

Challenge BE Dev

Description:

Create a tool to calculate possible return on investment for an user, based on the selected strategy.

The user owns EGLD token and wants to decide which strategy will be best for him.

Possible strategy:

- EGLD - hold in the wallet - used as reference
- EGLD Stacking - staking EGLD and getting APR
- EGLD Stacking and Redelegating - staking EGLD and re-delegating the rewards every X weeks (to be taken from an input field) and getting APY
- MEX Staking - staking MEX and getting APR
- MEX Staking and redelegating - taking MEX and re-delegating the rewards every X weeks (to be taken from an input field) and getting APY

Input fields:

- EGLD price target - float
- MEX price target - float
- Time monitored - datetime range field
- EGLD invested and MEX invested (the percentages split are inputted by the user if they own EGLD only, to split how much the user will want to swap to MEX and how much to retain as EGLD. If not they will have to input the EGLD and MEX values directly and the percentage fields go away)
- Redelegation period (eg. every day, week, month...) - it is not displayed in the mockup, but needs to be included.
- Price targets for both EGLD and MEX, for future reference to compare with just holding.

- Drop down menu to choose the staking provider for the EGLD staking strategies APR calculation.

Todo:

- ☐ provide % Return on investment for each of the possible strategy, in relation to EGLD hold in the wallet strategy (used as reference)
- ☐ provide the calculation for each strategy (split by EGLD, USD,...) as shown in the mockup

Resources:

- for the APR % use: <https://api.elrond.com/providers>
- for the EGLD realtime price in \$: use a public api (from binance, coinmarketcap,...)
- For the MEX realtime price in \$: use <https://testnet.maiar.exchange/> and <https://testnet-exchange-graph.elrond.com/graphql>

Mockups:

- the UI part for this challenge is just to showcase the calculations done in the backend (does not have to match them exactly - and no fancy effects)

Step 2 | Specify Staking Strategies

You own MEX & EGLD ☒ You own EGLD only



EGLD price: 200.00 \$

EGLD tokens invested:

1,000.00

% in EGLD:

50 %

EGLD price target:

300.00 \$

Time monitored:

03/16/2021 - now



MEX price: 0.12 \$

MEX tokens invested:

100,000.00

% in MEX:

50 %

MEX price target:

1.00 \$

Choose a staking provider:

Istari Vision



Your Staking Rewards

Total reward ⓘ	EGLD	EGLD	EGLD	MEX	MEX
	Hold in Wallet	Staking	Stake & Redelegate	Staking	Stake & Redelegate
in EGLD tokens	0.0000	120.00	175.39	175.39	175.39
in MEX tokens	0.0000	0.0000	0.0000	0.0000	0.0000
in US \$	0.00	24,000.00	35,078.00	35,078.00	35,078.00
Total Balance in EGLD tokens	1,000.00	1,120.00	1,175.29	1,175.29	1,175.29
Total Balance in MEX tokens	0.0000	0.0000	0.0000	0.0000	0.0000
Total Balance in US \$	300,000.00	336,000.00	352,587.00	352,587.00	352,587.00
		+ 12,05 % compared to HODL	+ 17,52 % compared to HODL	+ 20,52 % compared to HODL	+ 58,52 % compared to HODL

Stake your EGLD