ONLINE CODE EDITOR

BRAIN MENTORS

ONLINE CODE EDITOR

This is an Online Editor , where user can login and register here, and once user is login then a Secure token is generated for the User Session, After this user can see the problem statements in pagination way.

User can choose/select the question/problem and then the question/problem description along with Input and Output.

User can upload / submit the test and get the score.

PROBLEM STATEMENT

- User / Register MicroService and DB Design
- Token Generation and Verification MicroService and DB Design

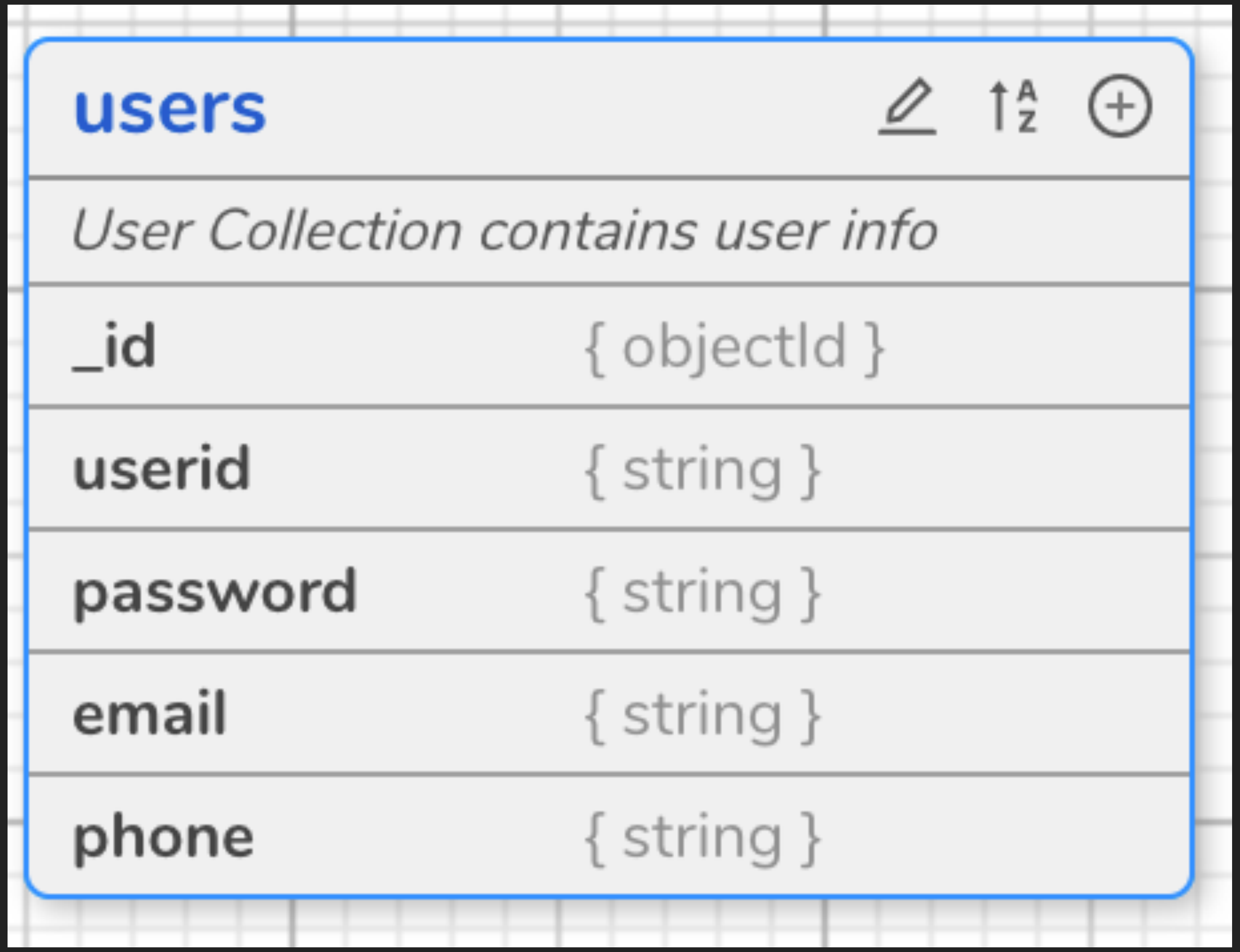
USER MICROSERVICE

Express PORT - 1234

Route

User login

User Register

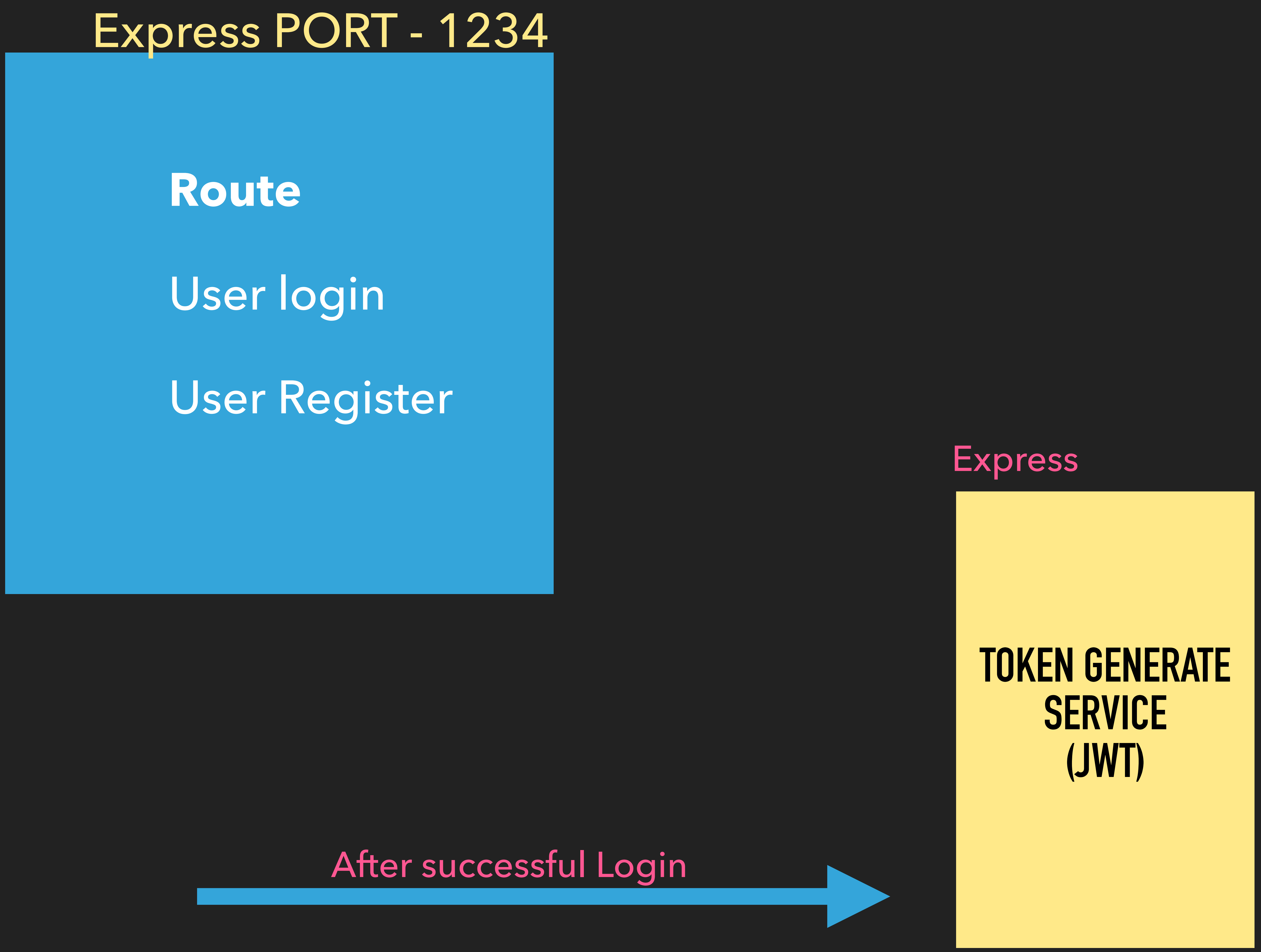


users

User Collection contains user info

_id	{ objectId }
userid	{ string }
password	{ string }
email	{ string }
phone	{ string }

