

# Assignment 5: API Spec

CS 493: Cloud Application Development

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URL: <https://personalityprofile.appspot.com>

USER LOGIN: <https://personalityprofile.appspot.com/users>

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## How to Login

- 1) Navigate to <https://personalityprofile.appspot.com/users> in web browser.
- 2) Sign in with Google account to retrieve your user\_id and id\_token for use with PUT, PATCH, POST, DELETE requests.

Note the *valid\_token* in Postman is the *id\_token*. The *seconduser\_token* should be created with a different Google account than the *valid\_token*.

## How Nonuser Entities are Modeled

My nonuser entities are questions and answers. Questions can have a many to many relationship with answers or no relationship with answers.

## How User Entity Is Modeled

- The user id, first name and last name is stored in users entity. One row per different user id.
- The Users unique identifier is the 'user\_id'; the value returned along with the Google JWT token from the /users authentication. This can be retrieved by signing in with Google using the /users endpoint.
- The application uses the ['sub'] value that is returned by the verifying the OAuth2 token as the user\_id.
- Users can create questions, answers and manage relationships between the answers and questions they created.
- Users can only edit, create or delete the questions, answers and relationships they have created. This value is represented/related by the 'created\_by' attribute in the questions/answers.

## Create a Question

Allows you to create a new question.

POST /questions
-----------------

Request

Request Headers

Content-Type: application/json

Accept: application/json

Request Parameters

None

Request Authorization

Bearer Token: valid JWT token

## Request Body

### Required

### Request Body Format

#### JSON

#### Request JSON Attributes

- Values cannot be more than 500 char/number in length
- Type must be either 1, 2 or 3.
- Text must be unique.

Name	Type	Restrictions	Description	Required?
text	String	< 500 must be String, unique	The text portion of the question.	Yes
date	String	< 500, must be String date format, example: "MM/DD/YYYY"	date the question was created.	Yes
type	Integer	< 500, must be integer	Type of question. Can be 1,2 or 3. 1: Factual, 2: Interpretive, 3. Evaluative	Yes

#### Request Body Example

<pre>{   "text": "What is your favorite animal from this list?",   "type": 3,   "date": "12/04/2019" }</pre>
--

## Response

### Response Body Format

#### JSON

#### Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	If the request is missing any of the 3 required attributes, greater than 500 in char or if the attributes are of incorrect type the question must not be created, and 400 status code must be returned.
Failure	403	Violation of text uniqueness requirement for text
Failure	406	Content-Type is not application/json
Failure	405	Method not supported
Failure	401	Unauthorized

#### Response Examples

- Datastore will automatically generate an ID and store it with the entity being created. This value needs to be sent in the response body as shown in the example.

- The `Google id`, associated with the JWT token used, will be stored in database as `created_by` attribute to identify the creator/owner of the question.
- The `self` attribute will contain the live link to the REST resource corresponding to this question. In other words, this is the URL to get this newly created question. This is not stored in database.
- The `answers` attribute will contain an array to answers that have been linked to this question. The value will be 'null' if no answers are linked to this question. No answers are linked to a question upon creation. This must be done through PUT method to `https://<your-app>/questions/<question id>/<answer id>` URL. This relationship is stored in database.

#### Success

Status: 201 Created

```
{
  "id": 123,
  "text": "What is your favorite animal from this list?",
  "type": 3,
  "date": "12/04/2019",
  "created_by": "<Google ID of User>",
  "self": "https://<your-app>/questions/123",
  "answers": "null"
}
```

#### Failure: did not specify response parameters as required.

Status: 400 Bad Request

```
{
  "Error": "The request object is missing at least one of the required attributes"
}
```

#### Failure: tried to create question that has duplicate text of an existing question

Status: 403

```
{
  "Error": "What is your favorite animal from this list? is duplicate to an existing value for question."
}
```

#### Failure: specified content-type as text/html

Status: 406 Not Acceptable

```
{
  "Error": "Content-Type text/html is not supported. Use application/json"
}
```

```
}
```

*Failure: specified Accept Header value as text/html*

Status: 406 Not Acceptable

```
{
  "Error": "Accept text/html is not supported. Use application/json"
}
```

*Failure*

Status: 405

```
{
  "Error": "PUT, PATCH or DELETE methods are not supported at the root of this URL."
}
```

