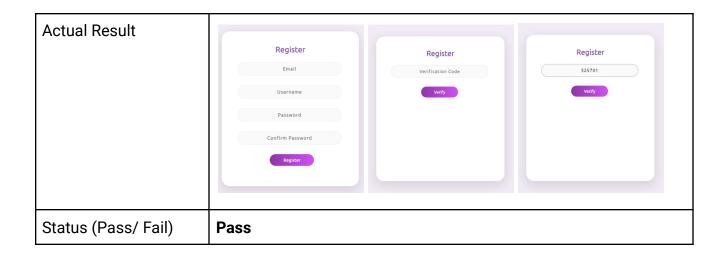
# **Stock Market Analysis Pipeline**

#### Use case:

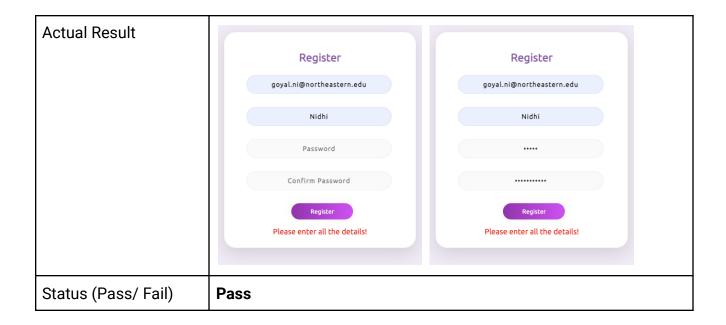
- 1. User Signup and Sign in
- 2. Reddit Trending Stocks and Sentiments
- 3. Current Stock Price
- 4. Historical Stock Analysis Trend
- 5. Stock Forecast Trend
- 6. Chat bot options

### Use Case I: User Signup and Sign in

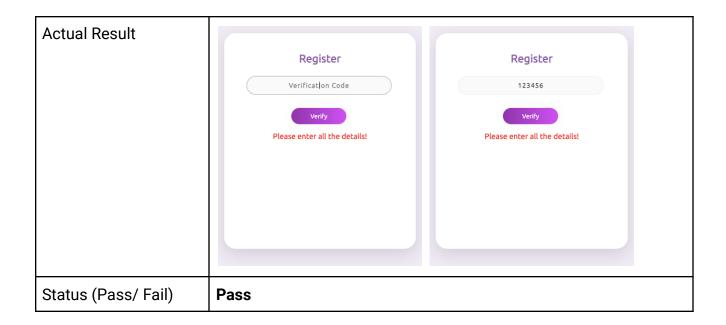
Test Case Id	01
Option chosen	User Signup Authentication
Test title	Register Random String Input
Test design date	04/25/2021
Test execution date	04/29/2021
Test data	<ul> <li>Email</li> <li>Username</li> <li>Password</li> <li>Confirm password</li> <li>After filling above information, press enter.</li> <li>This will navigate to the Register Verification page and you will receive verification code in your email.</li> <li>After entering verification code, press verify.</li> </ul>
Expected Result	After successful signup, it will land on the Home page.



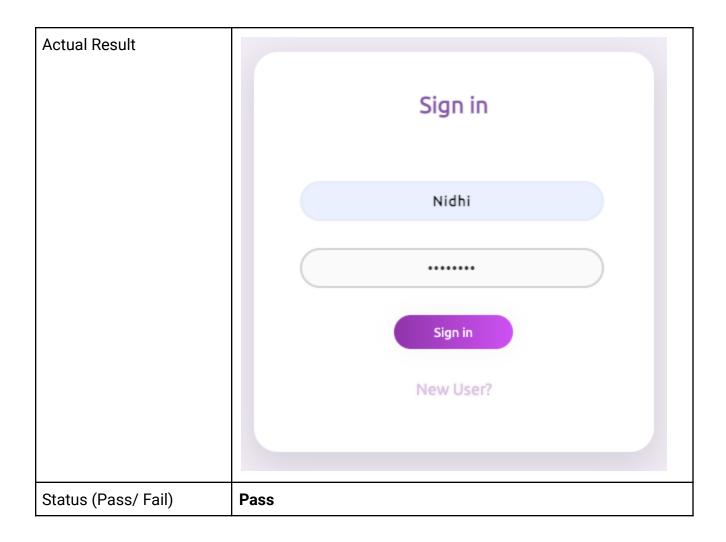
Test Case Id	02
Option chosen	User Signup Authentication
Test title	Register Random String Input
Test design date	04/25/2021
Test execution date	04/29/2021
Test data	<ul> <li>Email</li> <li>Username</li> <li>Password</li> <li>Confirm password</li> </ul> In the case of less information or not same confirm password
Expected Result	Error: Please enter all the details!



