

Class: CS-496
Term: Summer 2017
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Assignment: Final Project - Cloud Only

Working app:

<https://final-project-cloud-only.appspot.com>

Postman tests:

https://media.oregonstate.edu/media/t/0_ux5gzlo5

ROUTES:

GET /users/{user_id}

Action: Returns the specified user's account info and all the user's crypto assets

Errors: Will catch the error if the user_id is wrong.

GET /users/{user_id}/cryptoassets

Action: Returns all the specified user's crypto assets and the accompanying sub total

Errors: Will catch the error if the user_id is wrong.

GET /users/{user_id}/cryptoassets/{asset_id}

Action: Returns the user specified crypto asset

Errors: Will catch the error if the user_id is wrong. Will catch the error if the asset_id is wrong.

POST /users/{user_id}/cryptoassets

Action: Creates a new crypto asset with the 3rd party API and returns it

Body: {"name": "str"}

Errors: Will catch the error if the user_id is wrong. Will catch the error if the body is wrong and display the expected format.

DELETE /users/{user_id}/cryptoassets/{asset_id}

Action: Deletes the user specified crypto asset

Errors: Will catch the error if the user_id is wrong. Will catch the error if the asset_id is wrong.

PATCH /users/{user_id}/cryptoassets/{asset_id}

Action: Updates a single property of the user specified crypto asset

Body: {"name": "str"} or {"symbol": "str"} or {"rank": "str"} or {"price_usd": "str"}

Errors: Will catch the error if the user_id is wrong. Will catch the error if the asset_id is wrong. Will catch the error if the body is wrong and display the expected format.

PUT /users/{user_id}/cryptoassets/{asset_id}

Action: Updates all properties of the user specified crypto asset

Body: {"name": "str", "symbol": "str", "rank": "str", "price_usd": "str"}

Errors: Will catch the error if the user_id is wrong. Will catch the error if the asset_id is wrong. Will catch the error if the body is wrong and display the expected format.

GET /users/{user_id}/accountinfo

Action: Returns the specified user's account info

Errors: Will catch the error if the user_id is wrong.

DELETE /users/{user_id}/accountinfo

Action: Deletes the specified user's account and all their crypto assets

Errors: Will catch the error if the user_id is wrong.

PATCH /users/{user_id}/accountinfo

Action: Updates a single property of the specified user's account

Body: {"fname": "str"} or {"lname": "str"} or {"email": "str"}

Errors: Will catch the error if the user_id is wrong. Will catch the error if the body is wrong and display the expected format.

PUT /users/{user_id}/cryptoassets/{asset_id}

Action: Updates all properties of the specified user's account

Body: {"fname": "str", "lname": "str", "email": "str"}

Errors: Will catch the error if the user_id is wrong. Will catch the error if the body is wrong and display the expected format.

3RD PARTY API:

Link: <https://coinmarketcap.com/api/>

Description: CoinMarketCap is a website that lists all the crypto currencies in the world. As a result, their API was used to acquire the top 100 currencies. From this list of 100, a random currency was chosen to be the starting asset of a new user. This can be seen on line 92 of main.py. This API was also used to calculate the total value of all the user's assets. This can be seen on line 188 of main.py. This API was also used to add a new crypto asset to the user's "portfolio". This can be seen on line 221 of main.py.