## View a Question

Allows you to get an existing question

GET /questions/:question\_id

### Request

Request Headers

Content-Type: application/json

Accept: application/json

Request Authorization

None or

Bearer Token: valid JWT token

### Request Parameters

Name	Type	Description	Required?
question_id	String	ID of the question	Yes

### Request Body

None

### Response

Response Body Format

JSON

### Response Statuses

Outcome	Status Code	Notes
Success	200	OK
Failure	404	No question with this question_id exists
Failure	406	Not Accepted Content Type or Accept Header
Failure	404	Bad Request

## Response Examples

- The response will return regardless of whether the user is signed in with a JWT token.
- The `self` attribute will contain the live link to the REST resource corresponding to this question. In other words, this is the URL to get this newly created question. This is not stored in database.
- The `answers` attribute will contain an array to answers that have been linked to this question. The value will be 'null' if no answers are linked to this question.

### Success JSON

Status: 200 OK

```
{
  "answers": null,
  "created_by": "114009",
  "date": "12/03/2019",
  "id": 1234,
  "self": "https://personalityprofile.appspot.com/questions/1234",
  "text": "What is your favorite animal from this list? "
  "type": 3
}
```

### Failure

Status: 406 Not Acceptable

```
{
  "Error": "Accept text/html is not supported. Use application/json"
}
```

### Failure

Status: 404 Not Found

```
{
  "Error": "No question with this question_id exists"
}
```

### Failure

Status: 400 Bad Request

```
{
  "Error": "The request object is missing at least one of the required attributes"
}
```

## Delete a Question

Allows you to delete a question. Note that if an answer is linked to this question, deleting the question removes the relationship from the answer, but does not delete the answer.

<code>DELETE /questions/:question_id</code>
---

### Request

Request Parameters

None

Request Authorization

Bearer Token: valid JWT token that will create a user id that matches the user in the 'created\_by' attribute.

Request Body

None

### Response

No body

Response Body Format

Success: No body

Failure: JSON

### Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	404 Not Found	No question with this question_id exists
Failure	405 Method not Allowed	If trying to delete at the root question URL

### Response Examples

#### Success

Status: 204 No Content
------------------------

#### Failure

Status: 404 Not Found
<pre>{   "Error": "No question with this question_id exists" }</pre>

#### Failure

Status: 401 Not Authorized
<pre>{   "Error": "Unauthorized, Missing or Invalid JWT Token used." }</pre>

### Failure

Status: 405 Method Not Allowed

```
{
  "Error": "PUT, PATCH or DELETE methods are not supported at root of this URL."
}
```

## Edit an existing Question

Allows you to edit all the attributes of an existing question.

PUT /questions/:question\_id

### Request

#### Request Headers

Content-Type: application/json

Accept-Header: application/json

#### Request Authorization

Bearer Token: valid JWT token that will create a user id that matches the user in the 'created\_by' attribute.

#### Request Parameters

None

#### Request Body

Required

#### Request Body Format

JSON

- Values cannot be more than 500 char/number in length
- text must be unique
- Type must be either 1, 2 or 3

Name	Type	Restrictions	Description	Required?
text	String	< 500 must be String, unique	The text portion of the question.	Yes
date	String	< 500, must be String date format, example: "MM/DD/YYYY"	date the question was created.	Yes
type	Integer	< 500, must be integer	Type of question. Can be 1,2 or 3. 1: Factual, 2: Interpretive, 3. Evaluative	Yes



### Request Body Example

```
{
  "type": 2,
  "text": "You are totally exhausted because your week was endless and less than great. How are you going to spend your weekend?",
  "date": "12/09/2019"
}
```

### Response

#### Response Body Format

#### JSON

#### Response Statuses

Outcome	Status Code	Notes
Success	303	Edited
Failure	400 Bad Request	If the request is missing any of the 3 required attributes, greater than 500 in char or if the attributes are of incorrect type the question must not be created, and 400 status code must be returned.
Failure	403	Violation of text uniqueness requirement for text
Failure	406	Content-Type is not application/json
Failure	405	Method not supported
Failure	401	Unauthorized

### Response Examples

- The ID must be existing in the Datastore. This value needs to be sent in the request as shown in the example.
- The value of the attribute `self` is a live link to the REST resource.
- The `answers` attribute will contain an array to answers that have been linked to this question. The value will be 'null' if no answers are linked to this question.