USER MICROSERVICE & TOKEN MICROSERVICE



Express PORT - 1234

Route

User login

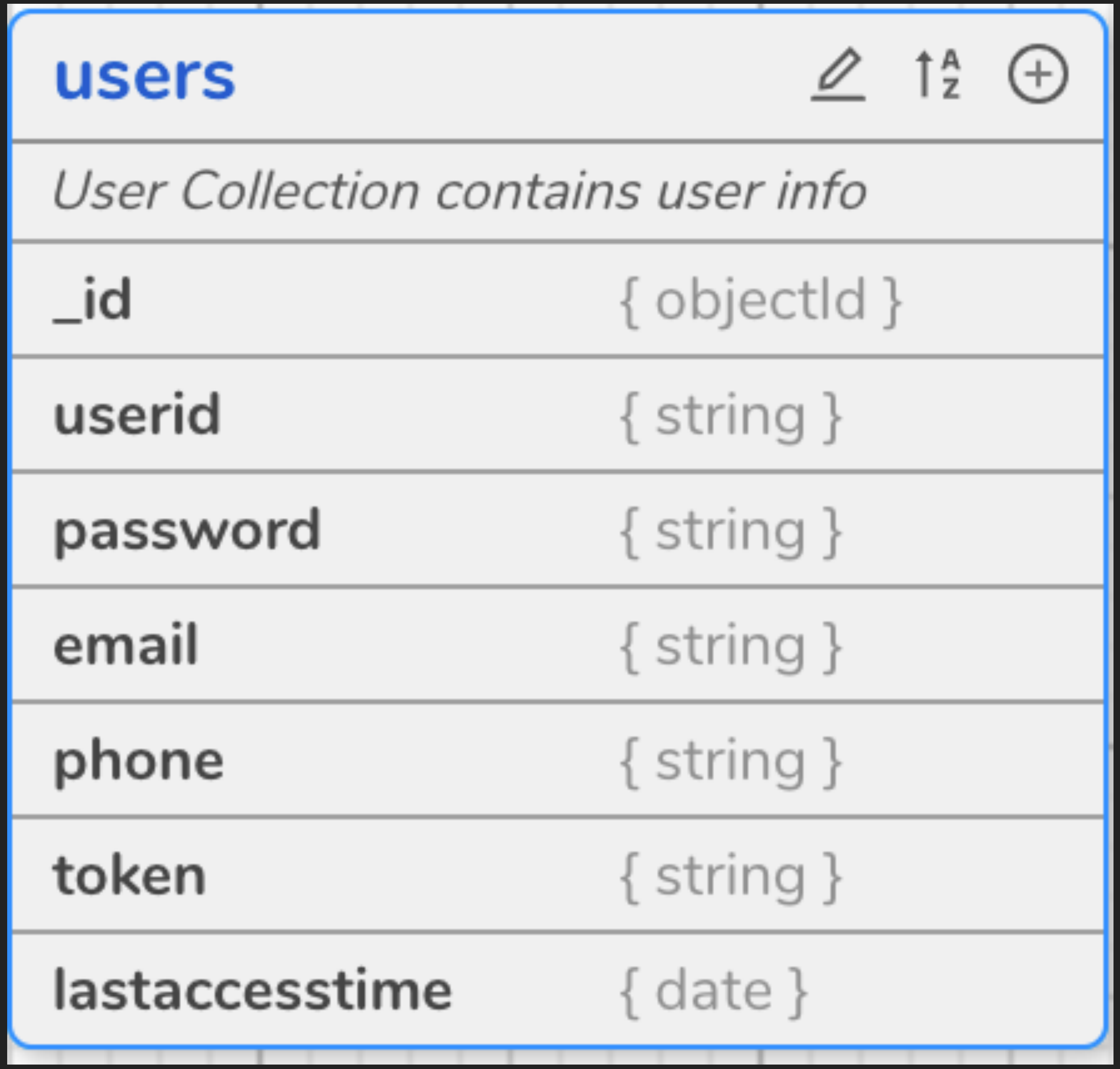
User Register

After successful Login

Express

TOKEN GENERATE SERVICE (JWT)

Generate Token / Compare Token/ Remove Token/Expire

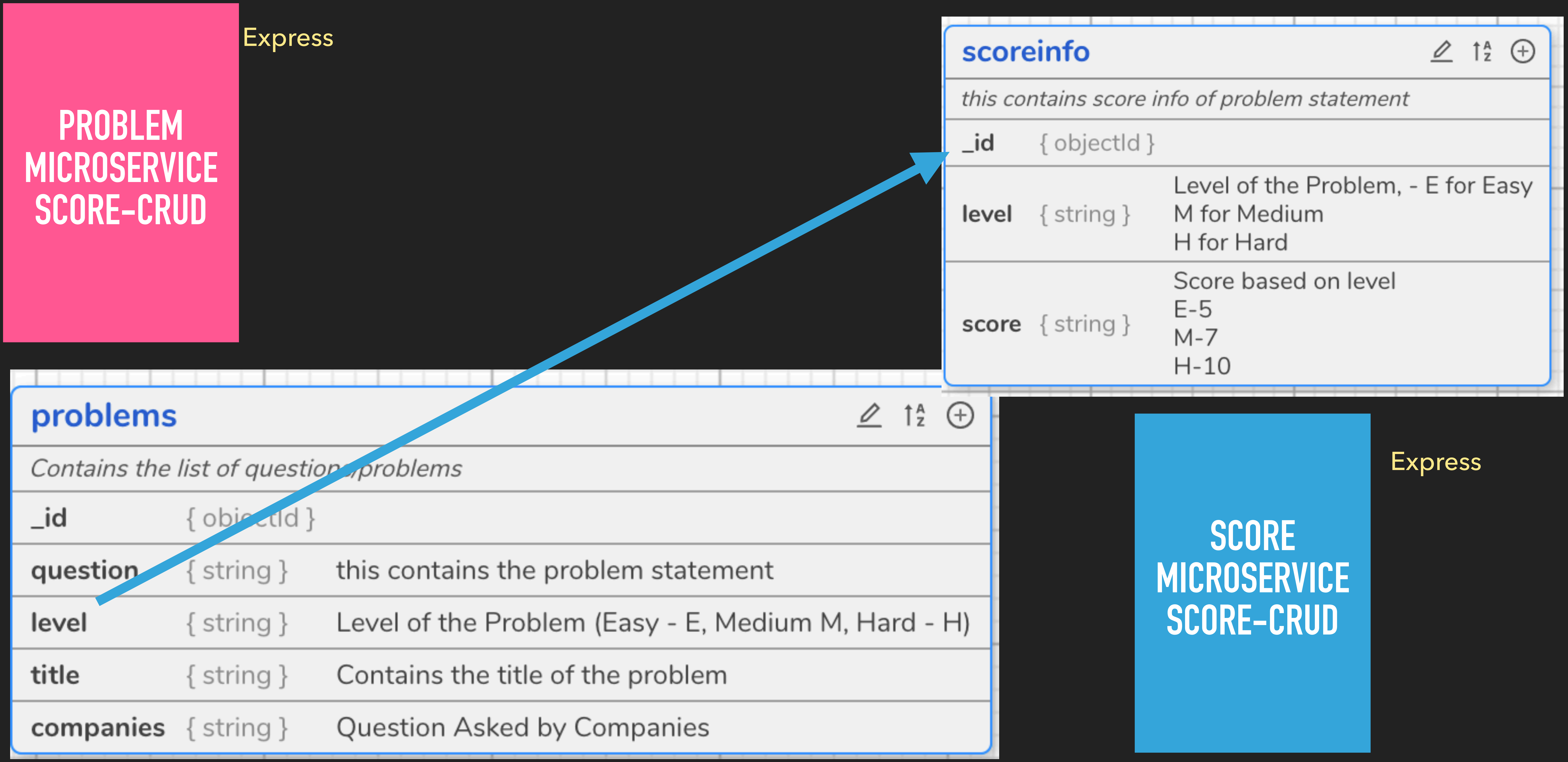


users

User Collection contains user info

_id	{ objectId }
userid	{ string }
password	{ string }
email	{ string }
phone	{ string }
token	{ string }
lastaccesstime	{ date }

