

# BlockChain Based Online Mobile Banking Transaction System

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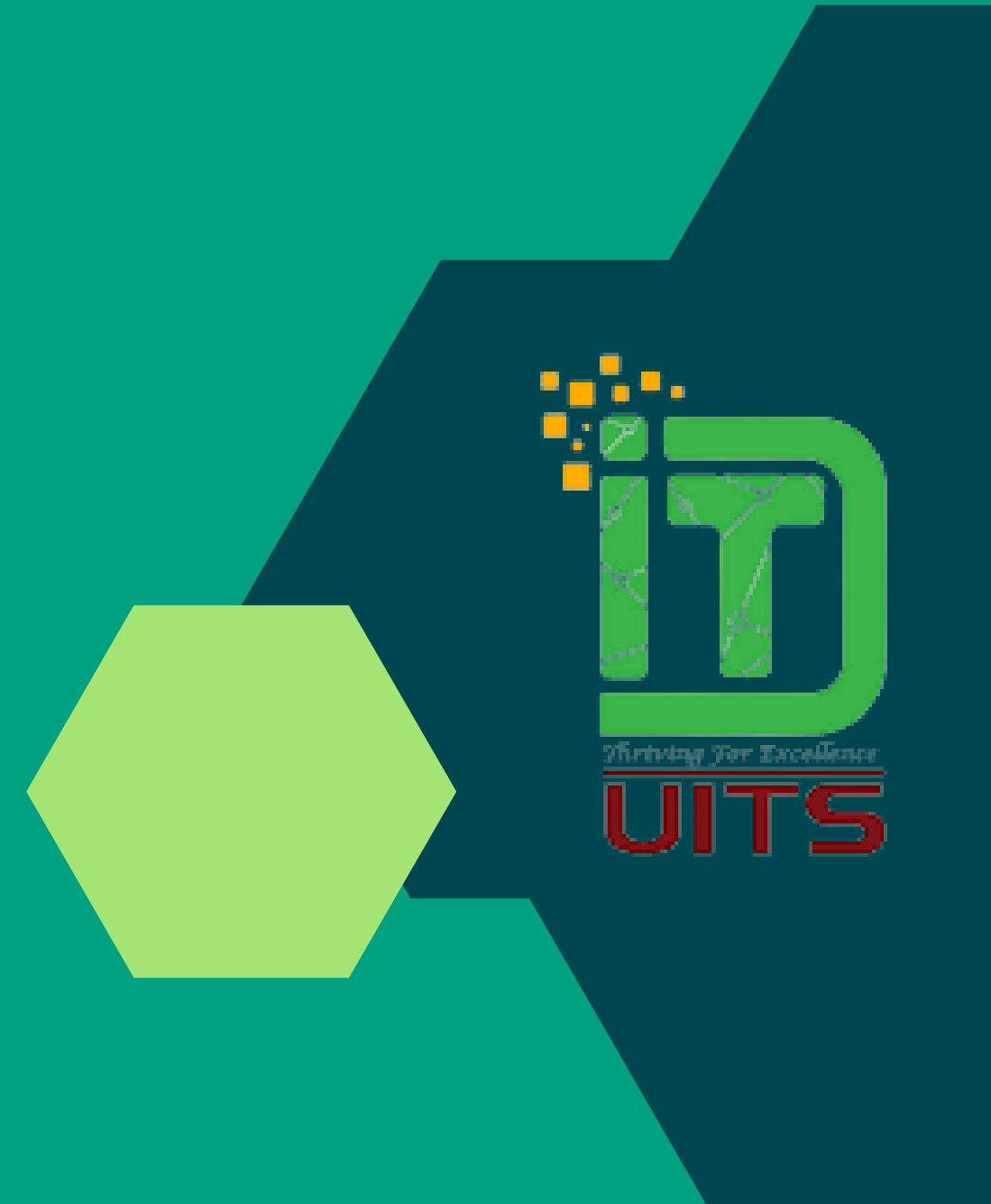
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14/02/2023



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# Introduction

Blockchain-based mobile transaction system, transactions are processed, verified, and recorded on a network of computers, rather than through a central authority like a bank. This makes the system more secure and eliminates the need for intermediaries, which can lead to faster and more affordable transactions.