### Success

```
Status: 303

{
  "text": "You are totally exhausted because your week was endless and less than great. How are you going to spend your weekend?",
  "type": 2,
  "date": "12/09/2019",
  "answers": null,
  "created_by": "114009",
  "id": 1234,
```

```
"self": "https://personalityprofile.appspot.com/questions/1234",
}
```

#### Failure

Status: 400 Bad Request

```
{
  "Error": "The request object is missing at least one of the required attributes"
}
```

#### Failure: tried to create question that has duplicate text of an existing question

Status: 403

```
{
  "Error": " \"You are totally exhausted because your week was endless and less than great. How are you going to spend your weekend?\" is duplicate to an existing value for question."
}
```

#### Failure:

Status: 406 Not Acceptable

```
{
  "Error": "Content-Type text/html is not supported. Use application/json"
}
```

#### Failure:

Status: 406 Not Acceptable

```
{
  "Error": "Accept text/html is not supported. Use application/json"
}
```

#### Failure

Status: 405

```
{
  "Error": "PUT, PATCH or DELETE methods are not supported at the root of this URL."
}
```

## Edit part of an existing Question

Allows you to edit one or multiple attributes of an existing question.

PATCH /questions/:question\_id

#### Request

Request Headers

Content-Type: application/json

Accept: application/json

### Request Authorization

Bearer Token: valid JWT token that will create a user id that matches the user in the 'created\_by' attribute.

### Request Parameters

None

### Request Body

Required, must have at least 1 attribute to edit

### Request Body Format

JSON

- Values cannot be more than 500 char/number in length
- text must be unique
- Type must be either 1, 2 or 3

Name	Type	Restrictions	Description	Required?
text	String	< 500 must be String, unique	The text portion of the question.	No
date	String	< 500, must be String date format, example: "MM/DD/YYYY"	date the question was created.	No
type	Integer	< 500, must be integer	Type of question. Can be 1,2 or 3. 1: Factual, 2: Interpretive, 3. Evaluative	No

### Request Body Example

```
{  
  "text": "You are fully rested because your week was perfect and everything went  
great. How are you going to spend your weekend?"  
}
```

### Response

### Response Body Format

JSON

### Response Statuses

Outcome	Status Code	Notes
Success	303	Edited
Failure	400 Bad Request	If the request is missing any of the 3 required attributes, greater than 500 in char or if the attributes are of incorrect type the question must not be created, and 400 status code must be returned.
Failure	403	Violation of text uniqueness requirement for text
Failure	406	Content-Type is not application/json
Failure	405	Method not supported
Failure	401	Unauthorized

### Response Examples

- The ID must be existing in the Datastore. This value needs to be sent in the request as shown in the example.
- The value of the attribute `self` is a live link to the REST resource.
- The `answers` attribute will contain an array to answers that have been linked to this question. The value will be 'null' if no answers are linked to this question.

### Success

Status: 303

```
{
  "text": "You are fully rested because your week was perfect and everything went great. How are you going to spend your weekend?",
  "type": 2,
  "date": "12/09/2019",
  "answers": null,
  "created_by": "114009",
  "id": 1234,
  "self": "https://personalityprofile.appspot.com/questions/1234",
}
```

### Failure

Status: 400 Bad Request

```
{
  "Error": "The request object is missing at least one of the required attributes"
}
```

### Failure: *tried to create question that has duplicate text of an existing question*

Status: 403

```
{
  "Error": " \"You are fully rested because your week was perfect and everything went great. How are you going to spend your weekend?\" is duplicate to an existing value for question."
}
```

### Failure:

Status: 406 Not Acceptable

```
{
  "Error": "Content-Type text/html is not supported. Use application/json"
}
```

### Failure

Status: 405

```
{
  "Error": "PUT, PATCH or DELETE methods are not supported at the root of this URL."
}
```

## Create an Answer

Allows you to create a new answer.

POST /answers

### Request

#### Request Headers

Content-Type: application/json

Accept: application/json

#### Request Parameters

None

#### Request Authorization

Bearer Token: valid JWT token

#### Request Body

Required

#### Request Body Format

JSON

#### Request JSON Attributes

- Values cannot be more than 500 char/number in length
- score must be positive integer.
- Text must be unique.

