

ONBOARD PROJECT DOCUMENTATION

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I. API Documentation

1. Default error response:

- For each error response, the default form would be like this:

Name	Type	Description
message	String	The general name for the error
description	String	The detail of the error

- An error response example:

```
{  
  "description": "Item with this id doesn't exist.",  
  "message": "Not Found."  
}
```

2. Authentication

a. POST

/auth

Allow client to authenticate by using email and password.

REQUEST

- **Parameters:** No content
- **Header:**

Key	Value
Content-Type	application/json

- **Body:**

Name	Type	Description	Example
email	String	Email of the user	admin@admin.com
password	String	Password of the user	123456

SUCCESSFUL RESPONSE

- **HTTP code: 200 OK**
- **Headers:**

Key	Value
Content-Type	application/json

- **Response example:**

```
{
  "access_token":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiJlNzEyODAxMTEsIm5iZiI6MTUzMTI4MDExMSwianRpIjoiMzU3YWJjNTYtNjRjOC00MzAzLWE3YmMtMDIxNmNmYWVhYmI4IiwiaXNwIjoxNTcxMjg5MDExLCJpZGVudGl0eSI6MSwiZnJlc2giOmZhbnNlLCJ0eXB1IjoiYWVWYWNjZXNzIn0.M_r1meDSt_jpSW3SPjI5kVwyCQmgPKoBoPM-59NYJVU",
  "id": 1
}
```

ERROR RESPONSES

- Validation Error (400): If email/ password of the body doesn't pass the validation test.
- Not Found (404): If client try to login with an unregistered email.

3. Category

a. GET

/categories

Allow client to get all categories with pagination.

REQUEST

- Parameters:

Name	Type	Description	Example	Default
page	Int	The page of categories that client wants to get	1	1
size	Int	Number of categories each page has	5	5

- Header:

Key	Value
Content-Type	application/json

- Body: No content

SUCCESSFUL RESPONSE

- HTTP code: 200 OK
- Headers:

Key	Value
Content-Type	application/json

- Response example:

```
{
  "current_page": 1,
  "data": [
    {
      "created": "2019-10-17T09:42:04",
      "creator_id": 1,
      "description": "Minecraft stuffs...",
      "id": 1,
      "title": "Minecraft",
      "updated": "2019-10-17T09:42:04"
    },
    {
      "created": "2019-10-17T09:42:24",
      "creator_id": 1,
      "description": "Seafood stuffs...",
      "id": 2,
      "title": "Seafood",
      "updated": "2019-10-17T09:42:24"
    }
  ],
  "per_page": 5,
  "total": 2
}
```

ERROR RESPONSES

b. GET

/categories/:id

Allow client to get category by id.

REQUEST

- Parameters:

Name	Type	Description	Example
id	Int	Identifier of the category that the client wants to get	1

- Header:

Key	Value
Content-Type	application/json

- Body: No content

SUCCESSFUL RESPONSE

- HTTP code: 200 OK
- Headers:

Key	Value
Content-Type	application/json

- Response example:

```
{
  "data": {
    "created": "2019-10-17T09:42:04",
    "creator_id": 1,
    "description": "Minecraft stuffs...",
    "id": 1,
    "title": "Minecraft",
    "updated": "2019-10-17T09:42:04"
  }
}
```

ERROR RESPONSES

- Not Found (404): If client tries to get a category that doesn't exist.

c. GET

/categories/:id/items

Allow client to get all items of the category with id with pagination.

REQUEST

- Parameters:

Name	Type	Description	Example	Default
id	Int	Identifier of the category in which that the client wants to get all items	1	requires
page	Int	Page of the category's items client queries	1	1
size	Int	Number of category's items client wants to get	5	5

- Header:

Key	Value
Content-Type	application/json

- Body: No content

SUCCESSFUL RESPONSE

- HTTP code: 200 OK
- Headers:

Key	Value
Content-Type	application/json

- Response example:

```
{
  "current_page": 1,
  "data": [
    {
      "created": "2019-10-17T09:49:51",
      "creator_id": 1,
      "description": "Very shiny...",
      "id": 1,
      "title": "Minecraft Light Block",
      "updated": "2019-10-17T09:49:51"
    },
    {
      "created": "2019-10-17T09:49:54",
      "creator_id": 1,
      "description": "Very shiny...",
      "id": 2,
      "title": "Minecraft Lamp Block",
      "updated": "2019-10-17T09:49:54"
    }
  ],
  "per_page": 5,
  "total": 2
}
```

ERROR RESPONSES

- Not Found (404): If client tries to get a category that doesn't exist.

d. POST

/categories

Allow client to create a category.