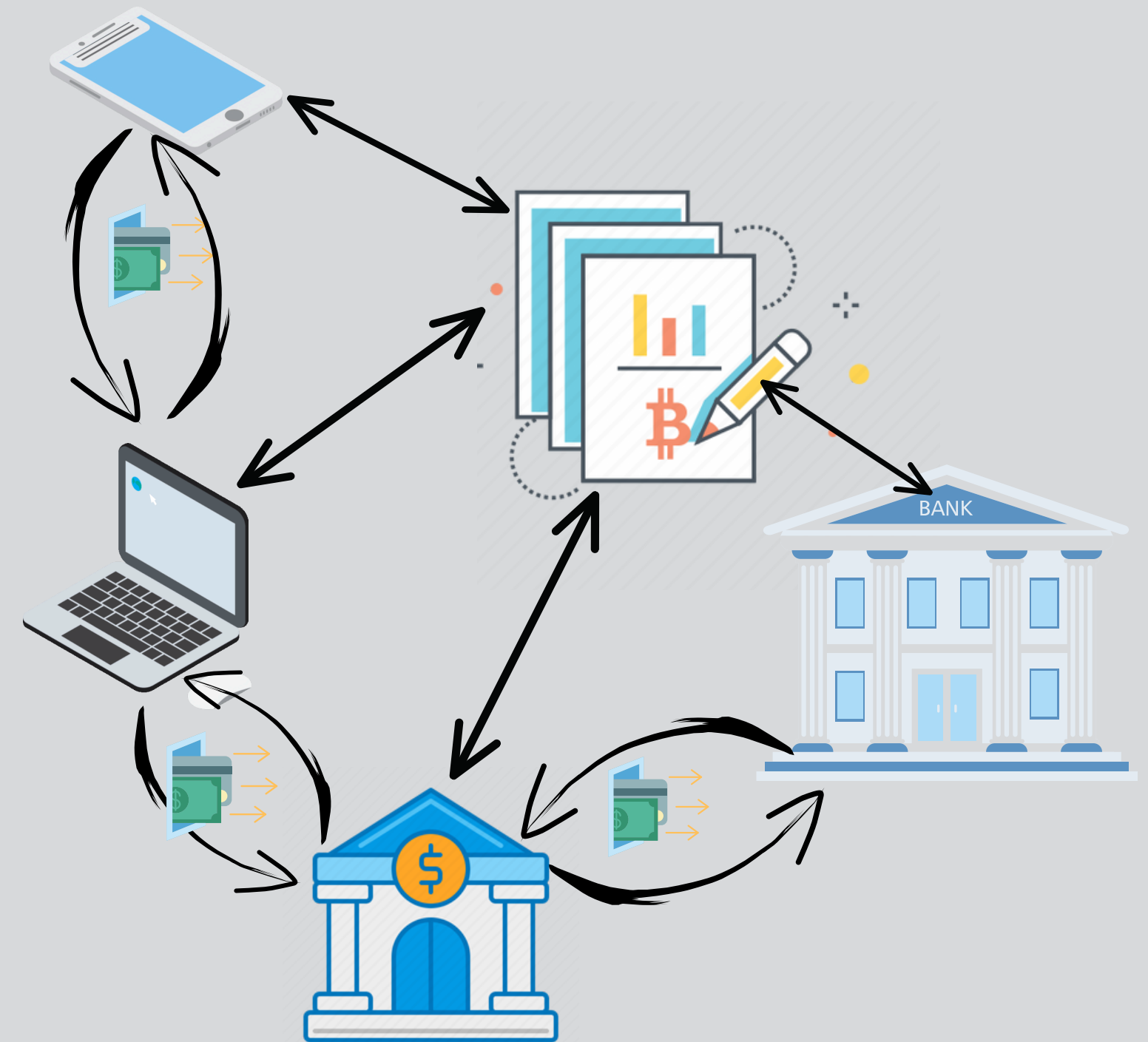
