CRYPTOCURRENCY EXCHANGE SYSTEM

PRESENTED BY TEAM WHATEVER: SHUHAO XIA, MAN LANG, LI HUA



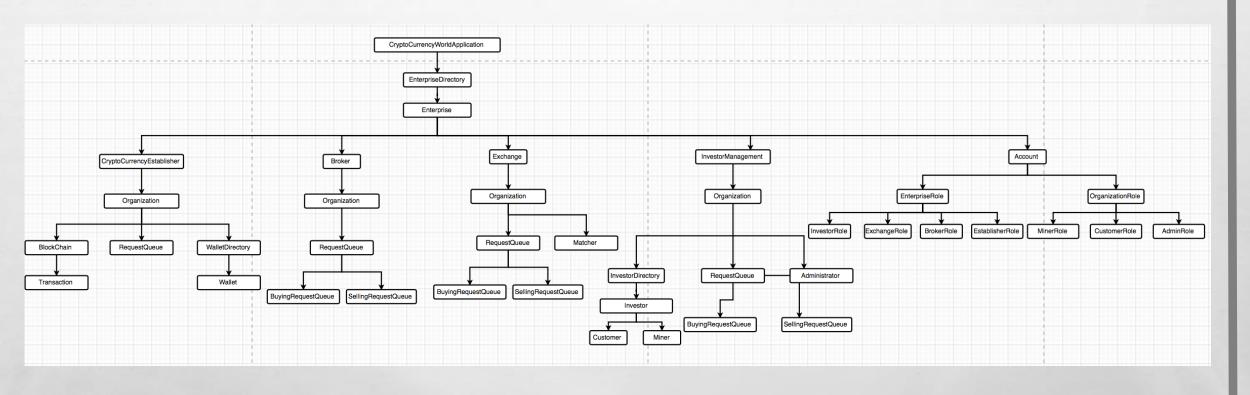
PROBLEM STATEMENT

- Cryptocurrency, as a digital currency, is stored and traded in a totally different way from traditional financial assets.
- Due to its special characteristics of decentralization and distributed ledger technology, a unique trading platform is required to meet the trading demands between cryptocurrency owners and investors.

APPROACH

- Our design simulates processes adopted in real cryptocurrency trading system, which includes submitting requests through brokers, matching process in exchange, and related processes such as creating new blocks, issuing new coins, etc.
- The whole application is designed in eco-system pattern, which enables end-users to expand this trading system into a all-in-one platform by adding in new types of cryptocurrency.

OBJECT MODEL



ROLES & USE CASES

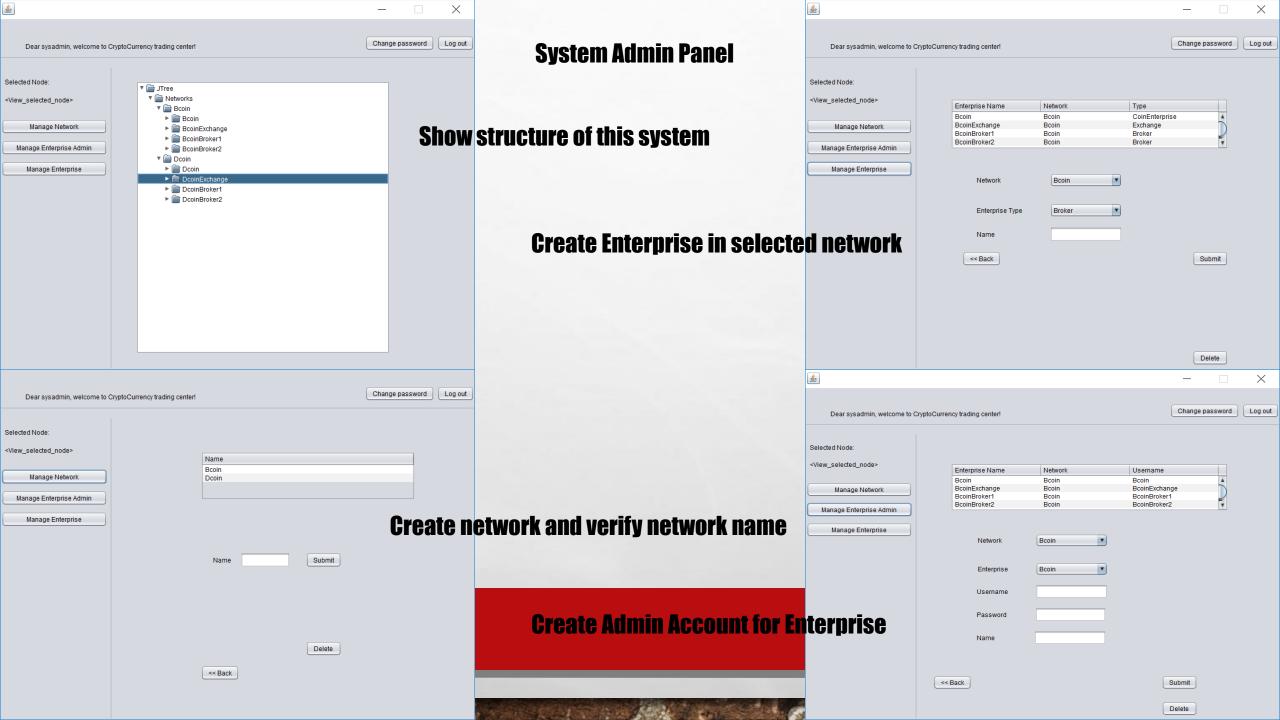
- System administrator: Manage networks, enterprises, and enterprise admins.
- Cryptocurrency Establisher: Create repository for each currency.
- Broker administrator: Responsible for managing brokers.
- Exchange administrator: Manage exchange employees.
- Broker: Responsible for managing buying/selling requests.
- **Matcher:** To match buying/selling requests submitted to the exchange.
- Customer: Investors who can only trade cryptocurrency on the platform.
- Miner: Investors who can mine (get bonus coins) for writing transactions in the blocks.

