

Establishing contracts between frontend and backend

Key terms

Frontend	Also known as the React PWA application.
Backend	This includes API and Database, and any layers in between
DB	Database

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Users

User object:

```
{
  id: integer
  name: string
  surname: string
  username: string
  email: string
  password: string
  currentLevel: integer
  joinDate: date
  xp: float
}
```

GET /users

Returns all users in the database.

URL Params

None

Data Params

None

Headers

Content-Type: application/json

Success Response

Code: 200

Contents

```
{
  users: [
    {<user_object>},
    {<user_object>},
    {<user_object>}
  ]
}
```

GET /user:id

Returns the specified user.

URL Params

Required: id=[integer]

Data Params

None

Headers

Content-Type: application/json

Authorization: Bearer <OAuth Token>

Success Response

Code: 200

Contents

```
{ <user_object> }
```

Error Response:

Code: 404

Content:

```
{ error : "User doesn't exist" }
```

OR

Code: 401

Content:

```
{ error : error : "You are unauthorized to make this request." }
```

GET /users/:id/achievements

Returns all achievements specific to a user.

URL Params

Required: id=[integer]

Data Params

None

Headers

Content-Type: application/json

Authorization: Bearer <OAuth Token>

Success Response

Code: 200

Content:

```
{
  achievements: [
    {<achievement_object>},
    {<achievement_object>},
    {<achievement_object>}
  ]
}
```

Error Response:

Code: 404

Content:

```
{ error : "User doesn't exist" }
```

OR

Code: 401

Content:

```
{ error : error : "You are unauthorized to make this request." }
```

POST /user/:id/xp

Updates the user's xp.

URL Params

Required: id=[integer]

Data Params

```
{  
  id: integer,  
  xp: float  
}
```

Headers

Content-Type: application/json

Authorization: Bearer <OAuth Token>

Success Response

Code: 200

Content:

```
{ <user_object> }
```

Error Response:

Code: 404

Content:

```
{ error : "User doesn't exist" }
```

OR

Code: 401

Content:

```
{ error : error : "You are unauthorized to make this request." }
```

Questions

Question object:

```
{
  Q_id: integer
  topic: string
  difficulty: string
  level: integer
  questionText: string
  xpGain: float
}
```

GET /questions

Gets all the questions from the database.

URL Params

None

Data Params

None

Headers

Content-Type: application/json

Success Response

Code: 200

Contents

```
{
  questions: [
    {<question_object>},
    {<question_object>},
    {<question_object>}
  ]
}
```


GET /question/:level

Gets all questions based on the input level.

URL Params

Required: level=[integer]

Data Params

None

Headers

Content-Type: application/json

Authorization: Bearer <OAuth Token>

Success Response

Code: 200

Contents

```
{
  questions: [
    {<question_object>},
    {<question_object>},
    {<question_object>}
  ]
}
```

Error Response:

Code: 404

Content:

```
{ error : "Level doesn't exist" }
```

OR

Code: 401

Content:

```
{ error : error : "You are unauthorized to make this request." }
```

GET /question/:id/answer

Gets the answer to a specific question.

URL Params

Required: Q_id=[integer]

Data Params

None

Headers

Content-Type: application/json

Authorization: Bearer <OAuth Token>

Success Response

Code: 200

Contents

```
{
  answer: [
    {<answer_object>},
  ]
}
```

Error Response:

Code: 404

Content:

```
{ error : "Question doesn't exist" }
```

OR

Code: 401

Content:

```
{ error : error : "You are unauthorized to make this request." }
```

GET /questions/topic

Returns all of the questions for that specific topic

URL Params

Required: topic="topic_tag"

Data Params

None

Headers

Content-Type: application/json

Success Response

Code: 200

Contents

```
{
  questions: [
    {<question_object>},
    {<question_object>},
    {<question_object>}
  ]
}
```

GET /questions/level/topic

Get all of the questions based on their level and their topic.

URL Params

Required: level=[integer]

Required: topic="topic_tag"

Headers

Content-Type: application/json

Data Params

```
{  
  answer: string  
}
```

Success Response

Code: 200

Contents

```
{  
  result: boolean  
}
```

POST /question/:id/answer

Send the question's answer through to be checked if correct.

URL Params

Required: Q_id=[integer]

Data Params

```
{
  question: [
    {<question_object>},
    {<question_object>},
    {<question_object>}
  ]
}
```

Headers

Content-Type: application/json

Success Response

Code: 200

Contents

```
{
  questions: [
    {<question_object>},
    {<question_object>},
    {<question_object>}
  ]
}
```