VIEW LIST OF PROBLEMS - PAGINATION



PROBLEM MICROSERVICE SCORE-CRUD

Express

scoreinfo

this contains score info of problem statement

_id	{ objectId }	
level	{ string }	Level of the Problem, - E for Easy M for Medium H for Hard
score	{ string }	Score based on level E-5 M-7 H-10

problems

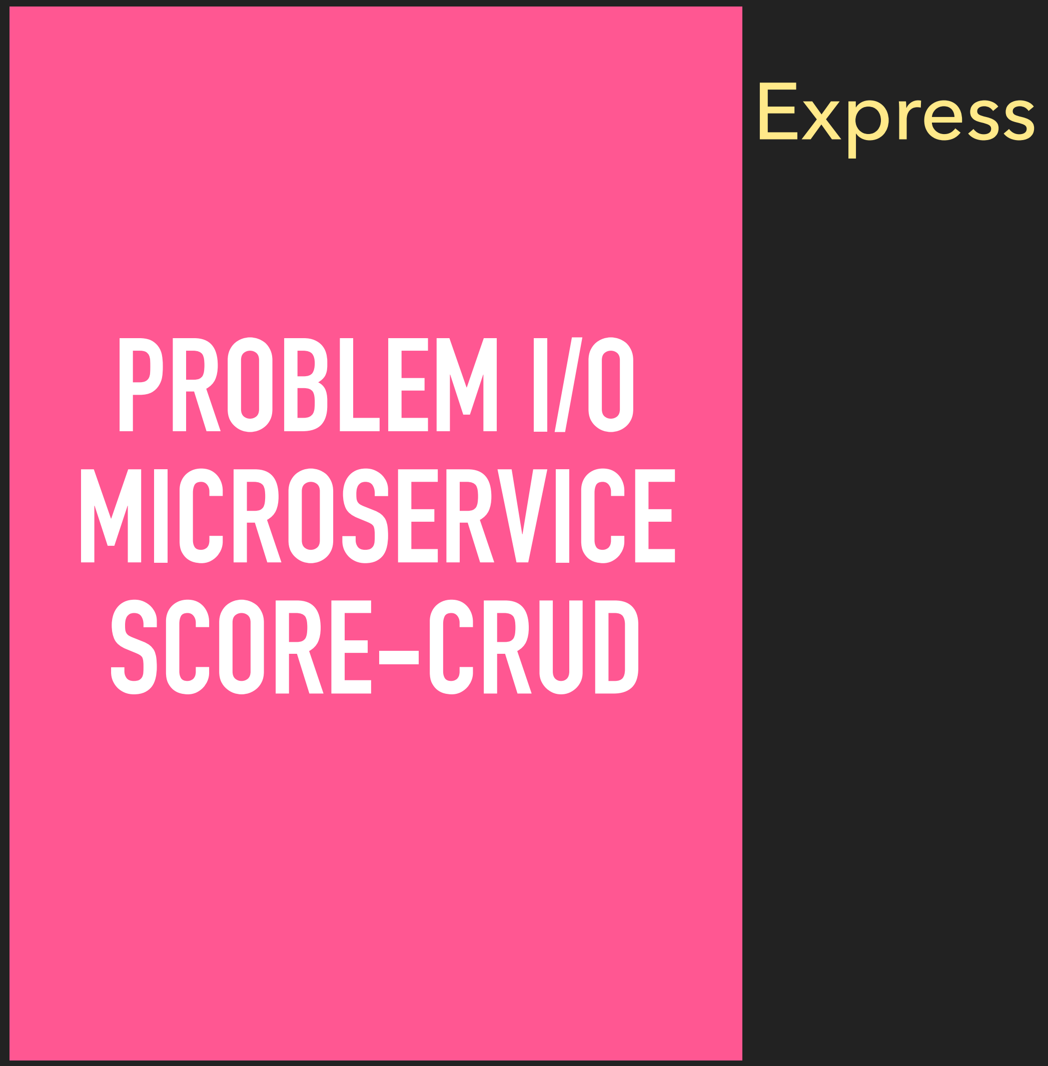
Contains the list of questions/problems

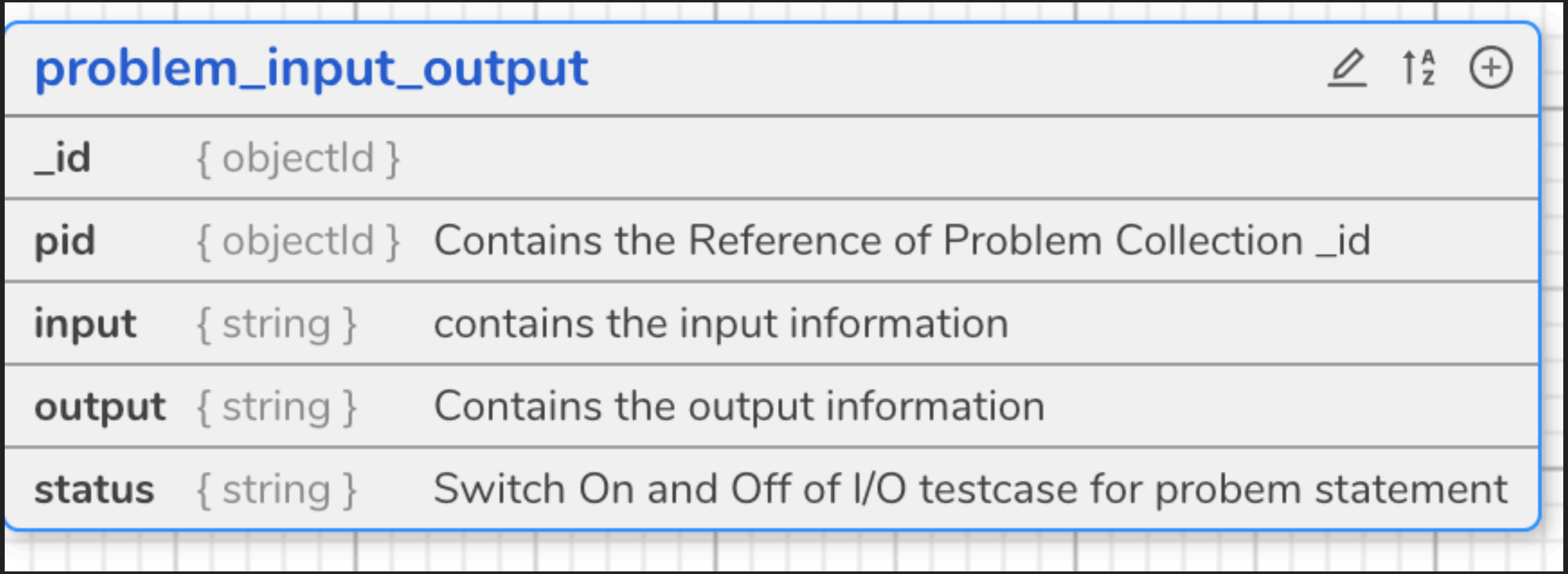
_id	{ objectId }	
question	{ string }	this contains the problem statement
level	{ string }	Level of the Problem (Easy - E, Medium M, Hard - H)
