Search Service Specification

Infrastructure

.Net Web API (with minimal API)
Typesense
Service Bus - RabbitMQ

Nuget Packages

Name	Version used
Typesense	7.35.0
Microsoft.AspNetCore.OpenApi	9.0.7
WolverineFx.RabbitMQ	4.7.0

Queries handled

SearchQuestions - Gets a list of questions based on a search query string. Returns **SearchQuestion list**
SimilarTitles - Gets a list of questions with similar titles. Returns **SearchQuestion list**

Events consumed

QuestionCreated - When the question is created in the Question service
QuestionUpdated - When the question is updated in the Question service
QuestionDeleted - When the question is deleted in the Question service
AnswerCountUpdated - When an answer is posted or deleted in the Question service
AnswerAccepted - When an answer is accepted in the Question service

API Endpoints

Method	Route	Purpose	Auth?	Returns
GET	/search	Search questions titles/content	Anon	200 with **SearchQuestion[]**
GET	/search/similar-titles	Search question titles	Auth	200 with **SearchQuestion[]**

Models

SearchQuestion.cs

Property Name	Property Type	Remarks
Id	string	
Title	string	
Content	string	
Tags	string[]	
CreatedAt	timestamp	
HasAcceptedAnswer	boolean	
AnswerCount	int	