Test Cases for Stock Portfolio App

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| Test Case # | Test Case Description | Expected Result | Example Input |
| 1 | Test for minimum investment requirement | Displays an error message if investment is less than $5000 | Investment = 4999, Strategies = ['Ethical Investing'], Split Strategy Equally = Yes/No, Defined stock amount split = Yes/No |
| 2 | Test for valid strategy selection | Displays the selected strategy in the response page | Investment = 10000, Strategies = ['Ethical Investing'], Split Strategy Equally = Yes/No, Defined stock amount split = Yes/No |
| 3 | Test for invalid strategy selection (too many strategies) | Displays an error message if more than two strategies are selected | Investment = 10000, Strategies = ['Ethical Investing', 'Growth Investing', 'Index Investing'], Split Strategy Equally = Yes/No, Defined stock amount split = Yes/No |
| 4 | Test for split amount equally among strategies (yes) | Displays equal allocation for each selected strategy. | Investment = 10000, Strategies = ["Quality Investing", "Index Investing"], Split Strategy Strategy = Yes, Defined stock amount split = Yes/No |
| 5 | Test for split unequally among strategies (no) | Displays random allocation for each selected strategy while maintaining ratio constraints. | Investment = 10000, Strategies = ["Growth Investing", "Value Investing"], Split Strategy Strategy = No, Defined stock amount split = Yes/No |
| 6 | Test for predefined stock splitting amount | Allocates investment across stocks by predefined ratio | Investment = 10000, Strategies = ["Growth Investing", "Value Investing"], Split Strategy Strategy = Yes/No, Defined stock amount split = Yes |
| 7 | Test for split unequally among stock | Displays random investment allocation for each stock. | Investment = 10000, Strategies = ["Growth Investing", "Value Investing"], Split Strategy Strategy = Yes/No, Defined stock amount split = No |
| 8 | Test for empty investment field | Displays an error message if the investment field is empty | Investment = '', Strategies = ['Ethical Investing'], Split Strategy Equally = Yes/No, Defined stock amount split = Yes/No |
| 9 | Test for no strategy selected | Displays an error message if no strategies are selected | Investment = 10000, Strategies = [], Split Strategy Equally = Yes/No, Defined stock amount split = Yes/No |
| 10 | Test for portfolio calculation with valid allocation | Displays allocated shares and invested amounts | Investment = 10000, Strategies = ['Ethical Investing'], Split Strategy Equally = Yes/No, Defined stock amount split = Yes/No |
| 11 | Test for Plotly graph generation | Displays the Plotly graph for stock trends | Investment = 10000, Strategies = ['Ethical Investing'], Split Strategy Equally = Yes/No, Defined stock amount split = Yes/No |
| 12 | Test for stock link clickable | Displays clickable stock link to Yahoo Finance | Investment = 10000, Strategies = ['Ethical Investing'], Split Strategy Equally = Yes/No, Defined stock amount split = Yes/No |
| 13 | Test for valid stock details for each strategy | Displays valid stock details for each selected strategy | Investment = 10000, Strategies = ['Ethical Investing', 'Growth Investing'], Split Strategy Equally = Yes/No, Defined stock amount split = Yes/No |