

This is the requirements for our api

1. **createSignal**

Description:

This function will creat a document in the “signals” collection.

The data for this documents will received from the params.

After the data is stored successfully a push notification will be sent to the users with the right channel.

This function will be open only for the admin, so its important to creat set of rules so only the admin could send them

Params:

coinId - String

The coin id from CoinGecko

<https://www.coingecko.com/en/api/documentation>

risk - Int

An ENUM with the following :

HIGH_RISK(100), MEDIUM_RISK(101), LOW_RISK(102)

scalp- Int

An Enum with the following:

SCALPING(200), SWING(201), HOLD(202)

stop - Double

targetList - a list of targets

Target:

TargetPrice - Double

TargetPercentage -Double

SignalTimestamp - timestamp

<https://firebase.google.com/docs/reference/node/firebase.firestore.Timestamp>

This param will be created by the function at the time of the creation of the document

2. getAllSignals

Description:

This function will fetch data from signals collection based on the params.

Notice - we are using pagination.

Notice 2 - we are using CoinGecko Api to get the latest coin price

This function will be open for all users, notice that if the user is not registered and if his **subscriptionType==FREE(102)** then the data is different

Params:

limit - Int

For paging purpose - the client can control the amount of documents limit.

Default is 20

lastVisibleDocumentId: Int

For paging purpose - this will be the last visible document the client has seen, so the function must first fetch that document and then use it as a query

https://firebase.google.com/docs/firestore/query-data/query-cursors#node.js_3

Default is null

Response:

coinId - String

The coin id from CoinGecko

<https://www.coingecko.com/en/api/documentation>

coinPrice- Long

The coin price from CoinGecko

Price in USD

Here is a simple api request snippet:

https://api.coingecko.com/api/v3/simple/price?ids=bitcoin,lightcoin&vs_currencies=usd

subscriptionType - Int

An ENUM with the following :

SUBSCRIBED(100), FREE_TRAIL(101), FREE(102)

risk - Int

An ENUM with the following :

HIGH_RISK(100), MEDIUM_RISK(101), LOW_RISK(102)

scalp- Int

An Enum with the following:

SCALPING_LONG(200), SCALPING_SHORT(201), SWING_LONG(202)
, SWING_SHORT(203), HOLD(204)

stop - Double**targetList - a list of targets**

Target:

TargetPrice - Double

TargetPercentage -Double

signalTimestamp - timestamp

<https://firebase.google.com/docs/reference/node/firebase.firestore.Timestamp>

This param will be created by the function at the time of the creation of the document

In order to make the client side an "easy life" I think the following approach could work

After retrieving the documents, using the pagination, make a food loop

And on them and build the return list (the returned list will not look the same as the fetched collection)

Then - map the used coins id in the parsed documents.

Run another food loop on the parsed collection, this time add the coin value to them.

Send back the data.

Notice:

If the use **subscriptionType==FREE(102)** do not return a a real data other then the coin price

3. **RegisterUser**

Description:

This function will create a new document inside the users collection

No rules needed in this function

Params:

userName - String

email - String

creationTimestamp - timestamp

<https://firebase.google.com/docs/reference/node/firebase.firestore.Timestamp>

This param will be created by the function at the time of the creation of the document

acceptedTermsTimestamp - timestamp

fcmToken:String

Push token - must be stored so we could send chat messages

os :Int

The Operating system "android" , "ios"

4. **getGuides**

Description:

No rules needed in this function

This function will fetch all the collection in "Guides" collection

We are going to manually add data to this collection, all the function has to do in this point is to fetch it and parse it with more readable response

5. **getStates**

Description:

No rules needed in this function

This function will fetch all the collection in "States" collection

We are going to manually add data to this collection, all the function has to do in this point is to fetch it and parse it with more readable response

6. getChatMessagesWithAdmin

Description:

This function will fetch data from "chat" collection based on the params.

Notice - we are using pagination.

This function will be open for all users

Params:

limit - Int

For paging purpose - the client can control the amount of documents limit.

Default is 20

lastVisibleDocumentId: Int

For paging purpose - this will be the last visible document the client has seen, so the function must first fetch that document and then use it as a query

https://firebase.google.com/docs/firestore/query-data/query-cursors#node.js_3

Default is null

Response:

message - String

messageTimestamp - timestamp

<https://firebase.google.com/docs/reference/node/firebase.firestore.Timestamp>

This param will be created by the function at the time of the creation of the document

creatorUserId: String

The user id who wrote the message

receivedUserId:String

The user id who received the message

Notice:

The chat message at this point is very simple - just a message and a timestamp

However - it must be structured very well

So we want to keep each chat dialog in a nested collection inside "adminChat" collection.

Every nested collection will have its own unique id based on a random UDID

And the dialog (the chat between the users) will be stored inside the user document

user->dialogs->{nested collection} -> dialog("dialog id"){
"last message":String,
"lastMessageTimeStamp":timestamp}

7. **sendChatMessage**

Description:

This function will create a message collection inside "adminChat" collection.

If the Dialog (chat between 2 users) does not exist, create a new dialog with random UDID, then save that udid inside the user document as described above.

This function will be open for all users

After the data is stored successfully a push notification will be sent to the receiver User.

Params:

message - String

messageTimestamp - timestamp

creatorUserId:String

The user id who wrote the message

receivedUserId:String

The user id who received the message

Notice: Admin user will have a Boolean "isAdmin:true"