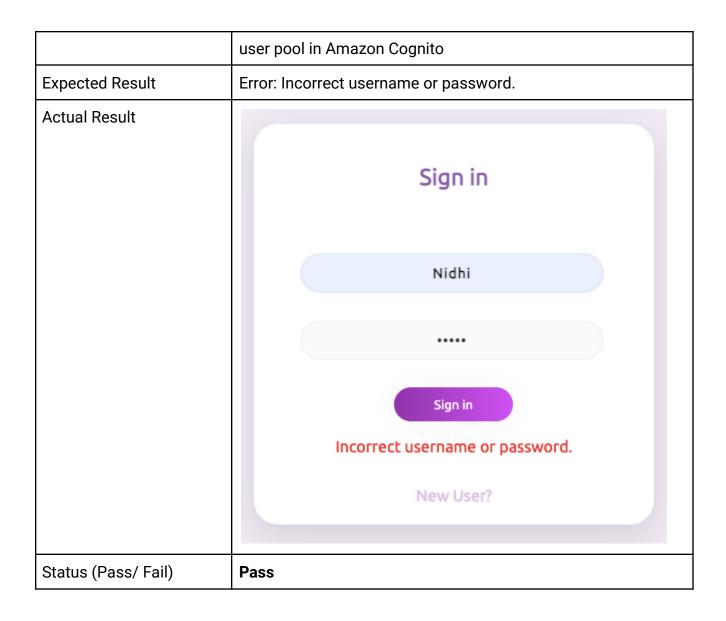
Test Case Id	03
Option chosen	User Signup Verification Authentication
Test title	Register Random String Input
Test design date	04/25/2021
Test execution date	04/29/2021
Test data	Verification code In the case of no code or wrong entry
Expected Result	Error: Please enter all the details!



Test Case Id	04
Option chosen	Authentication
Test title	Sign In
Test design date	04/25/2021
Test execution date	04/29/2021
Test data	<ul> <li>Username</li> <li>Password</li> </ul> Any random username which is a part of our user pool in Amazon Cognito
Expected Result	After successful sign in, it will land on the Home page.



Test Case Id	05
Option chosen	Authentication
Test title	Sign In
Test design date	04/25/2021
Test execution date	04/29/2021
Test data	<ul> <li>Username</li> <li>Password</li> <li>Any wrong username or password which is not a part of our</li> </ul>