Name	Type	Restrictions	Description	Required?
text	String	< 500 must be String, unique	The text portion of the question.	Yes
date	String	< 500, must be String date format, example: "MM/DD/YYYY"	date the question was created.	Yes
score	Integer	< 500, must be integer	A way to add value to the answer.	Yes

### Request Body Example

```
{
  "text": "What is your favorite animal from this list?",
  "score": 10,
  "date": "12/04/2019"
}
```

## Response

### Response Body Format

#### JSON

### Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	If the request is missing any of the 3 required attributes, greater than 500 in char or if the attributes are of incorrect type the answer must not be created, and 400 status code must be returned.
Failure	403	Violation of text uniqueness requirement for text
Failure	406	Content-Type is not application/json
Failure	405	Method not supported
Failure	401	Unauthorized

### Response Examples

- Datastore will automatically generate an ID and store it with the entity being created. This value needs to be sent in the response body as shown in the example.
- The Google id, associated with the JWT token used, will be stored in database as `created_by` attribute to identify the creator/owner of the answer.
- The `self` attribute will contain the live link to the REST resource corresponding to this answer. In other words, this is the URL to get this newly created answer. This is not stored in database.
- The `questions` attribute will contain an array to questions that have been linked to this answer. The value will be 'null' if no questions are linked to this answer. No questions are linked to an answer upon creation. This must be done through PUT method to `https://<your-app>/questions/<question id>/<answer id>` URL. This relationship is stored in database.

### Success

Status: 201 Created
<pre>{   "id": 123,   "text": "Elephant",   "score": 10,   "date": "12/04/2019",   "created_by": "&lt;Google ID of User&gt;",   "self": "https://&lt;your-app&gt;/answers/123",   "questions": "null" }</pre>

```
}
```

*Failure: did not specify response parameters as required.*

Status: 400 Bad Request

```
{
  "Error": "The request object is missing at least one of the required attributes"
}
```

*Failure: tried to create answer that has duplicate text of an existing answer*

Status: 403

```
{
  "Error": "Elephant is duplicate to an existing value for answer."
}
```

*Failure: specified content-type as text/html*

Status: 406 Not Acceptable

```
{
  "Error": "Content-Type text/html is not supported. Use application/json"
}
```

*Failure: specified Accept Header value as text/html*

Status: 406 Not Acceptable

```
{
  "Error": "Accept text/html is not supported. Use application/json"
}
```

*Failure*

Status: 405

```
{
  "Error": "PUT, PATCH or DELETE methods are not supported at the root of this URL."
}
```

## View an Answer

Allows you to get an existing answer

GET /answers/:answer\_id

### Request

Request Headers

Content-Type: application/json

Accept: application/json

Request Authorization

None or

Bearer Token: valid JWT token

Request Parameters

Name	Type	Description	Required?
answer_id	String	ID of the answer	Yes

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200	OK
Failure	404	No answer with this answer_id exists
Failure	406	Not Accepted Content Type or Accept Header
Failure	404	Bad Request

Response Examples

- The response will return regardless of whether the user is signed in with a JWT token.
- The `self` attribute will contain the live link to the REST resource corresponding to this answer.
- The `questions` attribute will contain an array to questions that have been linked to this answer. The value will be 'null' if no questions are linked to this answer.

*Success JSON*

Status: 200 OK

```
{
  "questions": [
    {
      "id": 5679,
      "self": "https://personalityprofile.appspot.com/questions/5679"
    },
    {
      "id": 5644,
      "self": "https://personalityprofile.appspot.com/questions/5644"
    }
  ],
  "created_by": "114009",
```



```
"date": "12/03/2019",
"id": 1234,
"self": "https://personalityprofile.appspot.com/answers/1234",
"text": "Elephant"
"score": 10
}
```

#### Failure

```
Status: 406 Not Acceptable
{
  "Error": "Accept text/html is not supported. Use application/json"
}
```

#### Failure

```
Status: 404 Not Found

{
  "Error": "No answer with this answer_id exists"
}
```

#### Failure

```
Status: 400 Bad Request

{
  "Error": "The request object is missing at least one of the required attributes"
}
```

## Delete an Answer

Allows you to delete an answer. Note that if an question is linked to this answer, deleting the answer removes the relationship from the question, but does not delete the question.

```
DELETE /answers/:answer_id
```

#### Request

Request Parameters

None

Request Authorization

Bearer Token: valid JWT token that will create a user id that matches the user in the 'created\_by' attribute.

