# Three Bar Pattern Use Cases

Version 1.6

Three Bar Pattern	Version: 1.7
Use Cases	Date: 04/10/22
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# **Revision History**

Date	Version	Description	Author
11/18/2021	1.6	Cleaning it up and adding changes from Version 1.5 document	Kyle Conte
4/10/2022	1.7	Working on it once all features are done	David Greenwell

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## Use Cases

# Use Case List

Primary Actor	Use Cases
User	UC1: Choose the ticker filters
	UC2: Change algorithm parameters
	UC3: Delete ticker
	UC4: Import CSV
	UC5: Display Stocks That Will be Put Through Algorithm
	UC6: Run algorithm on selected stocks
System	UC1: Three Bar Pattern on Real Time Scanner

#### Use Case 1: Choose the stock ticker

UC ID and Name:	UC-1: Choose the stock ticker		
Created By:	Team	Date Created:	April 10, 2022
Primary Actor:	User	Secondary Actors:	N/A
Trigger:	User searches stock ticker to	analyze	
Description:	A user navigates to the Webs	ite, chooses what stock	he/she wants the program to watch,
	the website then shows the c	andlestick graph for the	stock chosen and screen for patterns.
Preconditions:	PRE-1. User navigates to the	Website through any de	evice.
Postconditions:	POST-1. Stock previews bas	ic stock information	
Main Success	1. User chooses specific ste	ock to analyze (see 1a, 1	lb)
Scenario:	2. System Displays stock v	vith basic stock informa	tion.
	3. Flat file with found three	e bar patterns output for	historical
	4. Ticker is added to watch list for real time scanning		
Extensions:	1a. User search stock ticker	does not exist	
	2a1. System notifies user that stock is not does not exist		
	Use case terminated		
	1b. User seereb returns multiple steels tickers		
	<b>1D. User search returns multiple stock tickers</b>		
	201. System juis closest match at top 2b2 System displays other similar matches below the exact match		
	202. System displays our	A similar matches below	the exact materi
Priority:	High		
Frequency of Use:	Every time a new user enters	the website or an existi	ng user wants to look at a different
1 5	stock. Peak usage load for th	is use case is between th	ne normal session of the general stock
	market.		-
Business Rules:	TBD		
Other Information:	1. User will use a search ba	ar to choose stock ticker	
	2. If the system does not ha	ave stock data on stock s	specified, use case terminates. Refer
	to extensions		
Assumptions:	Assume that users want to lo	ok at different stocks oc	casionally.

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## **Use Case 2: Change Algorithm Parameters**

UC ID and Name:	UC-2: Change Algorithm parameters			
Created By:	Team	Date Created:	April 10, 2022	
Primary Actor:	User	Secondary Actors:	N/A	
Trigger:	User selects filters and setting	gs button.		
Description:	User adjusts parameters to ch	ange algorithm output t	to view different models.	
Preconditions:	PRE-1. User has selected a ti	cker to analyze		
Postconditions:	POST-1. Algorithm settings h	POST-1. Algorithm settings have been changed for specific model		
Main Success	1. User inputs new settings for algorithm			
Scenario:	2. User clicks apply to solidify the changes.			
Extensions:	1a. User inputs invalid settings(i.e. wrong data type or out of range)			
	2a1. User is notified of invalid settings and is prompted to input again.			
Priority:	Medium			
Priority: Frequency of Use:	Medium Different by user preference.			
Priority: Frequency of Use: Business Rules:	Medium Different by user preference. TBD			
Priority: Frequency of Use: Business Rules: Other Information:	Medium Different by user preference. TBD 1. Valid settings are displayed	d as default values		

#### Use Case 3: Delete ticker

UC ID and Name:	UC-3: Delete ticker		
Created By:	Team	Date Created:	April 10, 2022
Primary Actor:	User	Secondary Actors:	N/A
Trigger:	User clicks the delete ticker button		
Description:	User no longer wants a ticker to be displayed on historical or tracked on the real time		
	analysis.		
Preconditions:	PRE-1. At least one ticker is	added ticker list	
Postconditions:	POST-1. Stock ticker deleted	from list.	
	POST-2. System displays all	stocks that haven't been	n deleted
Main Success	1. User select ticker to delete		
Scenario:			
Extensions:			
Priority:	Medium		
Frequency of Use:	Different by user preference.		
Business Rules:	TBD		
Other Information:	1. Tickers that have been dele	eted can still be added b	ack
Assumptions:	User wants to see less histori	cal data or track one les	s ticker.

