

DOCUMENTATION OF OUR PROJECT

Roles of each student (CLASS LC01)

- 2440029460 - Hardi Andry Kongguasa AS Designer
- 2440020921 - Kevin Wijaya AS Website Maker
- 2440048560 - Farrel Rasyad AS Video Editor

Minutes of Meeting

- Start diskusi mendalam 31 may // semua kelompok
- Pembentukan final konsep 2 June // semua kelompok
- Pembuatan script 2 - 3 June // semua kelompok
- Pembuatan design website 2 - 3 June // Hardi
- Rekaman suara video 4 - 7 June // semua kelompok
- Video editing 7 - 12 June // Farrel
- Pembuatan website 5 - 12 June // Kevin
- Pembuatan Dokumentasi 12 June // Farrel & Kevin

Storyboard

1. Video

```
//this script is the rough idea of the video's rundown, some  
may change in the final export
```

```
//part 1, Hardi
```

```
//heads up text  
What is cryptocurrency?
```

```
//illustration about blockchain and Satoshi Nakamoto  
Cryptocurrency are a virtual currency that work on blockchain  
technology, introduced by satoshi nakamoto in 2013.
```

```
//illustration about government decentralization and the benefits  
Cryptocurrency is decentralized that mean it is not control by third  
party, that means the transaction does not have a fee, and there is no  
limit of transaction.
```

```
Because crypto currency use blockchain technology, that means it is  
hard to cheat the system
```

//part 2, Farrel

//screen slide to heads up text
What is Blockchain?

//illustration about database and computer network nodes
A blockchain is a distributed database that is shared among the nodes of a computer network. It is open and accessible to anyone. As a database, a blockchain stores information electronically in digital format.

//illustration about bitcoin
Blockchains are best known for their crucial role in cryptocurrency systems, such as Bitcoin, for maintaining a secure and decentralized record of transactions.

//give heads up text checklist
The innovation with a blockchain is that it guarantees the fidelity and security of a record of data and generates trust without the need for a trusted third party.

//white screen
The difference between a normal database and a blockchain is how the data is stored.

//block illustration suddenly appears like those yt vid essays
A blockchain collects information in groups that is called "block".

//illustration text insert about bitcoin
The data that is stored could be anything. For example. In bitcoin, the data that is stored is about the transaction. For example, the sender, receiver and the amount of coins

//illustration about the block getting filled, ^_(ツ)_/^_
When a block is filled, the block is closed and is linked to the previous block with a hash which forms a chain of data, or in this case, a chain of blocks. Hence the name-

//insert some over-used two phased animation starting with "block" and ends with "chain" to make it sound punctual
-blockchain

//illustration about a block with some checklist of things it has
Each individual block consists of Data, Hash, and the hash of the previous block

//illustration about hash with 2 blocks that have different hashes
A hash is some string of characters that is generated for each block and is unique, meaning each hash is different from one another.

//illustration about block with the amount of bitcoin changed
If the information inside the block is changed, the hash is also changed and needs to be re-validated and it will be most likely removed because each block should not be tampered with.

//illustration about 3 blocks and hashes
An example is this. Here we have 3 blocks. Each block has their hash values and the value of the previous hash. The First block does not have a previous hash and is called a "Genesis block"
Here we know that the previous hash value on each block leads to the previous block.

//slide and add "miner" pic with more detail
To add more blocks to the blockchain, they have to be validated first.
The people that validates the blocks are called miners.
Miners need to solve complex mathematical problems in order to validate the new blocks. This is called "Proof of work". Proof of work is also used to ensure that the data cannot be altered by any of the users within the network.