Request Body

None

Response

No body

## Response Body Format

Success: No body

Failure: JSON

## Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	404 Not Found	No answer with this answer_id exists
Failure	405 Method not Allowed	If trying to delete at the root answer URL

## Response Examples

### Success

Status: 204 No Content
------------------------

### Failure

Status: 404 Not Found
<pre>{   "Error": "No answer with this answer_id exists" }</pre>

### Failure

Status: 401 Not Authorized
<pre>{   "Error": "Unauthorized, Missing or Invalid JWT Token used." }</pre>

### Failure

Status: 405 Method Not Allowed
<pre>{   "Error": "PUT, PATCH or DELETE methods are not supported at root of this URL." }</pre>

## Edit an existing Answer

Allows you to edit all the attributes of an existing answers.

PUT /answers/:answer_id
-------------------------

## Request

### Request Headers

Content-Type: application/json

Accept-Header: application/json

## Request Authorization

Bearer Token: valid JWT token that will create a user id that matches the user in the 'created\_by' attribute.

## Request Parameters

None

## Request Body

Required

## Request Body Format

JSON

- Values cannot be more than 500 char/number in length
- text must be unique
- Score must be a positive integer value

Name	Type	Restrictions	Description	Required?
text	String	< 500 must be String, unique	The text portion of the question.	Yes
date	String	< 500, must be String date format, example: "MM/DD/YYYY"	date the answer was created.	Yes
score	Integer	< 500, must be integer	way to put value to the answer	Yes

## Request Body Example

```
{  
  "score": 10,  
  "text": "Tiger"  
  "date": "12/09/2019"  
}
```

## Response

## Response Body Format

JSON

## Response Statuses

Outcome	Status Code	Notes
Success	303	Edited
Failure	400 Bad Request	If the request is missing any of the 3 required attributes, greater than 500 in char or if the attributes are of incorrect type the answer must not be created, and 400 status code must be returned.
Failure	403	Violation of text uniqueness requirement for text
Failure	406	Content-Type is not application/json
Failure	405	Method not supported
Failure	401	Unauthorized

### Response Examples

- The ID must be existing in the Datastore. This value needs to be sent in the request as shown in the example.
- The value of the attribute `self` is a live link to the REST resource.
- The `questions` attribute will contain an array to answers that have been linked to this question. The value will be 'null' if no questions are linked to this answer.

### Success

Status: 303

```
{
  "text": "Tiger"
  "score": 10,
  "date": "12/09/2019",
  "questions": null,
  "created_by": "114009",
  "id": 1234,
  "self": "https://personalityprofile.appspot.com/answers/1234",
}
```

### Failure

Status: 400 Bad Request

```
{
  "Error": "The request object is missing at least one of the required attributes"
}
```

### Failure: *tried to create question that has duplicate text of an existing answer*

Status: 403

```
{
  "Error": "Tiger is duplicate to an existing value for answer."
}
```

### Failure:

Status: 406 Not Acceptable

```
{
  "Error": "Content-Type text/html is not supported. Use application/json"
}
```

### Failure:

Status: 406 Not Acceptable

```
{
```

```
"Error": "Accept text/html is not supported. Use application/json"
}
```

#### Failure

Status: 405

```
{
  "Error": "PUT, PATCH or DELETE methods are not supported at the root of this URL."
}
```

#### Failure

Status: 401 Not Authorized

```
{
  "Error": "Unauthorized, Missing or Invalid JWT Token used."
}
```

## Edit part of an existing Answer

Allows you to edit one or multiple attributes of an existing answer.

```
PATCH /answers/:answer_id
```

#### Request

##### Request Headers

Content-Type: application/json

Accept: application/json

##### Request Authorization

Bearer Token: valid JWT token that will create a user id that matches the user in the 'created\_by' attribute.

