Enter Dashboard

Two Options

1. Univariate (Single) Stock Analysis
    a. Enter Ticker and Start and End Dates (End Date should be most recent)
        i. On Python, imports data from yfinance library
    b. Run Time Plots should be pulled into the R package (yfinance in Python) and will create Price and Log Returns over time (using matplotlib library, can use seaborn)
    c. Switch Tabs to Summary Statistics, will produce Min, Max, etc. (describe function in Python); complemented with a box plot of the log returns
        i. Maybe add something to explain the box plots in layman terms
        ii. Beyond 3 STD = extreme values
        iii. The more negative skew the more negative returns, vice versa
        iv. The higher the excess kurtosis, the more likely extreme returns will happen
    d. Extreme Value Analysis
        i. Show histograms with shaded areas to show likelihood of any returns beyond a certain point occurring
            1. Maybe add options for what plot should be plotted
        ii. Explain what the QQ plots say, the explain what the fit means
    e. Run Risk Table
        i. See which distribution captures the returns the best, show rVaR, rES
2. Multivariate (Multiple) Stock Analysis
    a. Tangent Portfolio Short Sell
        i. Short Sell if number is negative
        ii. Shows best portfolio where you're able to sell your asset
    b. Minimum Variance Short SellPortfolio When you're able to short sell
        i. Portfolio with least risk
        ii. Portfolio that enables you to sell the assets
    c. Tangent without short sell portfolio
        i. For maximum returns
    d. Minimum Variance without short sell
        i. Does not allow you to short sell but gives least risk
    e. Current Portfolio
        i. Exact weight calculated originally
    f. Green point means Min Variance port w short sell
    g. Any point on red line achieves best return with every unit of risk
    h. Curved line shows what level of return u get for each unit of risk
    i.