

KRYPTO BACKEND TASK

DETAILED DOCUMENTATION

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MODELS:

Users Model:

Id String (50) Primary key

Name String (50) unique

Password String (150)

Admin Boolean

Date_added Timestamp

Alert Model:

Alert_id String (50) Primary key

User_id String (50)

Desc String (50)

Alert_name String (50)

Alert_on String (50)

Threshold Integer

Mail_to String (100)

Status String (10) = {"initiated", "Triggered", "deleted"}

Date_added Timestamp

Crypto market API:

```
{"id":"bitcoin","symbol":"btc","name":"Bitcoin","image":"https://assets.coingecko.com/coins/images/1/large/bitcoin.png?1547033579","current_price":23809,"market_cap":454811511852,"market_cap_rank":1,"fully_diluted_valuation":499859753547,"total_volume":41313050302,"high_24h":24147,"low_24h":23466,"price_change_24h":-220.96612328966148,"price_change_percentage_24h":-0.91953,"market_cap_change_24h":-4534427709.8880005,"market_cap_change_percentage_24h":-0.98715,"circulating_supply":19107443.0,"total_supply":21000000.0,"max_supply":2100
```

```
0000.0,"ath":69045,"ath_change_percentage":-65.53917,"ath_date":"2021-11-10T14:24:11.849Z","atl":67.81,"atl_change_percentage":34988.85054,"atl_date":"2013-07-06T00:00:00.000Z","roi":null,"last_updated":"2022-07-30T07:03:53.758Z"}
```

- “Alert_name” on Alert table matches to “id” of Crypto market API.
- “Alert_on” on Alert table matches to any attribute of Crypto market API.

Crypto market API is fetched every 10 seconds, checked and alerts are sent.

API ENDPOINTS:

Login:

“/login” = [BASIC AUTH]

Body:

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

If logged in, A token is sent back

```
{
  "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6ImU5OTJmYjc1LWFjZDktNGM5NC1hMDEzLWMyZDY1MDc1M2M3ZiIsImV4cCI6MTY1OTE2NjAwMH0.8TELbxVIpvX98zhY_czHsWu6GWWQoJhvnU3VZC4wnd0"
}
```

Token has to be used as header to remaining APIs.

Header:

JWT token is created on login.

{x-access-token : <user-token>}

Krypto / Login

Save ...

GET http://127.0.0.1:5000/login Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type Basic Auth

The authorization header will be automatically generated when you send the request.
[Learn more about authorization](#)

Username jarun

Password password

☒ Show Password

Body Cookies Headers (5) Test Results Status: 200 OK Time: 173 ms Size: 348 B Save Response

Pretty Raw Preview Visualize JSON

```
1 [JWT]
2 {"token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6IjVjZDUzMmVmLTgzNzktNGUyMS1hbnA2LTUzOTU0Njd1OTM5IiwiaWV4cCI6MTY1OTI0OTQwOH0.PonKd1j7iRAuPPTiFVcAeoprCcXI7_gP_5qTzTnXZNA"}
3 [JWT]
```

Users:

1. Add user:

Post method to add new user.

“/user/create” = [POST]

Json Example:

```
{
  "name" : "admin",
  "password": "admin",
  "admin" : "True"
}
```

POST http://127.0.0.1:5000/user/create

Params Authorization Headers (8) Body Pre-request Script Tests Settings

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL JSON ▾

```

1  {
2    "name": "jaun",
3    "password": "password",
4    "admin": "True"
5  }

```

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON ▾

```

1  {
2    "message": "New user created!"
3  }

```

Need admin privileges:

1. Get user information by id:

[GET] = “/user/<user_id>”

Response:

- Invalid user-id:

```

{
  "message": "User by the id does not exist"
}

```

- Valid user-id:

```

{
  "users": {
    "admin": true,
    "id": "e992fb75-acd9-4c94-a013-c2d650753c7f",
    "name": "admin",
    "password": "sha256$jbwAWYM0ueQQ5796$f75f0977243e2e4e15272dda6119e732efdb89d8705c168ff35e5a4fa2d4a782"
  }
}

```

Krypto / Get single user

Save

GEThttp://127.0.0.1:5000/user/e992fb75-acd9-4c94-a013-c2d650753c7f

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettings

Headers6 hidden

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	x-access-token	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6IjVjZD...	
	Key	Value	Description

BodyCookiesHeaders (5)Test Results

Status: 200 OKTime: 12 msSize:

PrettyRawPreviewVisualizeJSON

```
1  {
2    "users": {
3      "admin": true,
4      "id": "e992fb75-acd9-4c94-a013-c2d650753c7f",
5      "name": "admin",
6      "password": "sha256$jbwAWYM0ueQQ5796$f75f0977243e2e4e15272dda6119e732efdb89d8705c168ff35e5a4fa2d4a782"
7    }
8  }
```

2. List all users:

Get method to list all users.

[GET] = “/user”

Response:

```
{
  "users": [
    {
      "admin": true,
      "id": "e992fb75-acd9-4c94-a013-c2d650753c7f",
      "name": "admin",
      "password": "sha256$jbwAWYM0ueQQ5796$f75f0977243e2e4e15272dda6119e732efdb89d8705c168ff35e5a4fa2d4a782"
    }
  ]
}
```

Krypto / Get all users Save ...