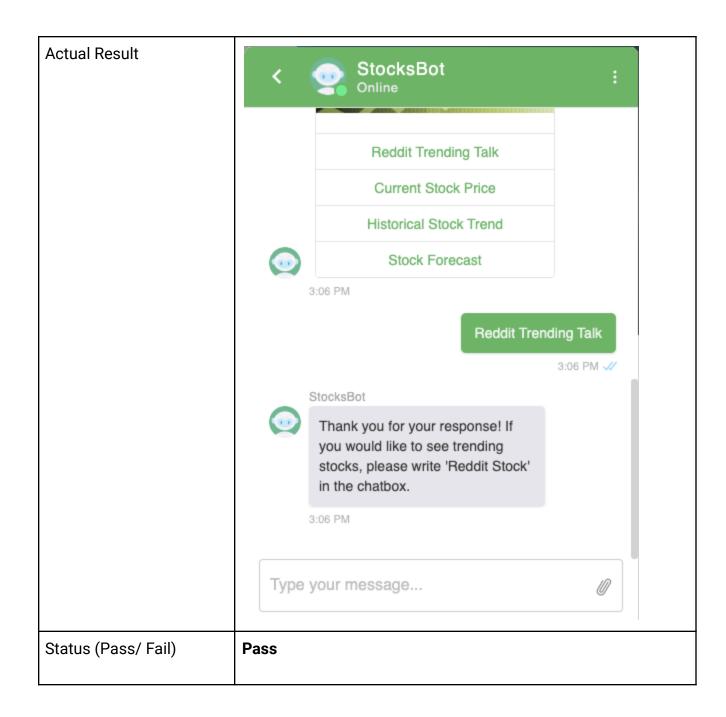
#### Use Case II: Welcome chat bot

Test Case Id	06
Option chosen	Welcome
Test title	Greeting
Test design date	04/20/2020

Test execution date	04/29/2021
Test data	Either enter greeting message "Hi" in the chat box and enter your name:
Expected Result	Welcome! My name is Stock Bot. May I know your good name?
	Hi there nidhi, I'm here to assist you. If you are interested in Stock Analysis, please write "Menu" in the chat box.
Actual Result	< StocksBot :
	Hi 3:05 PM ✓//
	StocksBot
	Welcome! My name is Stock Bot. May I know your good name?
	3:05 PM
	Nidhi 3:05 PM 🕢
	StocksBot
	Hi there Nidhi, I'm here to assist you. If you are interested in Stock Analysis, please write "Menu" in the chatbox.
	3:05 PM
Status (Pass/ Fail)	Pass

# Use Case III: Reddit Trending Stocks and Sentiments

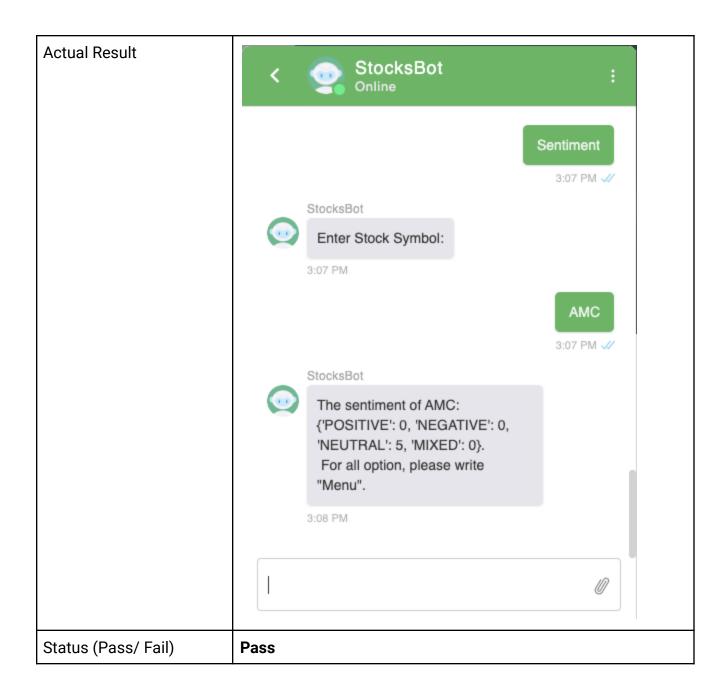
Test Case Id	07
Option chosen	Reddit Trending Talk
Test title	Top Trending Stocks
Test design date	04/20/2020
Test execution date	04/29/2021
Test data	Either enter "Reddit Trending Talk" in menu or write "Reddit Trending Talk" in the chatbox
Expected Result	Thank you for your response! If you would like to see trending stocks, please write 'Reddit Stock' in the chatbox.