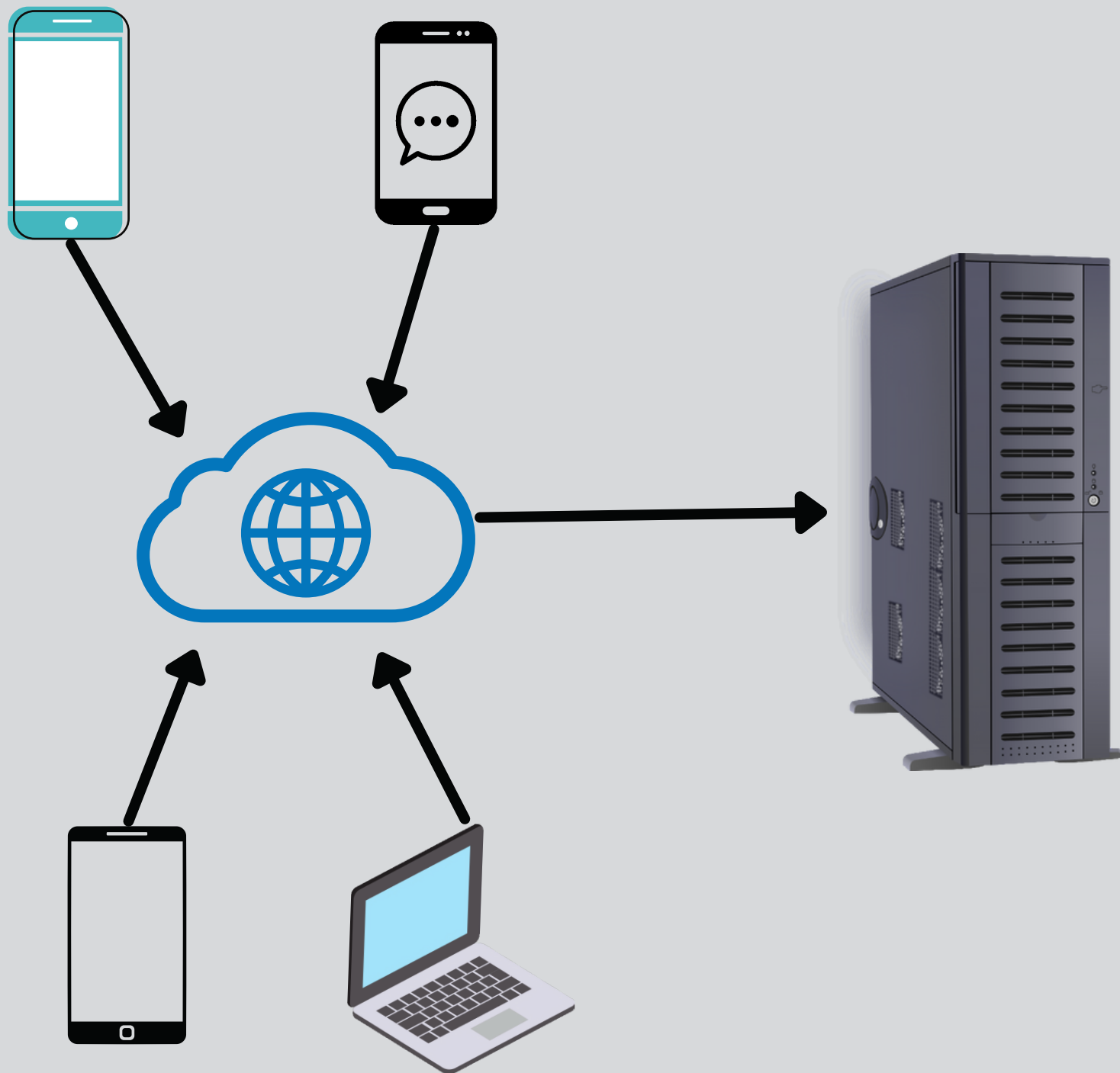
# Problem Statement

