(bool\)](#), [Controller.ViewData](#), [Controller.TempData](#),  
[Controller.ViewBag](#), [ControllerBase.StatusCode\(int\)](#), [ControllerBase.StatusCode\(int, object\)](#),  
[ControllerBase.Content\(string\)](#), [ControllerBase.Content\(string, string\)](#),  
[ControllerBase.Content\(string, string, Encoding\)](#),  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#), [ControllerBase.NoContent\(\)](#),  
[ControllerBase.Ok\(\)](#), [ControllerBase.Ok\(object\)](#), [ControllerBase.Redirect\(string\)](#),  
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[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#), [ControllerBase.LocalRedirect\(string\)](#),  
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 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
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 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

CashierController(ILogger<CashierController>, IMemoryCache, CartService)

Initializes a new instance of the [CashierController](#) class.

```
public CashierController	ILogger<CashierController> logger, IMemoryCache cache,  
CartService cartService)
```

## Parameters

**logger** [ILogger](#)<[CashierController](#)>

The logger instance.

**cache** [IMemoryCache](#)

The memory cache instance.

**cartService** [CartService](#)

The service responsible for cart operations.

## Methods

### Error()

Displays the error view.

```
[HttpGet]  
[Route("Cashier/Error")]  
[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]  
public IActionResult Error()
```

### Returns

[IActionResult](#)

The error view.

### Index()

Displays the default view for the cashier controller.

```
[HttpGet]  
[Route("Cashier/")]  
public IActionResult Index()
```

Returns

[IActionResult](#)

The default view.

## LoadCategories()

Loads and returns the product categories from the cache or database.

```
[HttpGet]  
[Route("Cashier/LoadCategories")]  
public IActionResult LoadCategories()
```

Returns

[IActionResult](#)

The partial view containing the loaded product categories.

## LoadCustomizations(string)

Loads and returns customizations for a selected product.

```
[HttpGet]  
[Route("Cashier/LoadCustomizations")]  
public IActionResult LoadCustomizations(string arg)
```

Parameters

**arg** [string](#)

The ID of the selected product.

Returns

[IActionResult](#)

The partial view containing the loaded customizations.

## LoadProductsBySeries(string)

Loads and returns products based on the specified series name.

```
[HttpGet]  
[Route("Cashier/LoadProductsBySeries")]  
public IActionResult LoadProductsBySeries(string arg)
```

Parameters

[arg](#) [string](#)

The series name.

Returns

[IActionResult](#)

The partial view containing the loaded products.

# Class CustomerController

Namespace: [WebApp.Controllers](#)

Assembly: WebApp.dll

Controller responsible for managing customer-related operations, including viewing products, categories, best sellers, and favorites.

```
[ApiController]  
public class CustomerController : Controller, IActionFilter, IAsyncActionFilter,  
IFilterMetadata, IDisposable
```

## Inheritance

[object](#) ← [ControllerBase](#) ← [Controller](#) ← [CustomerController](#)

## Implements

[IActionFilter](#), [IAsyncActionFilter](#), [IFilterMetadata](#), [IDisposable](#)

## Inherited Members

[Controller.View\(\)](#), [Controller.View\(string\)](#), [Controller.View\(object\)](#),  
[Controller.View\(string, object\)](#), [Controller.PartialView\(\)](#), [Controller.PartialView\(string\)](#),  
[Controller.PartialView\(object\)](#), [Controller.PartialView\(string, object\)](#),  
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[Controller.OnActionExecuted\(ActionExecutedContext\)](#),  
[Controller.OnActionExecutionAsync\(ActionExecutingContext, ActionExecutionDelegate\)](#),  
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 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

### CustomerController(CartService, IMemoryCache)

Initializes a new instance of the [CustomerController](#) class.

```
public CustomerController(CartService cartService, IMemoryCache cache)
```

## Parameters

**cartService** [CartService](#)

The cart service instance.

**cache** [IMemoryCache](#)

The memory cache instance.

## Methods

**AddFavorite(int)**

Adds a product to the user's favorites.

```
[HttpPost]  
[Route("Customer/AddFavorite/{productID}")]  
public IActionResult AddFavorite(int productID)
```

## Parameters

**productID** [int](#)

The ID of the product to be added to favorites.

## Returns

[IActionResult](#)

The result of the operation.

**Index()**

Displays the default view for the customer controller, showing the cart items count.

```
[HttpGet]  
[Route("Customer/")]  
public IActionResult Index()
```

Returns

[IActionResult](#)

The default view.

## LoadBestSellers()

Loads and returns the best-selling products from the cache or database.

```
[HttpGet]  
[Route("Customer/LoadBestSellers")]  
public IActionResult LoadBestSellers()
```

Returns

[IActionResult](#)

The partial view containing the loaded best-selling products.

## LoadCategories()

Loads and returns the product categories from the cache or database.

```
[HttpGet]  
[Route("Customer/LoadCategories")]  
public IActionResult LoadCategories()
```

Returns

[IActionResult](#)

The partial view containing the loaded product categories.

## LoadCustomizations(string)

Loads and returns customizations for a selected product.

```
[HttpGet]  
[Route("Customer/LoadCustomizations")]  
public IActionResult LoadCustomizations(string arg)
```

### Parameters

**arg** [string](#)

The ID of the selected product.

### Returns

[IActionResult](#)

The partial view containing the loaded customizations.

## LoadFavorites()

Loads and returns the user's favorite products.

```
[HttpGet]  
[Route("Customer/LoadFavorites")]  
public IActionResult LoadFavorites()
```

### Returns

[IActionResult](#)

The partial view containing the loaded favorite products.

## LoadProductsBySeries(string)

Loads and returns products based on the specified series name.

```
[HttpGet]  
[Route("Customer/LoadProductsBySeries")]  
public IActionResult LoadProductsBySeries(string arg)
```

## Parameters

**arg** [string](#)

The series name.

## Returns

[IActionResult](#)

The partial view containing the loaded products.

## RemoveFavorite(int)

Controller action for removing a product from the user's favorites.

```
[HttpDelete]  
[Route("Customer/RemoveFavorite/{productID}")]  
public IActionResult RemoveFavorite(int productID)
```

## Parameters

**productID** [int](#)

The ID of the product to be removed from favorites.

## Returns

[IActionResult](#)

The result of the operation and an error if it can't be executed.

# Class HomeController

Namespace: [WebApp.Controllers](#)

Assembly: WebApp.dll

Controller responsible for handling requests related to the home page and basic site navigation.

```
[ApiController]  
public class HomeController : Controller, IActionFilter, IAsyncActionFilter,  
IFilterMetadata, IDisposable
```

## Inheritance

[object](#) ← [ControllerBase](#) ← [Controller](#) ← HomeController

## Implements

[IActionFilter](#), [IAsyncActionFilter](#), [IFilterMetadata](#), [IDisposable](#)

## Inherited Members

[Controller.View\(\)](#), [Controller.View\(string\)](#), [Controller.View\(object\)](#),  
[Controller.View\(string, object\)](#), [Controller.PartialView\(\)](#), [Controller.PartialView\(string\)](#),  
[Controller.PartialView\(object\)](#), [Controller.PartialView\(string, object\)](#),  
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[Controller.OnActionExecuted\(ActionExecutedContext\)](#),  
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 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
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 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
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 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
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 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

### HomeController(ILogger<HomeController>)

Initializes a new instance of the  [HomeController](#) class.

```
public HomeController(ILogger<HomeController> logger)
```

## Parameters

`logger` [ILogger](#)<HomeController>

The logger for HomeController.

## Methods

### Error()

Handles errors and displays the error view.

```
[HttpGet]
[Route("/Error")]
[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]
public IActionResult Error()
```

## Returns

[IActionResult](#)

The view for the error page.

### GetPreferredLanguage()

Gets the user's preferred language based on the 'Accept-Language' header in the HTTP request.

```
[HttpGet]
[Route("/GetPreferredLanguage")]
public string GetPreferredLanguage()
```

## Returns

[string](#)

## Index(bool)

Displays the home page and redirects to specific pages based on user roles.

```
[HttpGet]  
[Route("/")]  
public IActionResult Index(bool autoRedirect = true)
```

### Parameters

**autoRedirect** [bool](#)

Flag indicating whether to automatically redirect users based on their roles.

### Returns

[IActionResult](#)

The view for the home page or a redirect to a specific page based on user roles.

# Class ManagerController

Namespace: [WebApp.Controllers](#)

Assembly: WebApp.dll

```
[Authorize(Roles = "Manager")]
[ApiController]
public class ManagerController : Controller, IActionFilter, IAsyncActionFilter,
IFilterMetadata, IDisposable
```

## Inheritance

[object](#) ← [ControllerBase](#) ← [Controller](#) ← ManagerController

## Implements

[IActionFilter](#), [IAsyncActionFilter](#), [IFilterMetadata](#), [IDisposable](#)

## Inherited Members

[Controller.View\(\)](#), [Controller.View\(string\)](#), [Controller.View\(object\)](#),  
[Controller.View\(string, object\)](#), [Controller.PartialView\(\)](#), [Controller.PartialView\(string\)](#),  
[Controller.PartialView\(object\)](#), [Controller.PartialView\(string, object\)](#),  
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[Controller.Dispose\(\)](#), [Controller.Dispose\(bool\)](#), [Controller.ViewData](#), [Controller.TempData](#),  
[Controller.ViewBag](#), [ControllerBase.StatusCode\(int\)](#), [ControllerBase.StatusCode\(int, object\)](#),  
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 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

**ManagerController(ILocator<ManagerController>, CartService, IMemoryCache)**

Initializes a new instance of the  [ManagerController](#) class.

```
public ManagerController(ILogger<ManagerController> logger, CartService cartService,  
IMemoryCache cache)
```

## Parameters

**logger** [ILogger](#)<[ManagerController](#)>

The logger for ManagerController.