REQUEST

- **Parameters:** No content
- **Header:**

Key	Value
Content-Type	application/json
Authorization	Bearer <code>jwt_token</code>

- **Body:**

Name	Type	Description	Example
<code>title</code>	String	Title of the category	Minecraft
<code>description</code>	String	Description of the category	Minecraft stuffs

SUCCESSFUL RESPONSE

- HTTP code: 200 OK
- Headers:

Key	Value
Content-Type	application/json

- Response example:

```
{  
  "id": 2  
}
```

ERROR RESPONSES

- Validation Error (400): If title/description doesn't pass the validation test.
- Unauthorized (401): If client hasn't logged in yet.
- Duplicate Entity (404): If client tries to create a category with the title that has already used by another category.

e. PUT

/categories/:id

Allow client to update a category.

REQUEST

- Parameters:

Name	Type	Description	Example
id	Int	Identifier of the category that the client wants to update	2

- Header:

Key	Value
Content-Type	application/json
Authorization	Bearer jwt_token

- Body:

Name	Type	Description	Example
title	String	Title of the category	Minecraft
description	String	Description of the category	Minecraft stuffs

SUCCESSFUL RESPONSE

- HTTP code: 200 OK
- Headers:

Key	Value
Content-Type	application/json

- Response example:

```
{  
  "id": 2  
}
```

ERROR RESPONSES

- Validation Error (400): If title/description doesn't pass the validation test.
- Duplicated Entity (400): If a category with the title has already existed.
- Unauthorized (401): If client hasn't logged in yet.
- Forbidden (403): If client tries to update another user's category.
- Not Found (404): If client tries to update a category that doesn't exist.

f. DELETE

/categories/:id

Allow client to delete a category, all the items that belong to this category will be deleted also.

REQUEST

- Parameters:

Name	Type	Description	Example
id	Int	Identifier of the category that the client wants to delete	1

- Header:

Key	Value
Content-Type	application/json
Authorization	Bearer jwt_token

- Body: No content

SUCCESSFUL RESPONSE

- HTTP code: 204 No Content

- Headers:

Key	Value
Content-Type	application/json

ERROR RESPONSES

- Unauthorized (401): If client hasn't logged in yet.
- Forbidden (403): If client tries to delete another user's category.
- Not Found (404): If client tries to delete a category that doesn't exist.

4. Item

a. GET

/items

Allow client to get all categories with pagination.

REQUEST

- Parameters:

Name	Type	Description	Example	Default
page	Int	The page of items that client wants to get	1	1
size	Int	Number of items each page has	5	5

- Header:

Key	Value
Content-Type	application/json

- Body: No content

SUCCESSFUL RESPONSE

- HTTP code: 200 OK
- Headers:

Key	Value
Content-Type	application/json

- Response example:

```
{
  "current_page": 1,
  "data": [
    {
      "category": {
        "id": 1,
        "title": "Minecraft",
      },
      "created": "2019-10-17T09:49:51",
      "creator_id": 1,
      "description": "Very shiny...",
      "id": 1,
      "title": "Minecraft Light Block",
      "updated": "2019-10-17T09:49:51"
    },
    {
      "category": {
        "id": 1,
        "title": "Minecraft",
      },
      "created": "2019-10-17T09:49:54",
      "creator_id": 1,
      "description": "Very shiny...",
      "id": 2,
      "title": "Minecraft Lamp Block",
      "updated": "2019-10-17T09:49:54"
    }
  ],
  "per_page": 5,
  "total": 2
}
```

ERROR RESPONSES

b. GET

/items/:id

Allow client to get category by id.