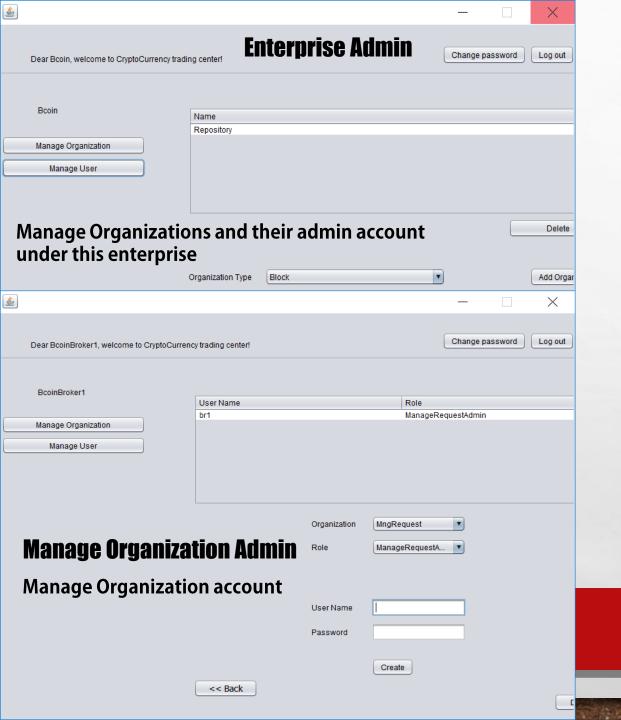
ADDITIONAL FEATURES

- Fully simulate the whole life cycle of real cryptocurrency trading processes.
- Sending reminder emails to newly registered users.
- Price trending chart of historical deal price data to help predict future price.
- Total ecosystem design.