**cartService** [CartService](#)

The service for managing the shopping cart.

**cache** [IMemoryCache](#)

The cache for storing and retrieving data.

## Methods

### AddInventory()

Adds a new inventory item to the database.

```
[HttpPost]  
[Route("Manager/AddInventory")]  
public IActionResult AddInventory()
```

## Returns

[IActionResult](#)

### AddProduct()

Adds a new product to the database.

```
[HttpPost]  
[Route("Manager/AddProduct")]  
public IActionResult AddProduct()
```

Returns

[IActionResult](#)

## ClearCache()

Clears the cache for categories and best sellers.

```
[HttpDelete]  
[Route("Manager/ClearCache")]  
public IActionResult ClearCache()
```

Returns

[IActionResult](#)

## DeleteInventory(int)

Deletes an inventory item from the database.

```
[HttpDelete]  
[Route("Manager/DeleteInventory/{inv}")]  
public IActionResult DeleteInventory(int inv)
```

Parameters

inv [int](#)

Returns

[IActionResult](#)

## DeleteProduct(int)

Deletes a product from the database.

```
[HttpDelete]  
[Route("Manager/DeleteProduct/{prod}")]
```

```
public IActionResult DeleteProduct(int prod)
```

Parameters

prod [int](#)

Returns

[IActionResult](#)

## Error()

Displays the error view.

```
[HttpGet]  
[Route("Manager/Error")]  
[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]  
public IActionResult Error()
```

Returns

[IActionResult](#)

## Index()

Displays the default view for the manager controller.

```
[HttpGet]  
[Route("Manager/")]  
public IActionResult Index()
```

Returns

[IActionResult](#)

## SaveInventory(Dictionary<string, string>)

Saves a list of inventory changes to the database.

```
[HttpPost]
[Route("Manager/SaveInventory")]
public IActionResult SaveInventory(Dictionary<string, string> payload)
```

Parameters

payload [Dictionary](#)<[string](#), [string](#)>

Returns

[IActionResult](#)

## SaveProducts(List<Product>)

Saves a list of products changes to the database.

```
[HttpPost]
[Route("Manager/SaveProducts")]
public IActionResult SaveProducts(List<Product> data)
```

Parameters

data [List](#)<[Product](#)>

Returns

[IActionResult](#)

## ShowExcessReport(Dictionary<string, string>)

Displays the excess report.

```
[HttpPost]
[Route("Manager>ShowExcessReport")]
public IActionResult ShowExcessReport(Dictionary<string, string> payload)
```

Parameters

payload [Dictionary<string, string>](#)

Returns

[IActionResult](#)

## ShowInventory()

Not implemented.

```
[HttpGet]  
[Route("Manager/ShowInventory")]  
public IActionResult ShowInventory()
```

Returns

[IActionResult](#)

## ShowManager()

Not implemented.

```
[HttpGet]  
[Route("Manager/ShowManager")]  
public IActionResult ShowManager()
```

Returns

[IActionResult](#)

## ShowPopularityAnalysis(Dictionary<string, string>)

Displays the popularity analysis report.

```
[HttpPost]  
[Route("Manager/ShowPopularityAnalysis")]
```

```
public IActionResult ShowPopularityAnalysis(Dictionary<string, string> payload)
```

Parameters

payload [Dictionary](#)<[string](#), [string](#)>

Returns

[IActionResult](#)

## ShowProducts()

Not implemented.

```
[HttpGet]  
[Route("Manager>ShowProducts")]  
public IActionResult ShowProducts()
```

Returns

[IActionResult](#)

## ShowRestockReport()

Displays the restock report.

```
[HttpPost]  
[Route("Manager>ShowRestockReport")]  
public IActionResult ShowRestockReport()
```

Returns

[IActionResult](#)

## ShowSalesReport(Dictionary<string, string>)

Displays the sales report.

```
[HttpPost]  
[Route("Manager>ShowSalesReport")]  
public IActionResult ShowSalesReport(Dictionary<string, string> payload)
```

## Parameters

payload [Dictionary<string, string>](#)

## Returns

[IActionResult](#)

## ShowSalesTogether(Dictionary<string, string>)

Displays the sales together report.

```
[HttpPost]  
[Route("Manager>ShowSalesTogether")]  
public IActionResult ShowSalesTogether(Dictionary<string, string> payload)
```

## Parameters

payload [Dictionary<string, string>](#)

## Returns

[IActionResult](#)

# Class MenuBoardController

Namespace: [WebApp.Controllers](#)

Assembly: WebApp.dll

Controller responsible for handling requests related to the menu board, including displaying products and handling product details.

```
[ApiController]
public class MenuBoardController : Controller, IActionFilter, IAsyncActionFilter,
IFilterMetadata, IDisposable
```

## Inheritance

[object](#) ← [ControllerBase](#) ← [Controller](#) ← [MenuBoardController](#)

## Implements

[IActionFilter](#), [IAsyncActionFilter](#), [IFilterMetadata](#), [IDisposable](#)

## Inherited Members

[Controller.View\(\)](#), [Controller.View\(string\)](#), [Controller.View\(object\)](#),  
[Controller.View\(string, object\)](#), [Controller.PartialView\(\)](#), [Controller.PartialView\(string\)](#),  
[Controller.PartialView\(object\)](#), [Controller.PartialView\(string, object\)](#),  
[Controller.ViewComponent\(string\)](#), [Controller.ViewComponent\(Type\)](#),  
[Controller.ViewComponent\(string, object\)](#), [Controller.ViewComponent\(Type, object\)](#),  
[Controller.Json\(object\)](#), [Controller.Json\(object, object\)](#),  
[Controller.OnActionExecuting\(ActionExecutingContext\)](#),  
[Controller.OnActionExecuted\(ActionExecutedContext\)](#),  
[Controller.OnActionExecutionAsync\(ActionExecutingContext, ActionExecutionDelegate\)](#),  
[Controller.Dispose\(\)](#), [Controller.Dispose\(bool\)](#), [Controller.ViewData](#), [Controller.TempData](#),  
[Controller.ViewBag](#), [ControllerBase.StatusCode\(int\)](#), [ControllerBase.StatusCode\(int, object\)](#),  
[ControllerBase.Content\(string\)](#), [ControllerBase.Content\(string, string\)](#),  
[ControllerBase.Content\(string, string, Encoding\)](#),  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#), [ControllerBase.NoContent\(\)](#),  
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 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(object\)](#)  ,  
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 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#)  ,  
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 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
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[ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
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 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#)  ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#)  ,  [ControllerBase.ValidationProblem\(\)](#)  ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#)  ,  
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 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#)  ,  
 [ControllerBase.CreatedAtRoute\(string, object\)](#)  ,  [ControllerBase.CreatedAtRoute\(object, object\)](#)  ,  
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 [ControllerBase.Accepted\(object\)](#)  ,  [ControllerBase.Accepted\(Uri\)](#)  ,  [ControllerBase.Accepted\(string\)](#)  ,  
 [ControllerBase.Accepted\(string, object\)](#)  ,  [ControllerBase.Accepted\(Uri, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string\)](#)  ,  [ControllerBase.AcceptedAtAction\(string, string\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#)  ,

[ControllerBase.AcceptedAtRoute\(object\)](#) ,  [ControllerBase.AcceptedAtRoute\(string\)](#) ,  
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 [ControllerBase.Challenge\(params string\[\]\)](#) ,  [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
 [ControllerBase.Forbid\(params string\[\]\)](#) ,  [ControllerBase.Forbid\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal\)](#) ,  [ControllerBase.SignIn\(ClaimsPrincipal, string\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

MenuBoardController(ILogger<MenuBoardController>,  
CartService)

Initializes a new instance of the [MenuBoardController](#) class.

```
public MenuBoardController(ILOGGER<MenuBoardController> logger, CartService cartService)
```

## Parameters

**logger** [ILogger](#)<MenuBoardController>

The logger for MenuBoardController.

**cartService** [CartService](#)

The service for managing the shopping cart.

## Methods

### Error()

Handles errors and displays the error view.

```
[HttpGet]
[Route("MenuBoard/Error")]
[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]
public IActionResult Error()
```

### Returns

[IActionResult](#)

The view for the error page.

### GetProductsByCategory(string)

Gets product names by category for use in a partial view.

```
[HttpGet]
[Route("MenuBoard/GetProductsByCategory")]
public IActionResult GetProductsByCategory(string category)
```

## Parameters

### [category string](#)

The product category.

## Returns

### [IActionResult](#)

A partial view with product names.

## Index(string?)

Displays the menu board with filtered products based on the search term and organized by categories.

```
[HttpGet]  
[Route("MenuBoard/")]  
public IActionResult Index(string? search = null)
```

## Parameters

### [search string](#)

The search term used to filter products.