//add some mining definition to the screen and the pic again
And the process of adding blocks to the blockchain is called "mining"

```
//Part 3, Kevin
```

```
//Slide to another screen
```

Now, what are the advantages of blockchain?

```
//better to group the + and - arguments with a list so it would be easier to read
```

```
//advantages, preferably with heads up text
```

```
//illustration about the computer nodes and public data
```

Blockchain has Transparent transaction system

This technology can store transaction data safely and transparently, so that when someone makes a transaction, there will be public access so that everyone can see the transaction on the blockchain.

```
//illustration about miners and hackers?
```

Blockchain also Has good data protection

The existence of a verification system by miners before executing data that will be added to many computers. Database structure is only added or can only add and do not have access to the Edit command. So, hackers will not be able to hack or social engineering to change the data in it.

```
//slide to a new screen  
  
//disadvantage, with the same animation text as advantage  
  
However, there are some disadvantages  
  
//illustration about Proof of work and network acceptance
```

Blockchain can be less efficient in carrying out the transaction process

Confirming data on the blockchain network requires an agreement from the parties included in the network, so that sometimes it takes longer when you want to join the network.

```
//illustration about no regulation
```

Blockchain is also difficult to regulate

The decentralization system makes the parties involved in the blockchain spread from various parts of the world, so that renewal cannot occur evenly and thoroughly, but depends on whether the party wants to make an update or not.

2. Website

Font family -> Arial, Helvetica, sans-serif;

Body

Background color -> rgb(220, 220, 220)

3 bagian utama

- Navbar

Logo -> height = 50%

Background image -> Asset/Blue\ banner.png

- Kontent

Background color -> white(#fff)

Max-width -> 1000px

What is Blockchain?

-> Background image -> Asset/Blue\ banner.png

Button

-> color -> rgb(32, 125, 255)

-> Background-color -> white

Our Cast

-> color -> rgb(64, 143, 255)

- Footer

Background color -> #555

What is Cryptocurrency?

A cryptocurrency is a digital or virtual currency that is secured by cryptography, which makes it nearly impossible to counterfeit or double-spend. Many cryptocurrencies are decentralized networks based on blockchain technology. A defining feature of cryptocurrencies is that they are generally not issued by any central authority, rendering them theoretically immune to government interference or manipulation.



What is Blockchain?

Blockchain is a technology that is used as a storage system or digital data bank that is connected with cryptocurrencies. The use of Blockchain itself can not be separated from the name Cryptocurrency. It is not limited to there, in fact, many other sectors can take advantage of technological developments from this Blockchain.

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What is the Purpose of Blockchain?



The goal of blockchain is to allow digital information to be recorded and distributed, but not edited. In this way, a blockchain is the foundation for immutable ledgers, or records of transactions that cannot be altered, deleted, or destroyed. This is why blockchains are also known as a distributed ledger technology (DLT).

First proposed as a research project in 1991, the blockchain concept predicated its first widespread application in use: Bitcoin, in 2009. In the years since, the use of blockchains has exploded via the creation of various cryptocurrencies, decentralized finance (DeFi) applications, non-fungible tokens (NFTs), and smart contracts.

