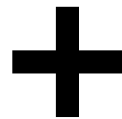
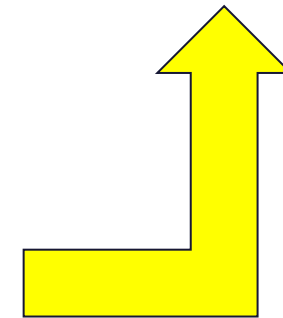
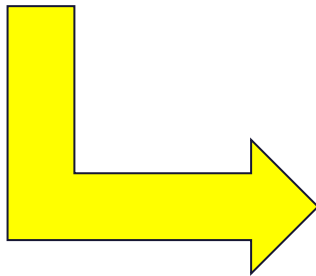




Defi Lending with PRNTCoin

Tempest Bowden
Ayana Martinez
Rahab (Mo) Goodwin
Domenic Rhedrick
Liam Kelly



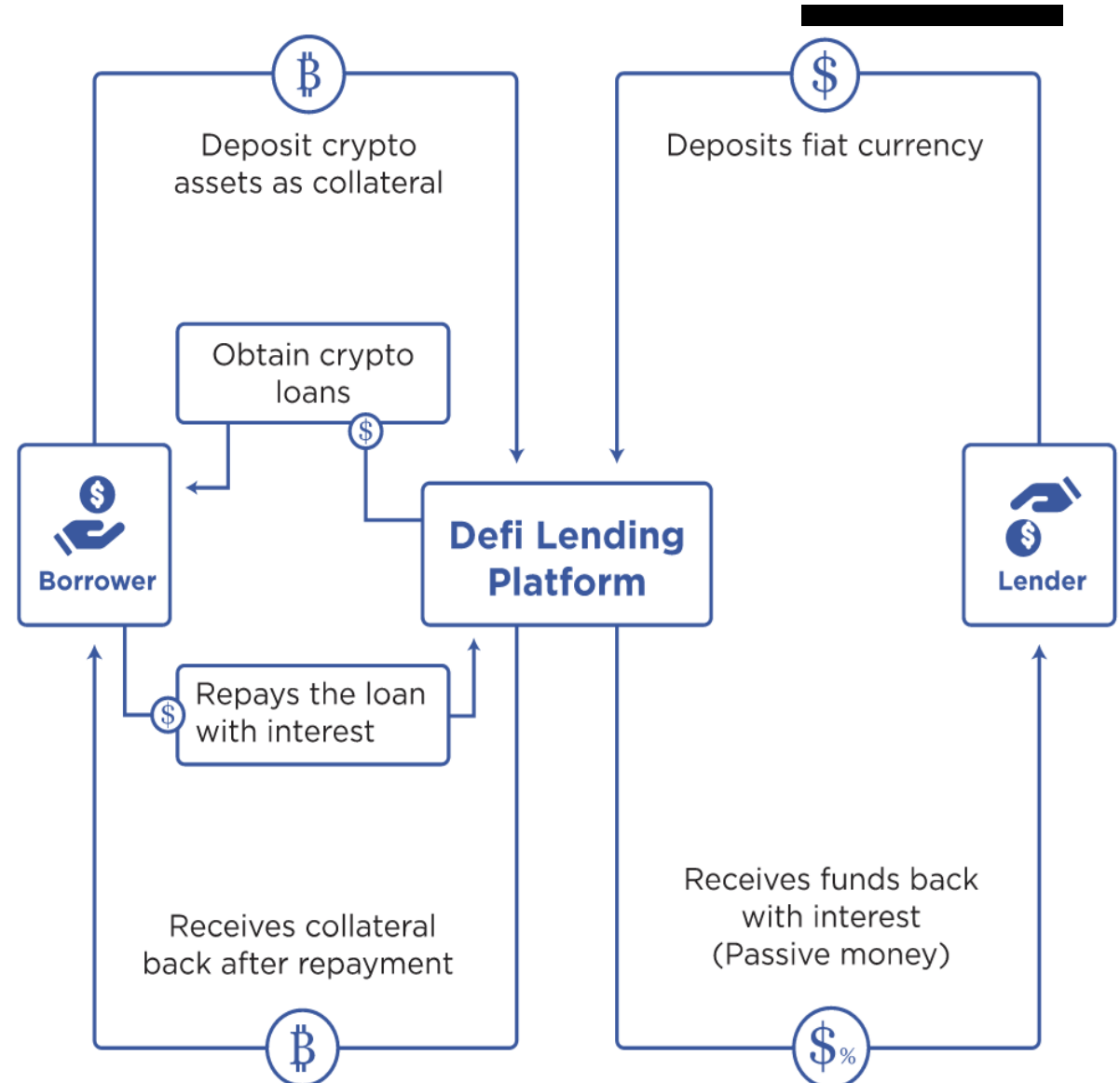


holding hands Pinterest-
<https://www.pinterest.com/pin/427630927100062844/>

52nd stree philly- <https://www.wtf.io/wp-content/uploads/2021/03/2020-12-22-e-lee-philadelphia-52nd-street-businesses-struggle-1620x1080.jpg>