## Returns

### [IActionResult](#)

The view for the menu board with product information.

## ProductDetail(int)

Displays detailed information about a specific product.

```
[HttpGet]  
[Route("MenuBoard/ProductDetail")]  
public IActionResult ProductDetail(int id)
```

## Parameters

`id int`

The unique identifier of the product.

## Returns

[IActionResult](#)

The view for the product detail page.

## getProducts()

Gets the products and their categories in HTML format for use in a view.

```
[HttpGet]  
[Route("MenuBoard/getProducts")]  
public IActionResult getProducts()
```

## Returns

[IActionResult](#)

The HTML string containing product information.

# Class StoryController

Namespace: [WebApp.Controllers](#)

Assembly: WebApp.dll

```
[ApiController]
public class StoryController : Controller, IActionFilter, IAsyncActionFilter,
IFilterMetadata, IDisposable
```

## Inheritance

[object](#) ← [ControllerBase](#) ← [Controller](#) ← StoryController

## Implements

[IActionFilter](#), [IAsyncActionFilter](#), [IFilterMetadata](#), [IDisposable](#)

## Inherited Members

[Controller.View\(\)](#), [Controller.View\(string\)](#), [Controller.View\(object\)](#),  
[Controller.View\(string, object\)](#), [Controller.PartialView\(\)](#), [Controller.PartialView\(string\)](#),  
[Controller.PartialView\(object\)](#), [Controller.PartialView\(string, object\)](#),  
[Controller.ViewComponent\(string\)](#), [Controller.ViewComponent\(Type\)](#),  
[Controller.ViewComponent\(string, object\)](#), [Controller.ViewComponent\(Type, object\)](#),  
[Controller.Json\(object\)](#), [Controller.Json\(object, object\)](#),  
[Controller.OnActionExecuting\(ActionExecutingContext\)](#),  
[Controller.OnActionExecuted\(ActionExecutedContext\)](#),  
[Controller.OnActionExecutionAsync\(ActionExecutingContext, ActionExecutionDelegate\)](#),  
[Controller.Dispose\(\)](#), [Controller.Dispose\(bool\)](#), [Controller.ViewData](#), [Controller.TempData](#),  
[Controller.ViewBag](#), [ControllerBase.StatusCode\(int\)](#), [ControllerBase.StatusCode\(int, object\)](#),  
[ControllerBase.Content\(string\)](#), [ControllerBase.Content\(string, string\)](#),  
[ControllerBase.Content\(string, string, Encoding\)](#),  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#), [ControllerBase.NoContent\(\)](#),  
[ControllerBase.Ok\(\)](#), [ControllerBase.Ok\(object\)](#), [ControllerBase.Redirect\(string\)](#),  
[ControllerBase.RedirectPermanent\(string\)](#), [ControllerBase.RedirectPreserveMethod\(string\)](#),  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#), [ControllerBase.LocalRedirect\(string\)](#),  
[ControllerBase.LocalRedirectPermanent\(string\)](#), [ControllerBase.LocalRedirectPreserveMethod\(string\)](#),  
[ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#), [ControllerBase.RedirectToAction\(\)](#),  
[ControllerBase.RedirectToAction\(string\)](#), [ControllerBase.RedirectToAction\(string, object\)](#),  
[ControllerBase.RedirectToAction\(string, string\)](#),  
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[ControllerBase.RedirectToAction\(string, string, string\)](#),

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 [ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#)  ,  
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 [ControllerBase.RedirectToActionPermanent\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToActionPermanentPreserveMethod\(string, string, object, string\)](#)  ,  
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 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.File\(Stream, string, string\)](#)  ,  [ControllerBase.File\(Stream, string, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,

[ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
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 [ControllerBase.File\(string, string, string\)](#)  ,  [ControllerBase.File\(string, string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.Unauthorized\(\)](#)  ,  [ControllerBase.Unauthorized\(object\)](#)  ,  [ControllerBase.NotFound\(\)](#)  ,  
 [ControllerBase.NotFound\(object\)](#)  ,  [ControllerBase.BadRequest\(\)](#)  ,  
 [ControllerBase.BadRequest\(object\)](#)  ,  [ControllerBase.BadRequest\(ModelStateDictionary\)](#)  ,  
 [ControllerBase.UnprocessableEntity\(\)](#)  ,  [ControllerBase.UnprocessableEntity\(object\)](#)  ,  
 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#)  ,  [ControllerBase.Conflict\(\)](#)  ,  
 [ControllerBase.Conflict\(object\)](#)  ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#)  ,  
 [ControllerBase.Problem\(string, string, int?, string, string\)](#)  ,  
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#)  ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#)  ,  [ControllerBase.ValidationProblem\(\)](#)  ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#)  ,  
 [ControllerBase.Created\(string, object\)](#)  ,  [ControllerBase.Created\(Uri, object\)](#)  ,  
 [ControllerBase.CreatedAtAction\(string, object\)](#)  ,  
 [ControllerBase.CreatedAtAction\(string, object, object\)](#)  ,  
 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#)  ,  
 [ControllerBase.CreatedAtRoute\(string, object\)](#)  ,  [ControllerBase.CreatedAtRoute\(object, object\)](#)  ,  
 [ControllerBase.CreatedAtRoute\(string, object, object\)](#)  ,  [ControllerBase.Accepted\(\)](#)  ,  
 [ControllerBase.Accepted\(object\)](#)  ,  [ControllerBase.Accepted\(Uri\)](#)  ,  [ControllerBase.Accepted\(string\)](#)  ,  
 [ControllerBase.Accepted\(string, object\)](#)  ,  [ControllerBase.Accepted\(Uri, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string\)](#)  ,  [ControllerBase.AcceptedAtAction\(string, string\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#)  ,  
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#)  ,  
 [ControllerBase.AcceptedAtRoute\(object\)](#)  ,  [ControllerBase.AcceptedAtRoute\(string\)](#)  ,  
 [ControllerBase.AcceptedAtRoute\(string, object\)](#)  ,  [ControllerBase.AcceptedAtRoute\(object, object\)](#)  ,

[ControllerBase.AcceptedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Challenge\(\)](#) ,  
 [ControllerBase.Challenge\(params string\[\]\)](#) ,  [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
 [ControllerBase.Forbid\(params string\[\]\)](#) ,  [ControllerBase.Forbid\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal\)](#) ,  [ControllerBase.SignIn\(ClaimsPrincipal, string\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

StoryController(ILocator<StoryController>)

```
public StoryController(ILocator<StoryController> logger)
```

## Parameters

logger [ILogger](#)<StoryController>

## Methods

### Error()

Displays the error view.

```
[HttpGet]
[Route("Story/Error")]
[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]
public IActionResult Error()
```

### Returns

[IActionResult](#)

### Index()

Displays the default view for the story controller.

```
[HttpGet]
[Route("Story/")]
public IActionResult Index()
```

### Returns

[IActionResult](#)

# Namespace WebApp.Data

## Classes

### [CommandHandler](#)

Handles the execution of database commands using Npgsql.

### [DaoTypeContainer](#)

Represents a container for accessing various DAOs.

### [EmployeeDao](#)

Data Access Object (DAO) for managing Employee entities in the database.

### [EntityServices](#)

Provides services for basic CRUD (Create, Read, Update, Delete) operations on entities.

### [IngredientDao](#)

Data Access Object (DAO) for managing Ingredient entities.

### [InventoryDao](#)

Data Access Object (DAO) for managing Inventory entities.

### [OrderDao](#)

Data Access Object (DAO) for managing Order entities.

### [ProductDao](#)

Data Access Object (DAO) for managing Product entities.

### [ProductIngredientsDao](#)

Data Access Object (DAO) for handling operations related to [ProductIngredients](#).

### [SeriesInfoDao](#)

Data Access Object (DAO) for handling operations related to [SeriesInfo](#).

### [UnitOfWork](#)

Represents the Unit of Work pattern for managing database operations.

### [UserDao](#)

Data Access Object (DAO) for managing user entities in the database.

## Interfaces

### [IDao<T>](#)

Interface for Data Access Object (DAO) classes responsible for CRUD operations on entities.

# Class CommandHandler

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Handles the execution of database commands using Npgsql.

```
public class CommandHandler
```

## Inheritance

[object](#) ← CommandHandler

## Inherited Members

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

## Constructors

### CommandHandler(NpgsqlConnection)

Initializes a new instance of the [CommandHandler](#) class with the specified NpgsqlConnection.

```
public CommandHandler(NpgsqlConnection connection)
```

#### Parameters

**connection** NpgsqlConnection

The NpgsqlConnection used for executing commands.

## Methods

### ExecuteNonQuery(string)

Executes a non-query SQL statement, such as an INSERT, UPDATE, or DELETE statement.

```
public void ExecuteNonQuery(string statement)
```

## Parameters

**statement** [string](#)

The SQL statement to be executed.

## ExecuteReader(string)

Executes a database query that returns a data reader.

```
public NpgsqlDataReader? ExecuteReader(string query)
```

## Parameters

**query** [string](#)

The SQL query string to be executed.

## Returns

NpgsqlDataReader

A NpgsqlDataReader containing the result of the query, or null in case of an error.

