Spring Walkthrough

December 26, 2022

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1 Introduction to Spring

The potential for Algo trading in India is enormous. People favour making informed trades by analysing data and timing the execution of their trades. Utilising computer programmes in many elements of trading is nearly a requirement because of the competitive and volatile markets of today. As algo trading enters the Indian retail market, ICICIdirect provides its customers with a comprehensive solution.

1.1 What is it?

This platform was created with all types of traders and investors in mind. However, not all of the strategies offered on the platform are appropriate for all traders/ investors. It provides an environment for research and trading of systematic investment strategies. It supports a variety of instruments and asset types, including F&O and Equities. In the future, we intend to introduce this for more asset classes. This platform is additionally style agnostic. Creating complex (and simple) strategies is made simple, and it is frictionless to transition a strategy from backtesting to live trading and monitoring.

1.2 What is it not?

While it can trade in real-time, it is not meant for any kind of high-frequency trading (HFT).

1.3 What can we do with it?

You can perform analysis on your concepts, back-test them, and then use our techniques in realworld or even on paper trading. Your thoughts can be turned into trading methods with the aid of this platform.

To comprehend the Spring universe, please refer to the diagram below.

1.4 How to get started?

Follow the below steps to get started with the Spring platform. These steps are illustrated in detail in the upcoming sections.

- 1. Creating Strategies
- 2. Testing
- 3. Live Trade
- 4. Monitoring

Go through the final section Navigate Through Spring, for a walkthrough of the platform.

2 Creating Strategies

You can research on this platform and create your own strategies using the tools Spring provide. We provide four offerings for creating strategies: No Code, Parameterised, Full Code, and Scribe.

2.1 No Code

(Coming Soon)

Don't worry if you're intimidated by or unfamiliar with coding. You can design your own strategies using our visual programming tool.

Path: Spring > Research Lab > Create > Build Visually

2.2 Full Code

This platform has a python environment where if you can code it, you can run it. This platform supports all the essential python libraries necessary for trading. To code more efficiently and flawlessly you can refer to the technical documentation.

Path: Spring > Research Lab > Create > Code My Strategy

2.3 Parameterised

These are pre-built strategies that allow you to modify the parameters to suit your preferences. Before modifying the default parameters, you are encouraged to carefully go through the strategy descriptions and parameters, and understand the impact of them. You can find these strategies under the Discover section of the platform. We offer two kinds of parameterised strategies that are described below.

2.3.1 Alpha Strategies

A variety of strategies with the potential to outperform the benchmark or provide us a competitive advantage. Each strategy has a complete description that includes the strategy logic, parameters used, their value type, and risk parameters of the strategy.

Path: Spring > Discover > Strategies

2.3.2 Smart Orders

Smart orders help you execute pre-determined trades efficiently. Different types of executions are available that aim to optimize impact cost, time-to-fill, slippage, market timing or a combination thereof. The customer gets the benefits of automated and faster execution, less slippage, and improved timings.

Path: Spring > Discover > Smart Orders

2.4 Scribe

(Coming Soon)

You are welcome to consult with our professionals, who will code your strategies for you.

3 Testing

After creating a strategy, you might not want to execute it right away. Instead, you might like to test and verify the strategy to see if it produces the desired results. We provide a number of tools to help you test your strategies before going live. These tools are classified into the following categories:

3.1 Backtest

By backtesting, you may determine whether the logic behind the strategies we supply or the ones you create is producing favourable results or not. You can tweak the parameters under the parameterized strategies and backtest them. For your designed strategies, you can backtest and re-design them. We have two types of backtests: Quick and Full Backtests. See figure 1 for reference.

\equiv			Total Profit	Algo Running 0		
	Backtest	Description				
លិ	A > Discover > S	Strategies > Abdr > Backtest > 1	New			
剄	abdr				Full Backtest	Start Trading
Q	NEW BACKTEST	SAVED BACKTEST				
	Parameters DATASET Nse START DATE 01/09/2022 END DATE 14/12/2022 CAPITAL 100000	-		Quick Run Graph		
	Quick Backtest					

Figure 1: Backtest page

3.2 Quick Backtest

Quick backtest runs simulations of the strategy performance based on historical data with a reduced set of metrics calculations and shows the result in real-time. Also the result of the backtest is not saved when run in the quick mode.

Ξ				Total Profit 0 A	Igo Running 0		
	Backtest	Desc	ription				
	♠ > Discover > S	trategie	s > Long_momentum_test_file	> Backtest > New			
ì	Long_momentum	n_test				Full Backtest	Start Trading
۹	NEW BACKTEST		Parameters		×		
	Parameters		Strategy Parameters				
	Nse	~					
			LOOKBACK	FREQUENCY	SHORT_SMA		
	01/03/2022	•	375	5	5		
			LONG_SMA	STEP 🔞	MAX_MOVE		
	12/12/2022	•	60	20	3		
			MARGIN	LOTS 😰			
	1500000		0.15	1			
					Run Quick Backtest		
	Quick Backtest		1				

Figure 2: This page pops up when you start a quick backtest. Here you can tweak your parameters.

3.2.1 How to use?

- Open any strategy or any bot to start a quick backtest.
- Select the backtest parameters i.e. Dataset, Start Date, End date, Capital.
- Click on "Quick Backtest": It will pop up a screen where you can tweak the parameters, as shown in figure 2.
- Once you're all set, click on 'Run Quick Backtest' and wait for the output. This streams the results in real-time to the result window.
- The result window has three tabs: Performance, Console, and Logs. Go through the tabs to analyze the result.

Performance: Here the performance graph is displayed along with the parameters described below. Refer to figure 3.