Our Cast



Hardi
AS Designer



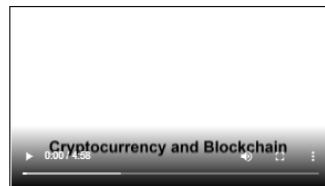
Kevin
AS Website Maker



Farrel
AS Video Editor

See our video

to learn about crypto and how blockchain works



```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Project Multimedia Systems LC01, 2022, FARREL-HARDI-KEVIN</title>
8      <link rel="stylesheet" href="style.css">
9  </head>
10 <body>
11     <div class="nav">
12         <div class="logo">
13             |   
14         </div>
15     </div>
16     <div class="container">
17         <div class="investing">
18             <div class="desc">
19                 <h3>What is Cryptocurrency?</h3>
20                 <p>A cryptocurrency is a digital or virtual currency that is secured by cryptography, which makes it nearly impossible to counterfeit or double-spend. Many cryptocurrencies are decentralized networks based on blockchain technology. A defining feature of cryptocurrencies is that they are generally not issued by any central authority, rendering them theoretically immune to government interference or manipulation.</p>
21             </div>
22             <div class="img">
23                 |   
24             </div>
25         </div>
26         <div class="whatIsCrypto">
27             <div class="desc">
28                 <h3>What is Blockchain?</h3>
29                 <p>Blockchain is a technology that is used as a storage system or digital data bank that is connected with cryptography. The use of Blockchain itself can not be separated from the name Cryptocurrency, it is not limited to there, in fact, many other sectors can take advantage of technological developments from this Blockchain.</p>
30                 <div class="button">
31                     |   <a href="https://drive.google.com/file/d/1ciHtuv1xjFyCkjAl4wRfWS6fbDRB/view?usp=sharing" target="_blank">
32                         |       LEARN MORE
33                     </a>
34                 </div>
35             </div>
36             <div class="img">
37                 |   
38             </div>
39         </div>
40         <div class="whatIsThePurpose">
41             <div class="header">
42                 <h3>What is the Purpose of Blockchain?</h3>
43             </div>
44             <div class="desc">
45                 <div class="img">
46                     |   
47                 </div>
48                 <p>
49                     The goal of blockchain is to allow digital information to be recorded and distributed, but not edited. In this way, a blockchain is the foundation for immutable ledgers, or records of transactions that cannot be altered, deleted, or destroyed. This is why blockchains are also known as a distributed ledger technology (DLT).
50                 <br/><br/>
51                 <br><br>
52                 First proposed as a research project in 1991, the blockchain concept predated its first widespread application in use: Bitcoin, in 2009. In the years since, the use of blockchains has exploded via the creation of various cryptocurrencies, decentralized finance (DeFi) applications, non-fungible tokens (NFTs), and smart contracts.
53             </div>
54         </div>
55         <div class="OurCast">
56             <div class="header">
57                 <h3>Our Cast</h3>
58             </div>
59             <div class="cast">
60                 <div class="Cast-Card">
61                     
62                     <h3>Hardi</h3>
63                     <p>AS Designer</p>
64                 </div>
65                 <div class="Cast-Card">
66                     
67                     <h3>Kevin</h3>
68                     <p>AS Website Maker</p>
69                 </div>
70                 <div class="Cast-Card">
71                     
72                     <h3>Farrel</h3>
73                     <p>AS Video Editor</p>
74                 </div>
75             </div>
76         </div>
77         <div class="SeeOurVideo">
78             <div class="video-desc">
79                 <h3>See our video</h3>
80                 <p>to learn about crypto and how blockchain works</p>
81             </div>
82             <video controls class="video">
83                 <source src="Asset/Blockchain and Cryptocurrency.mp4" type="video/mp4"/>
84             </video>
85         </div>
86         <div class="Footer">
87             <div class="text">
88                 <p>CRYPTOPIA - LC01, 2022, FARREL-HARDI-KEVIN</p>
89             </div>
90         </div>
91     </div>
92     </body>
93 </html>

```

Reference to all medias

1. Script

For part 1 of the script (crypto)

<https://www.investopedia.com/terms/c/cryptocurrency.asp>

For part 2 of the script (blockchain)

https://www.youtube.com/watch?v=SSo_ElwHSd4

<https://www.youtube.com/watch?v=yubzJw0uiE4>

For part 3 of the script (advantage and disadvantage)

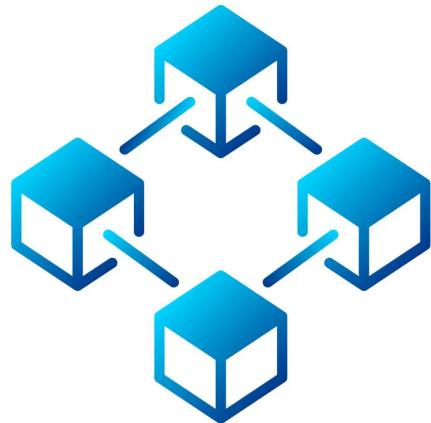
<https://www.cnbcindonesia.com/mymoney/20220217153629-72-316221/mengenal-apa itu-block-chain-teknologi-yang-mengubah-dunia>

<https://www.ruangmom.com/blockchain.html#:~:text=Kelemahan%20Teknologi%20Blockchain&text=Kurang%20efisien.,Kesulitan%20untuk%20diatur>