# Class DaoTypeContainer

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Represents a container for accessing various DAOs.

```
public class DaoTypeContainer
```

## Inheritance

[object](#) ← DaoTypeContainer

## Inherited Members

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

## Constructors

### DaoTypeContainer(Dictionary<Type, object>)

Initializes a new instance of the [DaoTypeContainer](#) class with a given DAO map.

```
public DaoTypeContainer(Dictionary<Type, object> daoTypeMap)
```

## Parameters

daoTypeMap [Dictionary](#)<[Type](#), [object](#)>

The map containing DAO instances for different types.

## Methods

### GetDao<T>()

Gets the DAO instance for a specified type.

```
public IDao<T> GetDao<T>() where T : class
```

Returns

[IDao<T>](#)

The DAO instance for the specified type.

Type Parameters

T

The type of the DAO.

Exceptions

[InvalidCastException](#)

Thrown if the DAO instance is not of the expected type.

## GetEmployeeDao()

Gets the DAO instance for the [Employee](#) type.

```
public EmployeeDao GetEmployeeDao()
```

Returns

[EmployeeDao](#)

The DAO instance for the [Employee](#) type.

Exceptions

[InvalidCastException](#)

Thrown if the DAO instance is not of the expected type.

## GetIngredientDao()

Gets the DAO instance for the [Ingredient](#) type.

```
public IngredientDao GetIngredientDao()
```

Returns

[IngredientDao](#)

The DAO instance for the [Ingredient](#) type.

Exceptions

[InvalidCastException](#) ↴

Thrown if the DAO instance is not of the expected type.

## GetInventoryDao()

Gets the DAO instance for the [Inventory](#) type.

```
public InventoryDao GetInventoryDao()
```

Returns

[InventoryDao](#)

The DAO instance for the [Inventory](#) type.

Exceptions

[InvalidCastException](#) ↴

Thrown if the DAO instance is not of the expected type.

## GetOrderDao()

Gets the DAO instance for the [Order](#) type.

```
public OrderDao GetOrderDao()
```

Returns

### [OrderDao](#)

The DAO instance for the [Order](#) type.

Exceptions

### [InvalidCastException](#)

Thrown if the DAO instance is not of the expected type.

## GetProductDao()

Gets the DAO instance for the [Product](#) type.

```
public ProductDao GetProductDao()
```

Returns

### [ProductDao](#)

The DAO instance for the [Product](#) type.

Exceptions

### [InvalidCastException](#)

Thrown if the DAO instance is not of the expected type.

## GetProductIngredientsDao()

Gets the DAO instance for the [ProductIngredients](#) type.

```
public ProductIngredientsDao GetProductIngredientsDao()
```

Returns

### [ProductIngredientsDao](#)

The DAO instance for the [ProductIngredients](#) type.

Exceptions

### [InvalidCastException](#) ↗

Thrown if the DAO instance is not of the expected type.

## GetSeriesInfoDao()

Gets the DAO instance for the [SeriesInfo](#) type.

```
public SeriesInfoDao GetSeriesInfoDao()
```

Returns

### [SeriesInfoDao](#)

The DAO instance for the [SeriesInfo](#) type.

Exceptions

### [InvalidCastException](#) ↗

Thrown if the DAO instance is not of the expected type.

## GetUserDao()

Gets the DAO instance for the [User](#) type.

```
public UserDao GetUserDao()
```

Returns

### [UserDao](#)

The DAO instance for the [User](#) type.

## Exceptions

### [InvalidCastException](#)

Thrown if the DAO instance is not of the expected type.

# Class EmployeeDao

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Data Access Object (DAO) for managing Employee entities in the database.

```
public class EmployeeDao : IDao<Employee>
```

Inheritance

[object](#) ← EmployeeDao

Implements

[IDao<Employee>](#)

Inherited Members

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

## Constructors

### EmployeeDao(CommandHandler)

Initializes a new instance of the [EmployeeDao](#) class with the specified [CommandHandler](#).

```
public EmployeeDao(CommandHandler commandHandler)
```

Parameters

[commandHandler](#) [CommandHandler](#)

The CommandHandler used to execute SQL commands.

## Methods

### Add(Employee)

Adds a new entity to the data store.

```
public void Add(Employee t)
```

Parameters

**t** [Employee](#)

The entity to be added.

## Delete(Employee)

Deletes an entity from the data store.

```
public void Delete(Employee t)
```

Parameters

**t** [Employee](#)

The entity to be deleted.

## Get(int)

Retrieves an entity by its unique identifier.

```
public Employee Get(int id)
```

Parameters

**id** [int](#)

The unique identifier of the entity.

Returns

[Employee](#)

The entity with the specified identifier, or a default value if not found.

## GetAll()

Retrieves all entities of the specified type.

```
public IEnumerable<Employee> GetAll()
```

Returns

[IEnumerable](#) <Employee>

An enumerable collection of all entities of the specified type.

## Update(Employee, Employee)

Updates an existing entity in the data store.

```
public void Update(Employee t, Employee newT)
```

Parameters

t [Employee](#)

The existing entity to be updated.

newT [Employee](#)

The new values for the entity.

# Class EntityServices

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Provides services for basic CRUD (Create, Read, Update, Delete) operations on entities.

```
public class EntityServices
```

## Inheritance

[object](#) ← EntityServices

## Inherited Members

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

## Constructors

### EntityServices(DaoTypeContainer)

Initializes a new instance of the [EntityServices](#) class with a specified [DaoTypeContainer](#).

```
public EntityServices(DaoTypeContainer daoTypeContainer)
```

## Parameters

daoTypeContainer [DaoTypeContainer](#)

The container providing access to Data Access Objects (DAOs).

## Methods

### Add<T>(T)

Adds a new entity of type [T](#).

```
public void Add<T>(T t) where T : class
```

## Parameters

t T

The entity to be added.

## Type Parameters

T

The type of the entity.

## Delete<T>(T)

Deletes an entity of type T.

```
public void Delete<T>(T t) where T : class
```

## Parameters

t T

The entity to be deleted.

## Type Parameters

T

The type of the entity.

## GetAll<T>()

Retrieves all entities of type T.

```
public IEnumerable<T> GetAll<T>() where T : class
```

Returns

## IEnumerable <T>

An enumerable collection of entities of the specified type.

Type Parameters

T

The type of the entity.

## Get<T>(int)

Retrieves an entity of type T by its unique identifier.

```
public T Get<T>(int id) where T : class
```

Parameters

id int

The unique identifier of the entity.

Returns

T

The entity with the specified identifier, or null if not found.

Type Parameters

T

The type of the entity.

## Update<T>(T, T)

Updates an existing entity of type T with a new entity.

```
public void Update<T>(T t, T newT) where T : class
```

## Parameters

**t** T

The existing entity to be updated.

**newT** T

The new entity data.

## Type Parameters

T

The type of the entity.

# Interface IDao<T>

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Interface for Data Access Object (DAO) classes responsible for CRUD operations on entities.

```
public interface IDao<T>
```

## Type Parameters

T

Type of entity for which the DAO is defined.

## Methods

### Add(T)

Adds a new entity to the data store.

```
void Add(T t)
```

## Parameters

t T

The entity to be added.

### Delete(T)

Deletes an entity from the data store.

```
void Delete(T t)
```

## Parameters

**t** T

The entity to be deleted.

## Get(int)

Retrieves an entity by its unique identifier.

T **Get**(int id)

Parameters

**id** [int](#)

The unique identifier of the entity.

Returns

T

The entity with the specified identifier, or a default value if not found.

## GetAll()

Retrieves all entities of the specified type.

IEnumerable<T> **GetAll**()

Returns

[IEnumerable](#)<T>

An enumerable collection of all entities of the specified type.

## Update(T, T)

Updates an existing entity in the data store.

```
void Update(T t, T newT)
```

## Parameters

**t** T

The existing entity to be updated.

**newT** T

The new values for the entity.

# Class IngredientDao

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Data Access Object (DAO) for managing Ingredient entities.

```
public class IngredientDao : IDao<Ingredient>
```

Inheritance

[object](#) ← IngredientDao

Implements

[IDao<Ingredient>](#)

Inherited Members

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

## Constructors

### IngredientDao(CommandHandler)

Initializes a new instance of the [IngredientDao](#) class.

```
public IngredientDao(CommandHandler commandHandler)
```

Parameters

[commandHandler](#) [CommandHandler](#)

The command handler for executing database commands.

## Methods

### Add(Ingredient)

Adds a new entity to the data store.

```
public void Add(Ingredient t)
```

Parameters

**t** [Ingredient](#)

The entity to be added.

## Delete(Ingredient)

Deletes an entity from the data store.

```
public void Delete(Ingredient t)
```

Parameters

**t** [Ingredient](#)

The entity to be deleted.

## Get(int)

Retrieves an entity by its unique identifier.

```
public Ingredient Get(int id)
```

Parameters

**id** [int](#)

The unique identifier of the entity.

Returns

[Ingredient](#)

The entity with the specified identifier, or a default value if not found.

## GetAll()

Retrieves all entities of the specified type.

```
public IEnumerable<Ingredient> GetAll()
```

Returns

[IEnumerable](#) <Ingredient>

An enumerable collection of all entities of the specified type.

## GetRecentIngredient()

```
public Ingredient GetRecentIngredient()
```

Returns

[Ingredient](#)

## Update(Ingredient, Ingredient)

Updates an existing entity in the data store.

```
public void Update(Ingredient t, Ingredient newT)
```

Parameters

**t** [Ingredient](#)

The existing entity to be updated.

