Bidding Service specification

Infrastructure

.Net Web API

Mongo DB

Service Bus - RabbitMQ

Nuget Packages

AutoMapper.Extensions.Microsoft.DependancyInjection

Microsoft.Extensions.Http.Polly

MongoDB.Entities

MassTransit.RabbitMQ

Google.Protobuf

Grpc.Net.Client

Grpc.Tools

MassTransit.RabbitMQ

Microsoft.Authentication.JwtBearer

Polly

Queries handled

PlaceBid - Creates a new bid for an auction using the auctionId and the amount of the bid.   Returns **Bid**

GetBidsForAuction - Returns a list of bids for an Auction.

Events emitted

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

BidService.AuctionFinished - When an auction has reached the AuctionEnd date.

Events consumed

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

API Endpoints

POST	api/bids	Place new bid for an auction	Auth
GET	api/bids/{auctionId}	Get list of bids for an auction	Anon

Models

Auction.cs

Property Name	Property Type	Default Value
ID	string	MongoDBEntityID
AuctionEnd	DateTime	
Seller	string	
ReservePrice	int	
Finished	bool	

Bid.cs

Property Name	Property Type	Default Value
ID	string	MongoDBEntityID
AuctionId	string	
BidTime	DateTime	UtcNow
Amount	int	
BidStatus	BidStatus	

BidStatus (Enum)

Property Name
Accepted
AcceptedBelowReserve
TooLow
Finished

Event Emitted Types

BidService.BidPlaced

Property Name	Property Type	Default Value
Id	string	
AuctionId	string	
Bidder	string	
BidTime	DateTime	
Amount	int	
BidStatus	string	

BidService.AuctionFinished

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

Event Consumed Types

AuctionService.AuctionCreated

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	

Property Name	Property Type	Default Value
Mileage	int	
ImageUrl	string	
Status	string	
ReservePrice	int	
SoldAmount?	int	
CurrentHighBid?	int	