##### Request Parameters

None

##### Request Body

Required, must have at least 1 attribute to edit

##### Request Body Format

JSON

- Values cannot be more than 500 char/number in length
- text must be unique
- score must integer

Name	Type	Restrictions	Description	Required?
text	String	< 500 must be String, unique	The text portion of the answer.	No
date	String	< 500,	date the answer was created.	No

		must be String date format, example: "MM/DD/YYYY"		
score	Integer	< 500, must be integer	way to associate a value to answer	No

#### Request Body Example

```
{
  "text": "Walrus"
}
```

#### Response

##### Response Body Format

##### JSON

##### Response Statuses

Outcome	Status Code	Notes
Success	303	Edited
Failure	400 Bad Request	If the request is missing any of the 3 required attributes, greater than 500 in char or if the attributes are of incorrect type the answer must not be created, and 400 status code must be returned.
Failure	403	Violation of text uniqueness requirement for text
Failure	406	Content-Type is not application/json
Failure	405	Method not supported
Failure	401	Unauthorized

#### Response Examples

- The ID must be existing in the Datastore. This value needs to be sent in the request as shown in the example.
- The value of the attribute `self` is a live link to the REST resource.
- The `questions` attribute will contain an array to questions that have been linked to this answer. The value will be 'null' if no questions are linked to this answer.

#### Success

```
Status: 303

{
  "text": "Walrus"
  "score": 10,
  "date": "12/09/2019",
  "answers": null,
  "created_by": "114009",
}
```

```
"id": 1234,  
"self": "https://personalityprofile.appspot.com/answers/1234",  
}
```

#### *Failure*

Status: 400 Bad Request

```
{  
"Error": "The request object is missing at least one of the required attributes"  
}
```

#### *Failure: tried to create question that has duplicate text of an existing answer*

Status: 403

```
{  
"Error": "Walrus is duplicate to an existing value for answer."  
}
```

#### *Failure:*

Status: 406 Not Acceptable

```
{  
"Error": "Content-Type text/html is not supported. Use application/json"  
}
```

#### *Failure*

Status: 405

```
{  
"Error": "PUT, PATCH or DELETE methods are not supported at the root of this URL."  
}
```

#### *Failure*

Status: 401 Not Authorized

```
{  
  "Error": "Unauthorized, Missing or Invalid JWT Token used."  
}
```

## View all items for a User

Allows you to get all answers and questions created by a particular user

GET /users/:user\_id

## Request

### Request Parameters

Name	Type	Description	Required?
user_id	String	ID of the user	Yes

### Request Body

None

### Request Headers

Content-Type: application/json

Accept: application/json

### Request Authorization

Bearer Token: valid JWT token that will create a user id that matches a user in the database. This will return items that have the 'created\_by' attribute matching this user's id.

## Response

### Response Body Format

JSON

### Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	404 Not Found	No user with this user_id exists
Failure	406	Content-Type or Accept is not application/json
Failure	401	Unauthorized

### Response Examples

- The `questions` and `answers` attributes will be null if there are no items of this type for the specified `user_id`.
- The `self` attribute will contain the live link to the REST resource corresponding to the question or answer.

### Success

Status: 200 OK
<pre>{   "answers": [     {       "created_by": "11400",       "date": "12/03/2019",       "id": 5177,       "self": "https://personalityprofile.appspot.com/answers/51773",       "text": "I'll call my friends to ask about their plans. I heard that a new restaurant opened / a nice comedy is playing in the cinemas / there are big discounts at the paintball club. We should all go out together. ",       "score": 10     }   ] }</pre>



```
    ],
    "questions": [
      {
        "created_by": "11400",
        "date": "12/03/2019",
        "id": 5634,
        "self": "https://personalityprofile.appspot.com/questions/5634",
        "text": "You are totally exhausted because your week was endless and less than great. How are you going to spend your weekend?",
        "type": 1
      }
    ]
  }
}
```

#### Failure

Status: 404 Not Found

```
{
  "Error": "No user with this user_id exists"
}
```

#### Failure:

Status: 406 Not Acceptable

```
{
  "Error": "Content-Type text/html is not supported. Use application/json"
}
```

#### Failure

Status: 401 Not Authorized

```
{
  "Error": "Unauthorized, Missing or Invalid JWT Token used."
}
```

## View all Questions

List all the questions.

By default REST API limits of display of results to 5 questions per page. If more than 5 results are still available, the page will provide a next link displaying the next page URL. This URL can be used to navigate to the next page to view up to the next 5 results.

GET /questions

#### Request

Request Parameters

Request Headers

Content-Type: application/json

Accept: application/json

Request Authorization

None or

Bearer Token: valid JWT token

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	406	Content-Type or Accept is not application/json

Response Examples

- The `next` attribute contains a live link to the next page for this REST resource which will display the next page of questions. Each page is limited to 5 questions. The `next` attribute will display, unless there are no more pages of results (ie, the last page of results will not have a 'next' link).
- The `answers` attribute is an array containing answers or null if no answers associated. The `answers` attribute does not have pagination available.
- The `number` attribute contains the number of the total available questions.
- The `self` attribute will contain the live link to the REST resource.