- Returns Profit percentage on the capital over the backtest period
- Alpha The excess return of the stock with respect to the benchmark.
- Beta A measure of sensitivity with respect to the benchmark.
- Sharpe A comparison of the return of your investment with its risks.
- Drawdown A measure of downside risk.

M	banknifty				Full Backtest	Start Trading
Q	NEW BACKTEST SAVED BACKTEST	Performance	Console Lo	as		
>	Parameters DATASET Nse ~ START DATE	RETURNS 3.07%	ALPHA -0.16	вета 0.74	sharpe 1.74	DRAWDOWN -5.62%
	01/03/2022 END DATE 08/04/2022 CAPITAL	108k				• • • •
	100000 Quick Backtest	104k				
		98k 96k 94k				rformance nchmark
		Mar (2022		Mar 20 M	Mar 27 Apr 3	

Figure 3: Performance of your strategy under quick backtest

Console: It keeps track of all the actions taken by the user or the platform. Refer to figure 4.

\equiv		Total Profit () Algo Running ()
	Backtest D	Description
លិ	A > Discover > Strate	tegies > Long_momentum_test_file > Backtest > New
剄	Long_momentum_t	test Full Backtest Start Trading
Q	NEW BACKTEST	SAVED BACKTEST
	Parameters	Performance Console Logs
	DATASET	
	Nse	✓ [USER]
	START DATE	Starting strategy Nifty Futures Scalping (Intraday) with parameters {'lookback': 375, 'freque
	01/03/2022	
	END DATE	
	12/12/2022	
	CAPITAL	
	1500000	
	Quick Backtest	

Figure 4: All the actions taken by the user/platform under quick backtest

Logs: It displays the errors if any, the output results of the code, and the simulations. Refer to figure 5.

\equiv				Total Profit	Algo Running 0		
	Backtest	Description					
ŵ	♠ > Discover >	Strategies > Long_r	nomentum_test_file	> Backtest > New			
剄	Long_momentu	ım_test				Full Backtest	Start Trading
Q	NEW BACKTEST	SAVED BACKTE	EST				
	Parameters		Performance	Console	Logs		
	DATASET						
	Nse	~	[L0G]				
	START DATE		Starting ba	cktest with Long_m	omentum.py		
	01/03/2022		[LOG]				
	END DATE		engine: 2.1	.0, broker:nse-bac	ktest, timezone:Asia/C	alcutta, total sessions:205	
	12/12/2022		[LOG]	n complete time t	aken 0:03:26.100000.		
	CAPITAL		bucktest fu	in comprete, came e	aken 0.031201100000.		
	1500000						
	Quick Backtest						
	Quick Backtest						

Figure 5: Output results of the code, if any, and simulations or the errors are displayed here in the Logs tab

3.3 Full Backtest

You should opt for a full backtest when you want to study the result thoroughly and save it for future reference. A full backtest provides various parameters to analyze the result.

3.4 How to use?

- Open any strategy to start a full backtest.
- Click on 'Full backtest'. It will pop up a screen where you can tweak the parameters, as shown in figure 6.
- Once you're all set, click on 'Run Full Backtest' and wait for the output. Full backtest runs in the background and results are made available once it completes the run.
- After performing a Full backtest, the result is categorized and displayed in the following tabs: Key Metrics, Tear sheet, Error Log, Output Log, and Code.

\equiv			Total Profit 0 Algo	Running 0		
	Backtest Desc	ription				
លិ	A > Discover > Strategie	- .		×		
ы	Long_momentum_tes	Parameters			Full Backtest	Start Trading
	NEW BACKTEST	Backtest Parameters				
Q	_	DATASET	START DATE	END DATE		
	DATASET	CAPITAL 1500000				
	Nse V					
	01/03/2022	Strategy Parameters				
	END DATE 12/12/2022	LOOKBACK	FREQUENCY	SHORT_SMA		
	CAPITAL	375 LONG_SMA	s Step 🕜	s Max_Move		
		60 Margin	20 LOTS	3		
	Quick Backtest	0.15	1			
				Run Full Backtest		

Figure 6: Tweak your parameters for performing a full backtest

Key Metrics Here you get a performance graph of strategy vs benchmark along with the parameters described below. Refer to figure 7 for a clear idea.

- Start Date The start date of the backtest period
- End Date The end date of the backtest period
- Starting Capital The starting capital of the backtest
- Ending Capital The amount you have, including P&L, after the backtest is completed
- Alpha The excess return of the stock with respect to the benchmark
- Beta A measure of sensitivity with respect to the benchmark
- Annual Return Annualized profit percentage of the strategy
- Cumulative Return Total return over the backtest period
- Annual Volatility Annualized volatility of the strategy daily returns
- Sharpe Ratio a comparison of the return of your investment with its risks
- Volatility Volatility of the strategy daily returns
- Max Drawdown A measure of downside risk

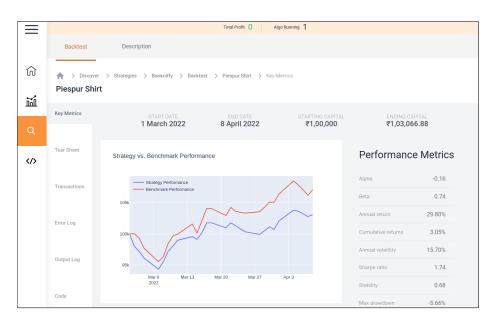


Figure 7: A performance graph of strategy vs benchmark along with some parameters to analyze the result

Tear sheet One pager overview of performance. Represents strategy vs performance metrics, metrics distribution, monthly returns heatmap, and per-trade statistics. Refer to figure 8.

