

Digital Finance REST API

ForexWar-TN

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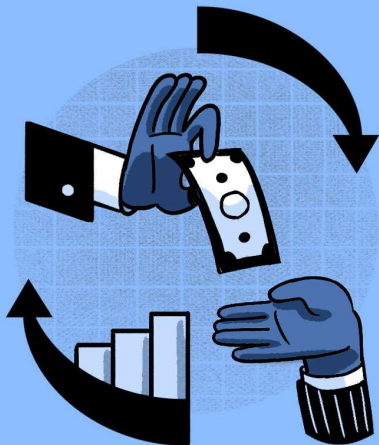
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January 23, 2024

Presentation Overview

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Financial Markets

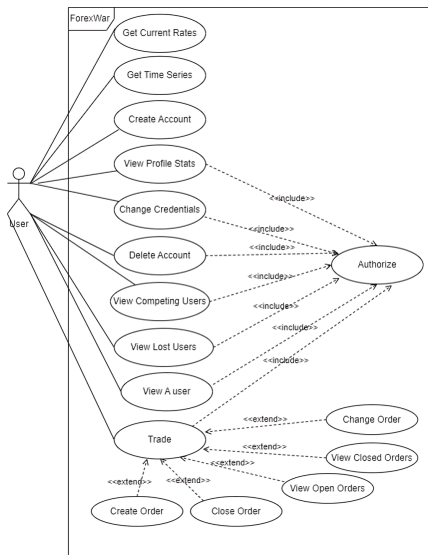
[fə-'nan(t)-shəl 'mār-kəts]

Any marketplace where the trading of securities occurs, including the stock market, bond market, forex market, and derivatives market, among others.

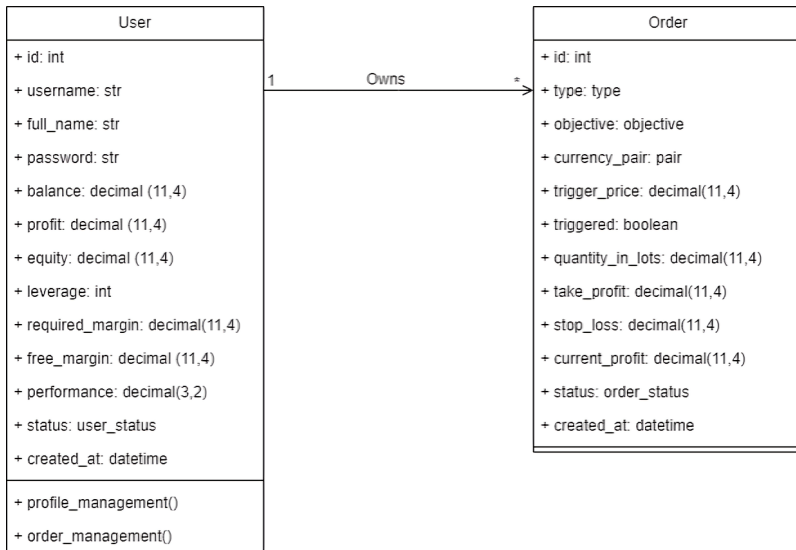
Benchmarking & Competition Analysis



Use Case Diagram



Database Model



Tools & Technologies



fastapi.security & jose

packages were used to generate JSON web tokens for authorized users, ensuring secure access to endpoints

passlib.context package

further enhanced security by safeguarding stored passwords in the database using a hashing algorithm.

ForexWar

0.1.0**OAS3**[Authorize](#)[/openapi.json](#)

Currencies

**GET**[/get_current_exchange_rates](#) Get Exchange Rates**POST**[/get_time_series/](#) Get Time Series

username	full_name	email	password
character varying	character varying	character varying	character varying
yessine	barkia	yessine@gmail.com	\$2b\$12\$HpiO1v4B4...

Profile endpoints

Authentication



POST

/login Login



Profile



POST

/users Create User



GET

/users/me Get Active User



PUT

/users/me Update User Me



DELETE

/users/me Delete User Me



GET

/users/competing Get Competing Users



GET

/users/failed Get Failed Users



GET

/users/{id} Get User



Trading endpoints

Trading

**POST**`/orders/` Create Order**GET**`/open_orders/` Get Open Orders**GET**`/closed_orders/` Get Open Orders**PUT**`/orders/{order_id}` Update Order**PUT**`/orders_closing/{order_id}` Close Order

Conclusion & Perspectives

- + Unique educational platform about the forex market.
- + Locally relevant simulation that fosters learning by competing.
- Still a work in progress: profit calculation is missing.
- ⌚ Admin functionalities, frontend integration, deployment...