**Cryptocurrency Price Tracker using Selenium and CSV Logging**

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**Installations or Prerequisites:**

1. Python 3.x
2. Selenium Python package
3. Microsoft Edge WebDriver matching your Edge browser version
4. CSV Module
5. Stable Internet connection
6. CoinMarketCap website as the data source

**Implementation:**

* The program launches Microsoft Edge in headless mode (optional) using Selenium WebDriver.
* It navigates to CoinMarketCap and waits until the cryptocurrency table loads completely.
* It scrapes the top N cryptocurrencies along with:
  + Name
  + Price (USD)
  + 24h Change (%)
  + Market Cap
* The script optionally filters based on minimum price or minimum percentage change.
* Data is appended to a CSV file along with the timestamp of collection.
* This allows historical logging of prices without overwriting older data.

**Error detection and correction:**

* Row Parsing Errors:
  + Wrapped in try-except blocks so that if one row fails, the program continues with others.
* File Handling Errors:
  + Used try-except to check if the CSV file exists before writing headers.
* Web Element Loading Errors:
  + Used WebDriverWait and EC.presence\_of\_all\_elements\_located to ensure elements load before scraping.

**Final output:**

* A CSV file (crypto\_prices.csv) with columns:
  + Timestamp
  + Name
  + Price (USD)
  + 24h Change (%)
  + Market Cap

**Conclusion:**  
This project successfully automates cryptocurrency price tracking using Selenium. It allows users to collect real-time market data from CoinMarketCap, filter results based on user-defined conditions, and store them for historical analysis. This solution is useful for traders, researchers, and enthusiasts who want to keep track of cryptocurrency trends without manual data collection. The CSV log can further be used for visualizations, statistical analysis, or integration into other financial tools.