- Tradition Banking system is Centralized
- Security Risk ( Social Engeneering)
- User Information Risk
- No Kill Code Uses (Voice, Password)



# Centralized System

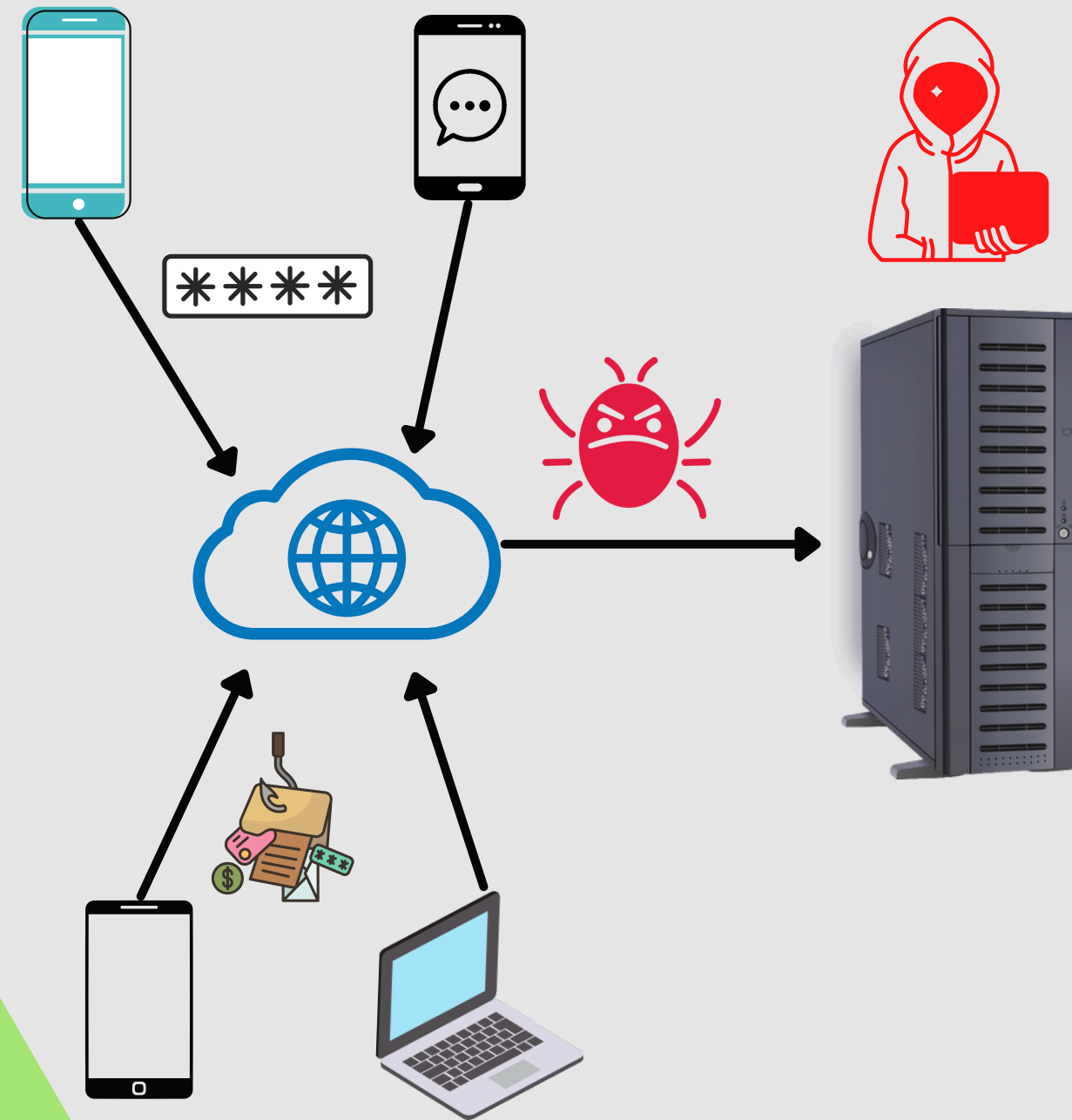