*Success: There are more than 5 answers available. Link will be provided to next page.*

Status: 200 OK

```
{
  "next": "https://<app_url>/questions?pages=2",
  "number": 7,
  "results": [
    {
      "answers": null,
      "created_by": "1140",
      "date": "12/03/2019",
      "id": 5634,
      "self": "https://personalityprofile.appspot.com/questions/5634",
      "text": "You are totally exhausted because your week was endless and less than great. How are you going to spend your weekend?",
      "type": 1
    },
    {
      "answers": null,
```

```

        "created_by": "1140",
        "date": "12/03/2019",
        "id": 5644,
        "self": "https://personalityprofile.appspot.com/questions/5644",
        "text": "What is your favorite Color?",
        "type": 1
    },
    {
        "answers": null,
        "created_by": "1140",
        "date": "12/03/2019",
        "id": 5677,
        "self": "https://personalityprofile.appspot.com/questions/5677",
        "text": "What is the date today",
        "type": 1
    },
    {
        "answers": null,
        "created_by": "11400",
        "date": "12/03/2019",
        "id": 5679,
        "self": "https://personalityprofile.appspot.com/questions/5679",
        "text": "Where are your knees?",
        "type": 1
    },
    {
        "answers": null,
        "created_by": "11400",
        "date": "12/03/2019",
        "id": 57013,
        "self": "https://personalityprofile.appspot.com/questions/57013",
        "text": "What is your favorite sport?",
        "type": 2
    }
]
}

```

*Success: There are 5 or less answers available.*

```

Status: 200 OK
{ #Does not display next page link because there are only 2 questions available
{
    "number": 2,
    "results": [
        {
            "answers": [
                {
                    "id": 5177,
                    "self": "https://answers/5177"
                }
            ],
            "created_by": "1140",
            "date": "12/03/2019",
            "id": 5634,
            "self": "https://personalityprofile.appspot.com/questions/5634",

```

```

        "text": "You are totally exhausted because your week was endless and
less than great. How are you going to spend your weekend?",
        "type": 1
    },
    {
        "answers": null,
        "created_by": "1140",
        "date": "12/03/2019",
        "id": 5644,
        "self": "https://personalityprofile.appspot.com/questions/5644",
        "text": "What is your favorite Color?",
        "type": 1
    }
]
}

```

#### Failure:

Status: 406 Not Acceptable

```

{
  "Error": "Content-Type text/html is not supported. Use application/json"
}

```

## View all Answers

List all the answers.

By default REST API limits of display of results to 5 answers per page. If more than 5 results are still available, the page will provide a next link displaying the next page URL. This URL can be used to navigate to the next page to view up to the next 5 results.

GET /answers

### Request

Request Parameters

Request Headers

Content-Type: application/json

Accept: application/json

Request Authorization

None or

Bearer Token: valid JWT token

Request Body

None

### Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	406	Content-Type or Accept is not application/json

## Response Examples

- The `next` attribute contains a live link to the next page for this REST resource which will display the next page of answers. Each page is limited to 5 answers. The `next` attribute will display, unless there are no more pages of results (ie, the last page of results will not have a 'next' link).
- The `questions` attribute is an array containing questions or null if no questions associated. The `questions` attribute does not have pagination available.
- The `number` attribute contains the number of the total available questions.
- The `self` attribute will contain the live link to the REST resource it is associated with.

*Success: There are more than 5 answers available. Link will be provided to next page.*

Status: 200 OK

```
{
  "next": "https://personalityprofile.appspot.com/answers?pages=2",
  "number": 6,
  "results": [
    {
      "created_by": "1140",
      "date": "12/03/2019",
      "id": 5071,
      "questions": null,
      "self": "https://personalityprofile.appspot.com/answers/5071",
      "text": "Tiger",
      "type": 1
    },
    {
      "created_by": "1140",
      "date": "12/03/2019",
      "id": 5116,
      "questions": null,
      "self": "https://personalityprofile.appspot.com/answers/5116",
      "text": "Blue",
      "type": 1
    },
    {
      "created_by": "1140",
      "date": "12/03/2019",
      "id": 5177,
      "questions": [
        {
          "id": 5679,
          "self": "https://questions/5679"
        },
        {

