Investment Funds REST APIs

Description

A list of REST APIs that involve in loading and editing data on investment funds.

Base URL

The base URL for all API requests is:

`https://investment-funds-api.com`

Endpoints

1. `GET /funds`

Returns a list of all funds.

Response

Returns a JSON object with the following properties:

- `all_funds` : An array of funds:
    - `fund_id` : The unique id value of the fund.
    - `fund_name` : The name of the fund.
    - `fund_manager_name` : The manager of the fund.
    - `fund_description` : A description of the fund.
    - `fund_nav` : The fund's net asset value.
    - `creation_date` : The date creation of the fund.
    - `performance` : The performance of the fund (in percentage %).

Example

Request:

```
GET /funds
```

Response:

```json
{
    "all_funds": [
     {
          "fund_id": "12yte2",
          "fund_name": "Fund 1",
          "fund_manager_name": "Manager 1",
          "fund_description": "Description 1",
          "fund_nav": 1000000,
          "creation_date": "2024-04-21",
          "performance": 10.5
     },
     {
          "fund_id": "2bdsf4",
          "fund_name": "Fund 2",
          "fund_manager_name": "Manager 2",
          "fund_description": "Description 2",
          "fund_nav": 2000000,
          "creation_date": "2024-04-22",
          "performance": 8.5
     },
        ...
    ]
}
```

Errors

This API uses the following error codes:

- `400 Bad Request` : The request was malformed or missing required parameters.

- `404 Not Found` : The requested resource was not found.

- `500 Internal Server Error` : An unexpected error occurred on the server.

2. `POST /addfunds`

Adds the new fund details passed into the table and returns the added fund details in the JSON format.

Body Parameters

A JSON object with the following properties:

- `fund_id` : The unique id value of the new fund.

- `fund_name` : The name of the new fund.

- `fund_manager_name` : The manager of the new fund.

- `fund_description` : A description of the new fund.

- `fund_nav` : The new fund's net asset value.

- `creation_date` : The date creation of the new fund.

- `performance` : The performance of the new fund (in percentage %).

Response

Returns a JSON object with the following properties:

- `fund_id` : The unique id value of the added fund.

- `fund_name` : The name of the added fund.

- `fund_manager_name` : The manager of the added fund.

- `fund_description` : A description of the added fund.

- `fund_nav` : The added fund's net asset value.

- `creation_date` : The date creation of the added fund.

- `performance` : The performance of the added fund (in percentage %).

Example

Request:

```
POST /addfunds
```

Request Body:

```json
{
    "fund_id": "2svh3d",
    "fund_name": "New Fund",
    "fund_manager_name": "New Fund Manager",
    "fund_description": "New Fund Description",
    "fund_nav": 1000000,
    "creation_date": "2024-04-21",
    "performance": 10.5
}
```

Response:

```json
{
    "fund_id": "2svh3d",
    "fund_name": "New Fund",
    "fund_manager_name": "New Fund Manager",
    "fund_description": "New Fund Description",
    "fund_nav": 1000000,
    "creation_date": "2024-04-21",
    "performance": 10.5
}
```

Errors

This API uses the following error codes:

- `400 Bad Request` : The request was malformed or missing required parameters.

- `404 Not Found` : The requested resource was not found.

- `500 Internal Server Error` : An unexpected error occurred on the server.

3. `GET /funds/<fund_id>`

Retrieve fund details of a specific fund using its ID.

Parameters

A JSON object with the following properties:

- `fund_id` : The unique id value of the specified fund.

Response

Returns a JSON object with the following properties:

- `fund_id` : The unique id value of the specified fund.

- `fund_name` : The name of the specified fund.

- `fund_manager_name` : The manager of the specified fund.

- `fund_description` : A description of the specified fund.

- `fund_nav` : The specified fund's net asset value.

- `creation_date` : The date creation of the specified fund.

- `performance` : The performance of the specified fund (in percentage %).

Example

Request:

```
POST /funds/64svh2
```

Response:

```
{
    "fund_id": "64svh2",
    "fund_name": "Requested Fund",
    "fund_manager_name": "Requested Fund Manager",
    "fund_description": "Requested Fund Description",
```

```
    "fund_nav": 1000000,
    "creation_date": "2024-04-21",
    "performance": 10.5
}
```

Errors

This API uses the following error codes:

- `400 Bad Request` : The request was malformed or missing required parameters.

- `404 Not Found` : The requested resource was not found.

- `500 Internal Server Error` : An unexpected error occurred on the server.

4. `PUT /funds/<fund_id>`

Update the performance percentage of a fund using its fund ID

Parameters

`fund_id` : The unique id value of the specified fund.

Body Parameters

A JSON object with the following property:

- `performance` : The new performance value of the specified fund (in percentage %).

Response

- `message` : A message returning if the update was successful.

Example

Request:

```
PUT /funds/1wef12
```

Request Body:

```
{
    "performance": 10.5
}
```

Response:

```
{
    "message": "Performance updated"
}
```

Errors

This API uses the following error codes:

- `400 Bad Request` : The request was malformed or missing required parameters.

- `404 Not Found` : The requested resource was not found.

- `500 Internal Server Error` : An unexpected error occurred on the server.

5. `DELETE /funds/<fund_id>`

Delete a fund using its fund ID

Parameters

`fund_id` : The unique id value of the specified fund to delete.

Response

- `message` : A message returning if the fund was deleted successfully.

Example

Request:

```
DELETE /funds/1vsd32
```

Response:

```
{
    "message": "Fund deleted"
}
```

Errors

This API uses the following error codes:

- `400 Bad Request` : The request was malformed or missing required parameters.

- `404 Not Found` : The requested resource was not found.

- `500 Internal Server Error` : An unexpected error occurred on the server.