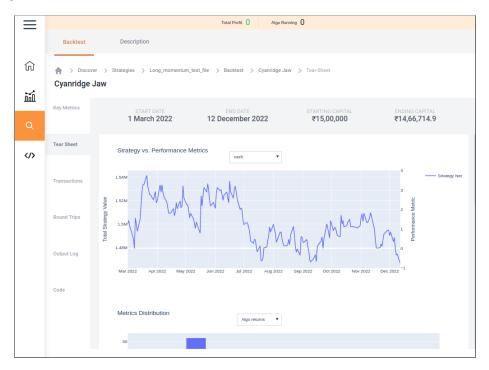


Figure 8: One pager overview of performance

Transactions The transactions tab displays all the transactions placed under the corresponding full backtest with details. Refer to figure 9.

\equiv			Total Profit 0	Algo Running 0	
	Backtest	Description			
លិ		> Strategies > Long_momentum_test_file >	Backtest >	Cyanridge Jaw 🖒 🏾	fransactions
剄	Cyanridge Jaw	Symbol Name	Quantity	Price	Date
Q		NIFTY20220331FUT	50.0	₹16,789.8	1 March 2022 at 9:36:00 am
	Tear Sheet	NIFTY20220331FUT	-50.0	₹16,789.8	1 March 2022 at 3:06:00 pm
	Transactions	NIFTY20220331FUT	-50.0	₹16,639.95	2 March 2022 at 9:36:00 am
		NIFTY20220331FUT	50.0	₹16,578.8	2 March 2022 at 3:06:00 pm
	Round Trips	NIFTY20220331FUT	50.0	₹16,673.4	3 March 2022 at 9:36:00 am
		NIFTY20220331FUT	50.0	₹16,654.85	3 March 2022 at 9:41:00 am
	Output Log	NIFTY20220331FUT	50.0	₹16,641.4	3 March 2022 at 10:06:00 am
	Code	NIFTY20220331FUT	-150.0	₹16,627	3 March 2022 at 10:08:00 am
		NIFTY20220331FUT	-50.0	₹16,275.5	4 March 2022 at 9:36:00 am
		NIFTY20220331FUT	-50.0	₹16,330	4 March 2022 at 12:36:00 pm
		NIFTY20220331FUT	-50.0	₹16,353.5	4 March 2022 at 12:41:00 pm

Figure 9: All transactions placed under the full backtest.

Round Trips The Round Trips displays details of those positions which were squared off during the backtest.

Output Log keeps track of all the output generated by the user and the platform. Refer to figure

Code Displays the strategy code, if you are the owner of the strategy. Refer to figure 12.

3.5 Paper Trade

Paper trade allows you to evaluate your strategy's performance in the real world before taking it live. Although no trading is conducted in the market, the data needed for paper trade is acquired from the live market. It displays the intended outcomes of trading in the live market.

3.5.1 How to use?

• Open any strategy or any paper bot.

=			Total Profit 0 Algo Runnit	na ()			
_	Backtest	Description					
ល៍	Discover Cyanridge Ja	> Strategies > Long_momentum_test_f	file > Backtest > Cyanridge Jaw	> Round-Trips			
ы	Key Metrics		Close date	Symbol Name	Quantity	Buy	Sell
q		1 March 2022 at 9:36:00 am	1 March 2022 at 3:06:00 pm	NIFTY20220331FUT	50.0	₹16,789.8	₹16,789
	Tear Sheet	2 March 2022 at 9:36:00 am	2 March 2022 at 3:06:00 pm	NIFTY20220331FUT	50.0	₹16,578.8	₹16,639
	Transactions	3 March 2022 at 9:36:00 am	3 March 2022 at 10:08:00 am	NIFTY20220331FUT	150.0	₹16,656.55	₹16,627
		4 March 2022 at 9:36:00 am	4 March 2022 at 12:42:00 pm	NIFTY20220331FUT	150.0	₹16,337.35	₹16,319
	Round Trips	7 March 2022 at 9:36:00 am	7 March 2022 at 11:01:00 am	NIFTY20220331FUT	150.0	₹15,868.3	₹15,840
	Output Log	7 March 2022 at 11:06:00 am	7 March 2022 at 1:56:00 pm	NIFTY20220331FUT	100.0	₹15,847.9	₹15,805
	output Log	8 March 2022 at 9:36:00 am	8 March 2022 at 10:08:00 am	NIFTY20220331FUT	150.0	₹15,907.45	₹15,850
	Code	9 March 2022 at 9:36:00 am	9 March 2022 at 3:06:00 pm	NIFTY20220331FUT	100.0	₹16,101.58	₹16,362
		10 March 2022 at 9:36:00 am	10 March 2022 at 1:51:00 pm	NIFTY20220331FUT	50.0	₹16,636.5	₹16,54€
		11 March 2022 at 9:36:00 am	11 March 2022 at 10:36:00 am	NIFTY20220331FUT	150.0	₹16,609.42	₹16,587
		11 March 2022 at 10:41:00 am	11 March 2022 at 10:58:00 am	NIFTY20220331FUT	100.0	₹16,621.45	₹16,58€

Figure 10: Squared off positions

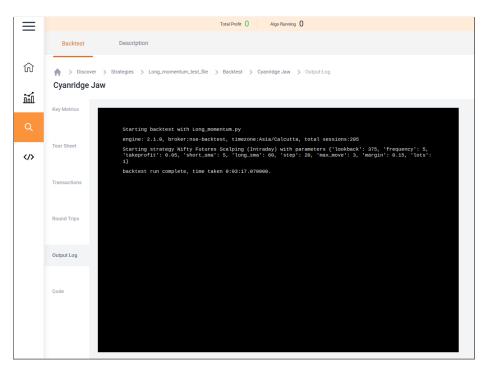


Figure 11: Output Log displays warnings, information, platform messages, errors (if any), and simulations.

