

Seminar: Stock Market Simulation

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Introduction

A stock market simulator is a program or application that attempts to reproduce or duplicate some or all features of a live stock market on a computer so that a player may practice trading stocks without financial risk.

Open Source

Docker - Docker is a set of platform-as-a-service products that use operating-system-level virtualization to deliver software in packages called containers.

OpenShift - OpenShift is a family of containerization software developed by Red Hat. Its flagship product is the OpenShift Container Platform—an on-premises platform as a service built around Docker containers orchestrated and managed by Kubernetes on a foundation of Red Hat Enterprise Linux.

Tools Used

- Open Source: Apache Server, docker - Containers.
- Hosting Services like SiteGround.
- Front End Framework: React

Technology

- Front End: HTML - CSS - JavaScript
- Back End: Python Framework - Django
- DataBase: MySQL, MariaDB.
- Hosting on Containers.

Working

A user will login and invest into stocks with provided virtual currency. User won't have to make any real financial investment, but will still get to experience stock trading and learn more about the domain.

Machine Learning : Various functions, libraries will be used to predict future stock prices based on the results of analyzing the past stock growth.

Conclusion

- The simulation provides a basic introduction to the investment world. It helps in understanding of the stock market and its potential to increase the value of an investor's portfolio over time. One can learn a lot without taking any financial lists and gain enough courage and confidence to start a real career in stock trading.

Demo

Stock Market Game

Investopedia Stock Simulator

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