

# MTAA Application API (v1)

Download OpenAPI specification:

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For access to any endpoints, the user first needs to authenticate. Create a user with /auth/register endpoint, and afterwards use the /auth/login to get a bearer token, which should be copied into the Authorize modal window accessible just to the right below this text.

## transaction-controller

### Retrieves Transaction by ID

Queries the database for a transaction object based on ID from the user input.

AUTHORIZATIONS: > *bearerAuth*

PATH PARAMETERS

---

id required	integer <int64>
----------------	-----------------

---

### Responses

- **200** Retrieved successfully.
- **403** User is not permitted to access this endpoint.
- **404** Transaction with this id was not found.
- **500** Internal server error

GET /transactions/{id}

# Updates a Transaction

Updates and saves a Transaction object in the database.

AUTHORIZATIONS: > *bearerAuth*

PATH PARAMETERS

id required	integer <int64>
----------------	-----------------

REQUEST BODY SCHEMA: application/json

user_id required	integer <int64>
label required	string
amount required	number <double>
time required	string <date-time>
transaction_type required	string Enum: "EXPENSE" "INCOME" Transaction Type - ENUM values
category_id	integer <int64>
budget_id	integer <int64>
location_id	integer <int64>
frequency required	string Enum: "DEFAULT" "UPCOMING" "SUBSCRIPTION" Frequency Type - ENUM values
note	string
filename	string

currency\_code  
required

string

Enum: "BGN" "BRL" "CAD" "CHF" "CNY" "CZK" "DKK" "EUR" "GBP" "HKD" "HRK" "HUF" "IDR" "ILS" "INR" "ISK" "JPY" "KRW" "MXN" "MYR" "NOK" "NZD" "PHP" "PLN" "RON" "RUB" "SEK" "SGD" "THB" "TRY" "USD" "ZAR"

Currency code

Responses

- 200 Updated successfully
- 403 User is not permitted to access this endpoint.
- 404 Transaction with this id was not found.
- 500 Internal server error

PUT /transactions/{id}

Request samples

Payload

Content type  
application/json

Copy

```
{
  "user_id": 0,
  "label": "string",
  "amount": 0,
  "time": "2019-08-24T14:15:22Z",
  "transaction_type": "EXPENSE",
  "category_id": 0,
  "budget_id": 0,
  "location_id": 0,
  "frequency": "DEFAULT",
  "note": "string",
  "filename": "string",
```

```
"currency_code": "BGN"  
}
```

---

## Deletes a Transaction

Deletes a Transaction object in the database.

AUTHORIZATIONS: > *bearerAuth*

PATH PARAMETERS

---

id	integer <int64>
required	

---

## Responses

- **200** Deleted successfully.
- **403** User is not permitted to access this endpoint.
- **404** Transaction with this id was not found.
- **500** Internal server error

DELETE    /transactions/{id}

---

## Retrieves all Transaction objects.

Queries the database for a complete list of all existing Transaction objects.

AUTHORIZATIONS: > *bearerAuth*

# Responses

- 200 Retrieved successfully.
- 403 User is not permitted to access this endpoint.
- 500 Internal server error

GET /transactions

## Creates a Transaction

Creates and saves a new Transaction object into the database.

AUTHORIZATIONS: > *bearerAuth*

REQUEST BODY SCHEMA: application/json

user_id required	integer <int64>
label required	string
amount required	number <double>
time required	string <date-time>
transaction_type required	string Enum: "EXPENSE" "INCOME" Transaction Type - ENUM values
category_id	integer <int64>
budget_id	integer <int64>
location_id	integer <int64>
frequency required	string Enum: "DEFAULT" "UPCOMING" "SUBSCRIPTION"

Frequency Type - ENUM values

note

string

filename

string

currency\_code  
*required*

string

Enum:

"BGN"	"BRL"	"CAD"	"CHF"	"CNY"	"CZK"	"DKK"	"EUR"
"GBP"	"HKD"	"HRK"	"HUF"	"IDR"	"ILS"	"INR"	"ISK"
"JPY"	"KRW"	"MXN"	"MYR"	"NOK"	"NZD"	"PHP"	"PLN"
"RON"	"RUB"	"SEK"	"SGD"	"THB"	"TRY"	"USD"	"ZAR"

Currency code

Responses

- 200 Created successfully
- 403 User is not permitted to access this endpoint.
- 500 Internal server error

POST /transactions

Request samples

Payload

Content type  
application/json

Copy

```
{
  "user_id": 0,
  "label": "string",
  "amount": 0,
  "time": "2019-08-24T14:15:22Z",
  "transaction_type": "EXPENSE",
  "category_id": 0,
  "budget_id": 0,
  "location_id": 0,
```

```
"frequency": "DEFAULT",  
"note": "string",  
"filename": "string",  
"currency_code": "BGN"  
}
```

---

## Retrieves all expenses made this week.

Queries the database for a all Transaction object based on their date being in a weeks interval from today.

AUTHORIZATIONS: > *bearerAuth*

### Responses

— **200** Retrieved successfully.

— **403** User is not permitted to access this endpoint.