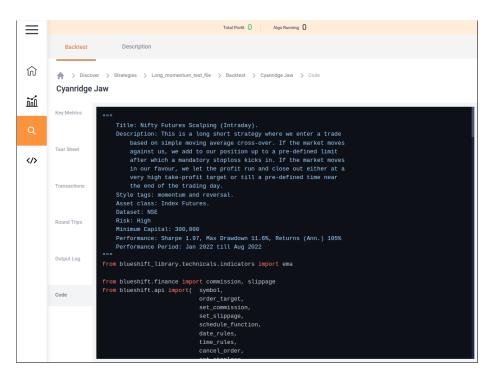


Figure 12: Strategy code

- Click on 'Start Trading'. In the case of a paper bot, click on 'Restart'.
- A screen will pop up with two options: Paper Trade and Live Trade. Click on 'Paper Trade'.
- It will lead you to the trading page where you will get 5 steps.
- Step 1- Strategy parameters: Here you will get a short description of strategy parameters and can edit them. Refer to figure 13.
- Step 2- **Execution settings:** You can name this bot, edit the initial capital and end date for execution, and choose one-click execution. Refer to figure 14.
- Step 3- Risk Settings: Edit your risk parameters here. Refer to figure 15.
- Step 4- Terms and Conditions: Here you have to tick the square box to accept the terms and conditions. Refer to figure 16. Clicking in the check box will pop up the T&C. Click on "I Accept" to proceed further. Refer to figure 17.
- Step 5- Confirm Settings: Tick the square box to review deployment settings. Refer to figure 18.

Here you can review the deployment settings and also can review terms and conditions if required. Click on "Close" if satisfied. Refer to figure 19.

This should take you to the 'My Bots' page, and there you can see the status of the deployment. Else you will be taken to Console if there was any occur while deploying the paper trade.

\equiv		Total Profit 0 Algo Runnir	19 O
	Backtest Trading	Description	
	Hading	beachpiton	
ស			
N	Deviler Otrete mu		<u> </u>
	Deploy Strategy:	Long_momentum_test_	file (PAPER)
ы	Strategy Parameters		
Q			
~	LOOKBACK 🔮	FREQUENCY 2	SHORT_SMA
	LONG_SMA	STEP	MAX_MOVE
	00	20	3
	MARGIN 🕑	LOTS	
	0.15	1	
	Next		
	2 Execution Settings		
	3 Risk Settings		
	-		
	Terms and Conditions		
	4		
	Confirm Settings		

Figure 13: First step to paper trade your strategy

\equiv		Total Profit 0 Algo Running 0
	Backtest Trading	Description
ŵ	Deploy Strategy:	Long_momentum_test_file
)ii	Strategy Parameters	
۹	2 Execution Settings	
>	Execution Name	Long paper 1
	Initial Capital	posooe
	End Date	20 /12/2022
	One Click Execution	0
	Previous	
	3 Risk Settings	
	4 Terms and Conditions	
	5 Confirm Settings	

Figure 14: Second step to paper trade your strategy

\equiv			Total Profit 0 Algo Running 0	
	Backte	st Trading Description		
លិ	D	eploy Strategy: Long_m	omentum_test_file	PAPER
M		Strategy Parameters		
Q		Execution Settings		
	3	iisk Settings		
		r der Limit Maximum no of orders that can be sent in a day)	1000	
		ize Limit Maximum size of an order)	1000000	
		raw Down Limit Execution terminates if loss exceeds this percentage)	30	
	[Previous		
	4	erms and Conditions		
	5 0	Confirm Settings		

Figure 15: Third step to paper trade your strategy

Ξ		Total Profit 0 Algo Running 0
	Backtest Trading	Description
ណ៍	Deploy Strateg	y: Long_momentum_test_file 🛛 🚥
Ш	Strategy Parameters	y. Long_momentum_test_me
Q	Execution Settings	
	Risk Settings	
	4 Terms and Conditions	
	I Accept Terms and Condition	s 🛛
	Previous	
	5 Confirm Settings	
	•	

Figure 16: Fourth step to paper trade your strategy

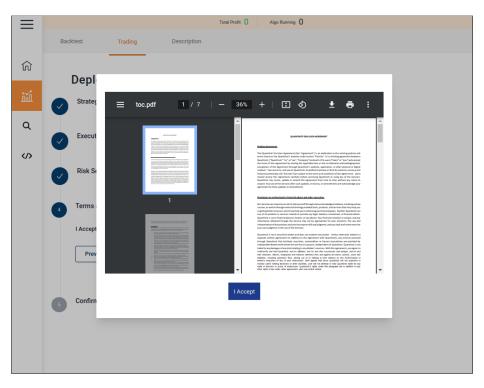


Figure 17: Terms and conditions

\equiv	Total Profit 0 Algo Running 0
	Backtest Trading Description
ណ៍	Deploy Strategy: Long_momentum_test_file
M	Strategy Parameters
Q	Execution Settings
>	Risk Settings
	Terms and Conditions
	5 Confirm Settings
	Review Deployment
	Previous Submit

Figure 18: Fifth step to paper trade your strategy

\equiv			Total Profit	Algo Running 0	
	Backtest Trac	Review			×
ŵ	Deploy Str	Strategy Name		Long_momentum	
M	Strategy Paramet	Mode		PAPER	
Q		Order Execution	One Click (manual execution of trades)	
	Execution Setting	Starting Capital		₹3,00,000	
	Risk Settings	End Date		2022-12-20	
		Strategy Parameters			
	Terms and Condit	lookback: 375 long_sma: 60		hort_sma: 5 nove: 3	
	5 Confirm Settings	margin: 0.15	lots: 1		
	Review Deployment	Risk Settings Order Limit :	Size Limit :	Draw Down Limit :	
	Previous	1000	1000000	30	
	- Tevious	Terms and Conditions		Click here to review.	
				Close	

Figure 19: Review the settings

4 Live Trade

The strategy places orders in the live market once you opt for live trade. Different strategies place live orders in different ways. They are categorized as follow:

4.1 One Touch

With these strategies, we provide you alerts based on the created signals rather than placing trades directly to the exchange. The order is forwarded to exchange only after receiving client confirmation. It enables you to send orders with a single click while keeping an eye on market conditions.

