



# IMPLEMENT BLOCK CHAIN FOR PERSONAL DATA

Yash Sompura  
19MCA067

Department of Computer Science and Engineering  
Institute of Technology, Nirma University

DR. Devendrasinh Vashi  
Assistant Professor

Department of Computer Science and Engineering  
Institute of Technology, Nirma University



**NIRMA**  
UNIVERSITY

INSTITUTE OF TECHNOLOGY  
NAAC ACCREDITED 'A+' GRADE

## INTRODUCTION

- The block chain for personal data is to allow for the distribution and storage of information while preventing unauthorized editing.
- Because this block chain is for private data, there is a system in place to ensure that the data or hashed data (which is irreversible) is never erased.
- Because the data is hashed and the block is hashed, the chain has double security, making the data safe and indestructible to attackers.

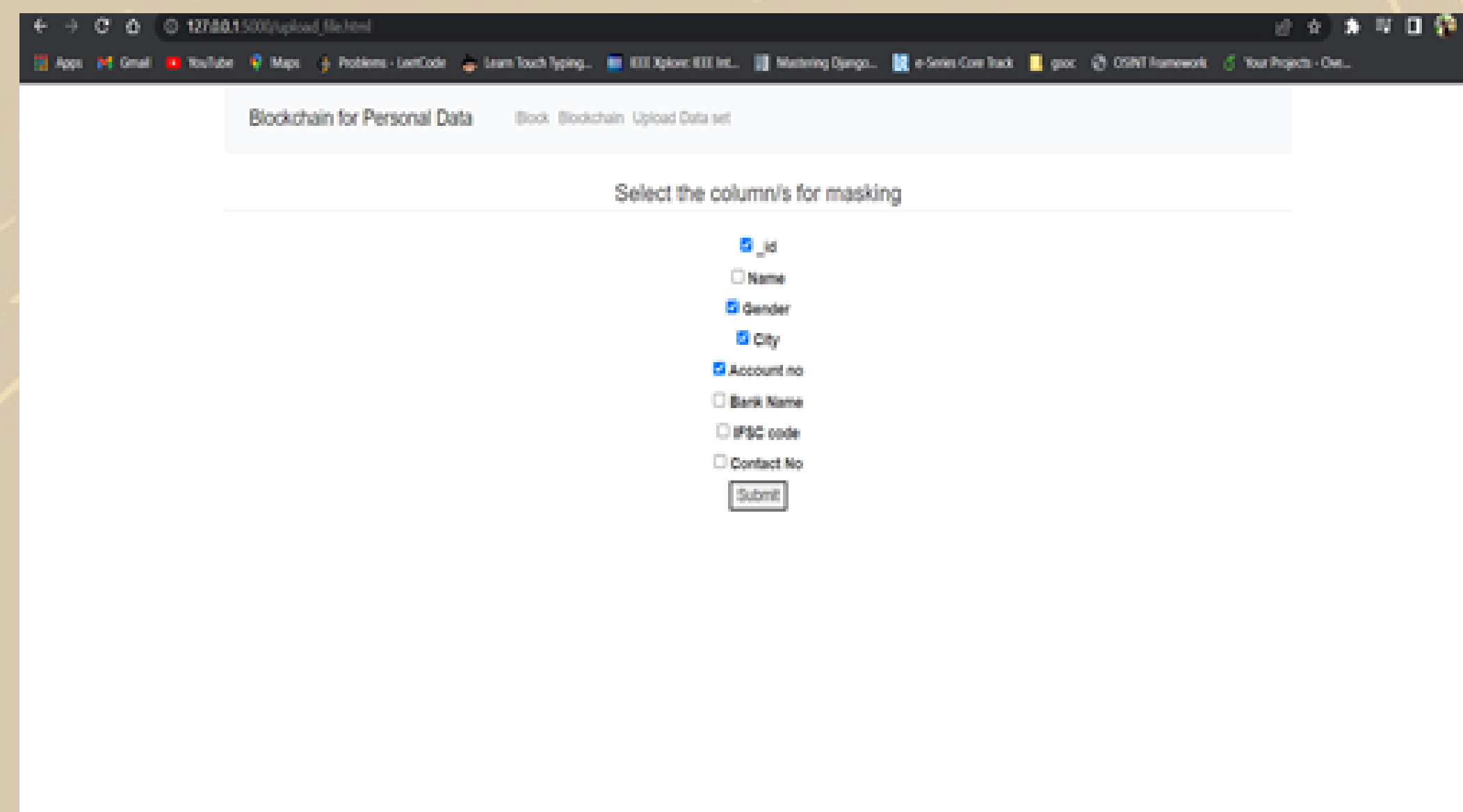
## BLOCK CHAIN



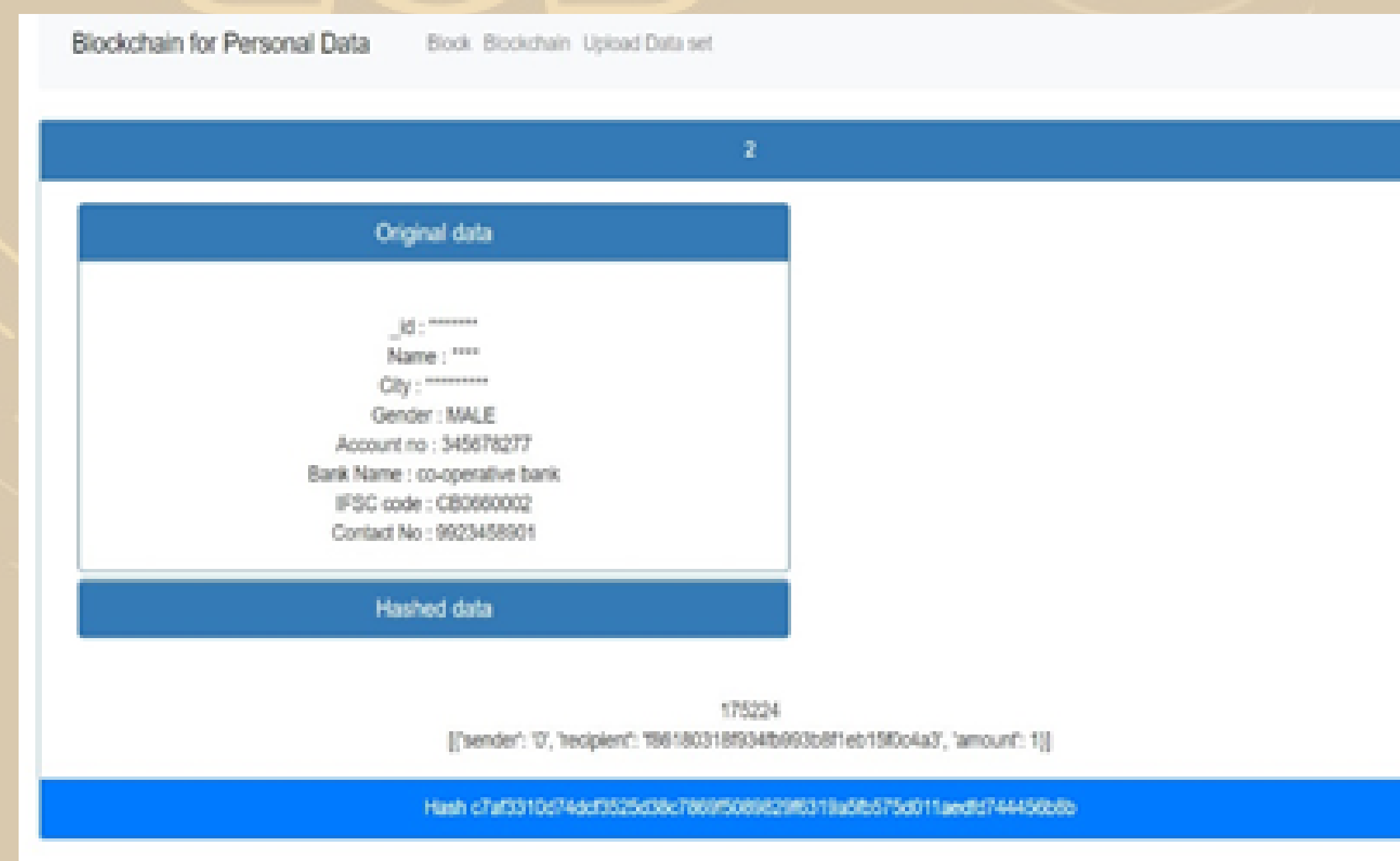
## ALGORITHM(SHA-256)

- SHA-256 stands for Secure Hash Algorithm 256-bit and it's used for cryptographic security.
- SHA-256 is a cryptographic hash function with digest length of 256 bits
- WE have used SHA- 256 algorithm for to generate the hash key of the sensitive information.
- In its encrypted form, the data may be of unlimited size, often just as long as when unencrypted.