title	{ string }	Contains the title of the problem
companies	{ string }	Question Asked by Companies

SCORE MICROSERVICE SCORE-CRUD

Express

PROBLEM/QUESTION COLLECTION





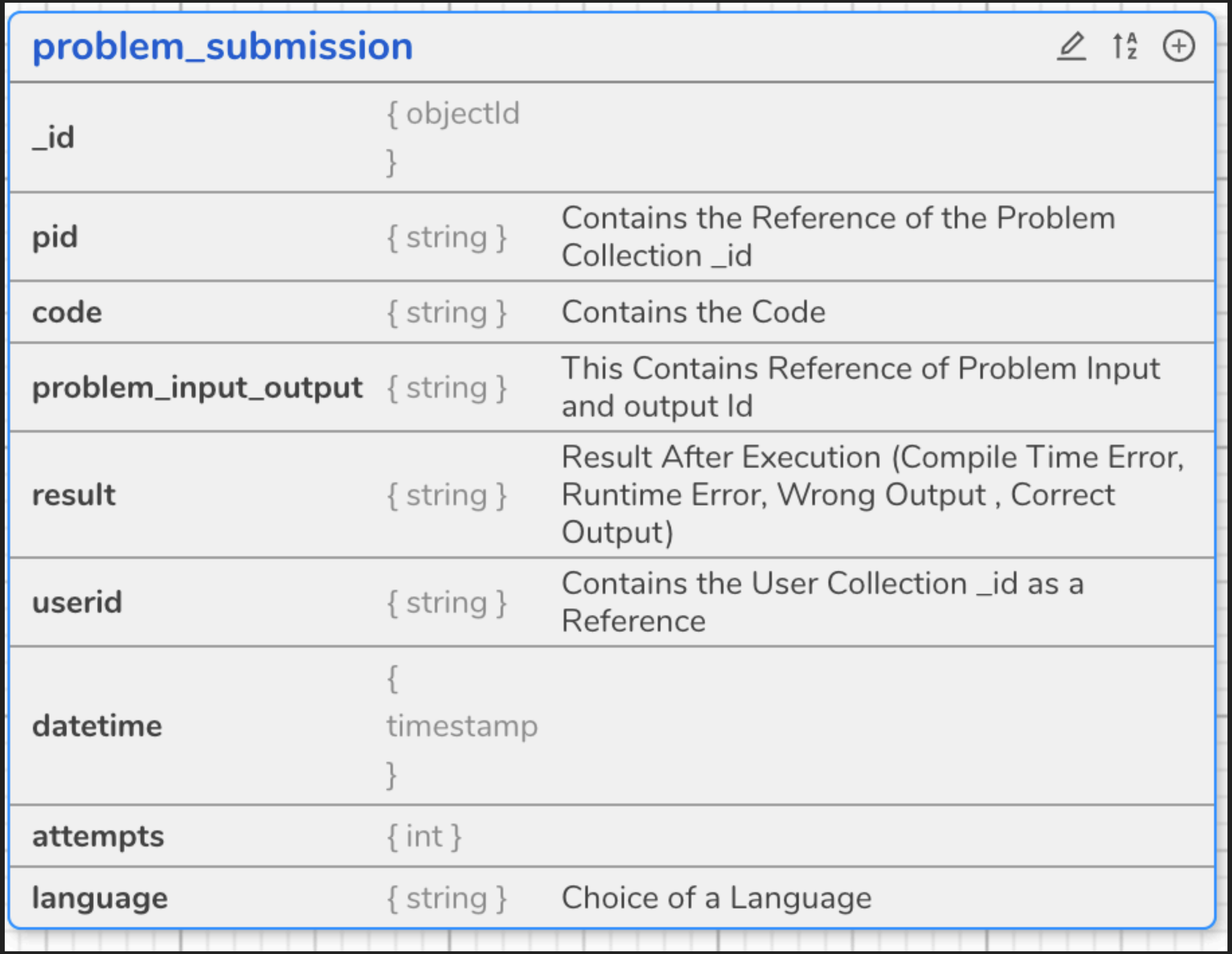
problem_input_output

_id	{ objectId }	
pid	{ objectId }	Contains the Reference of Problem Collection _id
input	{ string }	contains the input information
output	{ string }	Contains the output information
status	{ string }	Switch On and Off of I/O testcase for probem statement