4.2 Automated

These are the strategies that we are proposing. For such strategies, exchange authorisation is required. The strategy can be started, and the algo will handle the trades.

4.3 How to use?

- Open any strategy or any live bot.
- Click on 'Start Trading'. In case of live bot, click on 'Restart'.
- It will pop up a screen with two options: Paper Trade and Live Trade. Click on 'Live Trade'.
- It will lead you to the trading page where you will get 5 steps. These steps are the same as in the case of paper trade. Follow the steps illustrated in the Paper Trade subsection of the Testing section.

5 Monitoring

Once you start trading (live trade or paper trade), your strategy performance will be displayed in bots. In the case of smart orders, they will be displayed under smart order sessions. The bots contain all the details of the corresponding algo execution and offer a few actions that you can take. Go through the following sections for a detailed description.

5.1 Live Bots

Here you can find all the strategies that you have taken live through live trade. You can also create a new bot either via Discover Strategies or by creating a new strategy. For each of the bots, you'll get two options: Know More and Restart.

5.1.1 Know More

Clicking on Know More will lead you to a new page where you'll get four tabs listed below with the 'Stop Algo' option to stop the live execution anytime.

Dashboard: The dashboard shows you the overview of all the trades taken which includes a performance graph, a summary of that strategy, and positions taken by the bot. Refer to figure 20.

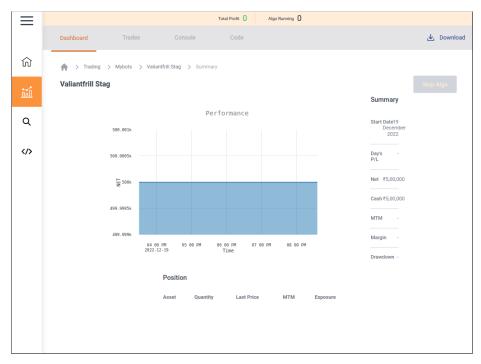


Figure 20: The overview of all the trades taken

The summary section has the following parameters to analyze the backtest result:

- Start Date: The date you started this bot
- Day's P/L: Total P/L (realized and unrealized) for the day for the bot
- Net: The current net value (net equity) of the bot. This equals to the starting capital + total profit and loss (realized or unrealized) till date
- Cash: The amount of initial capital allocated to the bot that is still available as cash
- MTM: Unrealised profit or loss of the bot
- Drawdown: The amount of decline from the top before the bot makes a comeback to the peak

It also has a Positions section that shows the positions taken by the bots, with the following parameters:

- Asset: Script or instruments in which you've taken position
- Quantity: Quantity of the corresponding asset
- Last Price: LTP of the corresponding asset
- MTM: Unrealised profit of the corresponding asset
- Exposure: Total market value of a position. A negative sign indicates a short (sell) position

Trades: This tab gives you the details of the trades taken by the bot.

Console: The console keeps track of all the actions taken on the bot by the user and the platform. Figure 21 gives a clear idea of what a console is.

Code: Here you can find the python code of your strategy if it is coded by you. E.g., figure 22 show a bot run from the discover page (not created by the user), and thus no code is found here.

5.1.2 Restart

You can optionally restart a stopped (or previously completed) bot. For a bot to be able to be restarted, it must have terminated without any error. Restarting a bot will resume the strategy execution with the remaining capitals and existing positions from when the bot was terminated. If you want to start with different parameters, capital or no positions, please launch a Paper or Live Trade instead of a restart. The restart page has three tabs that you can explore: Trading, Backtest, and Description.

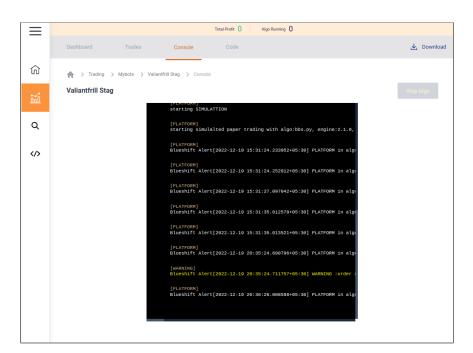


Figure 21: Console displays all the actions taken by the user or the platform, including simulations.

\equiv	Total Profit 0 Algo Rumning 0	
	Dashboard Trades Console Code	🕁 Download
ណ៍	🚔 > Trading > Mytots > Valiantfrii Stag > Code	
M	Valiantfrill Stag	Stop Algo
۹	No code found!	

Figure 22: The overview of all the trades taken

Trading: A click on Restart will lead you to the Trading tab where you will get 5 steps to deploy the strategy and start trading in the live market. The steps are same as described under the Paper Trade or Live Trade subsection of the Testing section.

5.2 Paper Bots

Here you can find all the strategies that you have opted for paper trade. You can also create new bot either via Discover Strategies or by creating a new strategy. For each of the bots, you'll get two options: Details and Restart. In these two sections you will get the same features as in Live Bots. The only difference is that clicking on restart will take you to paper trade page instead of live trade.