## Use Case 4: Import CSV

UC ID and Name:	UC-4: Import CSV		
Created By:	Team	Date Created:	April 10, 2022
Primary Actor:	User	Secondary Actors:	N/A

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Trigger:	User clicks the import CSV button		
Description:	User wants to import a CSV with other specific stock data		
Preconditions:	PRE-1. User has a CSV with stock information		
	PRE-2. The CSV is in correct format		
Postconditions:	POST-1. CSV is displayed on front end for confirmation before being put through the		
	algorithm.		
Main Success	1. CSV is added to tickers that will be put through the algorithm.		
Scenario:			
Extensions:	1a. CSV has incorrect format		
	2a1. System will notify user of incorrect format and prompt to import again		
Priority:	Low		
Frequency of Use:	Different by user preference.		
Business Rules:	TBD		
Other Information:	Only used if a stock is not added through our data crawler		
Assumptions:	User wants to track a stock that is not included in our Alpaca API		

#### Use Case 5: Display Stocks That Will be Put Through Algorithm

UC ID and Name:	UC-5: Display stocks that will be put through algorithm		
Created By:	Team	Date Created:	April 10, 2022
Primary Actor:	User	Secondary Actors:	N/A
Trigger:	User has clicked the fetch data button		
Description:	User wants to check what stock will be put through the algorithm before execution		
Preconditions:	PRE-1. User has chosen stocks		
Postconditions:	POST-1. System displays stocks that have been chosen.		
Main Success	1. User will ask to fetch data and stocks will be displayed		
Scenario:			
Extensions:			
Priority:	Medium		
Frequency of Use:	Different by user preference.		
Business Rules:	TBD		
Other Information:	User may want to delete some tickers after this use case		
Assumptions:	User does not know which stock will be put through the algorithm		

#### Use Case 6: Run Algorithm on Selected Stocks

UC ID and Name:	UC-6: Run algorithm on selected stocks		
Created By:	Team	Date Created:	April 10, 2022
Primary Actor:	User	Secondary Actors:	N/A
Trigger:	User has clicked the run settings button under the filters and setting tab.		
Description:	User would like to run the algorithm on selected stocks.		
Preconditions:	PRE-1. User has chosen stocks they wish to track		
	PRE-2. User has entered valid algorithm parameters or applied default values		
Postconditions:	POST-1. User is given output based on specified file type		
Main Success	1. User will click the run setting button and the algorithm runs without problems		
Scenario:			
Extensions:	1a. Algorithm Fails		
1	2a1. System will notify us	ser of reason for fail.	

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Priority:	High
Frequency of Use:	Different by user preference.
Business Rules:	TBD
Other Information:	Algorithm might not return any three bar patterns if algorithm parameters make a model
	that is too specific
Assumptions:	User wants to see three bar patterns found

## Use Case 1(System): Three Bar Pattern Found on Real-Time Scanner

UC ID and Name:	UC-1(System): Three Bar Pattern Found on Real-Time Scanner		
Created By:	Team	Date Created:	April 10, 2022
Primary Actor:	System	Secondary Actors:	N/A
Trigger:	System has found a three bar pattern in real time.		
Description:	System has found a three bar pattern on a stock that is being tracked.		
Preconditions:	PRE-1. Stock is being tracked		
	PRE-2. Real time scanner is running		
Postconditions:	POST-1. User is notified of the found pattern		
Main Success	1. Three bar pattern is found by real time scanner		
Scenario:	2. User is notified of the three bar pattern found and three bar pattern is displayed		
Extensions:	1a. Notification push failed		
	2a1. System will display on the website that a notification push has failed.		
Priority:	High		
Frequency of Use:	Different by user preference.		
Business Rules:	TBD		
Other Information:	Users may need to choose what type of notifications they wants to receive.		
Assumptions:	User wants to receive notifications on patterns found.		