Get the Problem/QuestionId from Problem MicroService , then add it problem input/output microservice

PROBLEM SUBMISSION MICROSERVICE

PROBLEM SUBMISSION MICROSERVICE WRITE/UPDATE/READ



problem_submission

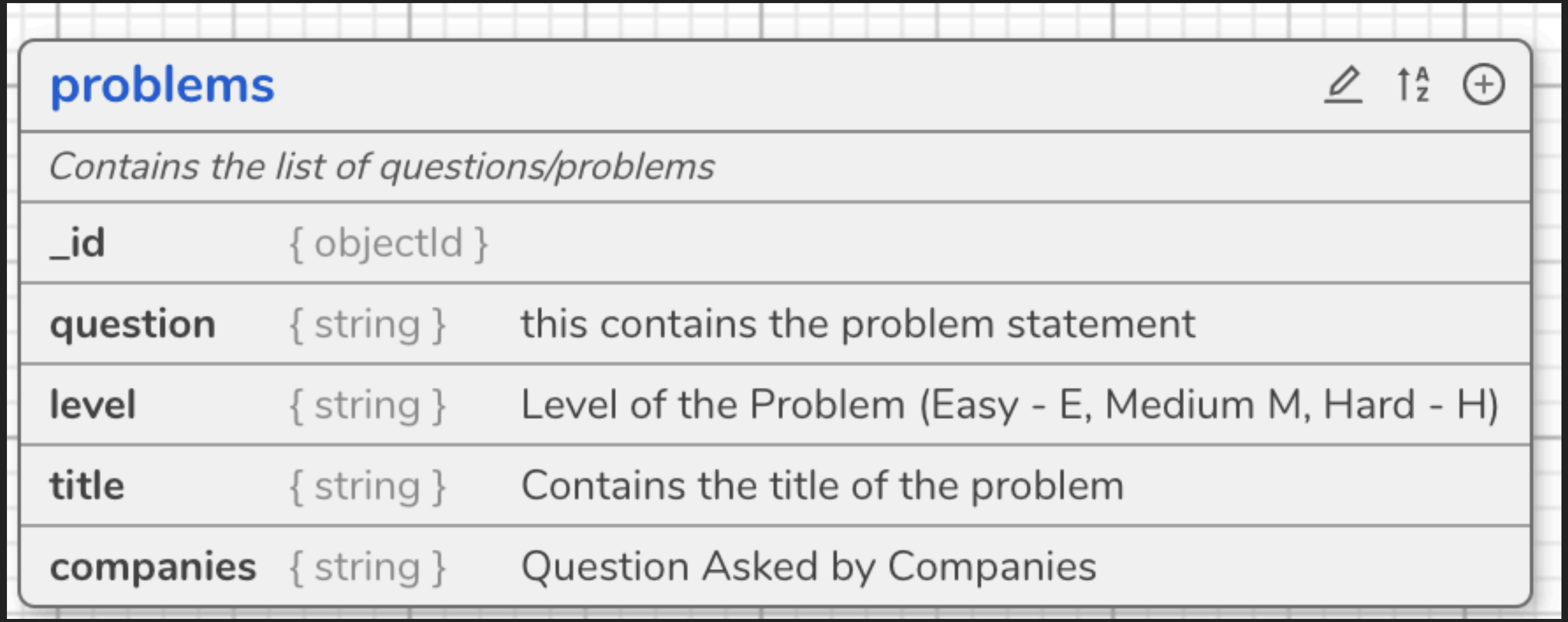
_id	{ objectId }	
pid	{ string }	Contains the Reference of the Problem Collection _id
code	{ string }	Contains the Code
problem_input_output	{ string }	This Contains Reference of Problem Input and output Id
result	{ string }	Result After Execution (Compile Time Error, Runtime Error, Wrong Output , Correct Output)
userid	{ string }	Contains the User Collection _id as a Reference
datetime	{ timestamp }	
attempts	{ int }	
language	{ string }	Choice of a Language