REQUEST

- Parameters:

Name	Type	Description	Example
id	Int	Identifier of the category that the client wants to get	2

- Header:

Key	Value
Content-Type	application/json

- Body: No content

SUCCESSFUL RESPONSE

- HTTP code: 200 OK
- Headers:

Key	Value
Content-Type	application/json

- Response example:

```
{
  "data": {
    "category": {
      "id": 1,
      "title": "Minecraft",
    },
    "created": "2019-10-17T09:49:54",
    "creator_id": 1,
    "description": "Very shiny...",
    "id": 2,
    "title": "Minecraft Lamp Block",
    "updated": "2019-10-17T09:49:54"
  }
}
```

ERROR RESPONSES

- Not Found (404): If client tries to get an item that doesn't exist.

c. POST

/items

Allow client to create an item.

REQUEST

- **Parameters:** No content
- **Header:**

Key	Value
Content-Type	application/json
Authorization	Bearer jwt_token

- **Body:**

Name	Type	Description	Example
title	String	Title of the item	Minecraft Sword
description	String	Description of the item	Yeah awesome...
category_id	Int	Identifier of the category that this item will belong to	1

SUCCESSFUL RESPONSE

- **HTTP code: 200 OK**
- **Headers:**

Key	Value
Content-Type	application/json

- **Response example:**

```
{  
  "id": 2  
}
```

ERROR RESPONSES

- Validation Error (400): If title/description/category_id doesn't pass the validation test.
- Duplicate Entity (400): If client tries to create an item with the title that has already used by another item.
- Unauthorized (401): If client hasn't logged in yet.
- Not Found (404): If the category with that category_id doesn't exist.

d. PUT

/items/:id

Allow client to update a category.

REQUEST

- Parameters:

Name	Type	Description	Example
id	Int	Identifier of the item that the client wants to update	1

- Header:

Key	Value
Content-Type	application/json
Authorization	Bearer jwt_token

- Body:

Name	Type	Description	Example
title	String	Title of the item	Minecraft Swordy
description	String	Description of the item	Minecraft is dug

SUCCESSFUL RESPONSE

- HTTP code: 200 OK
- Headers:

Key	Value
Content-Type	application/json

- Response example:

```
{  
  "id": 2  
}
```

ERROR RESPONSES

- Validation Error (400): If title/description/category_id doesn't pass the validation test.
- Duplicated Entity (400): If a category with the title has already existed.
- Unauthorized (401): If client hasn't logged in yet.
- Forbidden (403): If client tries to update another user's item.
- Not Found (404): If the item with that id doesn't exist or the category having category_id doesn't exist.

e. DELETE

/items/:id

Allow client to delete a category.

REQUEST

- Parameters:

Name	Type	Description	Example
id	Int	Identifier of the item that the client wants to delete	1

- Header:

Key	Value
Content-Type	application/json
Authorization	Bearer jwt_token

- Body: No content

SUCCESSFUL RESPONSE

- HTTP code: 204 No Content

- Headers:

Key	Value
Content-Type	application/json

ERROR RESPONSES

- Unauthorized (401): If client hasn't logged in yet.
- Forbidden (403): If client tries to delete another user's item.
- Not Found (404): If client tries to delete an item that doesn't exist.

5. User

a. GET

/users/:id

Allow login-ed client to see their user information.

REQUEST

- Parameters:

Name	Type	Description	Example
id	Int	Identifier of the client's user	1

- Header:

Key	Value
Content-Type	application/json
Authorization	Bearer jwt_token

- Body: No content

SUCCESSFUL RESPONSE

- HTTP code: 200 OK
- Headers:

Key	Value
Content-Type	application/json

- Response example:

```
{
  "data": {
    "created": "2019-10-15T08:46:45",
    "email": "admin@gmail.com",
    "id": "1",
    "updated": "2019-10-15T08:46:45"
  }
}
```

ERROR RESPONSES

- Unauthorized (401): If client hasn't logged in yet.
- Forbidden (403): If client tries to see other user's profile.

b. POST

/users

Allow client to register.