**newT** [Ingredient](#)

The new values for the entity.

# Class InventoryDao

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Data Access Object (DAO) for managing Inventory entities.

```
public class InventoryDao : IDao<Inventory>
```

Inheritance

[object](#) ← InventoryDao

Implements

[IDao<Inventory>](#)

Inherited Members

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

## Constructors

### InventoryDao(CommandHandler)

Initializes a new instance of the [InventoryDao](#) class.

```
public InventoryDao(CommandHandler commandHandler)
```

Parameters

[commandHandler](#) [CommandHandler](#)

The command handler for executing database commands.

## Methods

### Add(Inventory)

Adds a new entity to the data store.

```
public void Add(Inventory t)
```

Parameters

**t** [Inventory](#)

The entity to be added.

## Delete(Inventory)

Deletes an entity from the data store.

```
public void Delete(Inventory t)
```

Parameters

**t** [Inventory](#)

The entity to be deleted.

## Get(int)

Retrieves an entity by its unique identifier.

```
public Inventory Get(int id)
```

Parameters

**id** [int](#)

The unique identifier of the entity.

Returns

[Inventory](#)

The entity with the specified identifier, or a default value if not found.

## GetAll()

Retrieves all entities of the specified type.

```
public IEnumerable<Inventory> GetAll()
```

Returns

[IEnumerable](#) <[Inventory](#)>

An enumerable collection of all entities of the specified type.

## GetRecentInventory()

```
public Inventory GetRecentInventory()
```

Returns

[Inventory](#)

## Update(Inventory, Inventory)

Updates an existing entity in the data store.

```
public void Update(Inventory t, Inventory newT)
```

Parameters

**t** [Inventory](#)

The existing entity to be updated.

**newT** [Inventory](#)

The new values for the entity.

# Class OrderDao

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Data Access Object (DAO) for managing Order entities.

```
public class OrderDao : IDao<Order>
```

Inheritance

[object](#) ← OrderDao

Implements

[IDao<Order>](#)

Inherited Members

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

## Constructors

### OrderDao(CommandHandler)

Initializes a new instance of the [OrderDao](#) class.

```
public OrderDao(CommandHandler commandHandler)
```

Parameters

**commandHandler** [CommandHandler](#)

The command handler for executing database commands.

## Methods

### Add(Order)

Adds a new entity to the data store.

```
public void Add(Order t)
```

Parameters

**t** [Order](#)

The entity to be added.

## Delete(Order)

Deletes an entity from the data store.

```
public void Delete(Order t)
```

Parameters

**t** [Order](#)

The entity to be deleted.

## Get(int)

Retrieves an entity by its unique identifier.

```
public Order Get(int id)
```

Parameters

**id** [int](#)

The unique identifier of the entity.

Returns

[Order](#)

The entity with the specified identifier, or a default value if not found.

## GetAll()

Retrieves all entities of the specified type.

```
public IEnumerable<Order> GetAll()
```

Returns

[IEnumerable](#) <Order>

An enumerable collection of all entities of the specified type.

## GetOrdersBetween(DateTime, DateTime)

```
public List<Order> GetOrdersBetween(DateTime starttime, DateTime endtime)
```

Parameters

starttime [DateTime](#)

endtime [DateTime](#)

Returns

[List](#) <Order>

## GetSalesReport(DateTime, DateTime)

```
public List<Tuple<int, double>> GetSalesReport(DateTime start_time, DateTime end_time)
```

Parameters

start\_time [DateTime](#)

end\_time [DateTime](#)

Returns

[List](#) <[Tuple](#) <[int](#), [double](#)>>

## GetSalesTogether(DateTime, DateTime)

```
public List<Tuple<string, string, int>> GetSalesTogether(DateTime start_date,  
DateTime end_date)
```

Parameters

`start_date` [DateTime](#)

`end_date` [DateTime](#)

Returns

[List](#) <[Tuple](#) <[string](#), [string](#), [int](#)>>

## Update(Order, Order)

Updates an existing entity in the data store.

```
public void Update(Order t, Order newT)
```

Parameters

`t` [Order](#)

The existing entity to be updated.

`newT` [Order](#)

The new values for the entity.

# Class ProductDao

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Data Access Object (DAO) for managing Product entities.

```
public class ProductDao : IDao<Product>
```

Inheritance

[object](#) ← ProductDao

Implements

[IDao<Product>](#)

Inherited Members

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

## Constructors

### ProductDao(CommandHandler)

Initializes a new instance of the [ProductDao](#) class.

```
public ProductDao(CommandHandler commandHandler)
```

Parameters

commandHandler [CommandHandler](#)

The command handler for executing database commands.

## Methods

### Add(Product)

Adds a new entity to the data store.

```
public void Add(Product t)
```

Parameters

**t** [Product](#)

The entity to be added.

## Delete(Product)

Deletes an entity from the data store.

```
public void Delete(Product t)
```

Parameters

**t** [Product](#)

The entity to be deleted.

## Get(int)

Retrieves an entity by its unique identifier.

```
public Product Get(int id)
```

Parameters

**id** [int](#)

The unique identifier of the entity.

Returns

[Product](#)

The entity with the specified identifier, or a default value if not found.

## GetAll()

Retrieves all entities of the specified type.

```
public IEnumerable<Product> GetAll()
```

Returns

[IEnumerable](#) <Product>

An enumerable collection of all entities of the specified type.

## GetBestSellingProducts(int)

Gets a list of best-selling products based on the specified limit.

```
public IEnumerable<Product> GetBestSellingProducts(int limit = 5)
```

Parameters

`limit` [int](#)

The maximum number of best-selling products to retrieve (default is 5).

Returns

[IEnumerable](#) <Product>

A collection of best-selling products.

## GetProductsBySeries(string)

Gets products by series.

```
public IEnumerable<Product> GetProductsBySeries(string series)
```

## Parameters

**series** [string](#)

The series of products to retrieve.

## Returns

[IEnumerable](#)<[Product](#)>

The products belonging to the specified series.

## GetRecentProduct()

`public Product GetRecentProduct()`

## Returns

[Product](#)

## GetUniqueSeries(bool, bool, bool)

Gets unique product series based on specified criteria.

`public IEnumerable<string> GetUniqueSeries(bool includeDrinks = true, bool includeHidden = false, bool includeIsOption = false)`

## Parameters

**includeDrinks** [bool](#)

Include drinks in the result.

**includeHidden** [bool](#)

Include hidden products in the result.

**includeIsOption** [bool](#)

Include products marked as options in the result.

## Returns

[IEnumerable](#)<[string](#)>

The unique product series based on the specified criteria.

## Update(Product, Product)

Updates an existing entity in the data store.

```
public void Update(Product t, Product newT)
```

### Parameters

**t** [Product](#)

The existing entity to be updated.

**newT** [Product](#)

The new values for the entity.

# Class ProductIngredientsDao

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Data Access Object (DAO) for handling operations related to [ProductIngredients](#).

```
public class ProductIngredientsDao : IDao<ProductIngredients>
```

Inheritance

[object](#) ← ProductIngredientsDao

Implements

[IDao<ProductIngredients>](#)

Inherited Members

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

## Constructors

### ProductIngredientsDao(CommandHandler)

Initializes a new instance of the [ProductIngredientsDao](#) class.

```
public ProductIngredientsDao(CommandHandler commandHandler)
```

Parameters

[commandHandler](#) [CommandHandler](#)

The command handler used for database operations.

## Methods

### Add(ProductIngredients)

Adds a new entity to the data store.

```
public void Add(ProductIngredients t)
```

Parameters

**t** [ProductIngredients](#)

The entity to be added.

## Delete(ProductIngredients)

Deletes an entity from the data store.

```
public void Delete(ProductIngredients t)
```

Parameters

**t** [ProductIngredients](#)

The entity to be deleted.

## Get(int)

Retrieves an entity by its unique identifier.

```
public ProductIngredients Get(int id)
```

Parameters

**id** [int](#)

The unique identifier of the entity.

Returns

[ProductIngredients](#)

The entity with the specified identifier, or a default value if not found.

## GetAll()

Retrieves all entities of the specified type.

```
public IEnumerable<ProductIngredients> GetAll()
```

Returns

[IEnumerable](#) <ProductIngredients>

An enumerable collection of all entities of the specified type.

## Update(ProductIngredients, ProductIngredients)

Updates an existing entity in the data store.

```
public void Update(ProductIngredients t, ProductIngredients newT)
```

Parameters

t [ProductIngredients](#)

The existing entity to be updated.

newT [ProductIngredients](#)

The new values for the entity.

## See Also

[IDao](#)<T>

# Class SeriesInfoDao

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Data Access Object (DAO) for handling operations related to [SeriesInfo](#).

```
public class SeriesInfoDao : IDao<SeriesInfo>
```

Inheritance

[object](#) ← SeriesInfoDao

Implements

[IDao<SeriesInfo>](#)

Inherited Members

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

## Constructors

### SeriesInfoDao(CommandHandler)

Initializes a new instance of the [SeriesInfoDao](#) class.

```
public SeriesInfoDao(CommandHandler commandHandler)
```

Parameters

`commandHandler` [CommandHandler](#)

The command handler used for database operations.

