softtech

Interview Project

Erhan HEPYAŞAR
Java Developer
0532 407 12 83
erhan.hepyasar@gmail.com
github.com/erhanhepyasar

Project Overview

Project Name: Personality Test

Github Link: https://github.com/erhanhepyasar/PersonalityTestBackEnd

Architecture:

Back-end and front-end parts are decoupled from each other as separate projects communicating over HTTP with Rest calls.

Back-End Project Technologies:

- Spring Boot (Spring Data JPA, H2 Database, Spring Web)
- Java8
- Maven
- JPA-Hibernate
- H2 in memory database
- Multi-layered architecture (Model, Repository, Service, Controller)
- Restful api's
- Swagger2 and Swagger UI for Dynamic API documentation

Application Properties

Application properties were set in **"src/main/resources/application.properties"** file.
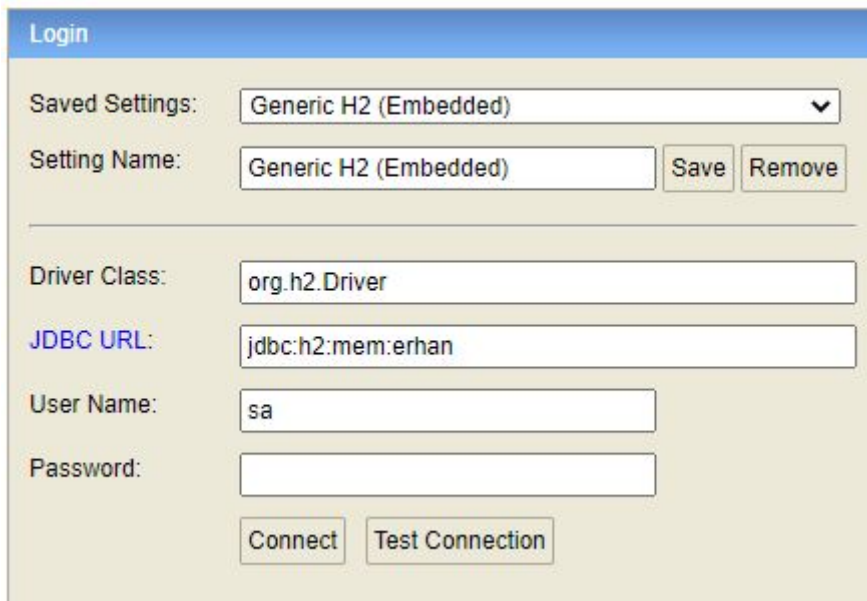Server Port number: 8085
Database: H2
Show beautified sql queries in console was set to true

H2 In-Memory Database

Data in **"personality_test.json"** are embedded in **"src/main/resources/data.sql"** file which fills H2 database automatically during application startup.

Conneciton Url for H2 Database:

http://localhost:8085/h2-console

Credentials of H2 Database

User Name: sa
Password: [blank]

Project Rest API's

Find All Categories:

http://localhost:8085/api/category/
Http method: GET

Find Category By Id:

http://localhost:8085/api/category/{id}
Http method: GET

Find All Questions:

http://localhost:8085/api/question

Http method: GET

Find Question By Id:

http://localhost:8085/api/question/{id}
Http method: GET

Delete Question By Id:

http://localhost:8085/question/{id}
Http method: DELETE

Find Question By Category Id:

http://localhost:8085/api/question/category/{id}
Http method: GET

Swagger UI for all URL's

http://localhost:8085/swagger-ui.html
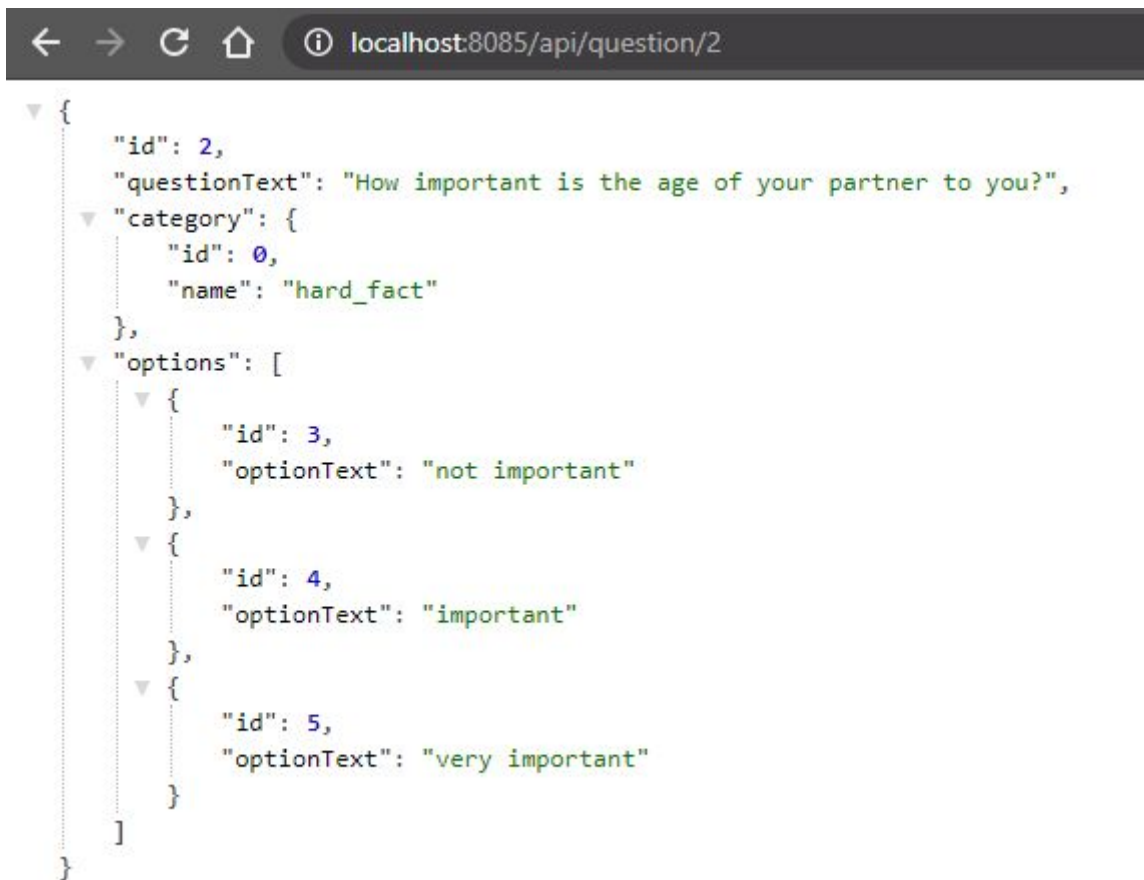
Sample Query Results From Chrome Browser:

```json
[
    {
        "id": 0,
        "name": "hard_fact"
    },
    {
        "id": 1,
        "name": "lifestyle"
    },
    {
        "id": 2,
        "name": "introversion"
    },
    {
        "id": 3,
        "name": "passion"
    }
]
```

```
[
    {
        "id": 0,
        "questionText": "What is your gender?",
        "category": {
            "id": 0,
            "name": "hard_fact"
        },
        "options": [
            {
                "id": 0,
                "optionText": "male"
            },
            {
                "id": 1,
                "optionText": "female"
            },
            {
                "id": 2,
                "optionText": "other"
            }
        ]
    },
    {
        "id": 1,
        "questionText": "How important is the gender of your partner?",
        "category": {
            "id": 0,
            "name": "hard_fact"
        },
        "options": [
            {
                "id": 3,
                "optionText": "not important"
            },
```

```
{
    "id": 2,
    "questionText": "How important is the age of your partner to you?",
    "category": {
        "id": 0,
        "name": "hard_fact"
    },
    "options": [
        {
            "id": 3,
            "optionText": "not important"
        },
        {
            "id": 4,
            "optionText": "important"
        },
        {
            "id": 5,
            "optionText": "very important"
        }
    ]
}
```

Sample Query Results From Postman:

GET ▼ | localhost:8085/api/category

Params Authorization Headers (6) Body Pre-request

Query Params

KEY	VALUE
Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON ▼ ⇥

```json
1  [
2      {
3          "id": 0,
4          "name": "hard_fact"
5      },
6      {
7          "id": 1,
8          "name": "lifestyle"
9      },
10     {
11         "id": 2,
12         "name": "introversion"
13     },
14     {
15         "id": 3
```

GET ▼ localhost:8085/api/question/category/2

Params Authorization Headers (6) Body Pre-request Script

Query Params

KEY	VALUE
Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON ▼ ⇄

```
 1  [
 2      {
 3          "id": 14,
 4          "questionText": "Do you enjoy spending time alone?",
 5          "category": {
 6              "id": 2,
 7              "name": "introversion"
 8          },
 9          "options": [
10              {
11                  "id": 42,
12                  "optionText": "most of the time"
13              },
14              {
15                  "id": 43,
16                  "optionText": "often"
```

DELETE ▼ localhost:8085/api/question/1

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body   Cookies   Headers (5)   Test Results   ⊕   Status: 200 OK

Pretty   Raw   Preview   Visualize   JSON ▼   ⇥

```json
 1  {
 2      "id": 1,
 3      "questionText": "How important is the gender of your partner?",
 4      "category": {
 5          "id": 0,
 6          "name": "hard_fact"
 7      },
 8      "options": [
 9          {
10              "id": 3,
11              "optionText": "not important"
12          },
13          {
14              "id": 4,
15              "optionText": "important"
16          }
```