

DECENTRALIZED STORAGE SYSTEM - DApp

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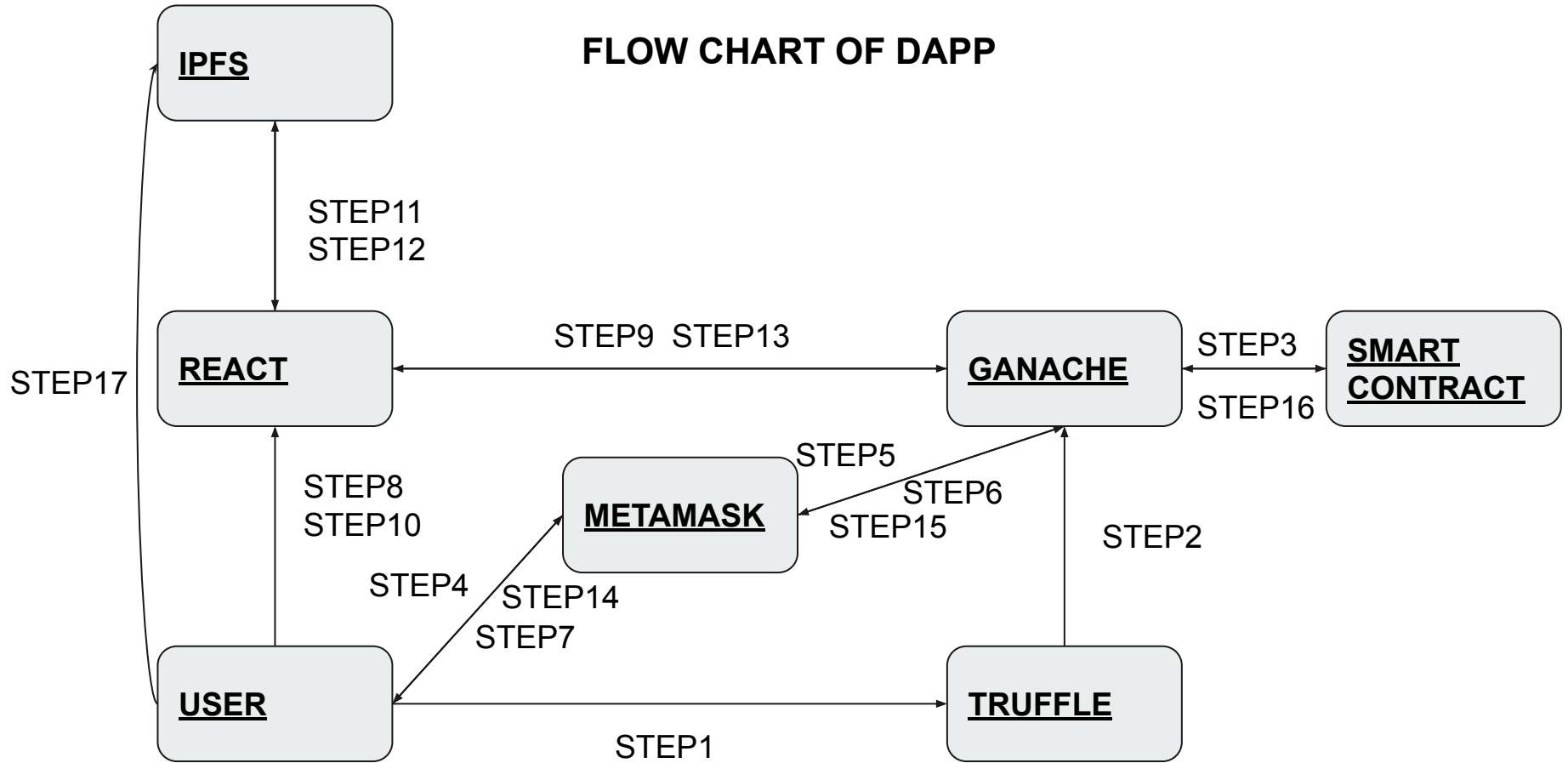
GUIDANCE BY : DR. SOMANATH TRIPATHY



PROBLEM STATEMENT :-

- Developing a decentralised file storage system, where an user an upload, download and share the files, apart from these there will be a feature called request where user can request a particular file from other user.

