

Capybara Trader v6.9 - Code Explanation

Introduction

This document provides an explanation of the Capybara Trader v6.9 script. The script is designed to automate trading on the IQ Option platform using various technical indicators and strategies.

Capybara Trader v6.9 - Code Explanation

Imports and Configuration

The script starts by importing necessary libraries and configuring logging. It imports libraries for interacting with the IQ Option API, handling threading, time, OS operations, and GUI components using Tkinter. It also imports various technical analysis libraries and custom trading strategy functions.

Capybara Trader v6.9 - Code Explanation

Credential Management

The script loads credentials from a file named 'credentials.txt' located in the working directory. It reads the email and password required to connect to the IQ Option API.

Capybara Trader v6.9 - Code Explanation

Logging and Message Handling

The script sets up logging to log messages to both the console and a file named 'trade_log.txt'. It includes functions to handle messages received from the IQ Option API, decode JSON messages, and log errors.

Capybara Trader v6.9 - Code Explanation

API Connection

The script defines functions to connect to the IQ Option API using the provided credentials. It includes logic to handle reconnection attempts if the connection is lost.

Capybara Trader v6.9 - Code Explanation

Fetching and Analyzing Data

The script includes functions to fetch historical data for assets, analyze trends, and calculate various technical indicators. It uses these indicators to make trading decisions.

Capybara Trader v6.9 - Code Explanation

Trading Logic

The script defines the main trading logic, including functions to execute trades, monitor trade results, and implement the Martingale strategy. It also includes functions to start and stop trading sessions.

Capybara Trader v6.9 - Code Explanation

GUI Configuration

The script sets up a graphical user interface (GUI) using Tkinter. The GUI includes buttons to start and stop trading, display account balance, and show log messages. It also includes a watchdog function to restart trading if the script freezes.

Capybara Trader v6.9 - Code Explanation

Additional Features

The script includes additional features such as saving console output to a file daily, simulating trades for testing the Martingale logic, and calculating the probability of success based on technical indicators.