GET ▼ http://127.0.0.1:5000/user

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Headers 6 hidden

	KEY	VALUE	DESCRIPTION	...	Bulk E
<input checked="" type="checkbox"/>	x-access-token	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6IjVjZD...			
	Key	Value	Description		

Body Cookies Headers (5) Test Results Status: 200 OK Time: 20 ms Size: 629 B S

Pretty Raw Preview Visualize JSON ▼ ≡

```

1  [
2    "users": [
3      {
4        "admin": true,
5        "id": "e992fb75-acd9-4c94-a013-c2d650753c7f",
6        "name": "admin",
7        "password": "sha256$jbAwYM0ueQQ5796$f75f0977243e2e4e15272dda6119e732efdb89d8705c168ff35e5a4fa2d4a782"
8      },
9      {
10       "admin": true,
11       "id": "5cd532ef-8379-4e21-b606-5395467e939b",
12       "name": "jarun",
13       "password": "sha256$1SVpV0k6bqpTuF2P$c7caa3499fe160bfb63ccf051a09aaffa794b2c84d319dd517a4a0e1d1cead12"
14     }
15   ]
16 ]

```

Activate Window
Go to Settings to activate

Alert:

All APIs on Alert need user token in header.

Need Admin privileges:

1. List all Alerts

[GET] = “/alerts”

Paginated.

“/alerts?page=1”

Page = Int value, Default – 1

Rows_per_page = 5

Does not need Admin Privileges:

1. Create Alert:

[POST] = “/alerts/create”

To create alerts

```
{  
  "desc" : "New alert to check",  
  "alert_name" : "okb",  
  "alert_on" : "current_price",  
  "mail_to" : "jarunmadhesh@gmail.com",  
  "threshold" : 30  
}
```

Krypto / Alerts / Create alert

POST http://127.0.0.1:5000/alerts/create

Params Authorization Headers (9) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {  
2   ... "desc" : "New alert to check",  
3   ... "alert_name" : "okb",  
4   ... "alert_on" : "current_price",  
5   ... "mail_to" : "jarunmadhesh@gmail.com",  
6   ... "threshold" : 30  
7 }
```

Body Cookies Headers (5) Test Results Status: 200

Pretty Raw Preview Visualize JSON

```
1 {  
2   "alert": "<Alert 858e2038-f42e-4d5c-a320-52b655fd618e>",  
3   "message": "Alert created successfully"  
4 }
```

2. List all alerts created by the user

[GET] = “/alerts/mine”

Query:

“/alerts/mine?status=initiated”

Status = {initiated, triggered, deleted, all}

Default status = all

```
{
  "alerts": [
    {
      "alert_id": "d4a33ae1-3d2d-440c-a999-621add6a2ab2",
      "alert_name": "okb",
      "alert_on": "current_price",
      "date_added": "Sat, 30 Jul 2022 02:17:00 GMT",
      "description": "New alert to check",
      "mail_to": "jonesakajr@gmail.com",
      "status": "triggered",
      "threshold": 20,
      "user_id": "e992fb75-acd9-4c94-a013-c2d650753c7f"
    },
    {
      "alert_id": "d26a5666-1a80-4841-8329-d264c849d55d",
      "alert_name": "okb",
      "alert_on": "current_price",
      "date_added": "Sat, 30 Jul 2022 12:23:42 GMT",
      "description": "New alert to check",
      "mail_to": "jarunmadhesh@gmail.com",
      "status": "triggered",
      "threshold": 30,
      "user_id": "e992fb75-acd9-4c94-a013-c2d650753c7f"
    }
  ]
}
```

Krypto / Alerts / Get Alerts by user

GET ⌵ http://127.0.0.1:5000/alerts/mine?status=initiated

Params ● Authorization Headers (7) Body Pre-request Script Tests Settings

Headers 👁 6 hidden

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	x-access-token	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6IjVjZD...	
	Key	Value	Description

Body Cookies Headers (5) Test Results 🌐 Status: 200 OK Time: 1

Pretty Raw Preview Visualize JSON ⌵ 🔍

```

1  {
2    "alerts": [
3      {
4        "alert_id": "06b41556-7283-4f61-80e2-f39f4172baea",
5        "alert_name": "bitcoin",
6        "alert_on": "current_price",
7        "date_added": "Sat, 30 Jul 2022 13:27:36 GMT",
8        "description": "New alert to check",
9        "mail_to": "jarunmadhesh@gmail.com",
10       "status": "initiated",
11       "threshold": 30,
12       "user_id": "5cd532ef-8379-4e21-b606-5395467e939b"
13     }
14   ]
15 }

```

3. Delete an alert:

[DELETE] = “alerts/delete/<alert_id>”

Response:

If Alert id found:

```
{"message" : "Alert deleted successfully", "alert_id": alert.alert_id}
```

If not:

```
{"message": "Alert not found"}
```



DELETE http://127.0.0.1:5000/alerts/delete/06b41556-7283-4f61-80e2-f39f4172baea

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Headers 6 hidden

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	x-access-token	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6IjVjZD...	
	Key	Value	Description

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 23 ms

Pretty Raw Preview Visualize JSON

```
1 {
2   "alert_id": "06b41556-7283-4f61-80e2-f39f4172baea",
3   "message": "Alert deleted successfully"
4 }
```