SCORE CARD LISTING OF A USER

SCORE CARD
MICROSERVICE
WRITE/UPDATE/READ

WAGON WHEEL

1. Easy
2. Medium
3. Hard
4. Total



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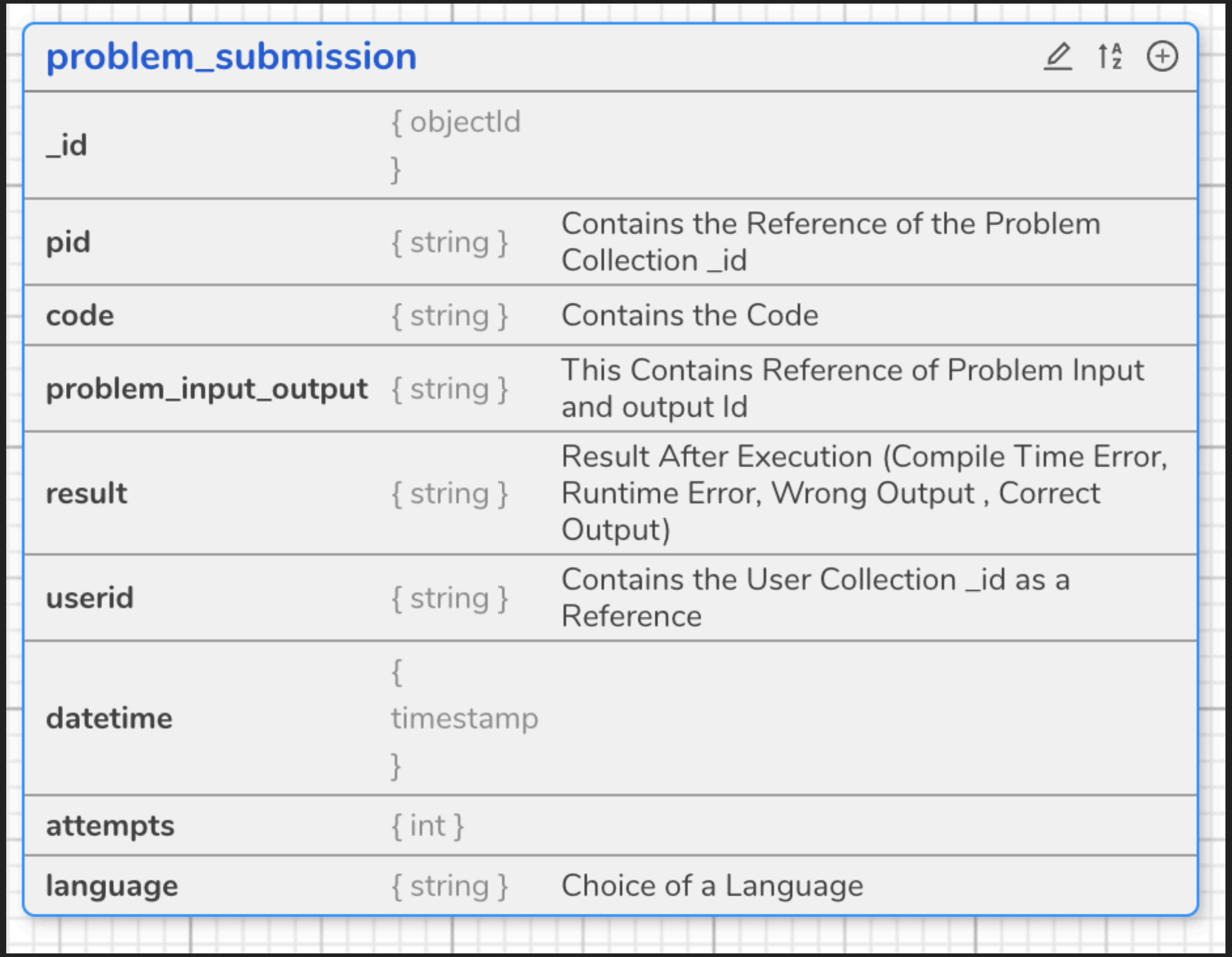

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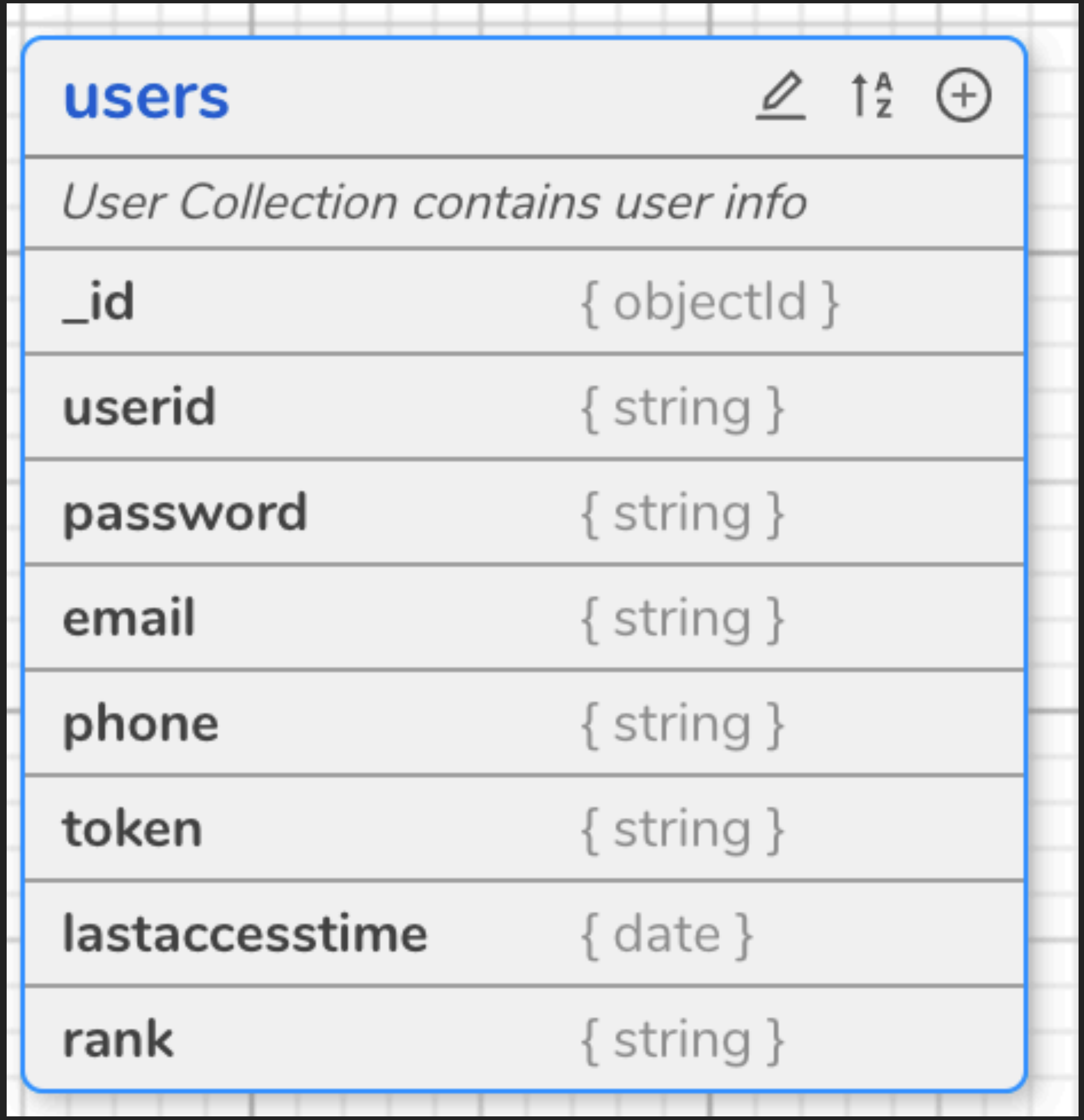
RANK OF A USER IN OUR PORTAL