— **500** Internal server error

GET /transactions/expenses/week

---

## Retrieves all expenses made today.

Queries the database for a all Transaction object based on their date being in a days interval from today.

AUTHORIZATIONS: > *bearerAuth*

### Responses

— **200** Retrieved successfully.

— **403** User is not permitted to access this endpoint.

— **500** Internal server error

GET /transactions/expenses/today

---

## Retrieves all expenses made this month.

Queries the database for a all Transaction object based on their date being in a days interval from today.

AUTHORIZATIONS: > *bearerAuth*

## Responses

— **200** Retrieved successfully.

— **403** User is not permitted to access this endpoint.

— **500** Internal server error

GET /transactions/expenses/month

---

## Retrieves Transaction by ID of the budget the transaction is attached to.



Queries the database for a budget object based on budget ID from the user input.

AUTHORIZATIONS: > *bearerAuth*

PATH PARAMETERS

---

budgetId <i>required</i>	integer <int64>
-----------------------------	-----------------

---

## Responses

— **200** Retrieved successfully.

— **403** User is not permitted to access this endpoint.

— **404** Budget with this id was not found.

— **500** Internal server error

GET    /transactions/budget/{budgetId}

---

## category-controller

### Retrieves a category by ID.

Queries the databse for a Category object based on ID from the user input.

AUTHORIZATIONS: > *bearerAuth*

PATH PARAMETERS

---

id required	integer <int64>
----------------	-----------------

---

## Responses

- **200** Retrieved successfully
- **403** User is not permitted to access this endpoint.
- **404** Category with this id was not found.
- **500** Internal server error

GET /category/{id}

---

## Updates a category

Updates and saves a Category object in the database.

AUTHORIZATIONS: > *bearerAuth*

### PATH PARAMETERS

---

id required	integer <int64>
----------------	-----------------

---

### QUERY PARAMETERS

---

category > required	object (CategoryDTO)
------------------------	----------------------

---

## Responses

- **200** Updated successfully

- **403** User is not permitted to access this endpoint.
- **404** Category with this id was not found.
- **500** Internal server error

PUT /category/{id}

---

## Deletes a category

Deletes a Category object in the database.

AUTHORIZATIONS: > *bearerAuth*

### PATH PARAMETERS

---

id	integer <int64>
<i>required</i>	

---

## Responses

- **200** Retrieved successfully
- **403** User is not permitted to access this endpoint.
- **404** Category with this id was not found.
- **500** Internal server error

DELETE /category/{id}

## Retrieves all existing categories

Queries the database for a complete list of all existing Category objects.

AUTHORIZATIONS: > *bearerAuth*

### Responses

— **200** Retrieved successfully

— **403** User is not permitted to access this endpoint.

— **500** Internal server error

GET /category

---

## Creates a category

Creates and saves a new Category object into the database.

AUTHORIZATIONS: > *bearerAuth*

REQUEST BODY SCHEMA: application/json

user_id	integer <int64>
---------	-----------------

label	string
-------	--------

### Responses

— **200** Created successfully

- 403 User is not permitted to access this endpoint.
- 500 Internal server error

POST /category

Request samples

Payload

Content type  
application/json

Copy

```
{
  "user_id": 0,
  "label": "string"
}
```

budget-controller

Retrieves budget by ID

Queries the databse for a budget object based on ID from the user input.

AUTHORIZATIONS: > bearerAuth

PATH PARAMETERS

id	integer <int64>
required	

# Responses

- 200 Retrieved successfully.
- 403 User is not permitted to access this endpoint.
- 404 Budget with this id was not found.
- 500 Internal server error

GET /budgets/{id}

## Updates a budget

Updates and saves a Budget object in the database.

AUTHORIZATIONS: > *bearerAuth*

### PATH PARAMETERS

id	integer <int64>
required	

REQUEST BODY SCHEMA: application/json

user_id	integer <int64>
label	string
amount	number <double>
start_date	string <date>
interval_value	integer <int32>
interval_enum	string Enum: "DAY" "WEEK" "MONTH" "YEAR" Interval - ENUM values

## Responses

— **200** Updated successfully

— **403** User is not permitted to access this endpoint.

— **404** Budget with this id was not found.

— **500** Internal server error

PUT /budgets/{id}

## Request samples

### Payload

#### Content type

application/json

Copy

```
{
  "user_id": 0,
  "label": "string",
  "amount": 0,
  "start_date": "2019-08-24",
  "interval_value": 0,
  "interval_enum": "DAY"
}
```

## Deletes a budget

Deletes a Budget object in the database.

AUTHORIZATIONS: > *bearerAuth*

PATH PARAMETERS

id  
required

integer <int64>

---

## Responses

- **200** Deleted successfully.
- **403** User is not permitted to access this endpoint.
- **404** Budget with this id was not found.
- **500** Internal server error

DELETE    /budgets/{id}

---

## Retrieves all existing budgets.

Queries the database for a complete list of all existing budget objects.