2. Video

Background music

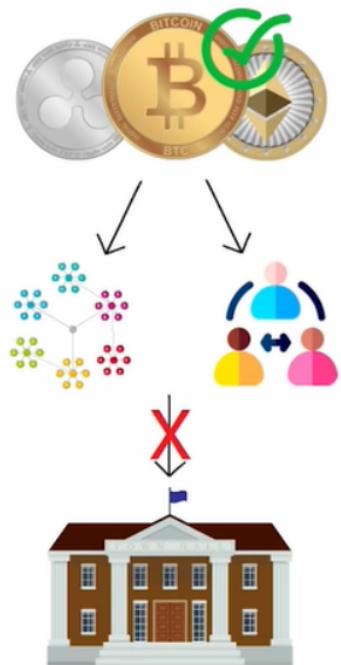
https://www.youtube.com/watch?v=ALXZ_hKMuhg&t=56s



<https://101blockchains.com/blockchain-definitions/>



<https://www.jawapos.com/oto-dan-tekno/05/04/2022/sosok-satoshi-nakamoto-sosok-yang-disebut-elon-musk-pencipta-bitcoin/>



Picture By simplelearn



No limit for transactions

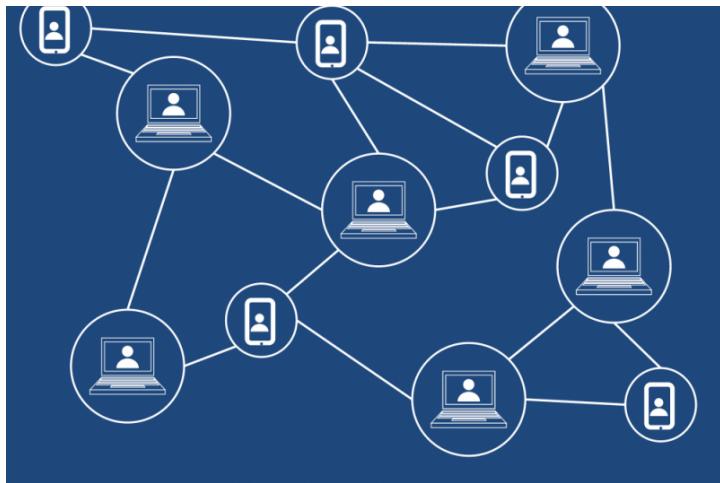
Picture By simplelearn



<https://www.ekruti.com/media/ethical-hacking-adalah>



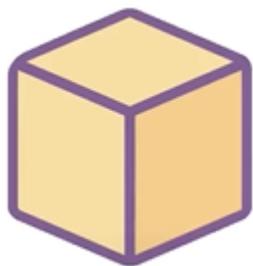
<https://phintraco.com/data-warehouse-dan-database-apa-perbedaannya/>