Introduction to Defi Lending

- WHY LENDING
- PROBLEM AREAS
- BIG IDEA SOLUTION



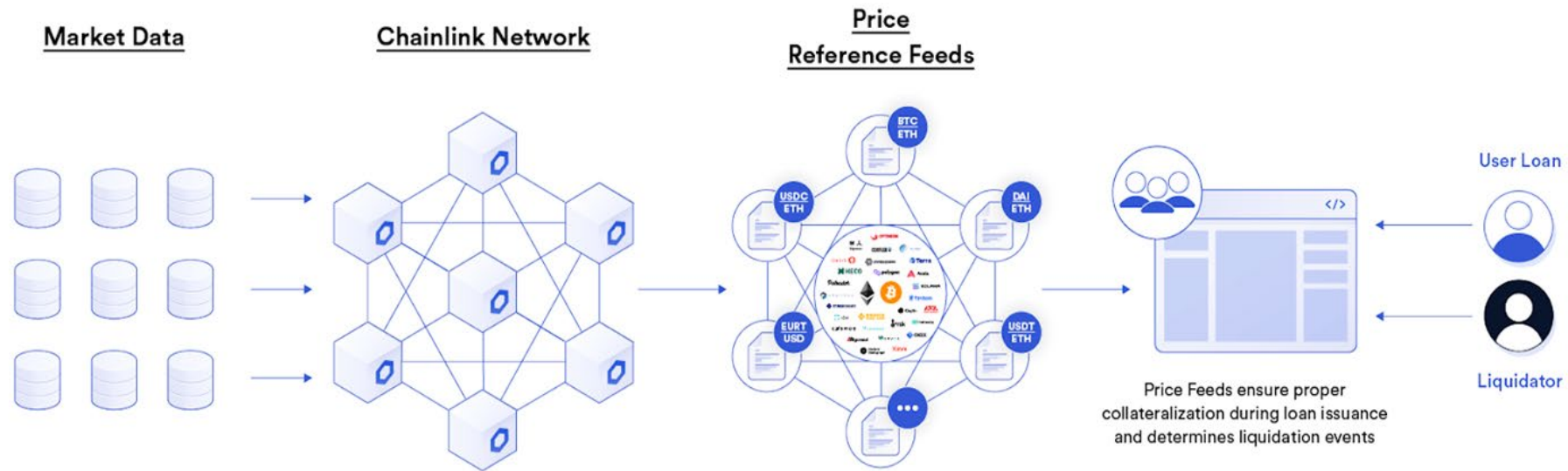
PRNTCoin



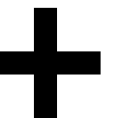
- ★ ERC20 token
 - OpenZeppelin library
 - Backed by ETH
- ★ Incentivise use vs exchange



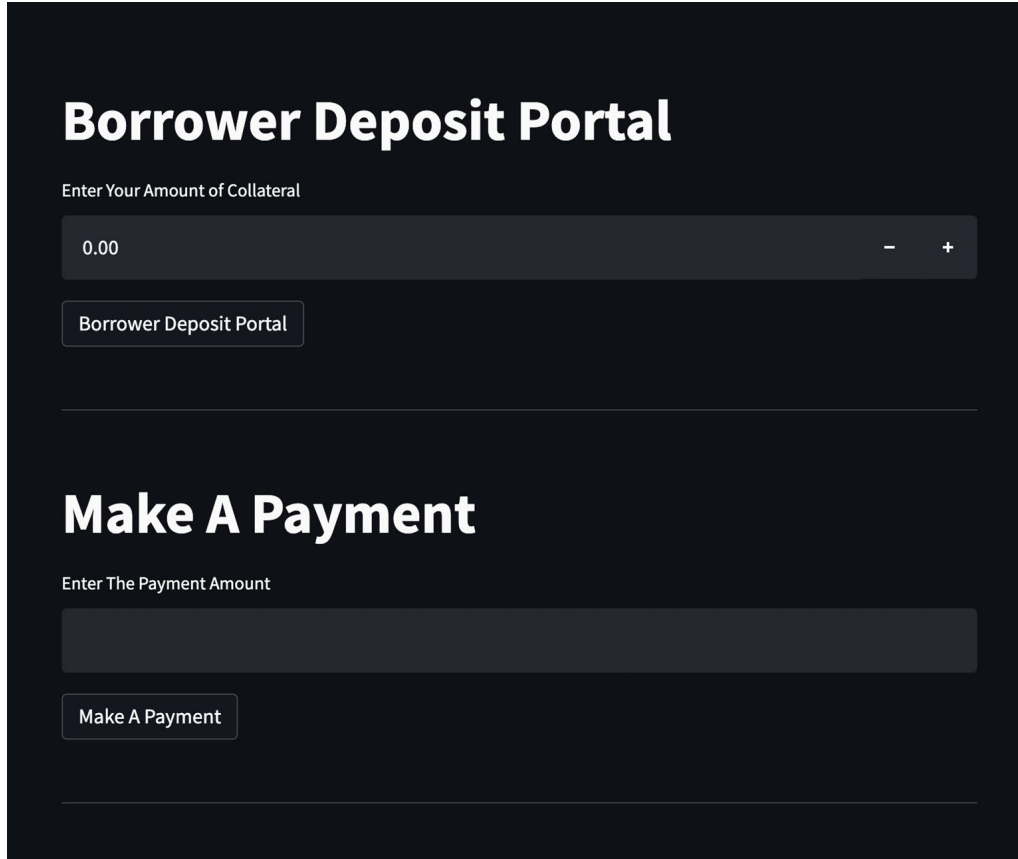
Exchange Rate Oracle Contract



- ★ Chainlink Oracle
 - Decentralized
 - Trusted nodes to connect accurate APIs to smart contracts
- ★ Created Contract for initiating requests to Chainlink ETH/USD Price Feeds
- ★ Data then used for the borrower contract



Borrower Contract



The image shows a dark-themed user interface for a Borrower Contract. It is divided into two main sections. The top section, titled "Borrower Deposit Portal", includes a label "Enter Your Amount of Collateral" above a numeric input field showing "0.00" with minus and plus buttons. Below this is a button labeled "Borrower Deposit Portal". The bottom section, titled "Make A Payment", includes a label "Enter The Payment Amount" above a numeric input field. Below this is a button labeled "Make A Payment".

Borrower Deposit Portal

Enter Your Amount of Collateral

0.00 - +

Borrower Deposit Portal

Make A Payment

Enter The Payment Amount

Make A Payment

- ★ Request a Loan
- ★ Deposit Collateral
 - 50% of requested Loan Amount
- ★ Make Payments
- ★ Loan Information
 - Check Due Dates
 - Check Balance Due



Escrow Wallet



- ★ Holds collateral
- ★ Verifies payments
- ★ Releases collateral
- ★ Renders loan satisfied





Lender Contract

Lending Deposit Portal

Enter Your Amount To Lend

0.00

-

+

Enter Wallet Address

Lender Deposit Portal

★ Peer-to-Peer

★ Stake Crypto

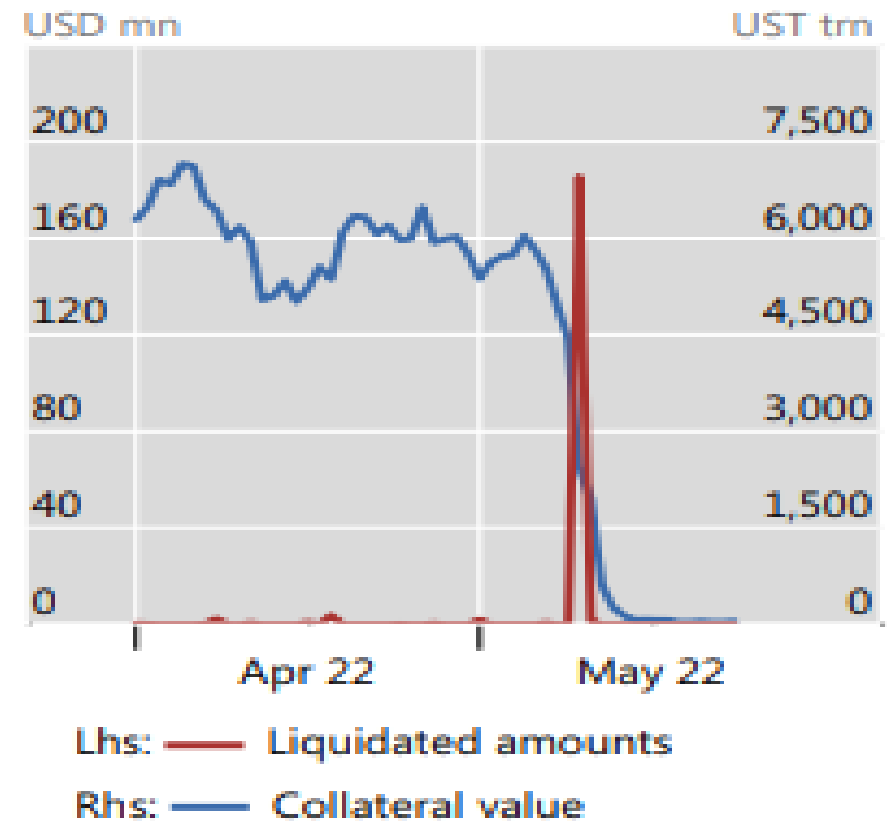
★ Check Balance of Investment



Pros and Cons of Defi

- ★ Anonymity
- ★ High returns
- ★ Less access barriers
- ★ Dependency on collateral
 - limits access to the asset-rich
 - appreciating price vs collateral value
 - losses for lenders

Liquidation spiked as collateral value dropped



source: <https://www.bis.org/publ/bisbull57.pdf>

Data Used

- github.com/OpenZeppelin/openzeppelin-contracts/blob/master/contracts/token/ERC20/ERC20.sol
- github.com/smartcontractkit/chainlink/blob/develop/contracts/src/v0.8/interfaces/AggregatorV3Interface.sol

