

Phase 2 Test Plan

Team 2 testing Team 23

Functional Requirement 1

As a user, I would like to create a CrypTracker profile

Functional Test Cases

Test ID	1
Title	Create account
Instructions	Log in with a GitHub account that you have not used before
Expected Result	You are taken to the profile creation page where you can fill out values
Severity	Critical

Test ID	2
Title	Starting amount correct
Instructions	Create a new profile, select each of the values for starting wallet balance, go to the home page
Expected Result	Your wallet balance after you create your profile is the same as you chose in the profile selection page.
Severity	Critical

Functional Requirement 2

As a user, I would like to log in with my profile

Functional Test Cases

Test ID	3
Title	Log in my GitHub account
Instructions	Click log in button and sign in with valid

	github account
Expected Result	Redirected to home page
Severity	Critical

Functional Requirement 3

As a user, I would like a persistent account

Functional Test Cases

Test ID	4
Title	Check if account persists through multiple logins
Instructions	Login to the app once, buy some coin, login again and then
Expected Result	The amount of coin bought is the same as the amount owned after logging out
Severity	Important

Functional Requirement 4

As a user, I would like to see the price of my coins

Functional Test Cases

Test ID	5
Title	Check to see if coin price shows up on the home page
Instructions	Log in the home page and look at the coin prices
Expected Result	Coin prices show up when on a home page
Severity	Critical

Functional Requirement 5

As a user, I would like to see a graph of my coins price over time

Functional Test Cases

Test ID	6
Title	Coin Prices
Instructions	Wait for the coins graph to update
Expected Result	Graph should update with consistent values
Severity	critical

Functional Requirement 6

As a user, I would like to see a comparison graphs between two coins

Functional Test Cases

Test ID	7
Title	Check the price between 2 coins
Instructions	Choose 2 coins to compare and see the price between them
Expected Result	The graph shows up and lets me compare prices
Severity	Important

Boundary Test Cases

Test ID	8
Title	Check the price between the same coin
Instructions	Choose the same coin twice and compare it with itself
Expected Result	Not allowed
Severity	Important

Functional Requirement 7

As a user, I would like to buy coins

Functional Test Cases

Test ID	9
Title	Correct purchase
Instructions	Go to the site, pick a coin to purchase, enter 2 coins, click buy. Repeat with all other coin types.
Expected Result	Check that it added 2 coins to your wallet and it deducted the correct amount.
Severity	Severe

Test ID	10
Title	Insufficient Funds
Instructions	Go to the site, pick a coin to purchase, enter a value of coins worth more than the amount in your wallet, click buy. Repeat with all other coin types.
Expected Result	A message saying insufficient funds pops up
Severity	Severe

Boundary Test Cases

Test ID	11
Title	Max value
Instructions	Go to the site, pick a coin to purchase, enter the max integer +1 coins, click buy. Repeat with all other coin types.
Expected Result	Error message saying too many coins pops up
Severity	Severe

Test ID	12
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Title	0 coins purchase
Instructions	Go to the site, pick a coin to purchase, enter 0, click buy. Repeat with all other coin types.
Expected Result	Error message saying invalid number of coins
Severity	Severe

Test ID	13
Title	-1 coin purchase
Instructions	Go to the site, pick a coin to purchase, enter -1 coins, click buy. Repeat with all other coin types.
Expected Result	Error message saying invalid number of coins
Severity	Severe

Test ID	14
Title	NaN coin purchase
Instructions	Go to the site, pick a coin to purchase, enter a string, click buy. Repeat with all other coin types.
Expected Result	Error message saying invalid number of coins
Severity	Severe

Test ID	15
Title	Null coin purchase
Instructions	Go to the site, pick a coin to purchase, enter nothing, click buy. Repeat with all other coin types.