FLOW CHART OF DAPP



IPFS : INTERPLANETARY FILE SYSTEM



WORKING OF OUR DAPP :-

CURRENT BLOCK
14GAS PRICE
20000000000GAS LIMIT
6721975HARDFORK
MUIRGLACIERNETWORK ID
5777RPC SERVER
HTTP://127.0.0.1:7545MINING STATUS
AUTOMININGWORKSPACE
REPULSIVE-FLOOR

SWITCH



MNEMONIC ?

funny neither cook begin buffalo account hat gold total traffic lava embody

HD PATH

m/44'/60'/0'/0/account_index

ADDRESS

0xdb322916dc6C9EAE89513285F5fCcE6A29A43572

BALANCE

99.95 ETH

TX COUNT

14

INDEX

0



ADDRESS

0x96F5b538C3CCb7e5E802767a15697a70637dddd5

BALANCE

100.00 ETH

TX COUNT

0

INDEX

1



ADDRESS

0xff232c3A59b817A0da1a0A333ac5fB85aB38184C

BALANCE

100.00 ETH

TX COUNT

0

INDEX

2



ADDRESS

0x987d7C68BCbcbdd92a43CD60892afF21cd4BC77b

BALANCE

100.00 ETH

TX COUNT

0

INDEX

3



ADDRESS

0xfe3e7EeD32E085BD97Af781A67456dE1485fa1cb

BALANCE

100.00 ETH

TX COUNT

0

INDEX

4



ADDRESS

0xC836b16d84150BE1E054Df32CB157D30F38DFDF5

BALANCE

100.00 ETH

TX COUNT

0

INDEX

5



ADDRESS

0x7c916e272b68537cb022F8796f87bAd00f557C0C

BALANCE

100.00 ETH

TX COUNT

0

INDEX

6



FileEditSelectionViewGoRunTerminalHelp

App.js - IPFS-EthereumDapp - Visual Studio Code

EXPLORER

IPFS-ETHEREUMDAPP

migrations

node_modules

public

src

abis

components

App.css

App.js

contracts

Image.sol

Migrations.sol

index.js

serviceWorker.js

test

.babelrc

.gitignore

package-lock.json

package.json

truffle-config.js

PROBLEMS

OUTPUT

TERMINAL

DEBUG CONSOLE

- solc: 0.5.16+commit.9c3226ce.Emscripten.clang

Starting migrations...

=====

> Network name: 'development'

> Network id: 5777

> Block gas limit: 6721975 (0x6691b7)

1_initial_migration.js

=====

Replacing 'Migrations'

> transaction hash: 0xa2c3573ddb2c77c45b2c1ac9b304018637a0accbdd17ed0a2a98da8d16d6a875

> Blocks: 0 Seconds: 0

> contract address: 0x7736FFE367BE328B61bEEd2E2BCc5aC3612FB48f

> block number: 15

> block timestamp: 1633375631

Summary

=====

> Total deployments: 2

> Final cost: 0.01238344 ETH

PS C:\Users\Aman\Documents\IPFS-EthereumDapp>

+ v v x

powershell

powershell

master*

Ln 41, Col 40

Spaces: 2

UTF-8

CRLF

JavaScript



npm run start -> to start our server.



Welcome Back!

