

Item Marketplace

Create a marketplace database (Code-First approach) and REST API to query marketplace items. No UI needed.

Features

- Pagination with page limit.
- Optional filtering (by status, by seller, by name), filtering by name is case insensitive, any position.
- Sorting (by key: CreatedDt, Price, by order: ASC, DESC).
- Optimize for searching by name.
- API versioning.

Instruments

- .NET 5-7
- EF Core
- Asp.Net Core
- MS-SQL

Database

Item

Field	Type
Id	Int
Name	String
Description	String
Metadata	String

Sale

Field	Type
Id	Int
ItemId	Int

CreatedDt	DateTime
FinishedDt	DateTime
Price	Decimal
Status	MarketStatus (None, Canceled, Finished, Active)
Seller	String
Buyer	String

Approximate number of db entries - **100_000**.

API

Implement following endpoints for loading market items:

- HTTP auctions/
- HTTP auctions/id/

Example:

- api/v0.1/auctions
- api/v0.1/auctions?name=formula_1&status=active&sort_order=desc&sort_key=price&limit=10
- api/v0.1/auctions/100/

Nice to have:

- Logging
- Server side caching