



# DEFI LENDING APP

Release II

Team 8

Adhiraj Deshmukh

Amey Kunte

Hariharan Kalimuthu

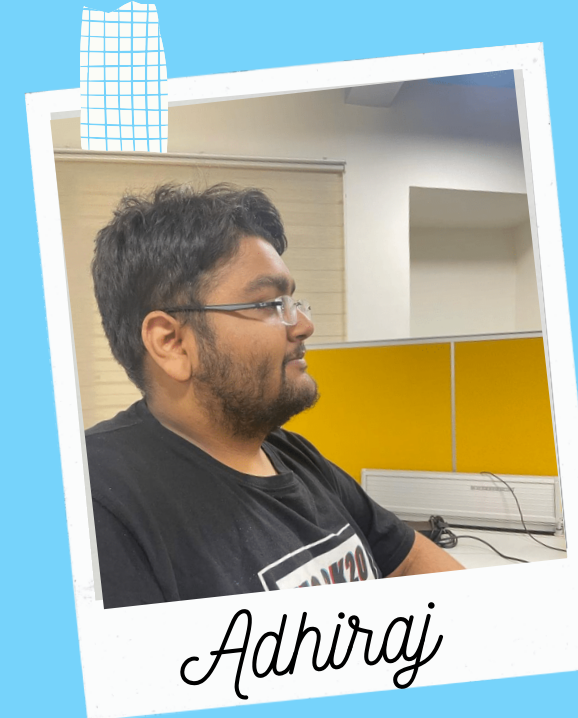
Yash Agrawal



# INTRODUCTION

**This project was developed as a part of our coursework.**

Our team consists of four sophomores from IIITH, with Bhavyajeet Singh as our student mentor and Mr. Venkata Madala as our advisor from the client side.





# OUR OBJECTIVES

1

Provide a platform for farmers to avail cheap microfinanced loans.

2

Deploy native cryptocurrencies which enables Decentralised Financing.

3

Launch a DAO and create a community of Lenders and Borrowers.

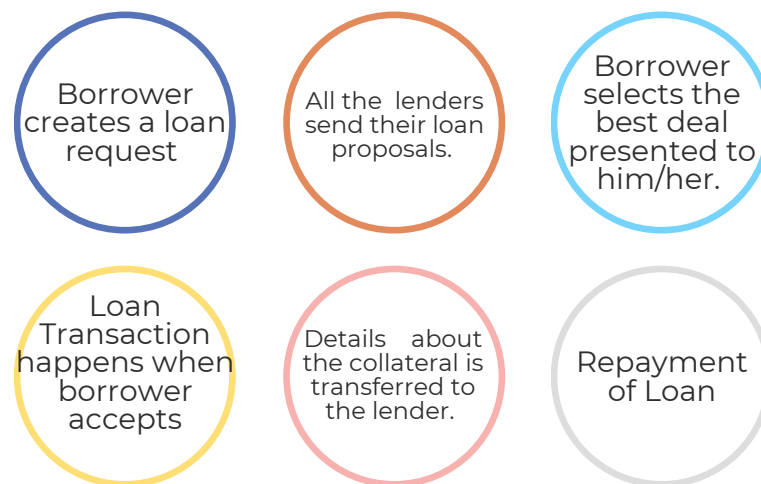
4

Create an intuitive and easy to use Web 3.0 Application which enables these transactions.