```

```

        "id": 5644,
        "self": "https://questions/5644"
    },
    {
        "self": "https://personalityprofile.appspot.com/answers/5177",
        "text": "I'll call my friends to ask about their plans. I heard that a
new restaurant opened / a nice comedy is playing in the cinemas / there are big
discounts at the paintball club. We should all go out together. ",
        "type": 1
    },
    {
        {
            "created_by": "1140",
            "date": "12/03/2019",
            "id": 5647,
            "questions": null,
            "self": "https://personalityprofile.appspot.com/answers/5647",
            "text": "What is chocolate",
            "type": 1
        },
        {
            "created_by": "1140",
            "date": "12/03/2019",
            "id": 5651,
            "questions": null,
            "self": "https://personalityprofile.appspot.com/answers/5651",
            "text": "Elephant",
            "type": 1
        }
    }
]
}

```

*Success: There are 5 or less questions available.*

```

Status: 200 OK
{ #Does not display next page link because there are only 1 question available
{
    "number": 1,
    "results": [
        {
            "created_by": "1140",
            "date": "12/03/2019",
            "id": 5177,
            "questions": [
                {
                    "id": 5679,
                    "self": "https://questions/5679"
                },
                {
                    "id": 5644,
                    "self": "https://questions/5644"
                }
            ],
            "self": "https://personalityprofile.appspot.com/answers/5177",

```

```

      "text": "I'll call my friends to ask about their plans. I heard that a
new restaurant opened / a nice comedy is playing in the cinemas / there are big
discounts at the paintball club. We should all go out together. ",
      "type": 1
    }
  ]
}

```

#### Failure:

Status: 406 Not Acceptable

```

{
  "Error": "Content-Type text/html is not supported. Use application/json"
}

```

## Managing Question/Answer Links: Add Answer Association to Question

Adds an answer association to a question.

PUT /questions/:question\_id/:answer\_id

#### Request

##### Request Parameters

Name	Type	Description	Required?
question_id	String	ID of the question	Yes
answer_id	String	ID of the answer	Yes

#### Request Body

None

Note: You will need to set Content-Length to 0 in your request when calling out to this endpoint.

#### Response

No body

##### Response Body Format

Success: No body

Failure: JSON

##### Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	Succeeds only if a question exists with this question_id and answer with answer_id exists The user must have created both
Failure	403 Forbidden	The answer is already assigned to this question.
Failure	404 Not Found	No answer with this answer_id is at the question with this question_id.
Failure	401	Unauthorized. The user must have created both answer and question

## Response Examples

### Success

Status: 204 No Content

### Failure

Status: 403 Forbidden

```
{
  "Error": "This answer is assigned to this question"
}
```

### Failure

Status: 404 Not Found

```
{
  "Error": "The specified question and/or answer doesn't exist"
}
```

### Failure

Status: 401 Not Authorized

```
{
  "Error": "Unauthorized, Missing or Invalid JWT Token used."
}
```

## Managing Question/Answer Links: Remove Answer Association to Question

Removes an answer association to a question.

DELETE /questions/:question\_id/:answer\_id

### Request

#### Request Parameters

Name	Type	Description	Required?
question_id	String	ID of the question	Yes
answer_id	String	ID of the answer	Yes

#### Request Body

None

### Response

No body

#### Response Body Format

Success: No body

Failure: JSON

#### Response Statuses

Outcome	Status Code	Notes
---------	-------------	-------



Success	204 No Content	Succeeds only if a question exists with this question_id and answer with answer_id exists The user must have created both
Failure	403 Forbidden	The answer is already assigned to is question.
Failure	404 Not Found	No answer with this answer_id is at the question with this question_id.
Failure	401	Unauthorized. The user must have created association

#### Response Examples

##### *Success*

Status: 204 No Content
------------------------

##### *Failure*

Status: 403 Forbidden  <pre>{   "Error": "This answer does not have an existing relationship with question" }</pre>
---

##### *Failure*

Status: 404 Not Found  <pre>{   "Error": "The specified question and/or answer doesn't exist" }</pre>
---

##### *Failure*

Status: 401 Not Authorized  <pre>{   "Error": "Unauthorized, Missing or Invalid JWT Token used." }</pre>
--