5.3 Smart Order Sessions

Smart order sessions are list of all the smart orders those have been deployed. Follow the path: Trading > My Smart Orders, to get the list of all smart order sessions. Here you can check the start date and deployment status (Completed/ Failed/ Stopped/ Active) of each smart order session (rafar to figure). For more details click on a session, which would then display two tabs: Console and Trades.

\equiv		Total Profit 0 Algo Running 0	
	Trading > Smart-Orders My Smart Orders Ø		Cancel All
ŵ	Name	Start Date	Status
ы	Flowertongue	20 December 2022	Stopped
Q	Narrowgoose	19 December 2022	Completed
Q	Steelbeak Sight	19 December 2022	Completed
	Flaxbell Condor	17 December 2022	Completed
	Shallowbutterfl	17 December 2022	Stopped
	Forkgrasp Scar	16 December 2022	Completed
	Lucktaker Mist	16 December 2022	Failed
	Stumpmistres	16 December 2022	Failed
	Purpleknight N	16 December 2022	Failed
	Stumpeye Hiss	16 December 2022	Failed
	<i>~</i>	1 2 3 26 →	

Figure 23: List of all smart order sessions

Console: Console keeps track of all the logs generated, e.g. all the actions taken by the user or the platform. Figure 24 provides more detail understanding of what a console is.

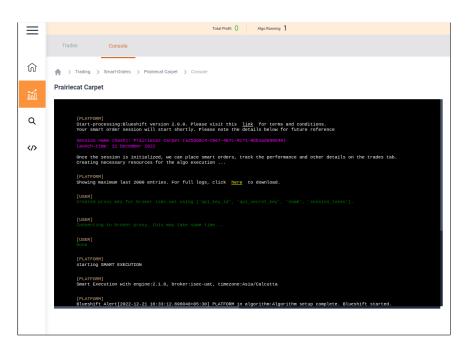


Figure 24: Console of a smart order session

Trades: The Trades page lists all the trades taken in the smart order session. For example, figure 25 shows trades taken in the session named Prairiecat Carpet.

\equiv		Total Profit () Algo Running	1	
	Trades Console			
ល	A > Trading > Smart-Orders > Prairiecat Ca	rpet > Trades		
)ii	Prairiecat Carpet			
۹	Hash	Algo	Status	Filled/Total
	66628452-2a3d-4f0#-9342-403722ed83a2	adaptive	errored	-
>	Hash	Algo	Status	Filled/Total
	821432c6+823#-4be3+#1c9-2132599crbe6	dgfg	rejected	-
	Hash	Algo	Status	Filled/Total
	46915165-e7704-40e9-be2d-f743f30b52a4	dgfg	rejected	-
	Hash	Algo	Status	Filled/Total
	5ee3ab336-6327-46d9-8516-e00829b65e98	iceberg	cancelled	-
	Hash	Algo	Status	Filled/Total
	ce37e250-5c1e-41d0-9c64-ae394d1ed72a	passive_aggressive	errored	-
	Hash	Algo	Status	Filled/Total
	546605a5-5669-4556-513f-1a1a76c33475	market_if_touched	cancelled	-

Figure 25: Trades taken in a smart order session

6 Navigate Through Spring

Let's take a walk through the Spring platform in order to use it more efficiently. The platform is divided into four major sections. These sections are described in detail below.

6.1 Home Screen

All the features are available upfront when a customer enters Spring for the very first time. It introduces the customer to the offerings that are described below. Refer to figure 26.

		Total Profit	Algo Running 0				
=							
Lie	ve Bots 🚥 😰 View all						
ល		Chiselfin Collar	One touch	Rhinestonegoat Scowl	One touch	¢	
		sanity_file		fibonacci_breakout			
剄							
Noll	+		Stopped Status		Stopped Status		>
	Create a new bot	Total Profit		Total Profit	otatao		
Q	ofcate a new bot	Know More	Restart	Know More	Restart		
		Last Active Date: Dec 2	0, 2022 - 10:28 AM	Last Active Date: Dec 19, 2	022 - 11:25 AM		
Pa	aper Bots PAPER 👔 <u>View all</u>						
			One touch		One touch	0	
		Long-paper-1	One touch Q	Regalspur Pig	One Mach	¢	
		Long_momentum		isec_file			
			Completed		Stopped		-
	+	Total Profit	Status	Total Profit	Status		2
	Create a new bot						
		Know More	Restart	Know More	Restart		
		Last Active Date: Dec 2	0, 2022 - 04:39 PM	Last Active Date: Dec 20, 2	022 - 03:35 PM		
51	rategies 👔 View all						
01							
		isec_file		param_testing			

Figure 26: The home page

6.1.1 LiveTrade

You can directly take a strategy to live through paper trade or live trade here.

6.1.2 Discover Strategies

This will take you to the Discover section of this platform.

6.1.3 Smart Orders

This will take you to the page where you can get all the smart orders.

6.1.4 Create Strategy

You can start creating your strategies here either by coding or by building visually.

6.1.5 Trending Strategies

We have a bouquet of strategies designed for the customers. The most used strategies by the customers are showcased here.

6.2 Trading

This section would provide an overview of those strategies that the customer has added to the favourites or has taken to live. It includes:

6.2.1 My Bots

It has a collection of all the bots. These strategies are categorized into two categories:

Live bots: Here you can find all the live bots. Refer to figure 27.