The decentralized web awaits

Password

UNLOCK

or [import using Secret Recovery Phrase](#)

Need help? Contact [MetaMask Support](#)



Before Mid-Sem :-

IPFS Ethereum Dapp

localhost:3000

☆🇮🇳🔥📺SRM🦊🔗⚙️👤⋮

AppsYouTubeMapsNewsTranslateWeb StoreGmailGitHub - nadishsoo...GitHub - tsiddhant/...Reading list

IPFS BLOCKCHAIN APPLICATION

id	hash/view
----	-----------

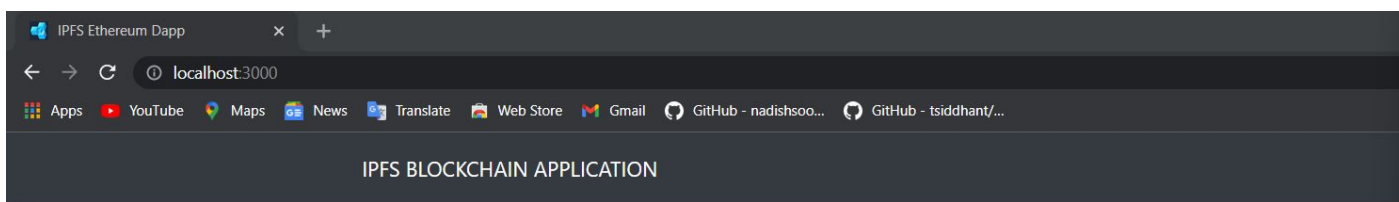
Change File

Choose file

No file chosen

Submit

Account : 0xdb322916dc6C9EAE89513285F5fCcE6A29A43572



id	hash/view
----	-----------

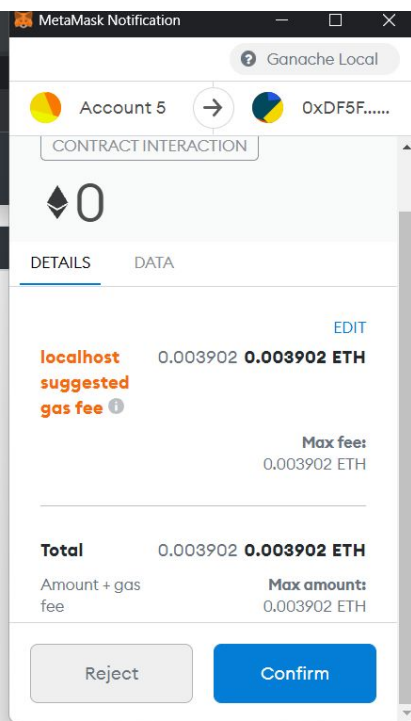
Change File

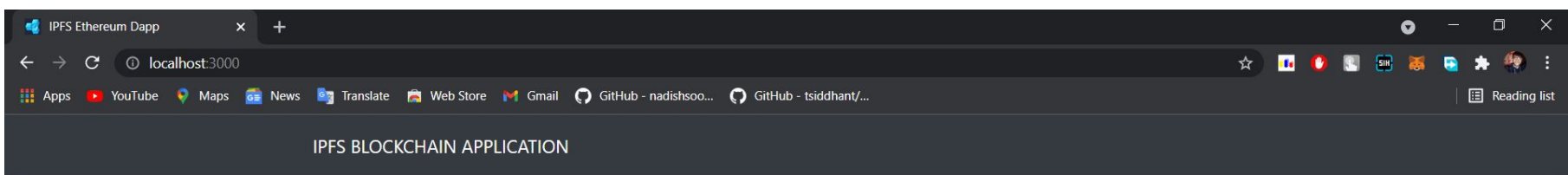
Choose file

Signature.jpg

Submit

Account : 0xdb322916dc6C9EAE89513285F5fCcE6A29A43572





id	hash/view
1	QmTHrPwrZy...

