## **StockSymbolCollection API Documentation**

### **Overview**

The StockSymbolCollection class provides methods for loading stock symbols from a CSV file, validating the tickers, fetching their beta values, and displaying the results.

### **Class Methods:**

#### exec(csv\_filename: str) -> None

* Purpose: Validates tickers, fetches their beta values, and displays the results.
* Parameters:
  + csv\_filename (str): Path to the CSV file containing stock tickers.
* Returns: None
* Usage:
  + StockSymbolCollection.exec('path\_to\_csv.csv')

### **Instance Methods:**

#### \_\_init\_\_(self, csv\_filename: str) -> None

* Purpose: Initializes the StockSymbolCollection instance and loads the tickers from the specified CSV file.
* Parameters:
  + csv\_filename (str): Path to the CSV file.
* Returns: None

#### validate\_tickers(self) -> None

* Purpose: Validates the stock tickers, saves valid and invalid tickers to separate CSV files, and reinitializes the tickers list with valid ones.
* Parameters: None
* Returns: None

#### fetch\_beta\_values(self) -> None

* Purpose: Fetches beta values for each ticker in the collection.
* Parameters: None
* Returns: None

#### \_fetch\_beta\_for\_ticker(self, ticker: str) -> Dict[str, float]

* Purpose: Fetches the beta value for a specific ticker.
* Parameters:
  + ticker (str): The stock ticker.
* Returns:
  + Dict[str, float]: A dictionary containing the ticker and its beta value.
* Note: This is a private method and is not meant to be called directly from outside the class.

#### display\_beta\_values(self) -> None

* Purpose: Displays the beta values for each ticker, sorts them, and saves them to a CSV file.
* Parameters: None
* Returns: None