Test Case Id	08
Option chosen	Reddit Stock
Test title	Top Trending Stocks

Test design date	04/20/2020
Test execution date	04/29/2021
Test data	Write "Reddit Stock" in the chatbox
Expected Result	Redditors are talking about these Stocks: ['GME', 'AMC', 'VIAC', 'UWMC', 'BB'] If you would like to know about the sentiments of the discussions, write "Sentiment" in the chat box.
Actual Result	StocksBot :
	Thank you for your response! If you would like to see trending stocks, please write 'Reddit Stock' in the chatbox.
	3:06 PM  Reddit stock  3:06 PM   StocksBot
	Redditors are talking about these Stocks: ['GME', 'AMC', 'VIAC', 'UWMC', 'BB'] If you would like to know about the sentiments of the discussions, write "Sentiment" in the chatbox.
	3:06 PM
Status (Pass/ Fail)	Pass

Test Case Id	09
Option chosen	Reddit Sentiment
Test title	Sentiments of the current reddit trending stock for stock Input
Test design date	04/20/2021
Test execution date	04/29/2021
Test data	Write "Sentiment" in the chat box
	Then, enter stock symbol = AMC
Expected Result	The sentiment of AMC: {'POSITIVE': 0, 'NEGATIVE': 0, 'NEUTRAL': 5, 'MIXED': 0}. For all options, please write "Menu".



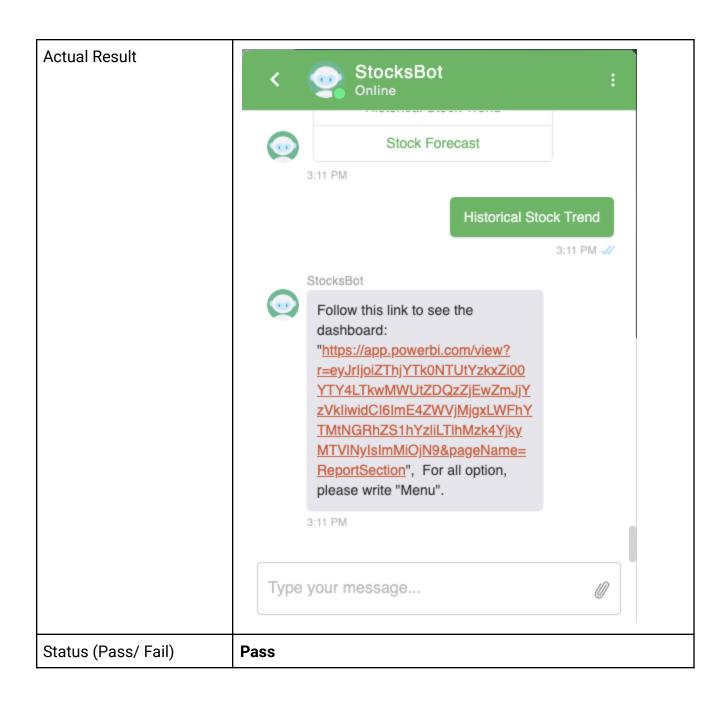
#### Use Case IV: Current Stock Price

Test Case Id	10
Option chosen	Current Stock Price

Test title	Real time stock via Yahoo Finance for any stock ticker.	
Test design date	04/21/2021	
Test execution date	04/29/2020	
Test data	Write "Current Stock Price" in the chat box	
	Then, Enter Stock Ticker: AMC	
Expected Result	Open:10.17, Close:10.21, High:10.21, Low:10.17, Volume:0.0, Adj:10.21,	
Actual Result	StocksBot Online Stock Forecast 3:12 PM  Current Stock Price	
	3:12 PM -//	
	StocksBot  Enter Stock Ticker:  3:13 PM  AMC	
	3:13 PM 🕢	
	Open:10.35, Close:10.35, High:10.35, Low:10.35, Volume:0.0, Adj:10.35,	
Status (Pass/ Fail)	Pass	

