**Stock Portfolio Tracking**

# Summary -

1. User should be able view Summary of all the shared in his portfolio. It should show all the different shares, total shares, current price, profit/loss and net profit/loss of the portfolio.
2. User should be able to add new shares, its quantity, purchase and/or sell price to the portfolio.
3. Additionally, user should also be able to see other assets like Mutual funds, Debts, etc.

# Details -

## Add New Stock to Portfolio-

1. User can add new shares and add details like Name, number of shares, purchase/ Sold, transaction date, transaction price.
2. This action should create records in 2 separate objects (Portfolio Stocks which includes fields like stockId, stock name, total shares, net buy price, current price, profit/loss) and My Transactions (StockId, number of shares, purchase/ Sold, transaction date, transaction price).
3. Implementation - This dual action is applicable for VF or Custom lightning page. Using Std screens, it will be 2 step process.

## Add Stock Price -

1. Use data loader, workbench or any other tool to load stock price csv data.
2. There should be Stock price object which will capture the price of each stock.
3. Note - it will have only 1 record for each stock and that will indicate the latest price.
4. Fields of this object can be stock name, price date, Open Price, High Price, Low price, close price.
5. The csv file will have similar column. On load of this data, the current price in Portfolio Stock record should get updated. Which will automatically update its profit/loss.
6. The update can be achieved using process builder/ flow or even using formula field if lookup of the stock price is populated there.

## Show Portfolio Details -

1. show data from portfolio stock object.
2. Total shares will be rollup Summary of My transaction.
3. Total volume will be rollup summary of my transaction.
4. Every buy will increase the rollup summary value while sell will decrease.
5. Net Buy price will be Rollup summary of ((price\*number of shares)/total number of shares) of Purchase type of records in My transactions object.
6. Profit will be Total Share \* (current price - net buy price).
7. While Net profit loss of the portfolio will be the summation of profit loss of all the stocks in your portfolio.
8. Implementation - VF, Custom Lightning screen should create UI. For Standard implementation, use Report

Data Model

1. Portfolio(PortfolioId, Name)
2. Stock Master (Stockid, Name, Sector, CurrentPrice, open, high, low, close, ltp)
3. MyTransactions (TransactionId, PortfolioId, stockid, buy/sell, price, qty, date)
4. PortfolioStocks (PortfolioId, stockid, totalshares(rollup summary on qty of mytransaction), average buy price, current price, profit/loss, StockPriceId (lookup of Stockprice))

Reference

1. Price File - <https://www1.nseindia.com/products/content/equities/equities/archieve_eq.htm>
2. Domain knowledge - <https://www.indiainfoline.com/knowledge-center/share-market/what-is-share-market>