

Share-Market-Smart-Contract-Docs

Share-Market-Smart-Contract

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- The words share and stock have been used interchangeably throughout this project

Working

Main Working :

- users (all members of the network) can purchase stocks from the stock market
- users can post stocks for sale which other users can buy and/or buy directly from the company.
- Each seller can set their own Cost for the transaction
- the currency for the system is `StockToken` (STT)

Governance

- the initial governor is the contract owner
- can add other governors to the list of governors
- governors control :
 1. Company Approval
 2. Add Other Governors to the list of governors

Company

A company can be created by any user

process :

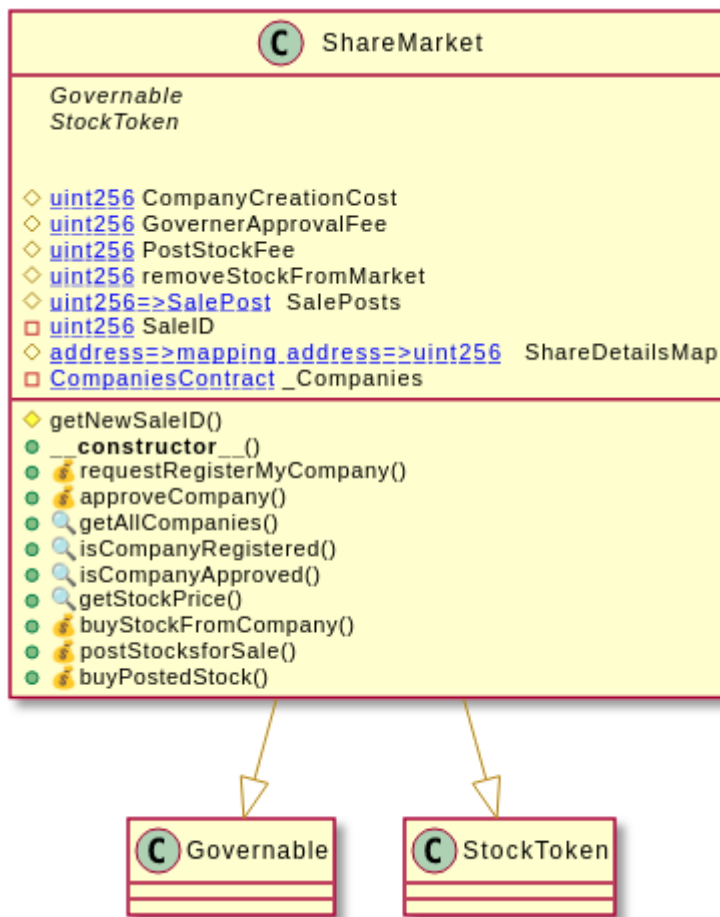
1.
 - user request a company creation in which they are required to enter
 - Name
 - num of stocks
 - stock price
2. a governor then approves the company request , before that the company is not eligible to sell its stocks

Stock Token

- Simple ERC20 Token with top up facility
- initial supply is provided to the contract address

Contracts

Share Market



793a1a06 => getNewSaleID()

07498ab5 => requestRegisterMyCompany(string,uint256,uint256)

3cf079f0 => approveCompany(address)

408bf4c3 => getAllCompanies()

56ea04a3 => isCompanyRegistered(address)

62f0dc3f => isCompanyApproved(address)

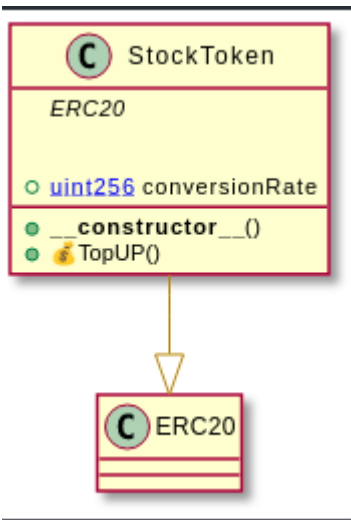
3d3325e0 => getStockPrice(address)

97f24f9c => buyStockFromCompany(address,uint256)

5ca779e5 => postStocksforSale(address,uint256,uint256)

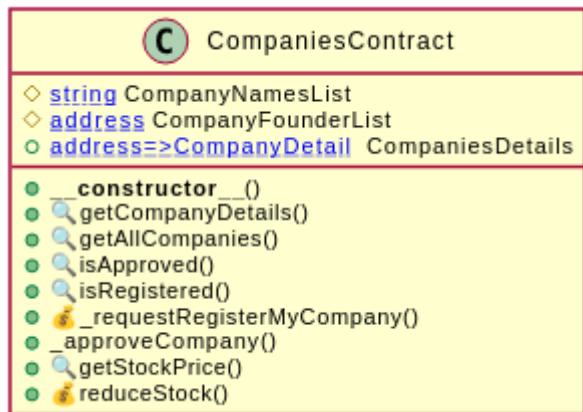
a6dcd15b => buyPostedStock(uint256)

Stock Token



0c922ff5 => TopUP()

CompaniesContract



0558d3e9 => getCompanyDetails(address)

408bf4c3 => getAllCompanies()

673448dd => isApproved(address)

c3c5a547 => isRegistered(address)

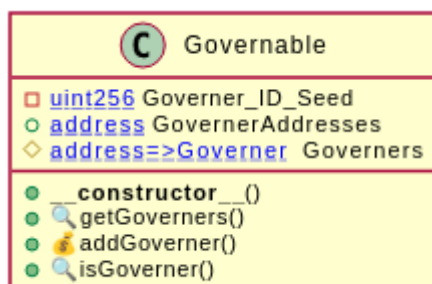
bf9c2a4c => _requestRegisterMyCompany(address,string,uint256,uint256)

a5bdfed9 => _approveCompany(address)

3d3325e0 => getStockPrice(address)

aff9afcb => reduceStock(address,uint256)

Governable



3fbbc7e9 => getGovernors()

a5068c98 => addGoverner(address,string)

31ecd8ee => isGoverner(address)

Interaction