# Use Case V: Historical Stock Analysis Trend

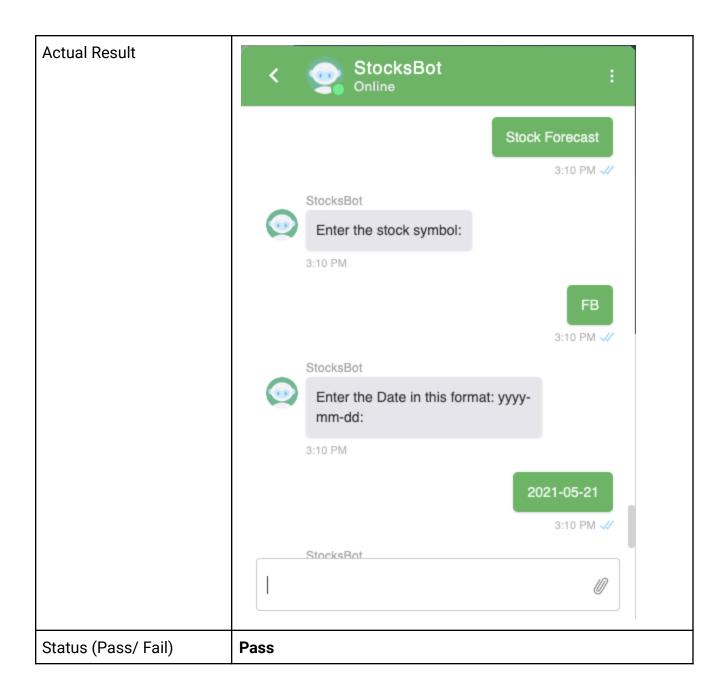
Test Case Id	11
Option chosen	Historical Stock Trend
Test title	Stock Analysis Dashboard
Test design date	04/23/2021
Test execution date	04/29/2021
Test data	Write "Historical Stock Trend" in the chat box
Expected Result	Follow this link to see the dashboard:  "https://app.powerbi.com/view?r=eyJrljoiZThjYTk0NTUtYzkxZi00YTY4L



#### Use Case VI: Stock Forecast Trend

Test Case Id	12
Option chosen	Stock Forecast

Test title	ML Model to perform predictions Random String Input and subsequently Random future Date Input
Test design date	04/26/2021
Test execution date	04/29/2021
Test data	Write "Stock Forecast" in the chat box  Enter the stock symbol: FB Enter the Date in this format: yyyy-mm-dd: 2021-05-21
Expected Result	\$267.31

