

TuiChain

A Blockchain Platform for
Higher Education Financing



Projeto em Engenharia Informática
2020-21
Universidade do Minho

TuiChain

- Students can request **financial support** to pay their tuition
- Investors can provide such funding through the **Ethereum** blockchain
- Uses the **Dai** stablecoin (which is soft-pegged to USD)
- Follows the **Income Share Agreement** model
- Investors can **trade shares** of their loans with other investors



4 - Purchasing tokens

Components, repositories, teams

<https://github.com/TuiChain/frontend>



<https://github.com/TuiChain/backend>



<https://github.com/TuiChain/blockchain>



Technologies:

- JavaScript
- React
- Material UI
- Metamask

Main contributors:

- João Silva
- Nelson Sousa
- Pedro Ferreira
- Pedro Moreira
- Tiago Sousa

Technologies:

- Python
- Django
- Django REST Framework

Main contributors:

- Alberto Faria
- Henrique Pereira
- Ricardo Caçador
- Ricardo Milhazes
- Rui Ribeiro

Technologies:

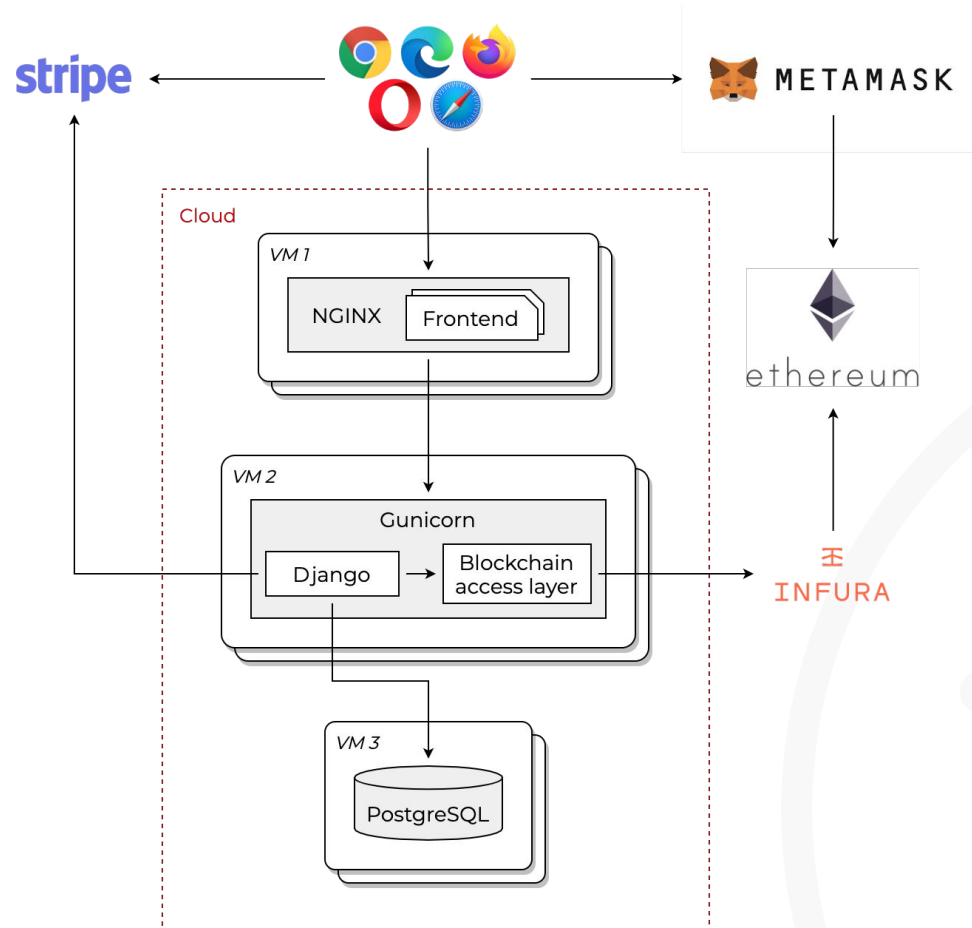
- Python
- Solidity
- Truffle
- web3.py

Main contributors:

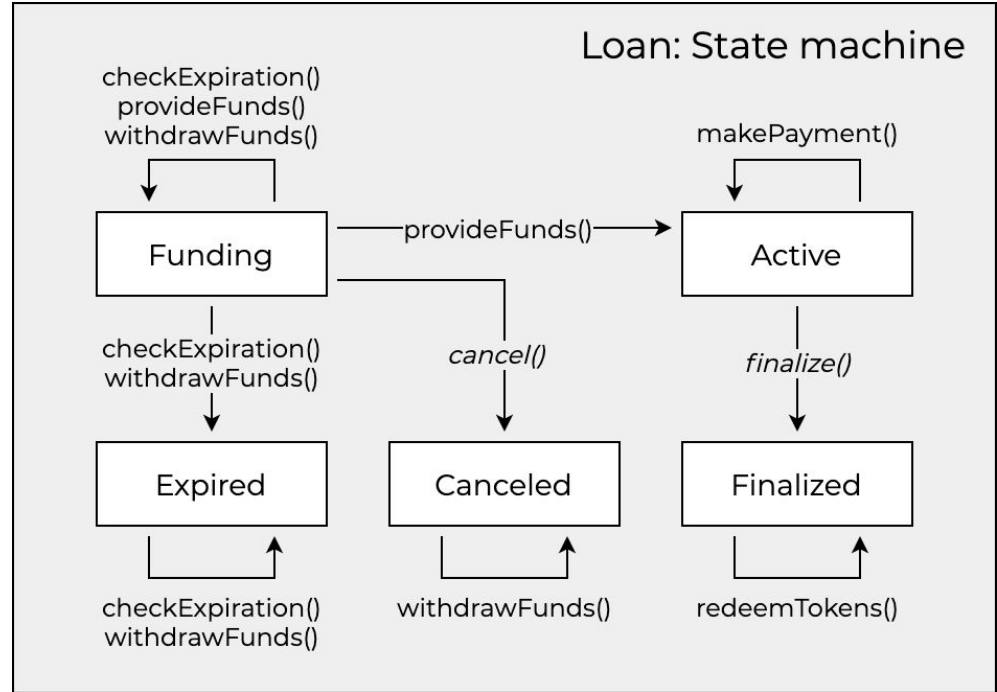
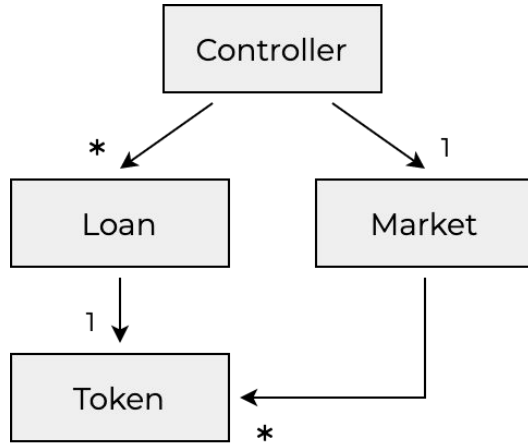
- Alberto Faria
- Alexandru Domente
- João Silva
- Nelson Sousa

- Deployment setup: <https://github.com/TuiChain/deployment>
- Reports: <https://github.com/TuiChain/documentation>

