ONLINE CODE EDITOR

BRAIN MENTORS

HTTPS://WWW.BRAIN-MENTORS.COM

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

Verify

Password Reset



USER MICROSERVICE & TOKEN MICROSERVICE

Express PORT - 1234

Route

User login

User Register

Express

TOKEN GENERATE SERVICE (JWT)

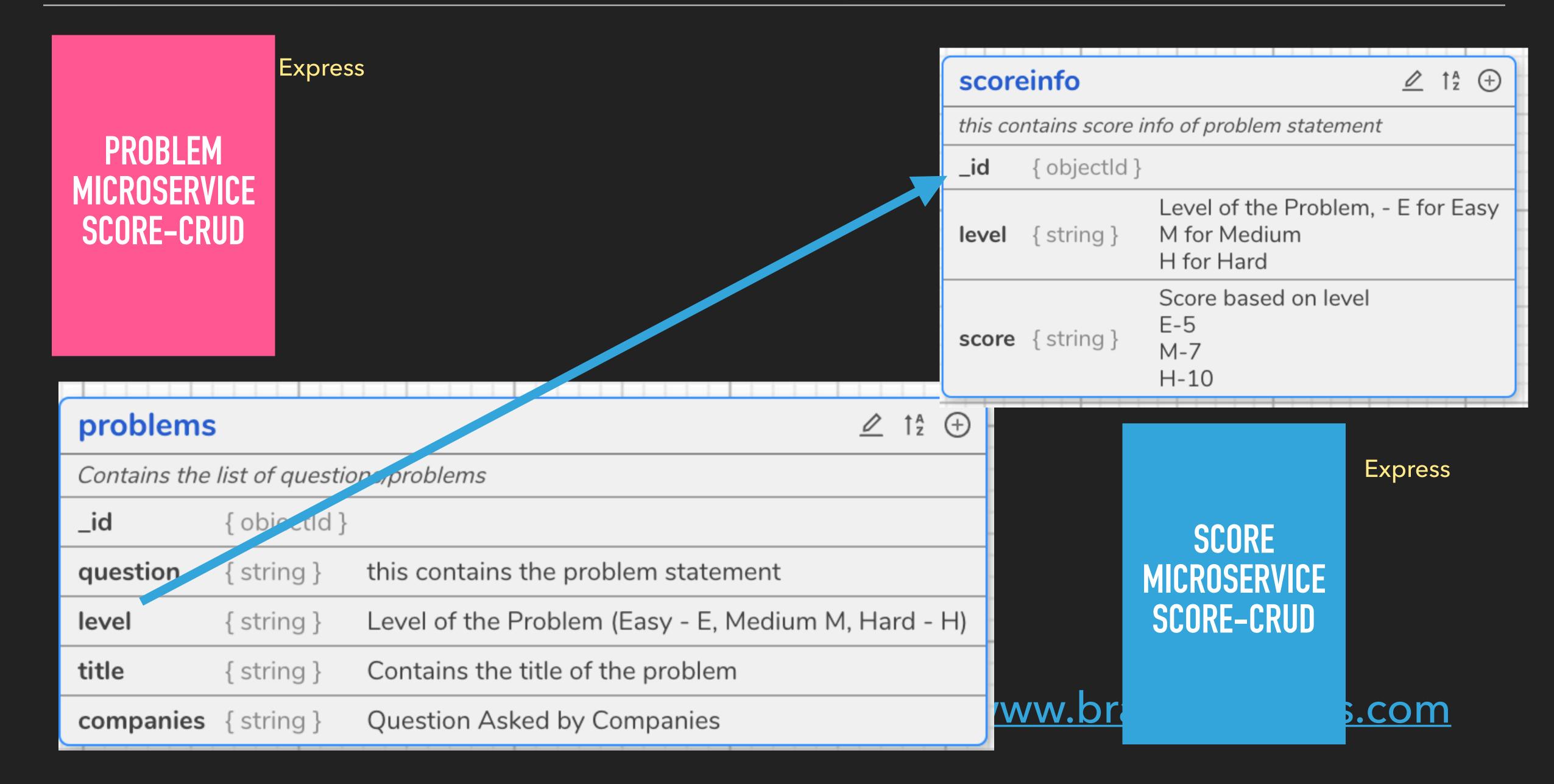
users		<u> </u>
User Collection co	ontains user info	
_id	{ objectId }	
userid	{ string }	
password	{ string }	
email	{ string }	
phone	{ string }	
token	{ string }	
lastaccesstime	{ date }	
rank	{ string }	
verified	{ string }	Is Email Verified (Y/N)
otp	{ string }	Email OTP
otptime	{ timestamp }	

