# Test Plan

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## Test Objectives

* Validate the correctness of input data processing.
* Confirm the accuracy of calculations for profit/loss.
* Verify the proper display of trading details and dynamic lists.

## 2. Test Plan

Test Case 1: Valid Input

Provide valid inputs for stock symbol, shares, price per share, sell price, and purchase date.

Ensure the system accepts and processes the input without errors.

Test Case 2: Invalid Input

Provide invalid inputs (e.g., negative shares, non-numeric price) and verify that the system rejects them and provides appropriate error messages.

Test Case 3: Profit Calculation

Input a set of transactions with known profit/loss.

Verify that the system accurately calculates the total profit/loss.

Test Case 4: Display Transactions

Input multiple transactions.

Confirm that the dynamic list displays all transactions, including stock symbol, shares, price per share, sell price, and purchase date.

Test Case 5: Sorting Transactions

Input transactions with different dates.Verify that the dynamic list can be sorted by purchase date in ascending and descending order.

Test Case 6: Integration with External Data

Integrate the system with external stock market data.

Verify that the system can fetch and process real-time stock prices.

Test Case 7: Large Data Sets

Input a large number of transactions. Confirm that the system can handle and process the data efficiently without performance degradation.

Test Case 8: User Interface

Evaluate the user interface for intuitiveness. Confirm that users can easily input transactions and interpret the displayed data.