REQUEST

- **Parameters:** No content
- **Header:**

Key	Value
Content-Type	application/json

- **Body:**

Name	Type	Description	Example
email	String	Email of the user	admin@admin.com
password	String	Password of the user	123456

SUCCESSFUL RESPONSE

- **HTTP code: 200 OK**
- **Headers:**

Key	Value
Content-Type	application/json

- **Response example:**

```

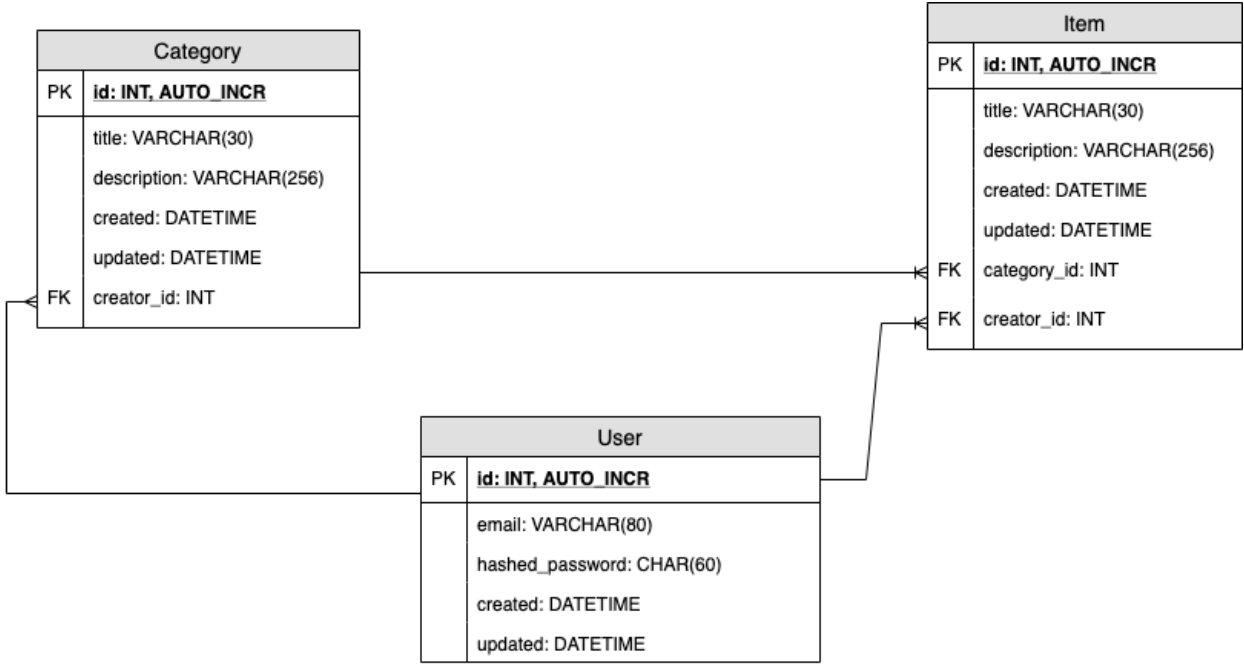
{{
  "access_token":
    "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiJlNzEyODAxMTESIm5iZiI6MTU3MTI4MDExMSwianRpIjoiMzU3YWJjNTYtNjRjOC00MzAzLWE3YmMtMDIxNmNmYWVhYmI4IiwiaXNjaXoxNTcxMjg5MDExLCJpZGVudGl0eSI6MSwiZnJlc2giOmZhbnNlLCJ0eXB1IjoiYWVWNjZXRzIn0.M_rlmeDSt_jpSW3SPjI5kVwyCQmgPKoBoPM-59NYJVU",
  "id": 1
}}

```

ERROR RESPONSES

- Validation Error (400): If email/password doesn't pass the validation test.
- Duplicate Entity (404): If client tries to create a user with the email that has already used by another user.

II. Entity Relationship Diagram



III. Folder Structure

