

# Search Service specification

## Infrastructure

.Net Web API

Mongo DB

Service Bus - RabbitMQ

## Nuget Packages

AutoMapper.Extensions.Microsoft.DependencyInjection

Microsoft.Extensions.Http.Polly

MongoDB.Entities

MassTransit.RabbitMQ

## Queries handled

**Search** - Gets a paged list of auctions based on query params. Returns list of **Item**

## Events consumed

**AuctionService.AuctionCreated** - When an auction has been created in the **AuctionService**

**AuctionService.AuctionUpdated** - When an auction has been created in the **AuctionService**

**AuctionService.AuctionDeleted** - When an auction has been deleted in the **AuctionService**

**BidService.AuctionFinished** - When an auction has reached it's AuctionEnd date/time

**BidService.BidPlaced** - When a bid has been placed in the **BidService**

## API Endpoints

GET	api/search?query	Get paged list of auctions based on query params (searchTerm, pageSize,	Anon
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		pageNumber, seller, winner, orderBy, filterBy)	
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## Models

### Item.cs

Property Name	Property Type	Default Value
Id	Guid	
CreatedAt	DateTime	
UpdatedAt	DateTime	
AuctionEnd	DateTime	
Seller	string	
Winner	string	
Make	string	
Model	string)	
Year	int	
Color	string	
Mileage	int	
ImageUrl	string	
Status	string	
ReservePrice	int	
SoldAmount?	int	
CurrentHighBid?	int	

## Event Consumed Types

### AuctionCreated

Property Name	Property Type	Default Value
Id	Guid	
CreatedAt	DateTime	
UpdatedAt	DateTime	
AuctionEnd	DateTime	
Seller	string	

Property Name	Property Type	Default Value
Winner	string	
Make	string	
Model	string)	
Year	int	
Color	string	
Mileage	int	
ImageUrl	string	
Status	string	
ReservePrice	int	
SoldAmount?	int	
CurrentHighBid?	int	

### **AuctionUpdated**

Property Name	Property Type	Default Value
Make	string	
Model	string)	
Color	string	
Mileage	int	
Year	int	

### **AuctionDeleted**

Property Name	Property Type	Default Value
Id	string	

### **AuctionFinished**

Property Name	Property Type	Default Value
ItemSold	boolean	
AuctionId	string	
Winner	string	
Seller	string	
Amount?	int	

### **BidPlaced**

Property Name	Property Type	Default Value
Id	string	
AuctionId	string	
Bidder	string	
BidTime	date/time	
Amount	int	
BidStatus	string	