Expected Result	Error message saying invalid number of coins
Severity	Severe

Functional Requirement 8

As a user, I would like to sell coins

Functional Test Cases

Test ID	16
Title	Correct purchase
Instructions	Go to the site, pick a coin to sell, enter a number of coins less than the amount in your wallet, click sell. Repeat with all other coin types.
Expected Result	Check that it sold the correct number of coins and added the correct funds to their wallet
Severity	Severe

Test ID	17
Title	Incorrect sale
Instructions	Go to the site, pick a coin to sell, enter a number of coins greater than the amount in your wallet, click sell. Repeat with all other coin types.
Expected Result	Error message pops up saying not enough coins
Severity	Severe

Boundary Test Cases

Test ID	18
Title	Max value

Instructions	Go to the site, pick a coin to sell, enter the max integer +1 coins, click sell. Repeat with all other coin types.
Expected Result	Error message saying too many coins pops up
Severity	Severe

Test ID	19
Title	0 coins sale
Instructions	Go to the site, pick a coin to sell, enter 0, click sell. Repeat with all other coin types.
Expected Result	Error message saying invalid number of coins
Severity	Severe

Test ID	20
Title	-1 coin sale
Instructions	Go to the site, pick a coin to sell, enter -1 coins, click sell. Repeat with all other coin types.
Expected Result	Error message saying invalid number of coins
Severity	Severe

Test ID	21
Title	NaN coin sale
Instructions	Go to the site, pick a coin to sell, enter a string, click sell. Repeat with all other coin types.
Expected Result	Error message saying invalid number of coins

Severity	Severe
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Test ID	22
Title	Null coin sale
Instructions	Go to the site, pick a coin to sell, enter nothing, click sell. Repeat with all other coin types.
Expected Result	Error message saying invalid number of coins
Severity	Severe

Functional Requirement 9

As a user, I would like to be able to view a portfolio / summary of my wallets

Functional Test Cases

Test ID	23
Title	Wallet balance
Instructions	Log in, go to home page
Expected Result	Be able to see the correct wallet balance at the top of the page
Severity	Critical

Test ID	24
Title	Purchase history
Instructions	Log in, go to the home page, buy a coin, sell a coin
Expected Result	Be able to see the correct history of buying/selling coins for my account at the bottom of the page
Severity	Important

Functional Requirement 10

As a user, I would like to be able to see value changes in my profile

Functional Test Cases

Test ID	25
Title	Change of a coin price is reflected in the profile
Instructions	Wait for a price change after buying coins
Expected Result	Price of my profile changes
Severity	Critical

Functional Requirement 11

As a user, I would like to be able to see the price of a coin over custom time ranges

Functional Test Cases

Test ID	26
Title	24 hours
Instructions	Log in, go to the home page, scroll to the Bitcoin graph, select the 24 hours button
Expected Result	The graph shows the price of Bitcoin over the last 24 hours
Severity	Important

Test ID	27
Title	1 week
Instructions	Log in, go to the home page, scroll to the Bitcoin graph, select the 1 week button
Expected Result	The graph shows the price of Bitcoin over the last week
Severity	Important

Test ID	28
Title	1 month
Instructions	Log in, go to the home page, scroll to the Bitcoin graph, select the 1 month button
Expected Result	The graph shows the price of Bitcoin over the last month
Severity	Important

Test ID	29
Title	1 year
Instructions	Log in, go to the home page, scroll to the Bitcoin graph, select the 1 year button
Expected Result	The graph shows the price of Bitcoin over the last year
Severity	Important

Functional Requirement 12

As a user, I would like to have the option to own multiple types of cryptocurrencies

Functional Test Cases

Test ID	30
Title	Multiple currencies
Instructions	Go to the page, look through the list of currencies
Expected Result	There should be multiple types of crypto currencies
Severity	Severe

Test ID	31
Title	Multiple currencies purchase

Instructions	Go to the home page and purchase multiple currencies
Expected Result	You will own both currencies in your wallet
Severity	Severe

Test ID	32
Title	Multiple currencies sale
Instructions	Go to the home page and sell multiple currencies you own
Expected Result	You will have sold both coins
Severity	Severe

Functional Requirement 13

As a user, I would like to see my trade history

Functional Test Cases

Test ID	33
Title	Purchase transaction
Instructions	Purchase a coin of any type, go to the trade history section
Expected Result	The trade history section will contain the purchase and it matches the purchase made
Severity	Critical

Test ID	34
Title	Sale transaction
Instructions	Purchase a coin of any type, go to the trade history section