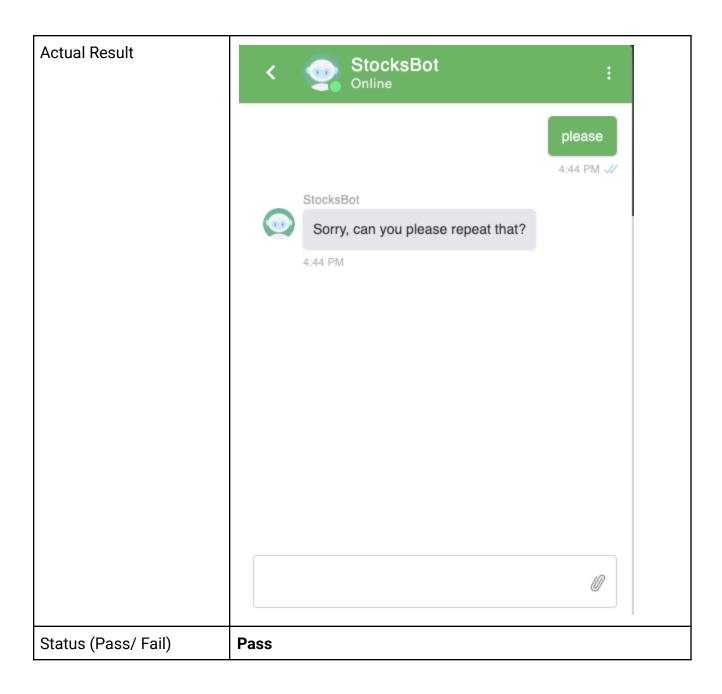


## Use Case VII: Chat bot options

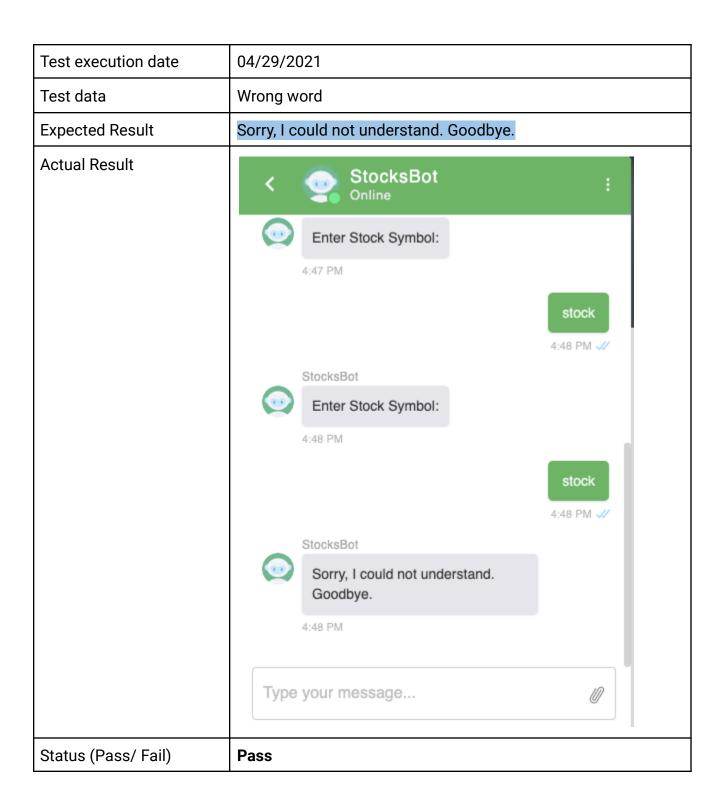
Test Case Id	12	
Test Gase iu	13	

Option chosen	Menu	
Test title	Menu option	
Test design date	04/26/2021	
Test execution date	04/29/2021	
Test data	Either write "Menu" or "Help" in the chat box	
Expected Result	Menu option	
Actual Result	StocksBot :	
	Help 3:12 PM	
	StocksBot	
	Can you please select one of the following option:	
	Reddit Trending Talk	
	Current Stock Price	
	Historical Stock Trend	
	Stock Forecast	
	3:12 PM	
	Type your message	
Status (Pass/ Fail)	Pass	

Test Case Id	14
Option chosen	Menu Clarification
Test title	Input Check
Test design date	04/26/2021
Test execution date	04/29/2021
Test data	Wrong word
Expected Result	Sorry, can you please repeat that?



Test Case Id	15
Option chosen	Hang-up phrase
Test title	Wrong Input Check
Test design date	04/26/2021

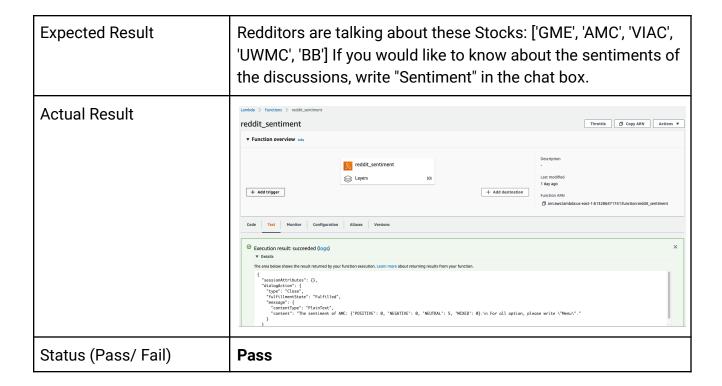


### Use Case VIII: Lambda execution

#### Test Case 16

Test Case Id	16
Option chosen	Reddit Trending Talk (Backend)
Test design date	04/26/2021
Test execution date	04/29/2021
Test data	Trigger by chat response "Reddit Trending Talk"
Expected Result	Thank you for your response! If you would like to see trending stocks, please write 'Reddit Stock' in the chatbox
Actual Result	reddit-news  Function overview total  Function
Status (Pass/ Fail)	Pass