Generate Token / Compare Token/ Remove Token/Expire

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After successful Login

BRAIN MENTOWSEW LIST OF PROBLEMS - PAGINATION



PROBLEM/QUESTION COLLECTION

PROBLEM I/O MICROSERVICE SCORE-CRUD

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/SUCCESS
SUBMISSION

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

```
    problem_success_submission
    ∠ ↑₂ ⊕

    _id
    { objectId }

    problem_submission_id
    { string }
    Problem Submission Id as a Reference Key

    userid
    { string }
```

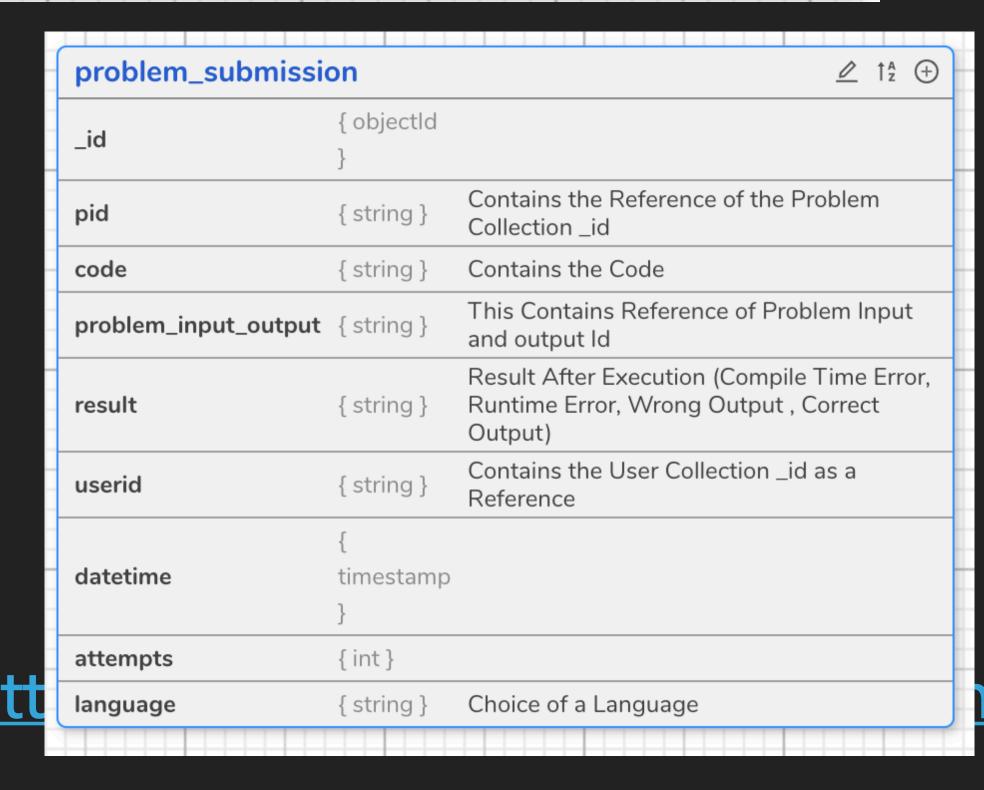
SCORE CARD LISTING OF A USER

SCORE CARD
MICROSERVICE
WRITE/UPDATE/READ

WAGON WHEEL

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

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		



SOLUTION SERVICE

SOLUTION SERVICE CRUD

```
solutions
Contains Solution of a Problem
           { objectId }
_id
           { objectId }
                      Join with Problem Collection
pid
                       Name of the Solution
           { string }
name
solution
                       Contains the Reference File Path , All Code
           { string }
language { string }
           { string }
                      A/D
status
           { string }
author
```

