
TEST CASE DOCUMENT

<1>-<Final test case>

<STOCK TRADING SOFTWARE>

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1 Document Control

1.1 Change History

Name	Position	Date	Document Version	Description of Change Including Section of Script
Kevin Kukadiya	owner	10/5/2020	1	-
Mihir Kanjariya	reviewer	11/5/2020		section-04 Process flow added

1.2 Table of Contents

1	DOCUMENT CONTROL	2
1.1	CHANGE HISTORY	2
2	TABLE OF CONTENTS	3
3	FUNCTIONAL SYSTEM TEST	4
3.1	INTRODUCTION/OVERALL TEST OBJECTIVES	4
4	LIMITATIONS/DEPENDENCIES/REQUIREMENTS	5
4.1	TEST CASE LIMITATIONS	5
4.2	TEST CASE DEPENDENCIES / ASSUMPTIONS	5
4.3	DEFAULT SETUP	5
4.4	PROCESS FLOW	5
5	<TEST CAST NAME>	6
	<i><Login/Register phase></i>	<i>6</i>
	<i><New order></i>	<i>6</i>
	APPENDIX:	7

2 Functional System Test

2.1 Introduction/Overall Test Objectives

This test case is intended to verify that the following functionality is working successfully:

- Whole software as one integrated system
 - All employed functionality
 - Business logic employed
 - Robustness of system
 - System interaction with database
 - Security features
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3 Limitations/Dependencies/Requirements

3.1 Test Case Limitations

Test case performed here is with only one user at time active into the system.

3.2 Test Case Dependencies / Assumptions

- Initial assumption is that, stock-market server is always available and there is no failure there at any time.
 - At the time of new registration, the user will enter correct personal data and personal identity cards like adhar-card and pan-card.
 - User's balance in a demat account can not go negative at any point of time.
 - Users always remember the register Email id.
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3.3 Default Setup

Stock market server(event) is live. Server at our end is live. Client is logged in to the system through his unique id and password. He/She has sufficient balance in demat account to transect and place orders.

3.4 Process Flow

Testing Phase in orders

- 1. Register Phase**
- 2. Login Phase**

2.1 Forgot Password option

- 3. New Buy Order placement**
- 4. New Sell Order placement**

4.1 Sell directly from Positions/Holdings

- 5. Order log display**
 - 6. Positions/Holdings log display**
 - 7. Add/Withdraw funds**
 - 8. Personalized marketwatch feature**
-

4 Test Case

<Login/Register phase>

Step Num	Step Description	Path and Action	Test Data	Expected Results	Pass/Fail	Comments
01.	Enter client-id and Password	Check and match it with data stored in database	client_detail login_cred	1 if entered credential correct then let user login into the system 2 else throw error of invalid credential	Pass	
02.	Forgot password option	let user enter register email-id and verify OTP	client_detail login_cred	1 OTP is correct - let user create new password 2 OTP is incorrect- throw error and let user enter OTP again	Pass	

<New Order request by user>

Step Num	Step Description	Path and Action	Test Data	Expected Results	Pass/Fail	Comments
01.	New order Placement	1 select stock-name from dropdown 2 Enter quantity 3 select order type i.e. MARKET/LIMIT 4 select position type i.e. MIS/Delivery 5 click Buy/Sell	Orders, sellOrders Holdings, Positions demate_account_balance_detail Stock_detail stock market event(server) response	1 Buy order if user have required funds then order is placed otherwise throw error of insufficient funds and order failed 2 Sell Order if user have underlying stocks with their account in required quantity then order is placed successfully otherwise throw error	Pass	
02.	Buy Order execution	Separate MARKET and LIMIT order logically and check for pending orders at every predefined time	Orders Holdings, Positions demate_account_balance_detail Stock_detail	1 MARKET order if position type is MIS then add respective stocks and quantity into client's Open Positions and deduct the balance according to business logic in case of Delivery type position add espective stocks and quantity into client's Holdings and deduct the required money for purchasing the same from client;s fund 2 LIMIT order if current price of respective security is less	Pass	

				than or equal to LIMIT price then execute the order and initiate same steps as MARKET order		
03.	Sell order execution	Separate MARKET and LIMIT order logically and check for pending orders at every predefined time	sellOrders Holdings, Positions demate_account_balance_detail Stock_detail	1 MARKET order if position type is MIS then remove respective stock's passed quantity from client's Open Positions and calculate P&L based on this transaction. Add/Deduct money from client balance accordingly. in case of Delivery type position remove respective stock's passed quantity from client's Holdings and calculate P&L based on this transaction. Add/Deduct money from client balance accordingly. 2 LIMIT order if current price of respective security is greater than or equal to LIMIT price then execute the order and initiate same steps as MARKET order	Pass	
End						

Appendix: 1

ABBREVIATIONS

MARKET Order : Buying/Selling of stocks at the current price or at the current best Bid/Ask

LIMIT Order : Buying/Selling of Stocks at particular Bid/Ask price

Bid price : Maximum price buyer want to bid for the particular stock

Ask price : Minimum price seller is asking for their stocks to be sold

Positions : Stocks/tradable instruments will appear here if any margin money is used to trade.

Holdings : Stocks that users own and for which users have already paid cost of owning will appear here.

