Techtrader Stock Market & Application

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Abstract: *The stock market has become a critical platform for financial growth, yet it is complex and challenging for beginners. To simplify the learning process, we present "Tech Trader stock market application," a stock market simulation platform that integrates real-world data and advanced trading tools. The primary objective of this project is to educate users on stock market fundamentals and advanced techniques like technical analysis, momentum-based trading, and risk management using virtual currency. Numerous stock market simulators exist today, but most focus on either basic trading or real-time execution without emphasizing learning through analytics. These system soften lack portfolio management and in-depth analyst support, which are crucial for understanding market behavior. Tech Trader utilizes 20 years of historical data sourced from Yahoo Finance to plot stock charts. Signals for buying and selling are generated based on momentum indicators. Virtual currency allows users to trade without real risk, and an analyst system provides expert insights into stock movements.*

Keywords*: Stock Market, Simulation, Momentum Trading, Virtual Currency, Technical Analysis, Portfolio management*