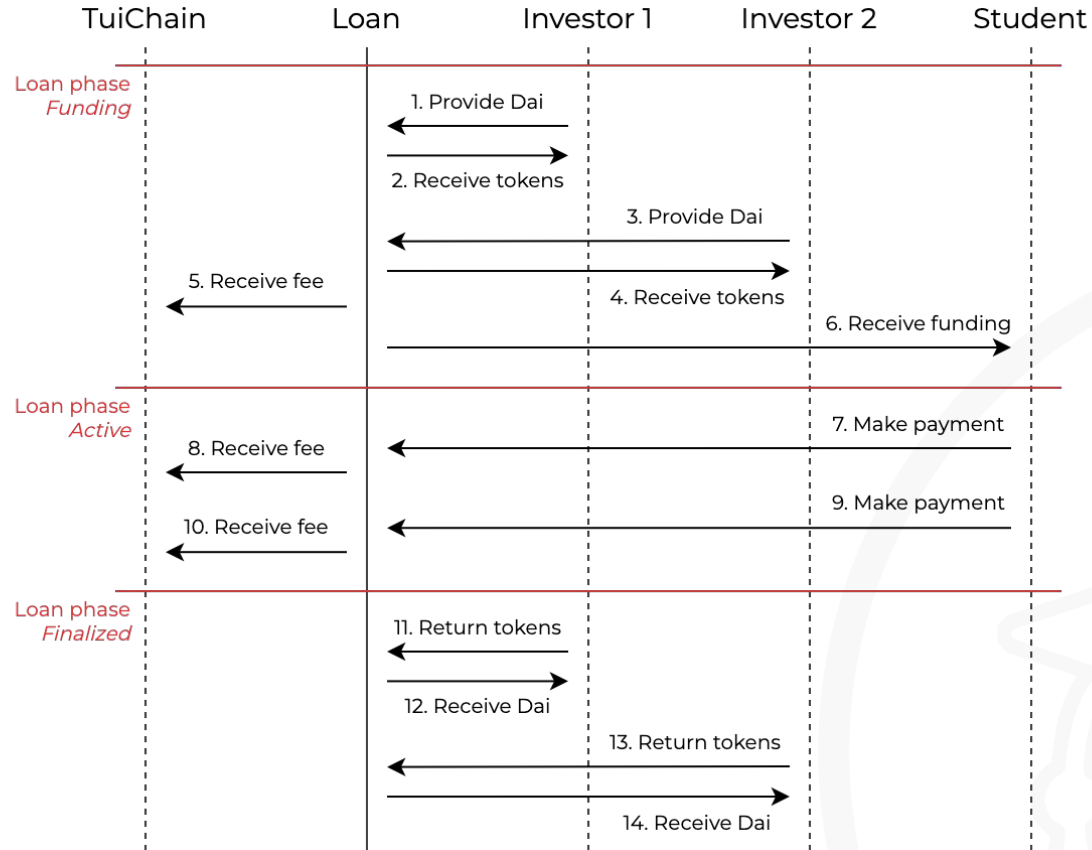
Deployment



Blockchain: Smart contracts

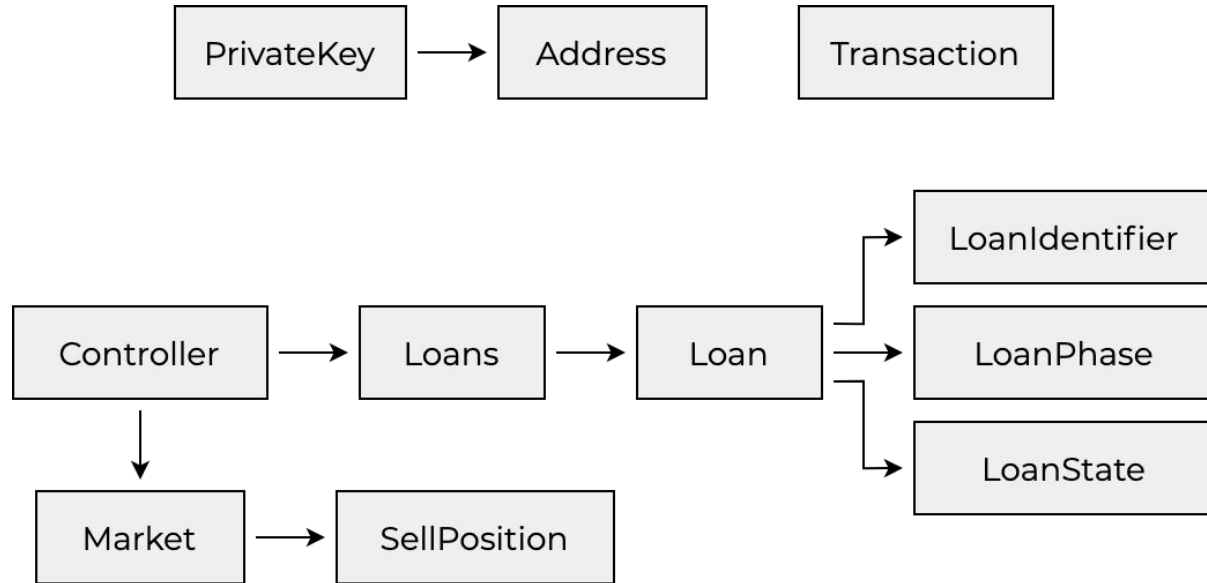


Blockchain: Loan life cycle



Blockchain: Python interface

tuichain_ethereum



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