## Methods

### Add(SeriesInfo)

Adds a new entity to the data store.

```
public void Add(SeriesInfo t)
```

Parameters

**t** [SeriesInfo](#)

The entity to be added.

## Delete(SeriesInfo)

Deletes an entity from the data store.

```
public void Delete(SeriesInfo t)
```

Parameters

**t** [SeriesInfo](#)

The entity to be deleted.

## Get(int)

Retrieves an entity by its unique identifier.

```
public SeriesInfo Get(int id)
```

Parameters

**id** [int](#)

The unique identifier of the entity.

Returns

[SeriesInfo](#)

The entity with the specified identifier, or a default value if not found.

## Get(string)

```
public SeriesInfo Get(string name)
```

Parameters

**name** [string](#)

Returns

[SeriesInfo](#)

## GetAll()

Retrieves all entities of the specified type.

```
public IEnumerable<SeriesInfo> GetAll()
```

Returns

[IEnumerable](#) <[SeriesInfo](#)>

An enumerable collection of all entities of the specified type.

## Update(SeriesInfo, SeriesInfo)

Updates an existing entity in the data store.

```
public void Update(SeriesInfo t, SeriesInfo newT)
```

Parameters

**t** [SeriesInfo](#)

The existing entity to be updated.

## [newT SeriesInfo](#)

The new values for the entity.

## See Also

[IDao<T>](#)

# Class UnitOfWork

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Represents the Unit of Work pattern for managing database operations.

```
public class UnitOfWork
```

## Inheritance

[object](#) ← UnitOfWork

## Inherited Members

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

## Constructors

### UnitOfWork(string)

Initializes a new instance of the [UnitOfWork](#) class.

```
public UnitOfWork(string databaseName = "")
```

## Parameters

databaseName [string](#)

The name of the database to connect to.

## Methods

### Add<T>(T)

Adds an entity to the database.

```
public void Add<T>(T t) where T : class
```

## Parameters

**t** T

The entity to be added.

## Type Parameters

**T**

The type of the entity.

## CloseConnection()

Closes the connection to the database.

```
public void CloseConnection()
```

## Delete<T>(T)

Deletes an entity from the database.

```
public void Delete<T>(T t) where T : class
```

## Parameters

**t** T

The entity to be deleted.

## Type Parameters

**T**

The type of the entity.

## GetAll<T>()

Retrieves all entities of a specified type from the database.

```
public IEnumerable<T> GetAll<T>() where T : class
```

Returns

[IEnumerable](#)<T>

A collection of entities.

Type Parameters

T

The type of the entities.

## GetBestSellingProducts(int)

Retrieves a collection of best-selling products up to the specified limit.

```
public IEnumerable<Product> GetBestSellingProducts(int limit)
```

Parameters

limit [int](#)

The maximum number of best-selling products to retrieve.

Returns

[IEnumerable](#)<Product>

A collection of best-selling products.

## GetOrdersBetween(DateTime, DateTime)

```
public List<Order> GetOrdersBetween(DateTime starttime, DateTime endtime)
```

Parameters

starttime [DateTime](#)

endtime [DateTime](#)

Returns

[List](#) <[Order](#)>

## GetProductsBySeries(string)

Retrieves a collection of products based on the specified series.

```
public IEnumerable<Product> GetProductsBySeries(string series)
```

Parameters

series [string](#)

The series to filter products by.

Returns

[IEnumerable](#) <[Product](#)>

A collection of products belonging to the specified series.

## GetRecentIngredient()

```
public Ingredient GetRecentIngredient()
```

Returns

[Ingredient](#)

## GetRecentInventory()

```
public Inventory GetRecentInventory()
```

Returns

[Inventory](#)

## GetRecentProduct()

```
public Product GetRecentProduct()
```

Returns

[Product](#)

## GetSalesReport(DateTime, DateTime)

```
public List<Tuple<int, double>> GetSalesReport(DateTime starttime, DateTime endtime)
```

Parameters

starttime [DateTime](#)

endtime [DateTime](#)

Returns

[List](#)<[Tuple](#)<[int](#), [double](#)>>

## GetSalesTogether(DateTime, DateTime)

```
public List<Tuple<string, string, int>> GetSalesTogether(DateTime starttime,  
DateTime endtime)
```

Parameters

`starttime` [DateTime](#)

`endtime` [DateTime](#)

Returns

[List](#)<[Tuple](#)<[string](#), [string](#), [int](#)>>

## GetSeriesInfo(string)

Retrieves series information based on the specified series name.

```
public SeriesInfo GetSeriesInfo(string name)
```

Parameters

`name` [string](#)

The name of the series to retrieve information for.

Returns

[SeriesInfo](#)

Series information for the specified series name.

## GetUniqueSeries(bool, bool, bool)

Retrieves a collection of unique series based on optional filters.

```
public IEnumerable<string> GetUniqueSeries(bool includeDrinks = true, bool includeHidden = false, bool includeIsOption = false)
```

Parameters

`includeDrinks` [bool](#)

Include drinks in the result.

#### `includeHidden` [bool](#)

Include hidden products in the result.

#### `includeIsOption` [bool](#)

Include option products in the result.

Returns

#### [IEnumerable](#) <[string](#)>

A collection of unique series based on the specified filters.

## GetUser(string)

Retrieves a user based on the specified email address.

```
public User? GetUser(string email)
```

Parameters

#### `email` [string](#)

The email address of the user to retrieve.

Returns

#### [User](#)

The user associated with the specified email address, or null if not found.

## Get<T>(int)

Retrieves an entity from the database by its ID.

```
public T Get<T>(int id) where T : class
```

## Parameters

**id** `int`

The ID of the entity.

## Returns

**T**

The retrieved entity.

## Type Parameters

**T**

The type of the entity.

## Update<T>(T, T)

Updates an entity in the database.

```
public void Update<T>(T t, T newT) where T : class
```

## Parameters

**t** `T`

The original entity.

**newT** `T`

The new entity data.

## Type Parameters

**T**

The type of the entity.

# Class UserDao

Namespace: [WebApp.Data](#)

Assembly: WebApp.dll

Data Access Object (DAO) for managing user entities in the database.

```
public class UserDao : IDao<User>
```

Inheritance

[object](#) ← UserDao

Implements

[IDao<User>](#)

Inherited Members

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

## Constructors

### UserDao(CommandHandler)

Initializes a new instance of the [UserDao](#) class.

```
public UserDao(CommandHandler commandHandler)
```

Parameters

commandHandler [CommandHandler](#)

The command handler for executing database queries.

## Methods

### Add(User)

Adds a new user entity to the database.

```
public void Add(User t)
```

Parameters

**t** [User](#)

The user entity to be added.

## Delete(User)

Deletes a user entity from the database.

```
public void Delete(User t)
```

Parameters

**t** [User](#)

The user entity to be deleted.

## Get(int)

Not supported for user entities. Throws a [NotSupportedException](#).

```
public User Get(int id)
```

Parameters

**id** [int](#)

The unique identifier of the user.

Returns

[User](#)

Throws a [NotSupportedException](#).

## Get(string)

Gets a user entity by email.

```
public User? Get(string email)
```

Parameters

`email` [string](#)

The email address of the user.

Returns

[User](#)

The user entity with the specified email, or null if not found.

## GetAll()

Gets all user entities from the database.

```
public IEnumerable<User> GetAll()
```

Returns

[IEnumerable](#) <[User](#)>

An enumerable collection of all user entities.

## Update(User, User)

Updates an existing user entity in the database.

```
public void Update(User t, User newT)
```

## Parameters

### **t** [User](#)

The existing user entity to be updated.

### **newT** [User](#)

The new data for the user entity.

# Namespace WebApp.Models

## Classes

### [ErrorViewModel](#)

Represents a model for handling errors in the application.

# Class ErrorViewModel

Namespace: [WebApp.Models](#)

Assembly: WebApp.dll

Represents a model for handling errors in the application.

```
public class ErrorViewModel
```

## Inheritance

[object](#) ← ErrorViewModel

## Inherited Members

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

# Properties

## RequestId

Gets or sets the unique identifier for the current request.

```
public string? RequestId { get; set; }
```

## Property Value

[string](#)

## ShowRequestId

Gets a value indicating whether to show the request ID.

```
public bool ShowRequestId { get; }
```

## Property Value

bool ↗

# Namespace WebApp.Models.AzureMaps. Weather

## Classes

### [CurrentCondition](#)

Represents the current weather condition, including temperature and icon code.

# Class CurrentCondition

Namespace: [WebApp.Models.AzureMaps.Weather](#)

Assembly: WebApp.dll

Represents the current weather condition, including temperature and icon code.

```
public class CurrentCondition
```

## Inheritance

[object](#) ← CurrentCondition

## Inherited Members

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

## Constructors

### CurrentCondition(double?, int?)

Initializes a new instance of the [CurrentCondition](#) class.

```
public CurrentCondition(double? temperature, int? iconCode)
```

#### Parameters

temperature [double](#)?

The current temperature.

iconCode [int](#)?

The icon code representing the weather condition.

## Properties

### IconCode

Gets or sets the icon code representing the weather condition.

```
public int? IconCode { get; set; }
```

Property Value

[int](#)?

## Temperature

Gets or sets the current temperature.

```
public double? Temperature { get; set; }
```

Property Value

[double](#)?