\equiv			Total Profit () Algo Running ()		
ŵ	A > Trading > Mybots My Bots PAPER LIVE PAPER					🗍 Stop All
M	Name	Capital	Start Date	Strategy Name	Returns	Status
шш	Long-paper-1	₹1,00,000	Dec 20, 2022 - 11:38 AM	Long_moment	-	Failed
۹	Long-paper-1	₹3,00,000	Dec 20, 2022 - 11:38 AM	Long_moment	-	Failed
	Noonfriend Thief	₹3,00,000	Dec 20, 2022 - 10:59 AM	abd	-	Stopped
	Valiantfrill Stag	₹5,00,000	Dec 19, 2022 - 03:27 PM	bbs	-	Completed
	Sagevenom Deer	₹5,00,000	Dec 19, 2022 - 01:25 PM	Long_moment	-	Stopped
	Quartzbeak Stinger	₹4,00,000	Dec 19, 2022 - 12:48 PM	Long_moment	-	Stopped
	Yellowseed Curtain	₹3,00,000	Dec 16, 2022 - 12:08 PM	test2	-	Stopped
	Glowbite Wing	₹1,000	Dec 16, 2022 - 10:15 AM	multi_select_st	-	Stopped
	Cutelantern Mark	₹3,00,000	Dec 16, 2022 - 09:29 AM	multi_select_st	-	Stopped
	Pewtertail Jaguar	₹3,00,000	Dec 15, 2022 - 08:55 PM	abd	-	Completed
		<	- 1 2 3 114	\rightarrow		

Figure 27: Collection of all the live bots.

Paper bots: Here you can find all the paper bots. Refer to figure 28.

\equiv			Total Profit 0 Algo Running 0			
	♠ > Trading > Mybots					
~	My Bots 🚥 🔞					🛈 Stop All
ŵ	LIVE PAPER					
	Name	Capital	Start Date	Strategy Name	Returns	Status
M	Chiselfin Collar	₹3,00,000	Dec 20, 2022 - 10:28 AM	sanity_file	-	Stopped
Q	Rhinestonegoat Scowl	₹4,00,000	Dec 19, 2022 - 11:25 AM	fibonacci_brea	-	Stopped
	Fibonacci	₹4,00,000	Dec 16, 2022 - 10:11 AM	fibonacci_brea	-	Stopped
	dasd	₹4,00,000	Dec 15, 2022 - 10:28 PM	abd	-	Stopped
	Fanchanter Warrior	₹5,00,000	Dec 15, 2022 - 08:47 PM	sanity_file	-	Failed
	Checkerscar Raven	₹3,00,000	Dec 15, 2022 - 07:45 PM	sanity_file	-	Stopped
	Fibonacci	₹5,00,000	Dec 14, 2022 - 11:00 AM	fibonacci_brea	-	Completed
	Fibonacci	₹4,00,000	Dec 12, 2022 - 11:31 AM	fibonacci_brea	-	Stopped
			\leftarrow 1 \rightarrow			

Figure 28: Collection of all the paper bots.

6.2.2 My Strategies

It gives an overview of all the strategies that have been added to favourites by the customer. The customer can add chosen strategies here and can start trading directly. Refer to figure 29.

6.2.3 My Smart Orders

It gives an overview of all the smart orders those have been added to favourites by the customer. The customer can add chosen smart orders here and can start executing in one go. Refer to figure 30.

6.3 Discover

This section lists all the offered Strategies and Smart orders. These all include a description section. It includes the logic of the strategy and parameters used along with a short description and default values. The customer can tweak the parameters as per convenience and can choose to either backtest or trade.

Here the customer gets the benefit of pre-designed strategies and smart orders which saves time and provides efficient execution.

_				Total Profit 0 Algo Running 0			
=				Total Profit 0 Algo Running 0			
	> Trading > Strategies					Add New +	Start Trading
ល	My Strategies						
UU	Name	Owner	Min. Capital	Assets	Backtests	Paper Trading	Live Trading
M	bbs ererwerwe	Me	₹9,00,000	Options		1	
Q	Long_moment	Me	₹9,00,000	Options	3	5	-
~	TEST	Me			1	-	
	cccc	Me	-	-	-	-	-
	abdr	Me	₹2,00,000	NSE EQUITIES, BSE, CRYPTO	4	3	1
	crypto-demo-v	Me	₹3,00,000	EQ	-	-	-
	crypto-demo-v	Me	-		-	-	-
	rename	Me	-	-	-	-	-
	file_03	Me	-		-	-	-
	file_02	Me	-		-	-	-
				$\leftarrow \begin{array}{ccc} 1 & 2 & 3 \end{array} \rightarrow$			

Figure 29: Collection of all your favourite strategies.

\equiv		Total Profit 0 Algo Running 0	
	> Trading > Smart-Orders My Smart Orders O		Û Cancel All
លិ	Name	Start Date	Status
ы	Flowertongue	20 December 2022	Stopped
Q	Narrowgoose	19 December 2022	Completed
~	Steelbeak Sight	19 December 2022	Completed
	Flaxbell Condor	17 December 2022	Completed
	Shallowbutterfl	17 December 2022	Stopped
	Forkgrasp Scar	16 December 2022	Completed
	Lucktaker Mist	16 December 2022	Failed
	Stumpmistres	16 December 2022	Failed
	Purpleknight N	16 December 2022	Failed
	Stumpeye Hiss	16 December 2022	Failed
	\leftarrow	1 2 3 26 →	

Figure 30: Collection of your selected smart orders.

6.3.1 Strategies

Here the customer gets pre-designed algos with editable parameters. The customer can tweak the parameters to get expected results from backtests. Refer to figure 31. A click on know more will take you to the description page where you can read details about the strategy and the parameters. An overview of the description page is shown in figure .