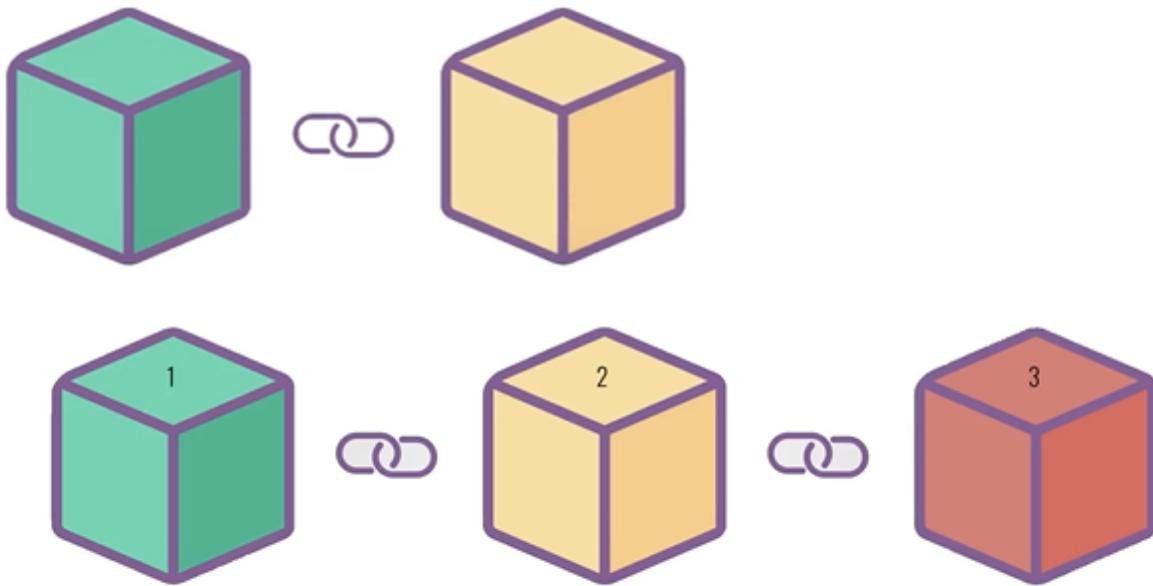


<https://www.antaranews.com/berita/708803/pakar-blockchain-potensial-bantu-logistik>



<https://lp2m.uma.ac.id/2021/12/01/bitcoin-definisi-cara-kerja-kelebihan-dan-kekurangannya/>

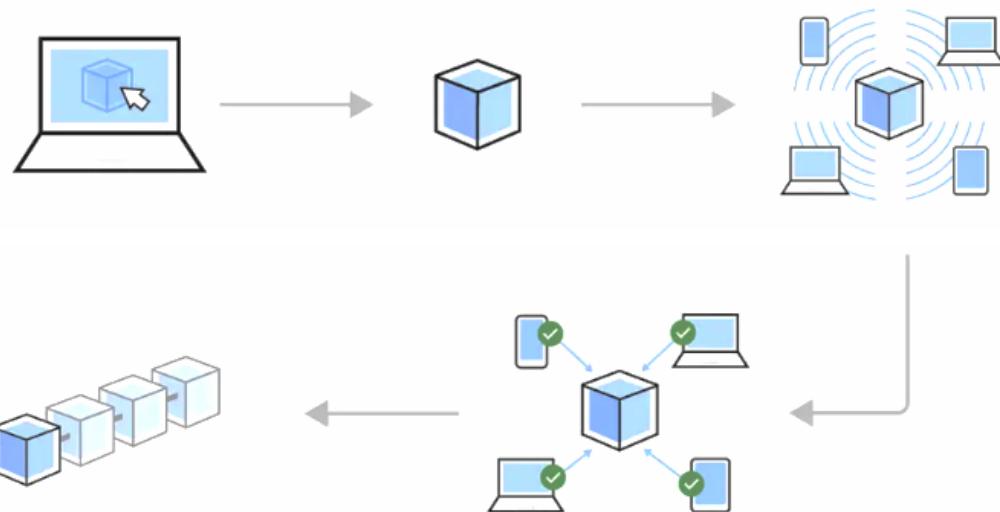




The previous top 3 images are from this link
https://www.youtube.com/watch?v=SSo_ElwHSd4



<https://www.wsj.com/articles/bitcoin-mining-noise-drives-neighbors-nuts-giant-dentist-drill-that-wont-stop-11636730904>



<http://shop2.onlinestoresoutlet.ru/category?name=blockchain%20business%20insider>

3. Website

Definition for crypto can be found here



<https://www.investopedia.com/terms/c/cryptocurrency.asp>

Definition for blockchain can be found here

<https://www.cnbcindonesia.com/mymoney/20220217153629-72-316221/mengenal-apa-itu-blockchain-teknologi-yang-mengubah-dunia#:~:text=Blockchain%20adalah%20teknologi%20yang%20digunakan,perkembangan%20teknologi%20dari%20Blockchain%20ini.>



<https://mediaindonesia.com/teknologi/410734/cryptocurrency-dan-blockchain-bisa-jadi-masa-depan-sistem-pembayaran>



<https://www.pexels.com/search/question%20mark/>

How blockchain works can be found here

<https://www.investopedia.com/terms/b/blockchain.asp>



<https://newbinusmaya.binus.ac.id/lms/course/e9b92c6a-8b07-42d4-89e7-01852a8238d1/people/>