AUTHORIZATIONS: >    *bearerAuth*

## Responses

- **200** Successfully retrieved all budgets.
- **403** User is not permitted to access this endpoint.
- **500** Internal server error



GET /budgets

# Creates a budget

Creates and saves a new Budget object into the database.

AUTHORIZATIONS: > *bearerAuth*

REQUEST BODY SCHEMA: application/json

user_id	integer <int64>
label	string
amount	number <double>
start_date	string <date>
interval_value	integer <int32>
interval_enum	string Enum: "DAY" "WEEK" "MONTH" "YEAR" Interval - ENUM values

## Responses

- 200 Created successfully
- 403 User is not permitted to access this endpoint.
- 500 Internal server error

POST /budgets

## Request samples

**Payload****Content type**

application/json

Copy

```
{
  "user_id": 0,
  "label": "string",
  "amount": 0,
  "start_date": "2019-08-24",
  "interval_value": 0,
  "interval_enum": "DAY"
}
```

---

## Resets all budgets that are due to reset based on their reset interval

Based on the budgets reset interval(DAY/WEEK/MONTH/YEAR/NONE), all budgets that are supposed to reset their currency value have their value reset to the initial value the budget was created with.

AUTHORIZATIONS: > *bearerAuth*

## Responses

— **200** Reset successfully.

— **403** User is not permitted to access this endpoint.

— **500** Internal server error

GET /budgets/resetBudgets

# location-controller

## Creates a location

Creates and saves a new Location object into the database.

AUTHORIZATIONS: > *bearerAuth*

REQUEST BODY SCHEMA: application/json

name	string
latitude required	number
longitude required	number

## Responses

— **200** Created successfully

— **403** User is not permitted to access this endpoint.

— **500** Internal server error

POST /location

## Request samples

Payload

Content type

application/json

```
{  
  "name": "string",  
  "latitude": 0,  
  "longitude": 0  
}
```

---

## Retrieves location by ID

Queries the database for a Location object based on ID from the user input.

AUTHORIZATIONS: > *bearerAuth*

PATH PARAMETERS

---

id required	integer <int64>
----------------	-----------------

---

## Responses

— **200** Retrieved successfully.

— **403** User is not permitted to access this endpoint.

— **404** Location with this id was not found.

— **500** Internal server error

GET /location/{id}

---

# auth-controller

## Register a new user

Registers a new user with username and password.

AUTHORIZATIONS: > *bearerAuth*

REQUEST BODY SCHEMA: application/json

---

username required	string
----------------------	--------

---

password required	string
----------------------	--------

---

## Responses

— **200** User registered successfully

— **400** Username already exists

— **500** Internal server error

POST /auth/register

## Request samples

Payload

**Content type**  
application/json

Copy

```
{  
  "username": "string",  
  "password": "string"  
}
```

---

## Logs out active user

The active user is logged out of the system.

AUTHORIZATIONS: > *bearerAuth*

## Responses

— **200** Logged out successfully

— **500** Internal server error

POST /auth/logout

---

## Login to a user account

Logs user in and generated a bearer token needed for authorization.

AUTHORIZATIONS: > *bearerAuth*

REQUEST BODY SCHEMA: application/json

username	string
----------	--------

password	string
----------	--------

# Responses

- 200 User registered successfully
- 400 Wrong password
- 404 User with this username was not found.
- 500 Internal server error

POST /auth/login

## Request samples

Payload

Content type  
application/json

Copy

```
{
  "username": "string",
  "password": "string"
}
```

## Set default currency

Default currency is set. All transactions in different currencies will be converted to this one.

AUTHORIZATIONS: > bearerAuth

REQUEST BODY SCHEMA: application/json

currency_code	string
required	Enum: "BGN" "BRL" "CAD" "CHF" "CNY" "CZK" "DKK" "EUR" "GBP" "HKD" "HRK" "HUF" "IDR" "ILS" "INR" "ISK" "JPY" "KRW" "MXN" "MYR" "NOK" "NZD" "PHP" "PLN" "RON" "RUB" "SEK" "SGD" "THB" "TRY" "USD" "ZAR"

Currency code

---

Responses

- **200** Currency set successfully
- **400** Invalid currency code
- **403** User is not permitted to access this endpoint.
- **500** Internal server error

POST /auth/currency

Request samples

Payload

Content type  
application/json

Copy

```
{
  "currency_code": "BGN"
}
```

---

image-controller

Get download URL

Get URL to download image from firebase



AUTHORIZATIONS: > *bearerAuth*

QUERY PARAMETERS

---

filename required	string
----------------------	--------

---

Responses

- > 200 URL generated successfully
- 400 Filename is rather empty or invalid
- 401 Unauthorized
- 403 Forbidden
- 404 File not found
- 500 Internal server error

GET /images/generateDownloadUrl

---

Get upload URL

Get URL to upload image to firebase

AUTHORIZATIONS: > *bearerAuth*

QUERY PARAMETERS

---

filename required	string
contentType required	string

---

## Responses

> **201** URL generated successfully

— **400** Filename/Content Type is rather empty or invalid

— **401** Unauthorized

— **403** Forbidden

— **500** Internal server error

GET /images/generate-upload-url