Change File

Choose file

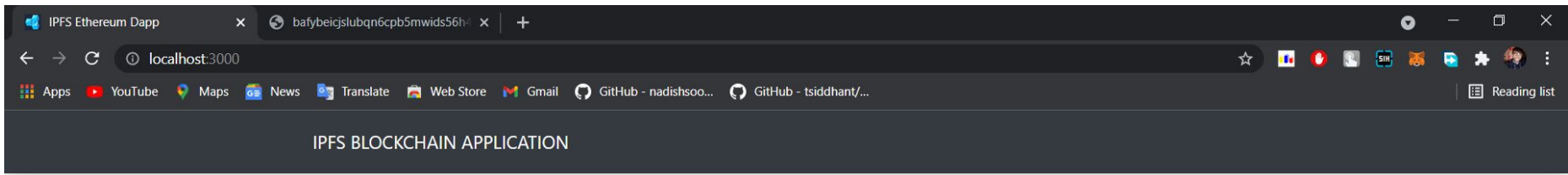
No file chosen

Submit

Account : 0xdb322916dc6C9EAE89513285F5fCcE6A29A43572



Aman Gupta



id	hash/view
4	QmX88dprTj...
3	QmVbhvyhEd...
2	QmeSakFjdn...
1	QmTHrPwrZy...

Change File

No file chosen

Account : 0xdb322916dc6C9EAE89513285F5fCcE6A29A43572

After MidSem :

- Along with the hashes of file we can also see a short description, uploader and size of file.
- On deleting file hash will be removed from smart contract.

Your Files

id	name	description	type	size	date	uploader	hash/view/get	delete
3	images (2).jpeg	image2	image/jpeg	10 KB	11:25:24 PM 12/2/2021	0xdb322916...	QmZGyR4eQx...	Delete
2	images (1).jpeg	image1	image/jpeg	11 KB	11:25:11 PM 12/2/2021	0xdb322916...	QmQ2nQXJWm...	Delete
1	images.jpeg	image	image/jpeg	9 KB	11:24:58 PM 12/2/2021	0xdb322916...	QmUPVbqusN...	Delete



File request with short description of file.

By adding the address of request and short description, we can request file from other user.

Request File



We can see our requests.

Here in my request we can requests which we have raised.

My Requests

User	Description
0x96F5b538C3CCb7e5E802767a15697a70637ddd5	Requesting BTP Project
0x96F5b538C3CCb7e5E802767a15697a70637ddd5	Requesting BTP Slides



We can see request pending on us.

Here in request pending section we can request which are pending on us and we have two options to accept of reject the request.

Request Pending

User	Description	Accept Request	Reject Request
0xdb322916dc6C9EAE89513285F5fCcE6A29A43572	Requesting BTP Project	<div>id...</div> <div>Accept</div>	<div>Reject</div>
0xdb322916dc6C9EAE89513285F5fCcE6A29A43572	Requesting BTP Slides	<div>id...</div> <div>Accept</div>	<div>Reject</div>



After rejecting/accepting.

As soon as another person give you access to his/her, those files will be visible under the View access section.

When another person deletes his/her file, that file will be removed from view access section as well.

View Access

id	name	description	type	size	date	uploader	hash/view/get
4	images (4).jpeg	image4	image/jpeg	6 KB	12:31:50 AM 12/3/2021	0x96F5b538...	QmPdFr5jgg...



Global Community

We have global community where person can upload the file globally and that file will be visible to everyone without any permission.

Global Files

id	name	description	type	size	date	uploader	hash/view/get
5	images.jpeg	image3	image/jpeg	9 KB	12:39:31 AM 12/3/2021	0x96F5b538...	QmUPVbqusN...
4	images (3).jpeg	image3	image/jpeg	12 KB	12:39:13 AM 12/3/2021	0x96F5b538...	QmQY2G6PzC...
3	images (3).jpeg	image3	image/jpeg	12 KB	12:39:04 AM 12/3/2021	0x96F5b538...	QmQY2G6PzC...
2	images (4).jpeg	image2	image/jpeg	6 KB	12:38:46 AM 12/3/2021	0xdb322916...	QmPdFr5jgg...
1	images (1).jpeg	image	image/jpeg	11 KB	12:38:35 AM 12/3/2021	0xdb322916...	QmQ2nQXJWm...

Upload File Globally

 No file chosen



THANK YOU.