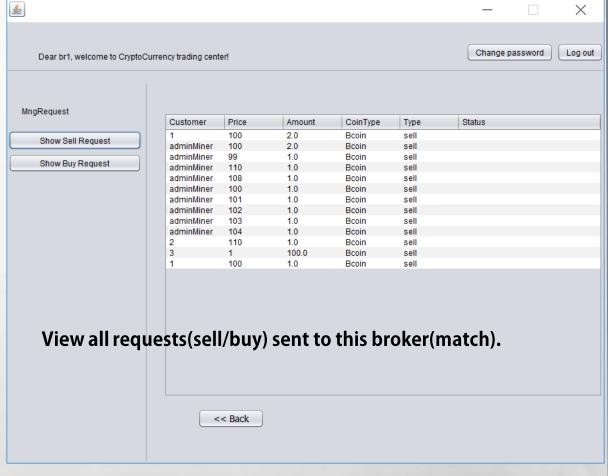
SCREENSHOTS

KEY SCREENS OF THE SYSTEM

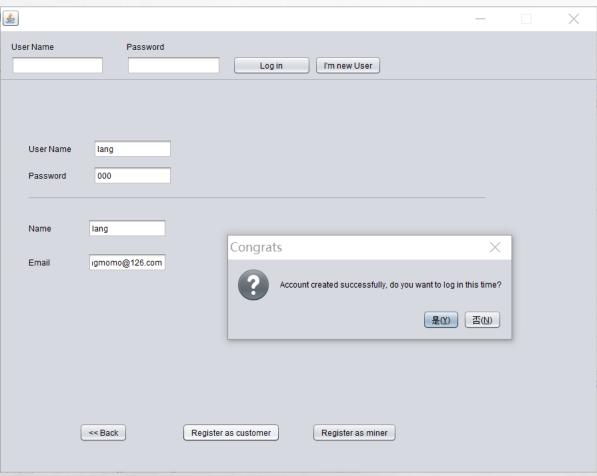




Organization Admin

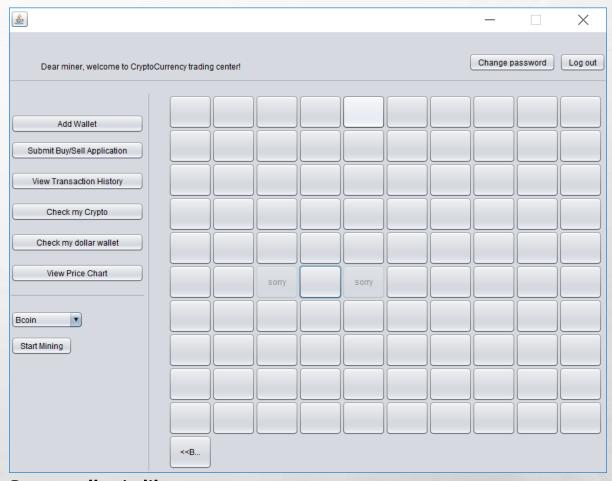


Register Customer

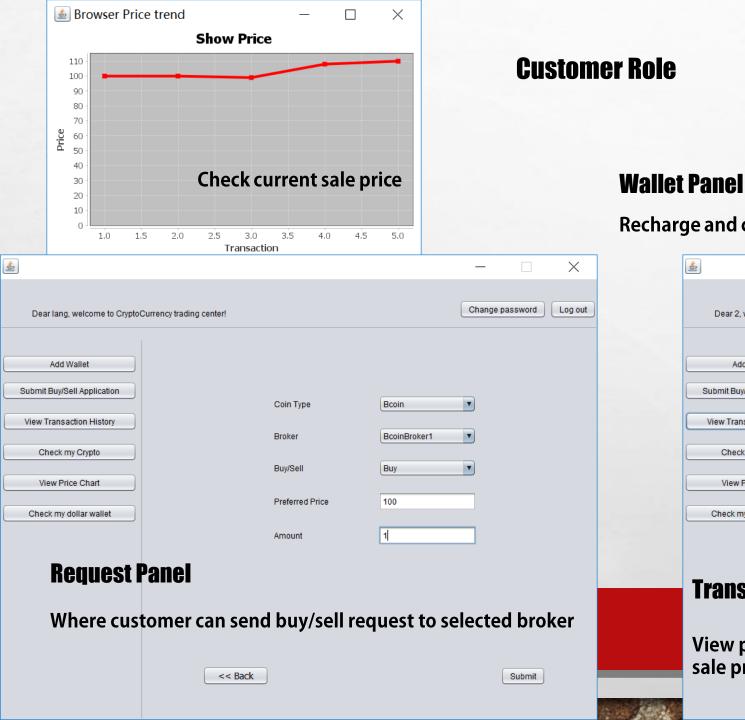


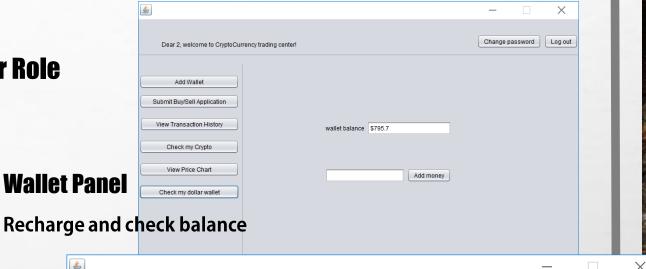
Register customer or miner(who is qualified for creating block) Send login information to email address.

Miner Role



Buy or sell coin like customer Choose Coin type and create next block by digging out coin.







Transaction History Panel

View personal requests history. Show each request status and final sale price



THANK YOU TEAM WHATEVER