# Namespace WebApp.Models.Cart

## Classes

### [Cart](#)

Represents a shopping cart that stores items added by the user.

### [CartService](#)

Provides functionality to interact with the user's shopping cart stored in the session.

### [Item](#)

Represents an item in the user's shopping cart.

# Class Cart

Namespace: [WebApp.Models.Cart](#)

Assembly: WebApp.dll

Represents a shopping cart that stores items added by the user.

```
public class Cart
```

## Inheritance

[object](#) ← Cart

## Inherited Members

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

## Constructors

### Cart()

Initializes a new instance of the [Cart](#) class.

```
public Cart()
```

## Properties

### Items

Gets or sets the list of items in the cart.

```
public List<Item> Items { get; set; }
```

### Property Value

[List](#)<[Item](#)>

## Total

Gets the total cost of all items in the cart.

```
public double Total { get; }
```

## Property Value

[double](#)

## Methods

### AddItem(Item)

Adds an item to the cart. If the same item with the same options exists, updates the quantity instead.

```
public void AddItem(Item item)
```

#### Parameters

[item](#) [Item](#)

The item to add to the cart.

### Clear()

Clears all items from the cart.

```
public void Clear()
```

### RemoveItem(int)

Removes the item at the specified index from the cart.

```
public void RemoveItem(int index)
```

## Parameters

**index** [int](#)

The index of the item to remove.

## RemoveItem(Item)

Removes the specified item from the cart.

```
public void RemoveItem(Item item)
```

## Parameters

**item** [Item](#)

The item to remove.

## TotalCost()

Calculates and returns the total cost of all items in the cart.

```
public double TotalCost()
```

## Returns

[double](#)

The total cost of items in the cart.

# Class CartService

Namespace: [WebApp.Models.Cart](#)

Assembly: WebApp.dll

Provides functionality to interact with the user's shopping cart stored in the session.

```
public class CartService
```

## Inheritance

[object](#) ← CartService

## Inherited Members

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

## Constructors

### CartService(IHttpContextAccessor)

Initializes a new instance of the [CartService](#) class.

```
public CartService(IHttpContextAccessor httpContextAccessor)
```

## Parameters

`httpContextAccessor` [IHttpContextAccessor](#)

The HTTP context accessor.

## Methods

### GetCartFromSession()

Retrieves the user's shopping cart from the session. If the cart is not found, a new cart is created and stored in the session.

```
public Cart GetCartFromSession()
```

Returns

[Cart](#)

The user's shopping cart.

## SetCartInSession(Cart)

Sets the specified shopping cart in the session.

```
public void SetCartInSession(Cart cart)
```

Parameters

**cart** [Cart](#)

The shopping cart to store in the session.

# Class Item

Namespace: [WebApp.Models.Cart](#)

Assembly: WebApp.dll

Represents an item in the user's shopping cart.

```
public class Item
```

## Inheritance

[object](#) ← Item

## Inherited Members

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

## Constructors

### Item(Product, List<Product>, int)

Initializes a new instance of the [Item](#) class.

```
public Item(Product product, List<Product> options, int quantity)
```

#### Parameters

**product** [Product](#)

The main product associated with the item.

**options** [List](#)<[Product](#)>

The list of product options associated with the item.

**quantity** [int](#)

The quantity of the item.

# Properties

## Options

Gets or sets the list of product options associated with the item.

```
public List<Product> Options { get; set; }
```

## Property Value

[List](#)<[Product](#)>

## Product

Gets or sets the product associated with the item.

```
public Product Product { get; set; }
```

## Property Value

[Product](#)

## Quantity

Gets or sets the quantity of the item.

```
public int Quantity { get; set; }
```

## Property Value

[int](#)

# Methods

## Price()

Calculates and returns the total price of the item.

```
public double Price()
```

Returns

double ↗

The total price of the item.

# Namespace WebApp.Models.JsonModels

## Classes

[AddItemModel](#)

[CheckoutModel](#)

[EditCountModel](#)

# Class AddItemModel

Namespace: [WebApp.Models.JsonModels](#)

Assembly: WebApp.dll

```
public class AddItemModel
```

## Inheritance

[object](#) ← AddItemModel

## Inherited Members

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

# Properties

## CustomizationIds

```
public List<int> CustomizationIds { get; set; }
```

### Property Value

[List](#)<[int](#)>

## ProductId

```
public int ProductId { get; set; }
```

### Property Value

[int](#)

## Quantity

```
public int Quantity { get; set; }
```

Property Value

[int ↗](#)

# Class CheckoutModel

Namespace: [WebApp.Models.JsonModels](#)

Assembly: WebApp.dll

```
public class CheckoutModel
```

## Inheritance

[object](#) ← CheckoutModel

## Inherited Members

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

# Properties

## Email

```
public string Email { get; set; }
```

## Property Value

[string](#)

## Name

```
public string Name { get; set; }
```

## Property Value

[string](#)

## Role

```
public string Role { get; set; }
```

Property Value

[string](#) ↗

# Class EditCountModel

Namespace: [WebApp.Models.JsonModels](#)

Assembly: WebApp.dll

```
public class EditCountModel
```

## Inheritance

[object](#) ← EditCountModel

## Inherited Members

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

# Properties

## Index

```
public int Index { get; set; }
```

### Property Value

[int](#)

## IsIncrement

```
public bool IsIncrement { get; set; }
```

### Property Value

[bool](#)

# Namespace WebApp.Models.UnitOfWork

## Classes

### [Employee](#)

This class is used to represent a row in the Employee table.

### [Ingredient](#)

This class is used to represent a row in the Ingredient table.

### [Inventory](#)

This class is used to represent a row in the Inventory table.

### [Order](#)

This class is used to represent a row in the Order table.

### [Product](#)

This class is used to represent a row in the Product table.

### [ProductIngredients](#)

This class is used to represent a row in the ProductIngredients table.

### [SeriesInfo](#)

This class is used to represent a row in the series\_info table.

### [User](#)

Represents information about a user in the application.

# Class Employee

Namespace: [WebApp.Models.UnitOfWork](#)

Assembly: WebApp.dll

This class is used to represent a row in the Employee table.

```
public class Employee
```

## Inheritance

[object](#) ← Employee

## Inherited Members

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

## Constructors

### Employee(int, string, string, bool, string)

Initializes a new instance of the [Employee](#) class.

```
public Employee(int id, string name, string password, bool isManager, string email)
```

#### Parameters

**id** [int](#)

The unique identifier for the employee.

**name** [string](#)

The name of the employee.

**password** [string](#)

The password associated with the employee's account.

**isManager** [bool](#)

A value indicating whether the employee is a manager.

#### email [string](#) ↗

The email address of the employee.

## Properties

### Email

Gets or sets the email address of the employee.

```
public string Email { get; set; }
```

### Property Value

#### [string](#) ↗

### Id

Gets or sets the unique identifier for the employee.

```
public int Id { get; set; }
```

### Property Value

#### [int](#) ↗

### IsManager

Gets or sets a value indicating whether the employee is a manager.

```
public bool IsManager { get; set; }
```

### Property Value

#### [bool](#) ↗

## Name

Gets or sets the name of the employee.

```
public string Name { get; set; }
```

## Property Value

[string](#)

## Password

Gets or sets the password associated with the employee's account.

```
public string Password { get; set; }
```

## Property Value

[string](#)

# Class Ingredient

Namespace: [WebApp.Models.UnitOfWork](#)

Assembly: WebApp.dll

This class is used to represent a row in the Ingredient table.

```
public class Ingredient
```

## Inheritance

[object](#) ← Ingredient

## Inherited Members

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

## Constructors

### Ingredient(int, string)

Constructor for the Ingredient class.

```
public Ingredient(int id, string name)
```

## Parameters

**id** [int](#)

**name** [string](#)

## Properties

### Id

Gets or sets the unique identifier for the inventory item.

```
public int Id { get; set; }
```

Property Value

[int](#)

Name

Gets or sets the identifier of the associated ingredient.

```
public string Name { get; set; }
```

Property Value

[string](#)

# Class Inventory

Namespace: [WebApp.Models.UnitOfWork](#)

Assembly: WebApp.dll

This class is used to represent a row in the Inventory table.

```
public class Inventory
```

## Inheritance

[object](#) ← Inventory

## Inherited Members

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

## Constructors

### Inventory(int, int, int, int)

Constructor for the Inventory class.

```
public Inventory(int id, int ingredientId, int quantity, int fillLevel)
```

## Parameters

**id** [int](#)

**ingredientId** [int](#)

**quantity** [int](#)

**fillLevel** [int](#)

## Properties

### FillLevel

Gets or sets the fill level of the inventory.

```
public int FillLevel { get; set; }
```

Property Value

[int↗](#)

**Id**

Gets or sets the unique identifier for the inventory item.

```
public int Id { get; set; }
```

Property Value

[int↗](#)

**IngredientId**

Gets or sets the identifier of the associated ingredient.

```
public int IngredientId { get; set; }
```

Property Value

[int↗](#)

**Quantity**

Gets or sets the quantity of the ingredient in the inventory.

```
public int Quantity { get; set; }
```

Property Value

int ↗

# Class Order

Namespace: [WebApp.Models.UnitOfWork](#)

Assembly: WebApp.dll

This class is used to represent a row in the Order table.

```
public class Order
```