Expected Result	The trade history section will contain the purchase and it matches the purchase made
Severity	Critical

Boundary Test Cases

Test ID	35
Title	Many purchases
Instructions	Buy and sell a coin 257 times
Expected Result	The transaction page will show all the transactions
Severity	critical

Functional Requirement 14

As a user, I would like to cancel a future trade

Functional Test Cases

Test ID	36
Title	Cancel trade
Instructions	Click the cancel trade after placing a future trade
Expected Result	The trade is canceled
Severity	critical

Functional Requirement 16

As a user, I would like to be able to get help on the various trade types and call types

Functional Test Cases

Test ID	37
Title	Help Buy Limit
Instructions	Click on Help Buy Limit

Expected Result	Correct information is displayed
Severity	critical

Test ID	38
Title	Help Sell Limit
Instructions	Click on Help Sell Limit
Expected Result	Correct information is displayed
Severity	critical

Test ID	39
Title	Help Buy Stop
Instructions	Click on Help Buy Stop
Expected Result	Correct information is displayed
Severity	critical

Test ID	40
Title	Help sell stop
Instructions	Click on Help sell stop
Expected Result	Correct information is displayed
Severity	critical

Functional Requirement 17

As a user, I would like to be able to make a buy limit order

Functional Test Cases

Test ID	41
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Title	Set Order
Instructions	Enter an amount and limit and click buy limit
Expected Result	An order is placed for the buy limit
Severity	critical

Functional Requirement 18

As a user, I would like to be able to make a sell limit order

Functional Test Cases

Test ID	42
Title	Set Sell Order
Instructions	Enter an amount and limit and click sell limit
Expected Result	An order is placed for the sell limit
Severity	critical

Functional Requirement 19

As a user, I would like to be able to make a stop buy order

Functional Test Cases

Test ID	43
Title	Stop Buy Order
Instructions	Enter an amount and limit and click the buy stop button
Expected Result	The buy stop order is placed and it will be completed at or above the specified price
Severity	Critical

Functional Requirement 20

As a user, I would like to be able to make a stop sell order

Functional Test Cases

Test ID	44
Title	Stop Sell Order
Instructions	Enter an amount and limit and click the sell stop button
Expected Result	The sell stop order is placed and it will be completed at or below the specified price
Severity	Critical

Functional Requirement 22

As a user, I would like to have three choices of a starting amount of USD

Functional Test Cases

Test ID	45
Title	Ensure the choices populate
Instructions	Create an account and select the starting amount drop down box
Expected Result	Three distinct numerical values should appear and be selectable in the drop down box
Severity	Important

Test ID	46
Title	Ensure the choices function as expected
Instructions	Create three accounts, and select one of the three available amounts each on a different account.
Expected Result	The starting amount should populate according to the amount selected on each account

Severity	Critical
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Functional Requirement 25

As a user, I would like to have a notifications page

Functional Test Cases

Test ID	47
Title	Notification page
Instructions	Scroll down to the bottom
Expected Result	Notifications should be listed
Severity	Critical

Functional Requirement 27

As a user, I would like to be notified of automatic sell orders

Functional Test Cases

Test ID	48
Title	Sell order notification
Instructions	Make a sell order
Expected Result	User should be notified
Severity	Critical

Boundary Test Cases

Test ID	49
Title	Sell order negative value
Instructions	Input a negative value into sell order
Expected Result	Negative amount is handled
Severity	Critical

Test ID	50
Title	Sell order overflow value
Instructions	Input a big value into sell order
Expected Result	Overflow amount is handled
Severity	Critical

Functional Requirement 28

As a user, I would like to be notified of automatic buy orders

Functional Test Cases

Test ID	51
Title	Automatic buy order
Instructions	Make a buy order
Expected Result	User should be notified when buy order completes
Severity	critical

Boundary Test Cases

Test ID	52
Title	Buy order negative value
Instructions	Input negative value
Expected Result	Negative value is handled
Severity	critical

Test ID	53
Title	Sell order overflow value
Instructions	Input an overflow value into sell order
Expected Result	Overflow value is handled

Severity	Critical
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