USER RANK SERVICE

Rank of a User



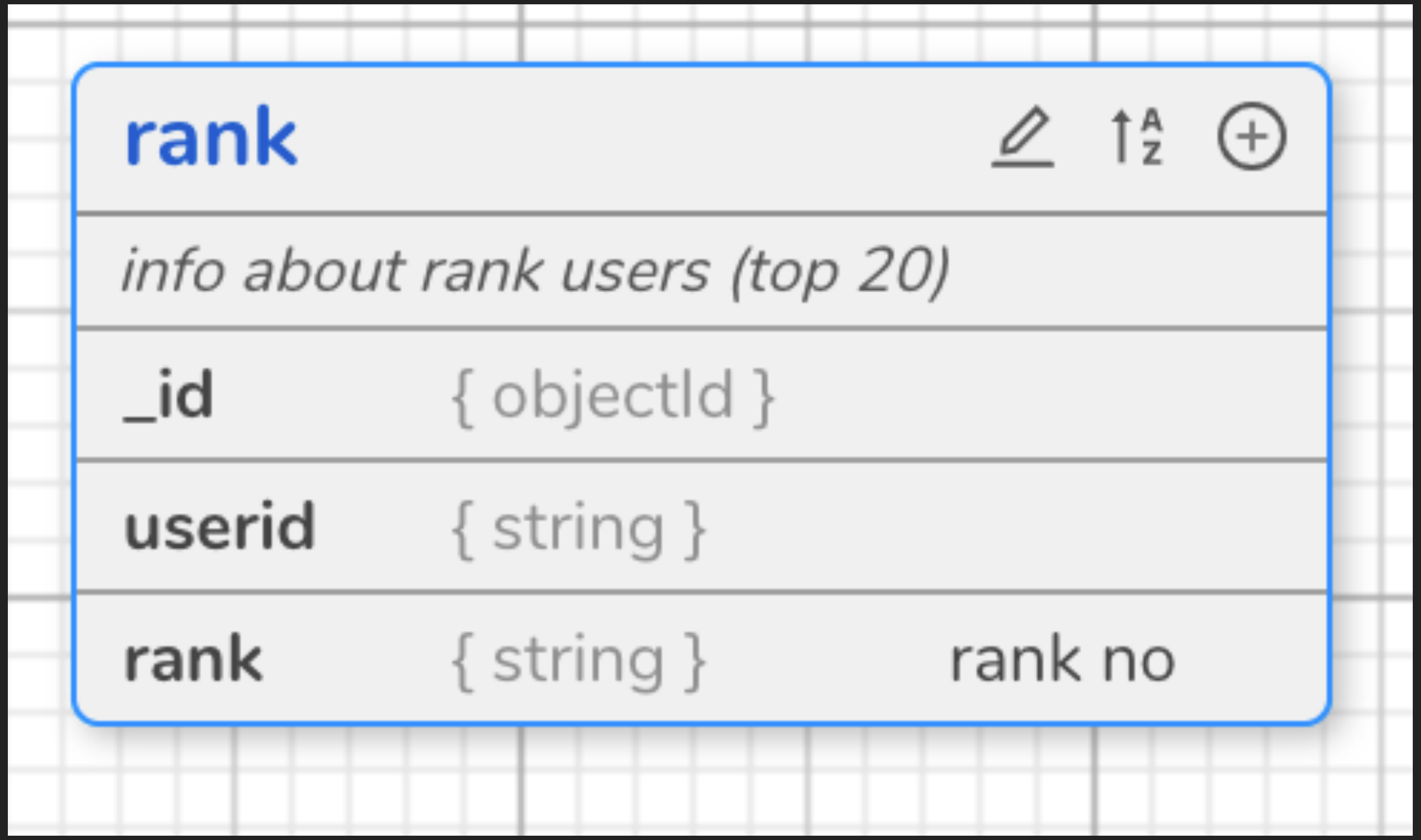
users

User Collection contains user info

_id	{ objectId }
userid	{ string }
password	{ string }
email	{ string }
phone	{ string }
token	{ string }
lastaccesstime	{ date }
rank	{ string }

TOP 20 RANKERS

ALL USER RANK
SERVICE



rank

info about rank users (top 20)

_id	{ objectId }	
userid	{ string }	
rank	{ string }	rank no