## Inheritance

[object](#) ← Order

## Inherited Members

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

## Constructors

`Order(int, int, string, DateTime, double, List<int>)`

Constructor for the Order class.

```
public Order(int id, int employeeId, string customerName, DateTime orderDate, double  
totalPrice, List<int> itemIds)
```

## Parameters

`id int`

`employeeId int`

`customerName string`

`orderDate DateTime`

`totalPrice double`

`itemIds List<int>`

# Properties

## CustomerName

Gets or sets the name of the customer placing the order.

```
public string CustomerName { get; set; }
```

### Property Value

[string](#)

## EmployeeId

Gets or sets the identifier of the employee associated with the order.

```
public int EmployeeId { get; set; }
```

### Property Value

[int](#)

## Id

Gets or sets the unique identifier for the order.

```
public int Id { get; set; }
```

### Property Value

[int](#)

## ItemIds

Gets or sets the list of item identifiers associated with the order.

```
public List<int> ItemIds { get; set; }
```

## Property Value

[List](#) <[int](#)>

## OrderDate

Gets or sets the date and time when the order was placed.

```
public DateTime OrderDate { get; set; }
```

## Property Value

[DateTime](#)

## TotalPrice

Gets or sets the total price of the order.

```
public double TotalPrice { get; set; }
```

## Property Value

[double](#)

# Class Product

Namespace: [WebApp.Models.UnitOfWork](#)

Assembly: WebApp.dll

This class is used to represent a row in the Product table.

```
public class Product
```

Inheritance

[object](#) ← Product

Inherited Members

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

## Constructors

Product(int, string, double, string, string, bool, bool, bool)

Constructor for the Product class.

```
public Product(int id, string name, double price, string series, string imgUrl, bool hidden,  
bool isOption, bool isDrink)
```

Parameters

**id** [int](#)

**name** [string](#)

**price** [double](#)

**series** [string](#)

**imgUrl** [string](#)

**hidden** [bool](#)

**isOption** [bool](#)

`isDrink` [bool](#)

## Properties

### Hidden

Gets or sets a value indicating whether the product is hidden.

```
public bool Hidden { get; set; }
```

### Property Value

[bool](#)

### Id

Gets or sets the unique identifier for the product.

```
public int Id { get; set; }
```

### Property Value

[int](#)

### ImgUrl

Gets or sets the URL of the product's image.

```
public string ImgUrl { get; set; }
```

### Property Value

[string](#)

### IsDrink

Gets or sets a value indicating whether the product is a drink.

```
public bool IsDrink { get; set; }
```

Property Value

[bool](#)

## IsOption

Gets or sets a value indicating whether the product is an option.

```
public bool IsOption { get; set; }
```

Property Value

[bool](#)

## Name

Gets or sets the name of the product.

```
public string Name { get; set; }
```

Property Value

[string](#)

## Price

Gets or sets the price of the product.

```
public double Price { get; set; }
```

Property Value

[double](#) ↴

## Series

Gets or sets the series to which the product belongs.

```
public string Series { get; set; }
```

Property Value

[string](#) ↴

# Class ProductIngredients

Namespace: [WebApp.Models.UnitOfWork](#)

Assembly: WebApp.dll

This class is used to represent a row in the ProductIngredients table.

```
public class ProductIngredients
```

## Inheritance

[object](#) ← ProductIngredients

## Inherited Members

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

## Constructors

### ProductIngredients(int, List<int>)

Constructor for the ProductIngredients class.

```
public ProductIngredients(int productId, List<int> ingredientIds)
```

## Parameters

productId [int](#)

ingredientIds [List](#)<[int](#)>

## Properties

### IngredientIds

Gets or sets the list of unique identifiers of the associated ingredients.

```
public List<int> IngredientIds { get; set; }
```

## Property Value

[List](#) <[int](#)>

## ProductId

Gets or sets the unique identifier of the associated product.

```
public int ProductId { get; set; }
```

## Property Value

[int](#)

# Class SeriesInfo

Namespace: [WebApp.Models.UnitOfWork](#)

Assembly: WebApp.dll

This class is used to represent a row in the series\_info table.

```
public class SeriesInfo
```

## Inheritance

[object](#) ← SeriesInfo

## Inherited Members

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

## Constructors

### SeriesInfo(string, string, bool, bool, bool, bool)

Constructor for the SeriesInfo class.

```
public SeriesInfo(string name, string img_url, bool multi_selectable, bool is_product, bool  
is_customization, bool is_hidden)
```

## Parameters

**name** [string](#)

The name of the series.

**img\_url** [string](#)

The URL of the image associated with the series.

**multi\_selectable** [bool](#)

Whether or not the series is multi-selectable.

**is\_product** [bool](#)

Whether or not the series is a product.

#### **is\_customization** [bool](#)

Whether or not the series is a customization.

#### **is\_hidden** [bool](#)

Whether or not the series is hidden.

## Properties

### ImgUrl

Gets or sets the URL of the image associated with the series.

```
public string ImgUrl { get; set; }
```

### Property Value

[string](#)

### IsCustomization

Gets or sets a value indicating whether the series is a customization.

```
public bool IsCustomization { get; set; }
```

### PropertyValue

[bool](#)

### IsHidden

Gets or sets a value indicating whether the series is hidden.

```
public bool IsHidden { get; set; }
```

Property Value

[bool](#)

## IsProduct

Gets or sets a value indicating whether the series is considered a product.

```
public bool IsProduct { get; set; }
```

Property Value

[bool](#)

## MultiSelectable

Gets or sets a value indicating whether the series is multi-selectable.

```
public bool MultiSelectable { get; set; }
```

Property Value

[bool](#)

## Name

Gets or sets the name of the series.

```
public string Name { get; set; }
```

Property Value

[string](#)

# Class User

Namespace: [WebApp.Models.UnitOfWork](#)

Assembly: WebApp.dll

Represents information about a user in the application.

```
public class User
```

## Inheritance

[object](#) ← User

## Inherited Members

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

## Constructors

### User(string, string, int[], string, string, string, string)

Initializes a new instance of the [User](#) class.

```
public User(string name, string email, int[] favorites, string accCursor = "false", string  
accTextSize = "false", string accContrast = "normal", string accLanguage = "")
```

## Parameters

**name** [string](#)

The name of the user.

**email** [string](#)

The email address of the user.

**favorites** [int](#)[]

The array of user favorites.

**accCursor** [string](#)

The accessibility cursor setting for the user.

#### accTextSize [string](#)

The accessibility text size setting for the user.

#### accContrast [string](#)

The accessibility contrast setting for the user.

#### accLanguage [string](#)

The accessibility language setting for the user.

## Properties

### AccContrast

Gets or sets the accessibility contrast setting for the user.

```
public string AccContrast { get; set; }
```

#### Property Value

[string](#)

### AccCursor

Gets or sets the accessibility cursor setting for the user.

```
public string AccCursor { get; set; }
```

#### Property Value

[string](#)

### AccLanguage

Gets or sets the accessibility language setting for the user.

```
public string AccLanguage { get; set; }
```

## Property Value

[string](#)

## AccTextSize

Gets or sets the accessibility text size setting for the user.

```
public string AccTextSize { get; set; }
```

## Property Value

[string](#)

## Email

Gets or sets the email address of the user.

```
public string Email { get; set; }
```

## Property Value

[string](#)

## Favorites

Gets or sets the array of user favorites.

```
public int[] Favorites { get; set; }
```

## Property Value

[int](#)

## Name

Gets or sets the name of the user.

```
public string Name { get; set; }
```

Property Value

[string](#)

# Namespace WebApp.Models.ViewModels

## Classes

### [CustomizationViewModel](#)

Represents a view model for customization-related views.

### [EditViewModel](#)

Represents a view model for editing cart-related views.

# Class CustomizationViewModel

Namespace: [WebApp.Models.ViewModels](#)

Assembly: WebApp.dll

Represents a view model for customization-related views.

```
public class CustomizationViewModel
```

## Inheritance

[object](#) ← CustomizationViewModel

## Inherited Members

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

## Properties

### Products

Gets or sets the list of products for customization.

```
public List<Product>? Products { get; set; }
```

### Property Value

[List](#)<[Product](#)>

### SelectedProduct

Gets or sets the selected product for customization.

```
public Product? SelectedProduct { get; set; }
```

### Property Value

## SeriesInformation

Gets or sets the list of series information for customization.

```
public List<SeriesInfo>? SeriesInformation { get; set; }
```

Property Value

[List](#) <[SeriesInfo](#)>

# Class EditViewModel

Namespace: [WebApp.Models.ViewModels](#)

Assembly: WebApp.dll

Represents a view model for editing cart-related views.

```
public class EditViewModel
```

## Inheritance

[object](#) ← EditViewModel

## Inherited Members

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

# Properties

## Cart

Gets or sets the cart to be edited.

```
public Cart? Cart { get; set; }
```

## Property Value

[Cart](#)

## Index

Gets or sets the index of the cart item to be edited.

```
public int Index { get; set; }
```

## Property Value

## Products

Gets or sets the list of products for customization.

```
public List<Product>? Products { get; set; }
```

### Property Value

[List↗ <Product>](#)

## SeriesInformation

Gets or sets the list of series information for customization.

```
public List<SeriesInfo>? SeriesInformation { get; set; }
```

### Property Value

[List↗ <SeriesInfo>](#)