# PRODUCT DESIGN

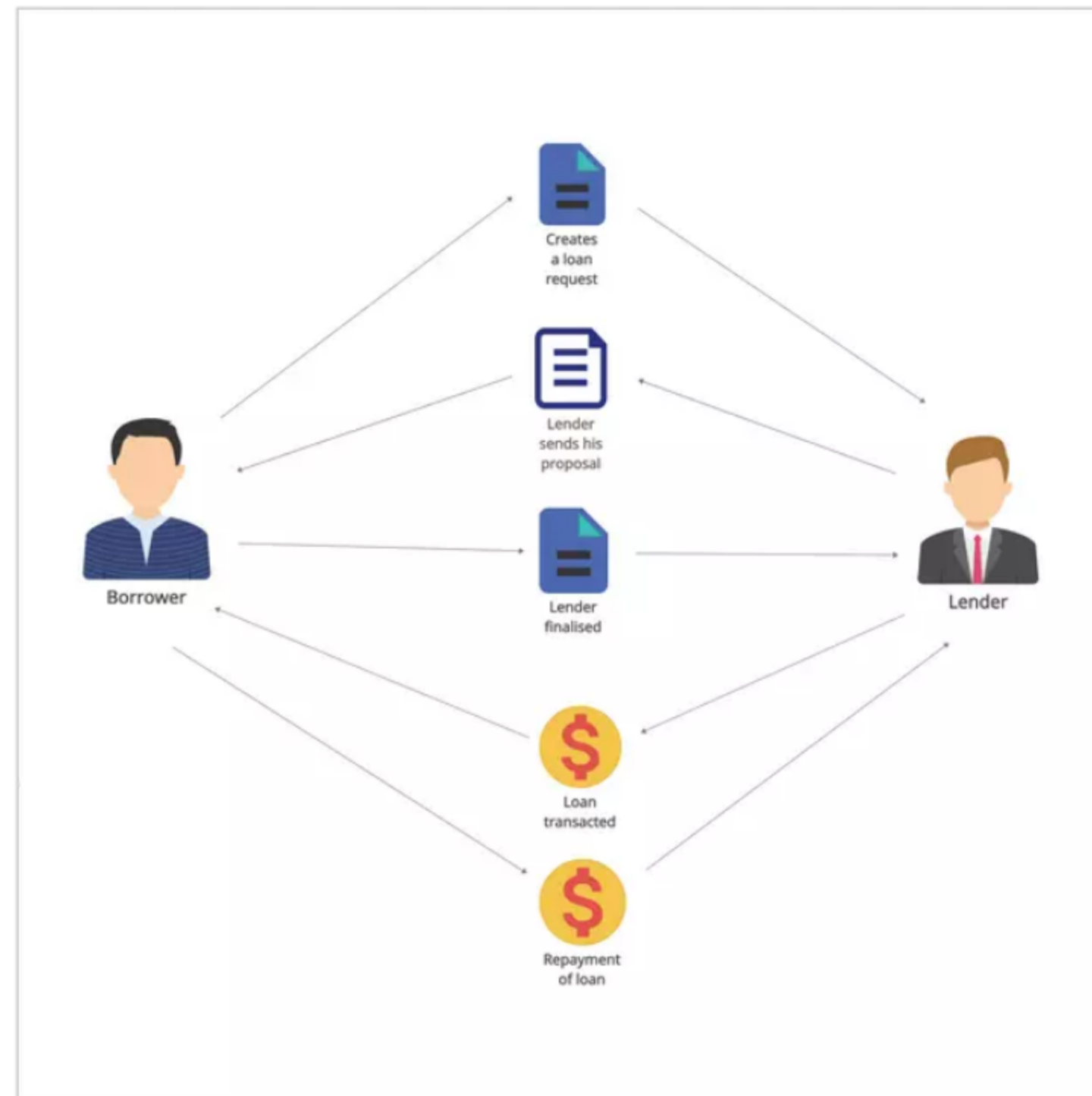
1

On the user's side, the working of our product is quite simple, it consists of six steps.



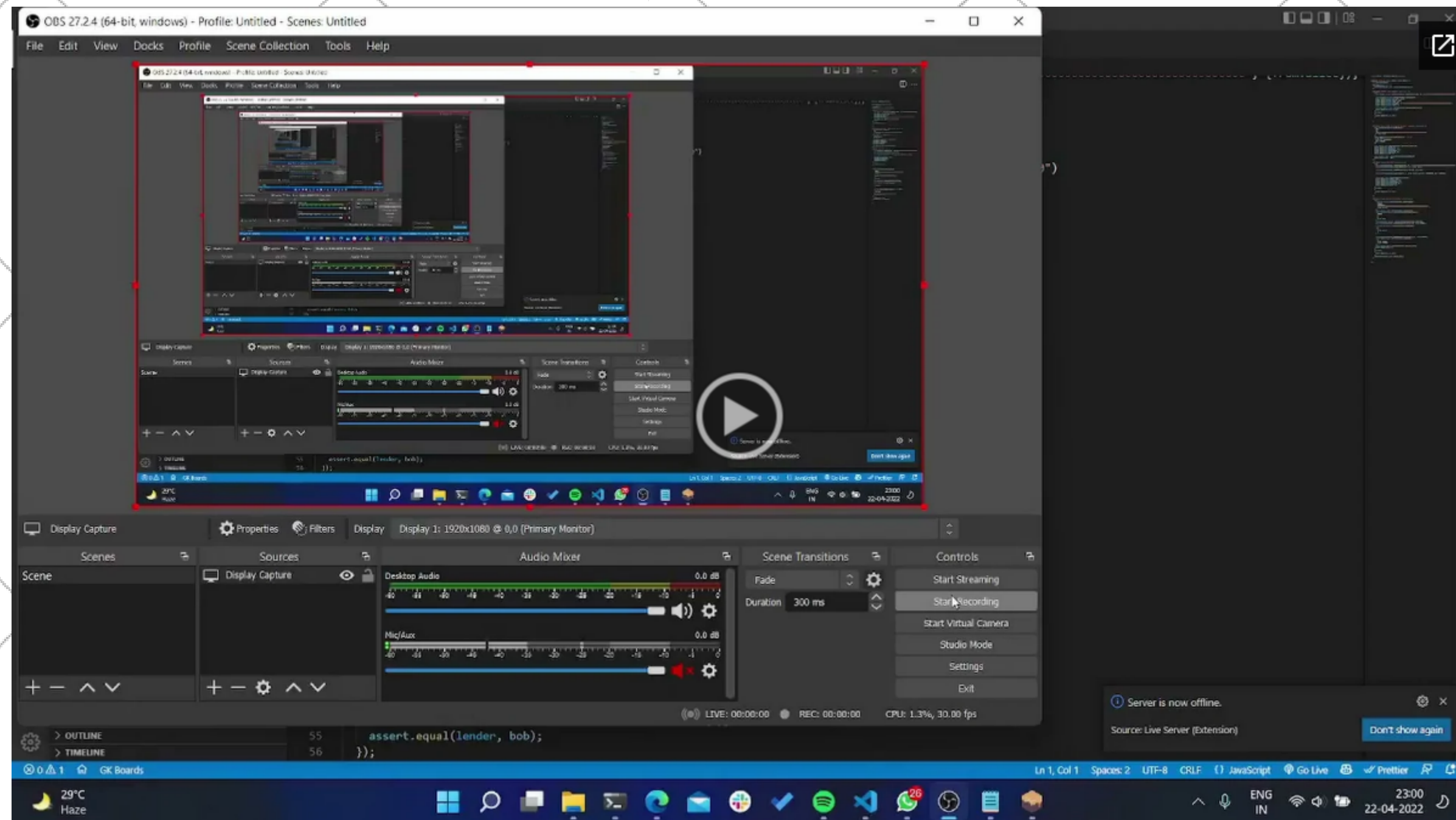
2

On the backend, we have deployed solidity contracts to our blockchain network which handle all these transactions autonomously. The confirmation of these requests is done via the users' metamask wallets.





# Demonstration of our Web 3.0 App:





# PRODUCT FEATURES

The Social Impact

# REASSURANCE FOR THE LENDER

Providing collaterals made easy and entirely online.

- Borrowers can create their loan proposal with the amount they want, their favourable repayment due date and CID of their mortgage uploaded on IPFS. As of now we are using a decentralised public IPFS gateway.



## LENDERS DECIDE THEIR OWN TERMS

**Verified borrowers,  
freedom on choosing rate  
of interest and loan  
duration.**

- Lender's can verify the borrower's data and send their proposal with their favourable interest rate. All this happens just at a click of a button.
- After the repayment date has passed, borrower cannot repay the loan and their mortgage will be revoked and auctioned off.






# • POWER TO THE • BORROWERS

## Say goodbye to exploitation by moneylenders.

- Borrowers can choose from multiple lenders of their interest and competitive offers from lenders ensure that the interests are reasonable.
- Borrower can repay the loan anytime they want before the due date and amortized loan will be transacted.





## **TECHNOLOGIES, LIBRARIES AND PACKAGES USED**

- 
- Ethereum
  - Solidity
  - Truffle
  - MetaMask
  - JavaScript
  - Ganache
  - Web3.js
  - jQuery

# ETHEREUM

- Ethereum is a decentralized, open-source blockchain with smart contract functionality.

# SOLIDITY

- An object-oriented, high-level language for implementing smart contracts. Smart contracts are programs which govern the behaviour of accounts within the Ethereum state.

# TRUFFLE

- Development environment, testing framework and asset pipeline for blockchains using the Ethereum Virtual Machine (EVM)

# METAMASK

- MetaMask is a software cryptocurrency wallet used to interact with the Ethereum blockchain. It allows users to access their Ethereum wallet through a browser extension or mobile app

# GANACHE

- Ganache is a personal blockchain for rapid Ethereum and Corda distributed application development. It enables us to develop, deploy, and test your dApps in a safe and deterministic environment.

# WEB3.JS

- web3.js is a collection of libraries that allows us to interact with a local or remote ethereum node using HTTP, IPC or WebSocket.

# UPCOMING FEATURES

Below are some other features and functionalities we are planning to incorporate by the next release:

---

- Incorporate KYC into the application to further improve on the security and usage of the application.
- Provide a mechanism which enables the lenders and borrowers to communicate with each other, this would further allow the community to build and flourish.
- Provide the farmers a tool in which they can justify the requirements of loan in their native language.





**THANK  
YOU!**

Have a  
great day  
ahead.