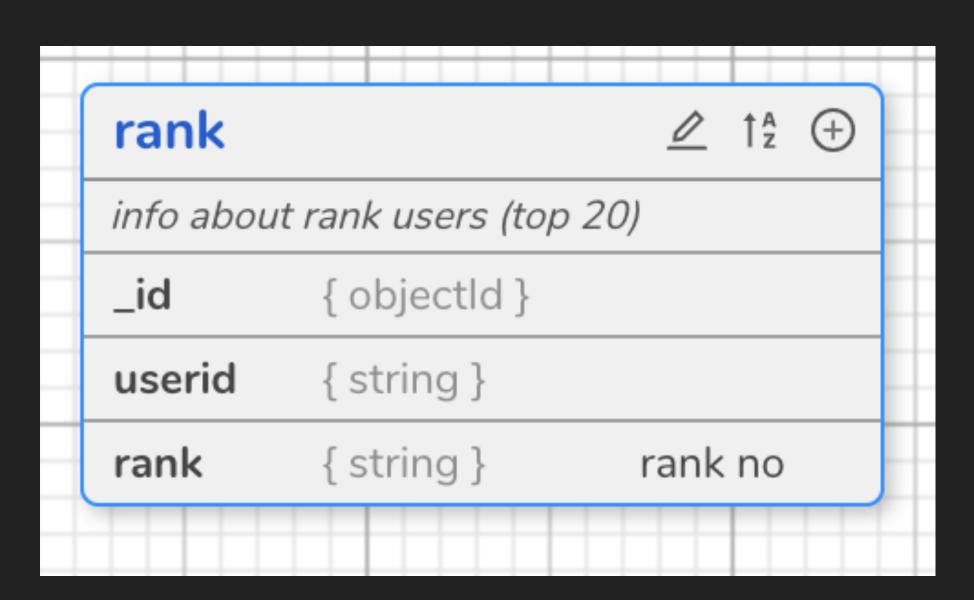
RANK OF A USER IN OUR PORTAL

USER RANK SERVICE Rank of a User

users User Collection contains user info { objectId } _id userid { string } password { string } { string } email { string } phone token { string } lastaccesstime { date } { string } rank

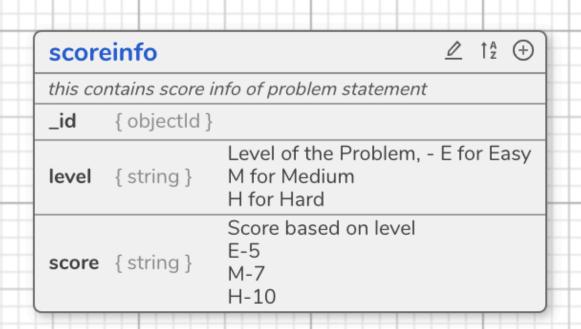
TOP 20 RANKERS

ALL USER RANK SERVICE



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_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	problems	5	↑A ↑
question{ string }this contains the problem statementlevel{ string }Level of the Problem (Easy - E, Medium M, Hard - H)title{ string }Contains the title of the problem	Contains the list of questions/problems		
level { string } Level of the Problem (Easy - E, Medium M, Hard - H) title { string } Contains the title of the problem	_id	{ objectId }	
title { string } Contains the title of the problem	question	{ string }	this contains the problem statement
the control of the co	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	companies	{ string }	Question Asked by Companies

probl	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	



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

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