Coding Test

For the coding Test I chose to complete the following User stories:

User story 1
List all plates with pagination - Completed
Add plate functionality - Not completed
Markup by 20% - Completed
Advanced - Completed

User story 2
Order the list by price - Completed
API can order by Registration, sale price and purchase price

User story 4
Add a reserved status to the plate - Completed
Plates are displayed as reserved - Completed
Advanced (unreserve and auditing) - Not completed

User story 5
Add filter to only show for sale items - completed

User story 7
Promotion code
DISCOUNT == £25 off - Completed

I have tried to cover unit testing, IoC and DI and pub/sub pattern.

For the plates API, this is all the available filters with an example:

http://localhost:5101/plates?page=1&pagesize=10&searchTerm=MEA&sortColumn=registration&sortOrder=desc &promoCode=DISCOUNT&hideUnavailable=true

This is the reserve endpoint:

http://localhost:5101/plates/c4e76158-ba7a-4f21-923d-056cf029d491/reserve

If I was to continue working on this, I would:

- Upgrade to .NET 9
- Move to a minimal API pattern
- Implement a more robust entity update and storage solution (what I have made is for this POC)
- Built a simple UI

If I had the time to create a UI, I would create one like this:

