

Politecnico di Torino – University of Plymouth  
III Facoltà di Ingegneria dell'Informazione  
Laurea Magistrale in Ingegneria del cinema e dei mezzi di comunicazione

# BlockArt: A Blockchain dapp for collaborative artistic production

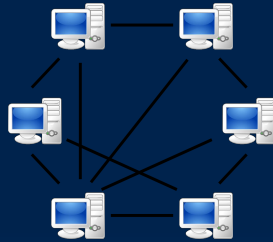


Supervisor: Laura Farinetti, Politecnico di Torino  
Co-rapporteur: Gianni Corino, University of Plymouth  
Co-rapporteur: Valentina Gatteschi, Politecnico di Torino

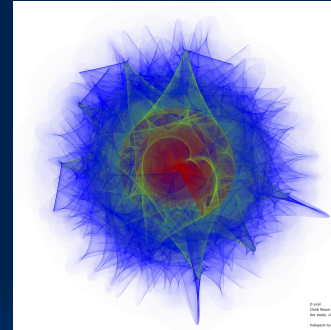
Candidate: Davide Grimaldi

# Context

- Decentralized View
- How can decentralized view improve art?



Blockchain



# Goals

- Facilitate artists in the realization of works of participatory art
- Develop an algorithm able to increase the participation of users of the platform
- Create a decentralized platform for participatory artistic productions.



# Main Steps

- Publishing of draft
- Participation
- Moderation
- Voting



# Main Steps

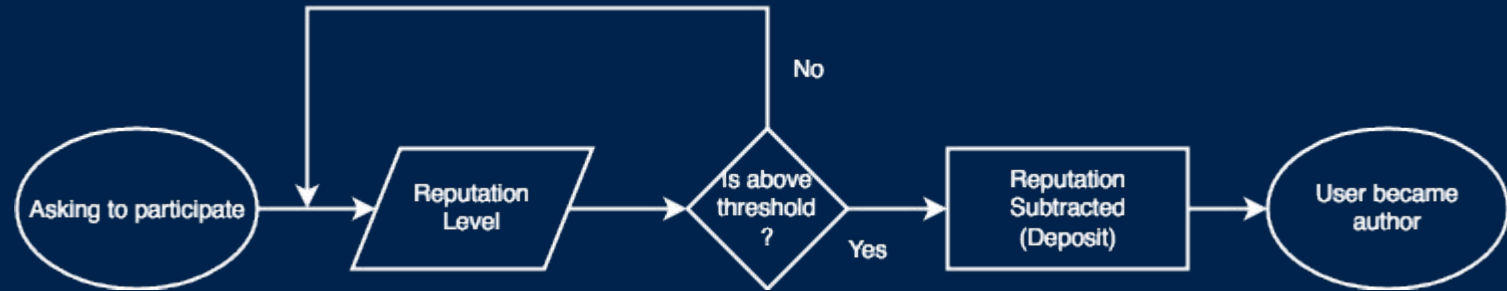
- Publishing of draft

The main user publish on the platform the draft of him work



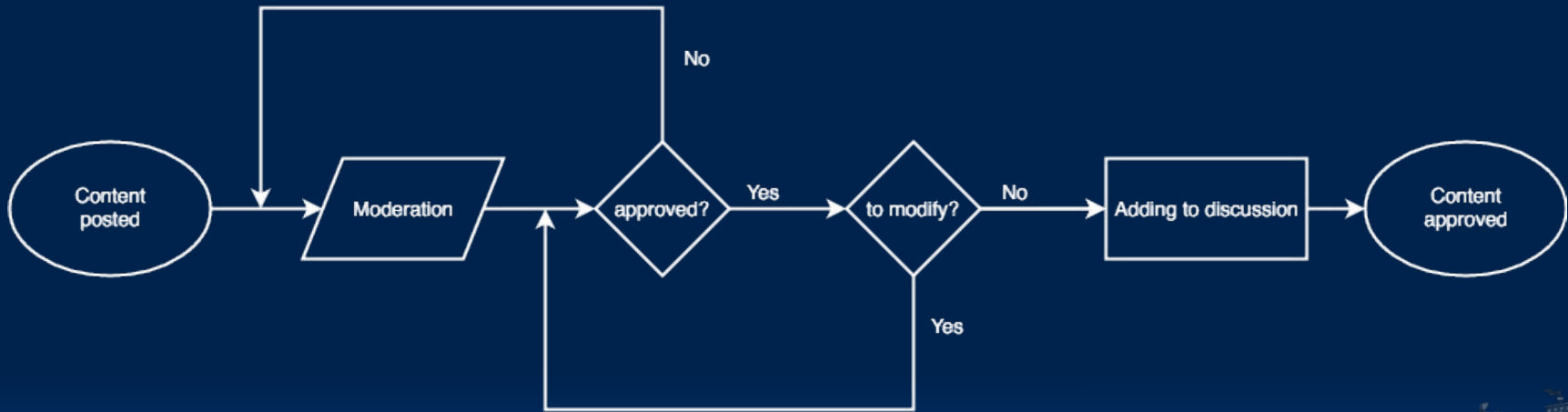
# Main Steps

- Participation



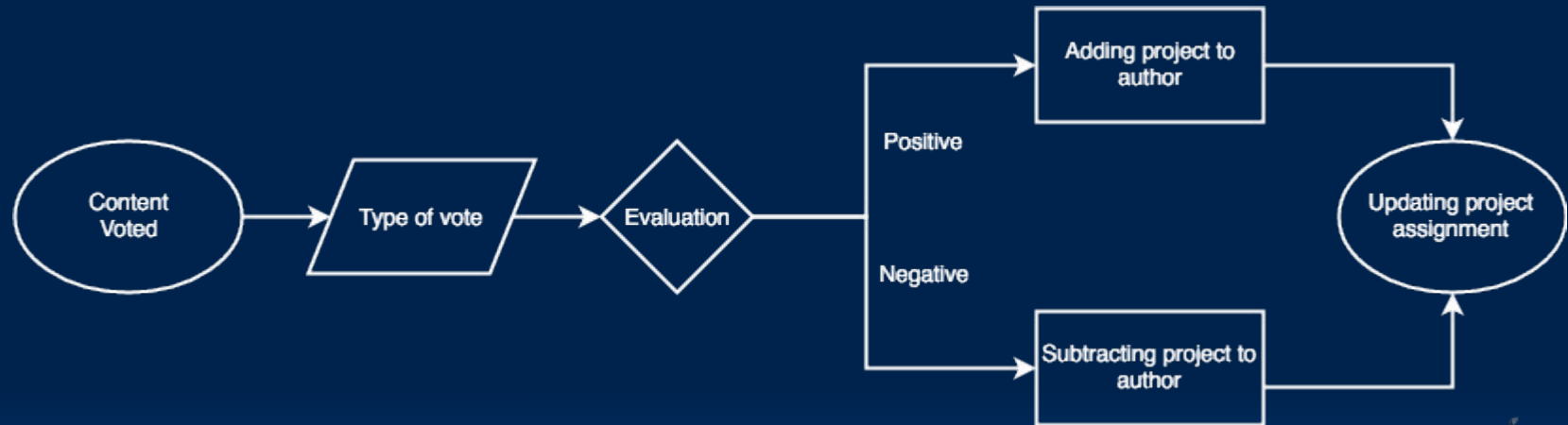
# Main Steps

- Moderation



# Main Steps

- Voting





# DAO



Welcome to BlockArt

Davide

0x8f002fd2e41d640024dadb5795e9cf213bcb45e1

If it doesn't correspond with your BlockArt address, please check it in  
MetaMask

Sign in

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# Smart Contracts



Welcome to BlockArt

Davide

0x8f002fd2e41d640024dadb5795e9cf213bcb45e1

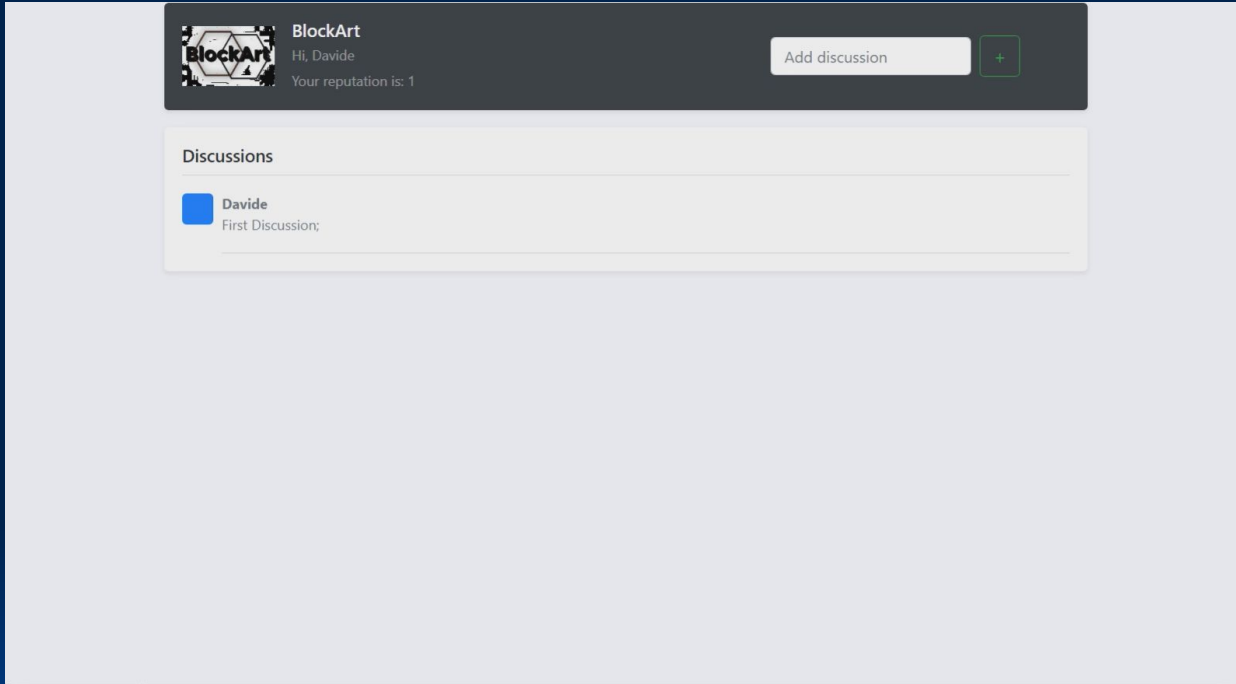
If it doesn't correspond with your BlockArt address, please check it in  
MetaMask

Log in

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# Smart Contracts



# Smart Contracts

First Discussion

First Comment

Davide

First comment of first discussion

Explore

Suggestions

Like 0

UnLike 0

Add Comment

Title


Add the content

Add



# Smart Contracts

### Second Comment



Second comment of first discussion

Mario

Explore

Suggestions

Like 1

UnLike 0

### Add Comment

Title

Add the content

Add

The Participant are: Davide (50) Mario (50)



An innovative idea that shows experimentation of decentralized technologies could be an advantage to optimize collaborative communities.

# LeanArc

LeanArc is a Multi-Cloud Service engine, it borns from the need to have a smart and easy tools to provide a search engine for multi-cloud services.

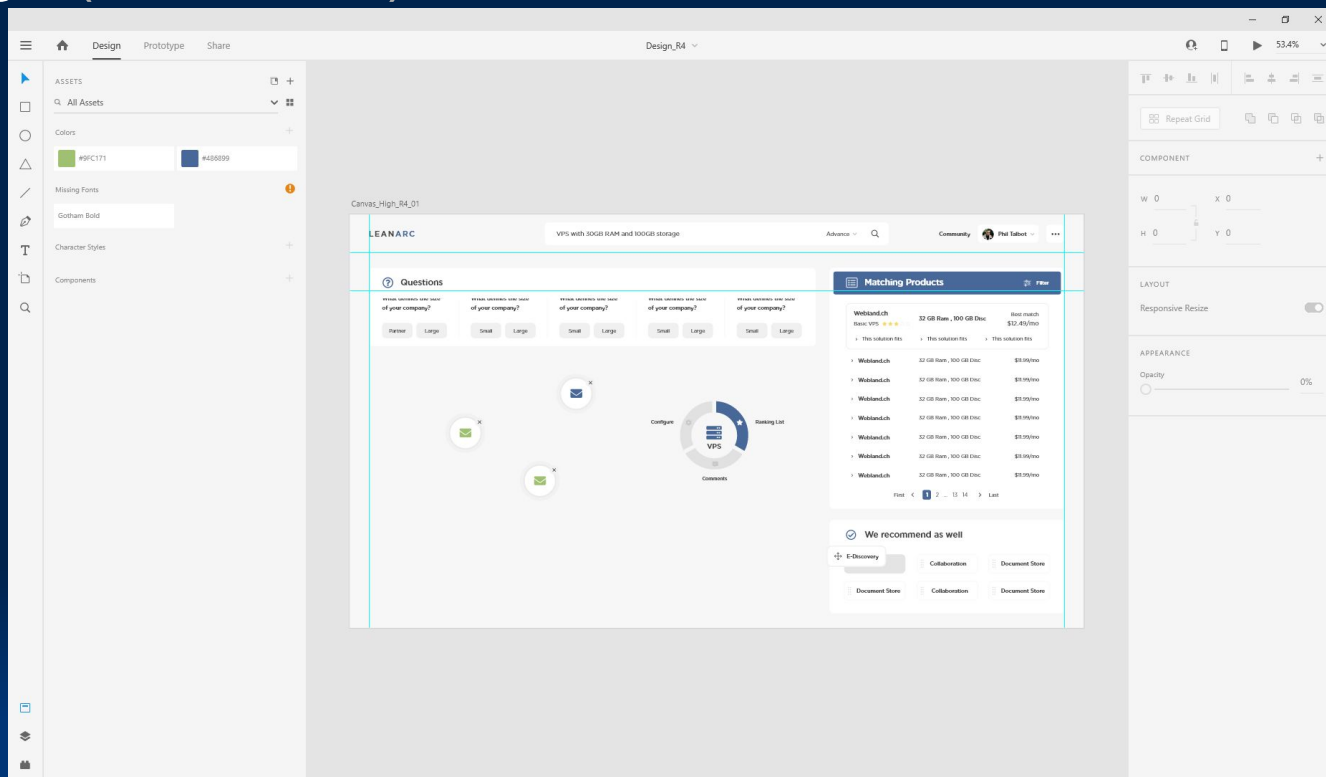
# LeanArc

LeanArc is based on three different layers:

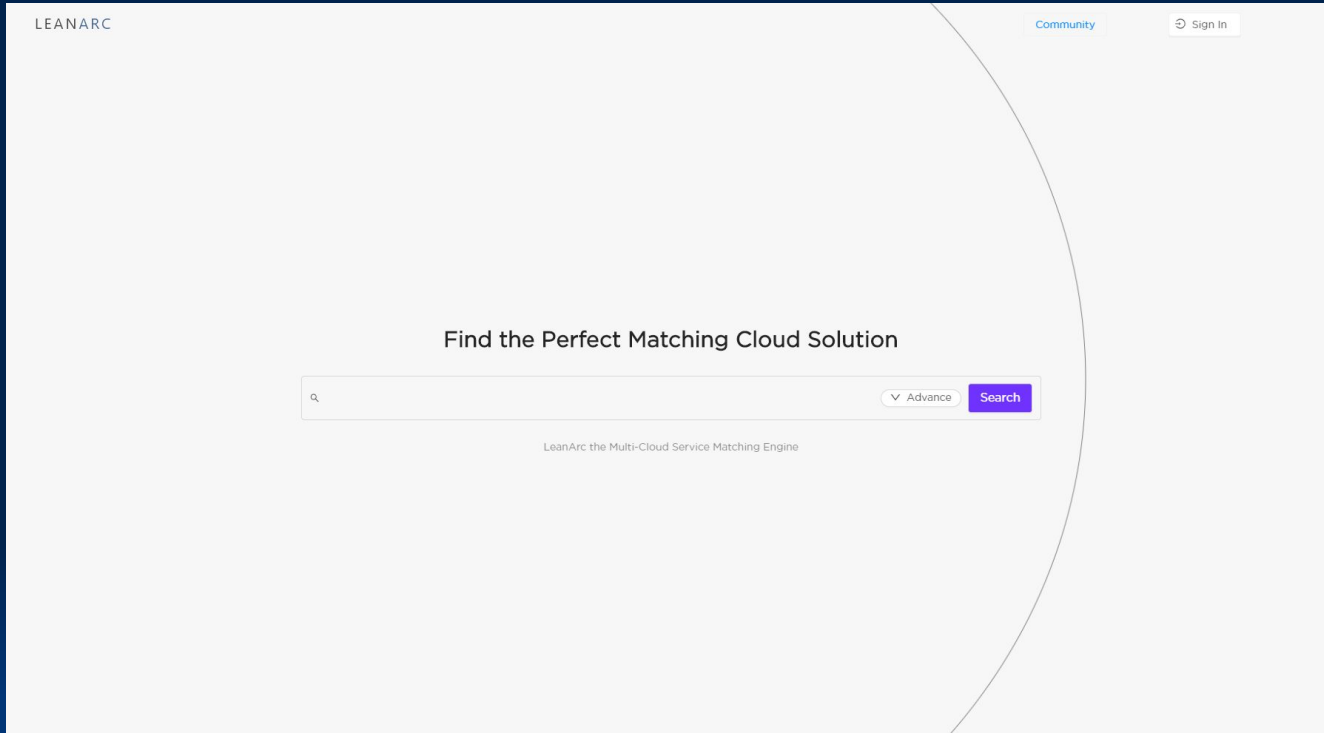
- UI/UX
- Frontend
- Backend



# Design (Adobe XD)



# Frontend (React-Redux-D3.js)



# Frontend

LEANARC

Community

Sign In

...

?

Questions

Should backup be price included?

Yes

Is a very high performance crucial?

Absolutely

Do you have to abide to local data laws?

Yes

Will you run an MS SQL server on the VPS?

Yes

What is your monthly budget in €?

Please select

Monitoring#1

eDiscovery#1

VPS#1

Configuration

Disc Space GB:

default

Operating System:

default

Memory:

default

GHz:

default

vCore:

default

Matching Products

Strato Linux V.

• 1500 GB storage

• 1000 MBit bandwidth

• 60 GB memory

• [Hover me](#)

\$33.00/mo

➤ Strato

• 800 GB storage

\$22.00/mo

➤ Contabo

• 800 GB storage

\$14.99/mo

➤ Contabo

• 1400 GB storage

\$12.99/mo

➤ Strato

• 800 GB storage

\$17.00/mo

➤ MVPS

• 200 GB storage

\$49.00/mo

➤ Strato

• 300 GB storage

\$10.00/mo

➤ Contabo

• 50 GB storage

\$26.99/mo

First

<

1

2

3

4

5

>

Last

☒

We recommend as well

⋮

eDiscovery

⋮

Monitoring

⋮

VPN

## Backend

The backend part is developed in python followed the MVC pattern. It is been used the python's flask framework to develop a microservices architecture.