## MASKING METHOD

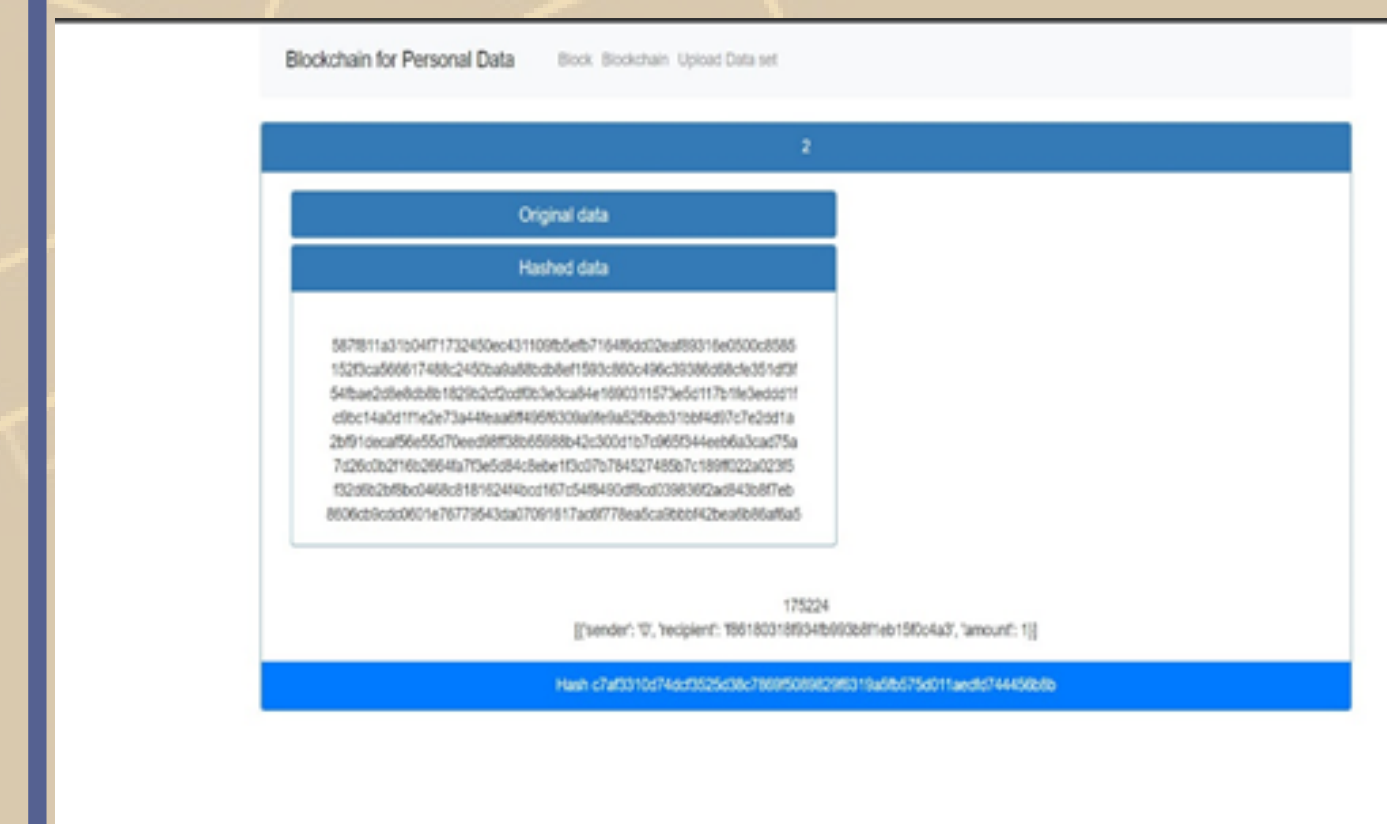


- Here we Masked the column from where the data set uploaded in this user will select the check box for masking data for to hide information in the block.

