C# Guidelines

General

- Use four spaces of indentation (no tabs!)
- Avoid `this`, unless necessary
- Use async/await for any operations that include I/O (e.g reading/writing to a disk, database/network calls, etc)

Validation

- Use FluentValidation to guard client input (e.g on API's)
- Use built-in argument checks for all method parameters

Commenting

- Use XML comments on all classes and public methods
- Don't use comments for obvious logic

Calculator

Swagger Petstore

pet

Everything about your Pets

UploadFile

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uploads an image

Request

```
POST /pet/{petId}/uploadImage
```

Parameters

Name	Type	Default	Notes
*petId			ID of pet to update
additionalMetadata			Additional data to pass to server
file			file to upload

Responses

Status Code	Type	Description	Samples
200	ApiResponse	successful operation	

AddPet

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Add a new pet to the store

Request

```
POST /pet
```

Parameters

Name	Type	Default	Notes
*body	Pet		Pet object that needs to be added to the store

Responses

Status Code	Type	Description	Samples
405		Invalid input	

UpdatePet

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Update an existing pet

Request

```
PUT /pet
```

Parameters

Name	Type	Default	Notes
*body	Pet		Pet object that needs to be added to the store

Responses

Status Code	Type	Description	Samples
400		Invalid ID supplied	
404		Pet not found	
405		Validation exception	

FindPetsByStatus

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Finds Pets by status

Multiple status values can be provided with comma separated strings

Request

```
GET /pet/findByStatus?status
```

Parameters

Name	Type	Default	Notes
*status			Status values that need to be considered for filter

Responses

Status Code	Type	Description	Samples
200	Pet[]	successful operation	
400		Invalid status value	

FindPetsByTags

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Finds Pets by tags

Multiple tags can be provided with comma separated strings. Use tag1, tag2, tag3 for testing.

Request

```
GET /pet/findByTags?tags
```

Parameters

Name	Type	Default	Notes
*tags			Tags to filter by

Responses

Status Code	Type	Description	Samples
200	Pet[]	successful operation	

Status Code	Type	Description	Samples
400		Invalid tag value	

GetPetById

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Find pet by ID

Returns a single pet

Request

```
GET /pet/{petId}
```

Parameters

Name	Type	Default	Notes
*petId			ID of pet to return

Responses

Status Code	Type	Description	Samples
200	Pet	successful operation	
400		Invalid ID supplied	
404		Pet not found	

UpdatePetWithForm

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Updates a pet in the store with form data

Request

```
POST /pet/{petId}
```

Parameters

Name	Type	Default	Notes
*petId			ID of pet that needs to be updated
name			Updated name of the pet
status			Updated status of the pet

Responses

Status Code	Type	Description	Samples
405		Invalid input	

DeletePet

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Deletes a pet

Request

```
DELETE /pet/{petId}
```

Parameters

Name	Type	Default	Notes
api_key			
*petId			Pet id to delete

Responses

Status Code	Type	Description	Samples
400		Invalid ID supplied	
404		Pet not found	

store

Access to Petstore orders

GetInventory

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Returns pet inventories by status

Returns a map of status codes to quantities

Request

```
GET /store/inventory
```

Responses

Status Code	Type	Description	Samples
200	object	successful operation	

PlaceOrder

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Place an order for a pet

Request

```
POST /store/order
```

Parameters

Name	Type	Default	Notes
*body	Order		order placed for purchasing the pet

Responses

Status Code	Type	Description	Samples
200	Order	successful operation	
400		Invalid Order	

GetOrderById

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Find purchase order by ID

For valid response try integer IDs with value >= 1 and <= 10. Other values will generated exceptions

Request

```
GET /store/order/{orderId}
```

Parameters

Name	Type	Default	Notes
*orderId			ID of pet that needs to be fetched

Responses

Status Code	Type	Description	Samples
200	Order	successful operation	
400		Invalid ID supplied	
404		Order not found	

DeleteOrder

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Delete purchase order by ID

For valid response try integer IDs with positive integer value. Negative or non-integer values will generate API errors

Request

```
DELETE /store/order/{orderId}
```

Parameters

Name	Type	Default	Notes
*orderId			ID of the order that needs to be deleted

Responses

Status Code	Type	Description	Samples
400		Invalid ID supplied	
404		Order not found	

user

Operations about user

CreateUsersWithListInput

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Creates list of users with given input array

Request

```
POST /user/createWithList
```

Parameters

Name	Type	Default	Notes
*body	User[]		List of user object

Responses

Status Code	Type	Description	Samples
default		successful operation	

GetUserByName

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Get user by user name

Request

```
GET /user/{username}
```

Parameters

Name	Type	Default	Notes
*username			The name that needs to be fetched. Use user1 for testing.

Responses

Status Code	Type	Description	Samples
200	User	successful operation	
400		Invalid username supplied	
404		User not found	

UpdateUser

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Updated user

This can only be done by the logged in user.

Request

```
PUT /user/{username}
```

Parameters

Name	Type	Default	Notes
*username			name that need to be updated
*body	User		Updated user object

Responses

Status Code	Type	Description	Samples
400		Invalid user supplied	

Status Code	Type	Description	Samples
404		User not found	

DeleteUser

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Delete user

This can only be done by the logged in user.

Request

```
DELETE /user/{username}
```

Parameters

Name	Type	Default	Notes
*username			The name that needs to be deleted

Responses

Status Code	Type	Description	Samples
400		Invalid username supplied	
404		User not found	

LoginUser

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Logs user into the system

Request

```
GET /user/login?username&password
```

Parameters

Name	Type	Default	Notes
*username			The user name for login
*password			The password for login in clear text

Responses

Status Code	Type	Description	Samples
200	string	successful operation	
400		Invalid username/password supplied	

LogoutUser

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Logs out current logged in user session

Request

```
GET /user/logout
```

Responses

Status Code	Type	Description	Samples
default		successful operation	

CreateUsersWithArrayInput

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Creates list of users with given input array

Request

```
POST /user/createWithArray
```

Parameters

Name	Type	Default	Notes
*body	User[]		List of user object

Responses

Status Code	Type	Description	Samples
default		successful operation	

CreateUser

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Create user

This can only be done by the logged in user.

Request

```
POST /user
```

Parameters

Name	Type	Default	Notes
*body	User		Created user object

Responses

Status Code	Type	Description	Samples
default		successful operation	

Definitions

ApiResponse

Name	Type	Notes
code	integer (int32)	
type	string	

Name	Type	Notes
message	string	

Pet

Name	Type	Notes
id	integer (int64)	
category	Category[]	
name	string	
photoUrls	array	
tags	Tag[]	
status	string	pet status in the store

Category

Name	Type	Notes
id	integer (int64)	
name	string	

Tag

Name	Type	Notes
id	integer (int64)	
name	string	

Order

Name	Type	Notes
id	integer (int64)	
petId	integer (int64)	

Name	Type	Notes
quantity	integer (int32)	
shipDate	string (date-time)	
status	string	Order Status
complete	boolean	

User

Name	Type	Notes
id	integer (int64)	
username	string	
firstName	string	
lastName	string	
email	string	
password	string	
phone	string	
userStatus	integer (int32)	User Status

OpenAPI Version Support

- Currently (May 9, 2025), DocFX does not support OpenAPI 3.0 specifications.
- For example, `swagger.json` files generated with OpenAPI 3.0 are not compatible.
- OpenAPI 2.0 (`swagger.json` in OpenAPI 2 format) is supported.
- Check the progress of this feature request here: https://github.com/dotnet/docfx/issues/2742.