

Requirements + Objective

Objective: Develop an application that allows users to manage the inventory of a small grocery shop. The application must provide functionality for users to control and track all products in stock.

Not specified in client request:

Authentication (!)

Time Zone (WA/Syd/Bris/Intl)

Date Format (yyyy-mm-dd vs dd-mm-yyyy vs mm-dd-yyyyy)

Management:

Product Management: (/products)

/Create/:id

/Update/:id

/Delete/:id

/:id

Aisle Management: (/aisles)

/All List all aisles.

/Create - Create new aisles.

/Update/:id - Update existing aisles.

/Delete/:id - Delete aisles.

/:id - List all products that belong to a specific aisle.

Data: (ID Columns Excluded)

Product Data:

Name

Quantity - Track the quantity of products in stock.

Price - Manage product prices.

Expiry Date - Monitor expiry dates.

Purchase Date - Record the date of purchase.

Aisle - Identify the aisle/location where each product can be found.

Aisle Data:

Name

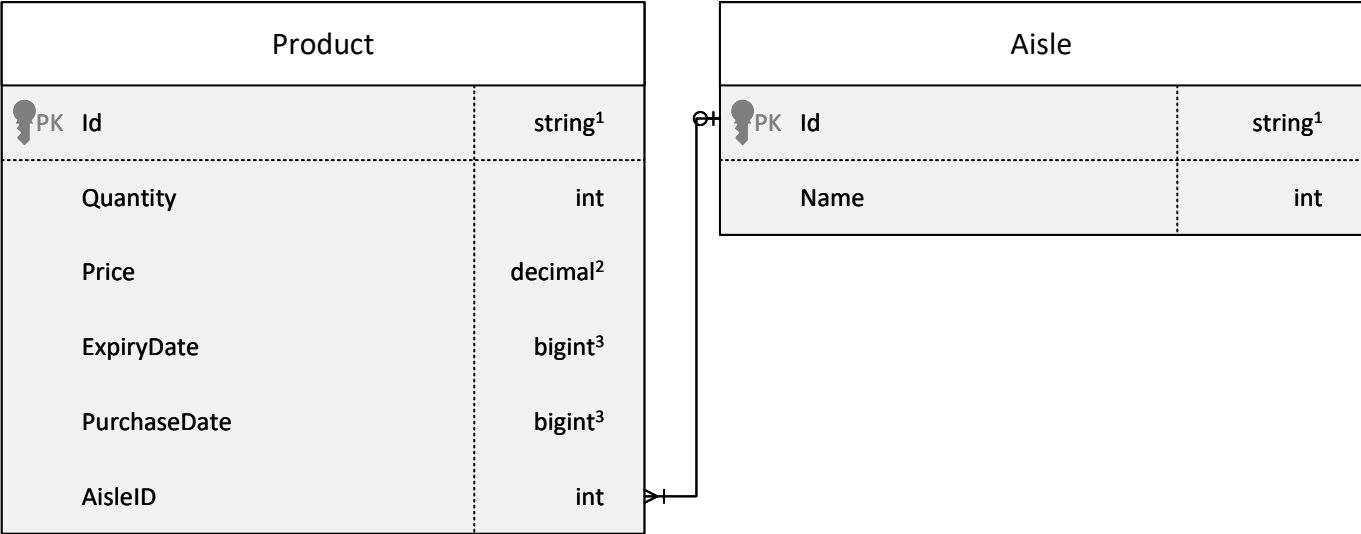
Database Planning

Considered:

- Basic CRUD requested
- SME business
 - Small development budget
 - Small inventory (uint not required but could be used in future)

Not Considered:

- Authentication
 - Not required for this stage of product demonstration. (also dependant on client infrastructure)
- ID Security (Sequential ID vs External use GUID)



1. Normally int/bigint is preferred for ids because of performance, but string is easier to get working with MongoDB, and the performance would not be required for the scope of this project
- 2 .NET Decimal primitive, MongoDB uses Decimal128.
- 3 .NET DateTime, MongoDB stores as Int64, should be UTC.

GreyShop.Web

GroceryShop.API

GroceryShop.Db