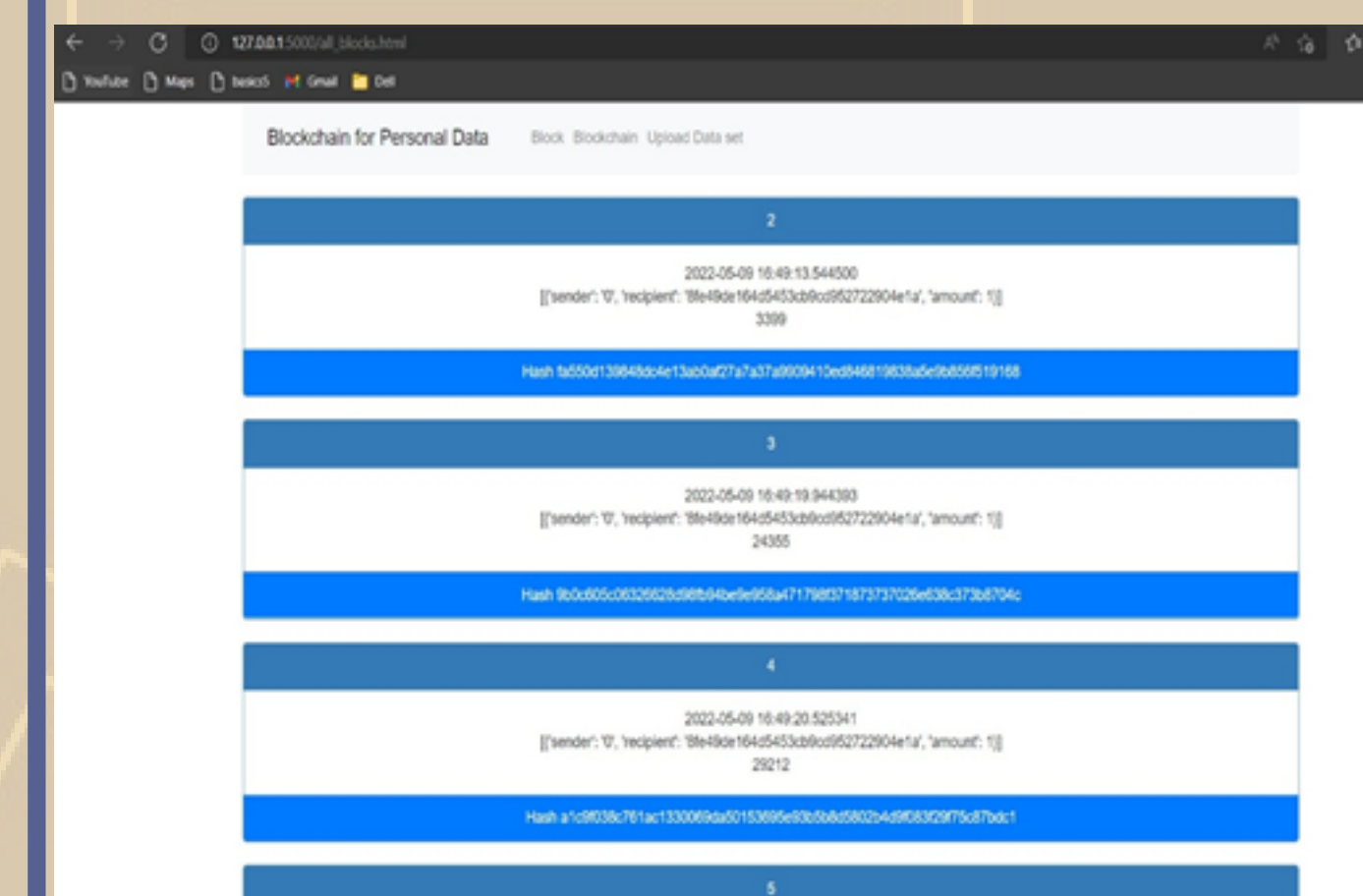


- After masked the data it will show all the record of the user with hidden data unmasked data.

## RESULTS



- Here it will show all the hash data of our original record.
- It shows the full block hash key for the security of the user.



- Here it will show full block chain with its date, timestamp node of the block, recipient and full block hash key.

## CONCLUSION

- We have come to the conclusion that personal or sensitive data should not be given to other parties since they are sensitive to abuse and fraud. Users should instead be allowed to own and control their data while ensuring security. Our Platform enables the feature to store personal data dynamically and hiding Important details of the user in the block chain for user security. Furthermore, the block chain identifies the user as the data's owner. However, if a user has a significant volume of data to store digitally for security, block chain for personal data is a chevalier choice.