Test Case Id	17
Option chosen	Reddit Stock (Backend)
Test design date	04/26/2021
Test execution date	04/29/2021
Test data	Trigger by chat response "Reddit Stock"

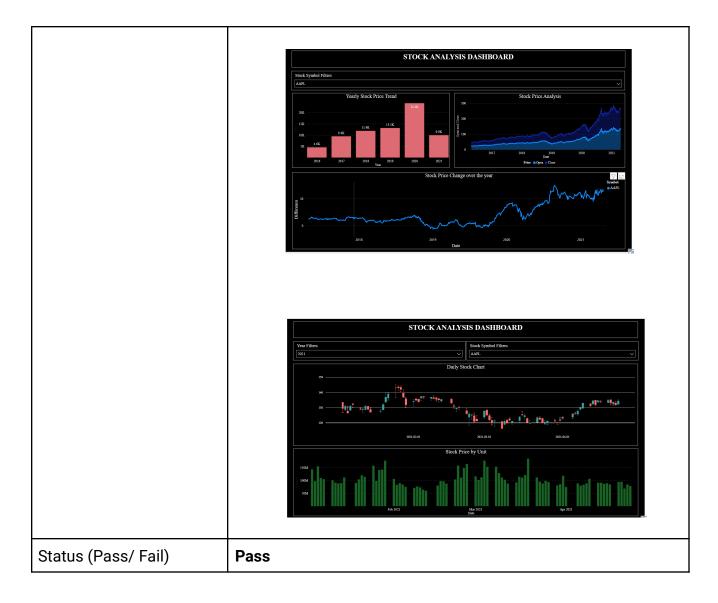


Test Case Id	18
Option chosen	Reddit Stock Sentiment (Backend)
Test design date	04/26/2021
Test execution date	04/29/2021
Test data	Trigger by chat response "Sentiment"
Expected Result	The sentiment of AMC: {'POSITIVE': 0, 'NEGATIVE': 0, 'NEUTRAL': 5, 'MIXED': 0}. For all options, please write "Menu".



Test Case Id	19
Option chosen	Reddit current stock price (Backend)
Test design date	04/26/2021
Test execution date	04/29/2021
Test data	Trigger by chat response "Current Stock Price"
Expected Result	Open:10.17, Close:10.21, High:10.21, Low:10.17, Volume:0.0, Adj:10.21
Actual Result	Stock-finance  V Function overview to took-finance  List modified 3 days app  1 Add trigger  Add trigger  Add destination  Code  Test  Monitor  Configuration  Aliases  Versions  Versions
Status (Pass/ Fail)	Pass

Test Case Id	20
Option chosen	Historical Stock Analysis Trend (Backend)
Test design date	04/26/2021
Test execution date	04/29/2021
Test data	Trigger by chat response "Historical Stock Trend"
Expected Result	Follow this link to see the dashboard:  "https://app.powerbi.com/view?r=eyJrljoiZThjYTk0NTUtYzkx 00YTY4LTkwMWUtZDQzZjEwZmJjYzVkliwidCl6ImE4ZWVjMj LWFhYTMtNGRhZS1hYzliLTlhMzk4YjkyMTVlNylsImMiOjN9& geName=ReportSection", For all option, please write "Menu".
	Disjects   Properties   Permissions   Metrics   Management   Access Points
	Status Name Description  V Everts Builds  DuichProcess-Files



Test Case Id	21
Option chosen	Stock Forecast (Backend)
Test design date	04/26/2021
Test execution date	04/29/2021
Test data	Trigger by chat response "Stock Forecast"
Expected Result	\$267.31