\equiv	Total Profit () Algo Running 1						
	A > Discover > Strategies						
ណ៍	Discover Strategies	0					
UU	() Disclamier						
ñ	Please note, these strategies are meant for educational purposes and are not to be construed as recommendation. Backtest results are hypothetical results generated based on the conditions used on historical data, and don't represent actual returns or future returns.						
Q		based on the conditions	useu on historicar uata, anu u	on represent actual retu	nis of future returns.		
	Search strategies Q	1 1					
	Nifty Weeklies Short		Aroon_Momentum		Long_Only_Moment		
	Options High Risk		Futures High Risk		Equities Medium Risk		
	Short straddle (theta harvesting) strategy Know more		Aroon Momentum Strategy (Intraday) for Nifty This is a long only momentum stra Futures				
	BACKTEST HIGHLIGHTS		BACKTEST HIGHLIGHTS BACKT		BACKTEST H	ST HIGHLIGHTS	
	13% Total Returns	1.1 Sharpe Ratio	12% Total Returns	0.7 Sharpe Ratio	15% Total Returns	0.8 Sharpe Ratio	
	Backtest	Trade	Backtest	Trade	Backtest	Trade	

Figure 31: Collection of all the strategies.

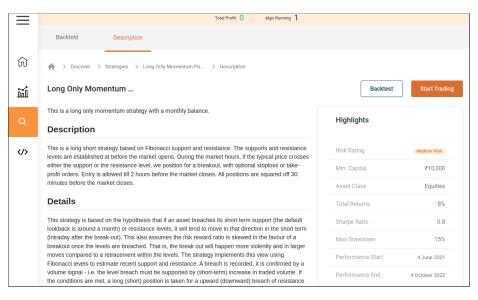


Figure 32: Description of a strategy

6.3.2 Smart Orders

Smart orders help you execute pre-determined trades efficiently. Figure 33 shows the list of smart orders offered under the Discover Smart Orders section. To deploy these smart orders click on 'Place Order' of a smart order card of your choice. For example, let's choose Adaptive, and click on the 'Place Order' button on the Adaptive card. It would take you to the deployment page followed by two steps that are explained below.

=	Total Profit () Algo Running ()				
	★ > Discover > Smart-Orders Discover Smart Orders ● Search strategies Q				
ы	Limit-If-Touched	Market-If-Touched	lceberg		
Q	Place limit order conditional on a price target being achieved Know more	Place market order conditional on a price target being achieved Know more	Slice up a large order to smaller orders to reduce market impact Know more		
	Place Orders	Place Orders	Place Orders		
	Adaptive Place an optimistic limit order and then adapt to market movement to balance price and time to fillKnow more Place Orders	Passive Aggressive Places a limit order and cancet the original order after a timeout, with the option to convert it to Know more Place Orders			

Figure 33: Collection of all the smart orders.

- Step 1- Smart Order parameters: Tweak the parameters of the smart order at your convenience. Refer to figure 34.
- Step 2- Confirm Settings: Click on the check box provided to review settings as shown in figure 35.

Review: Review and confirm your settings by clicking on 'Confirm', as shown in figure 36.

6.4 Research lab

This section lets you convert your idea into a trading strategy. If you have a logic in place, you can trade using our platform. Refer to figure 37.

Clicking on 'Create' will show a pop up with three options:

\equiv		Total Profit 0 Algo Running	1		
	Description				
	Deploy Smart Order: Adaptive: Smart Order Parameters				
<u>الا</u>					
Q	ASSET O	QUANTITY 🔞	SIDE 🔞		
	TIMEOUT	DELAY	CONVERT_TO_MARKET		
	OFFSET_DECAY	PRICE_OFFSET			
	Next				
	2 Confirm Settings				

Figure 34: First step of smart order deployment to tweak the parameters

\equiv	Total Profit 0 Algo Running 1			
	Description			
G ゴ	Deploy Smart Order: Adaptive: Image: Comparent of the second			
۹	2 Confirm Settings			
	Review Deployment			
	Previous Submit			

Figure 35: Second step of smart order deployment to review settings

6.4.1 Create Folder

Create a new folder to store your strategies in categories.

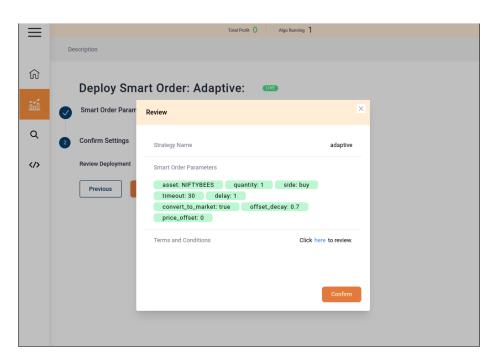


Figure 36: Confirm settings

		Total	Profit 0 Algo Running 0			
	☆ > Research > Files Research Lab ⑦				Crea	te +
លិ	Name	Status	Туре	Last updated	Backtest	
ы	> cccc	Private	Python Strategy	17 December 2022	-	:
۹	> abd	Published	Python Strategy	17 December 2022	4	:
	crypto-demo-v23	Private	Python Strategy	17 December 2022	-	:
	Crypto-demo-v233	Private	Python Strategy	17 December 2022	-	:
	Sanity_15	Private	Folder	15 December 2022	-	:
	multi_select	Private	Folder	15 December 2022	-	:
	QA_test_folder	Private	Folder	13 December 2022		:
	Test_folder	Private	Folder	13 December 2022	-	:
	asklla	Private	Folder	13 December 2022	-	:
	test 🖿	Private	Folder	13 December 2022		:
		\leftarrow	1 2 →			

Figure 37: Collection of your created strategy.

6.4.2 Build Visually

(Coming Soon)

If you are unfamiliar to coding, you can build your strategy here. You can also provide a detail description of the strategy you are building, and showcase the parameters used.

6.4.3 Code My Strategy

Use the python environment to code and build your own strategy. You can provide a detail description of the strategy you are building, and showcase the parameters used.