# Decentralized System





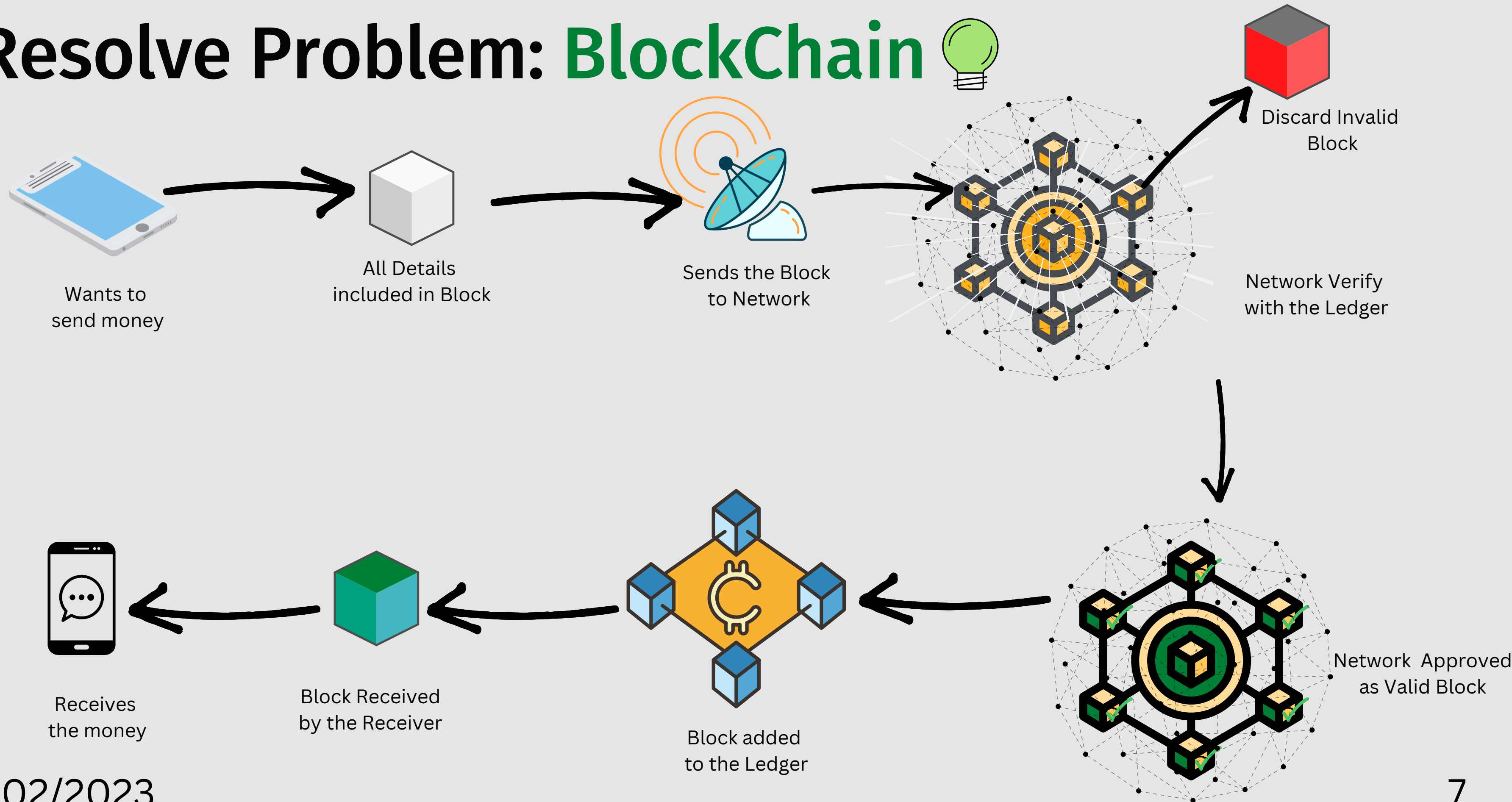
# Security Risk

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- **Social Engineering**
- **Phishing scams**
- **Lost or stolen devices**
- **Unsecured Wi-Fi networks**

# Resolve Problem: Blockchain

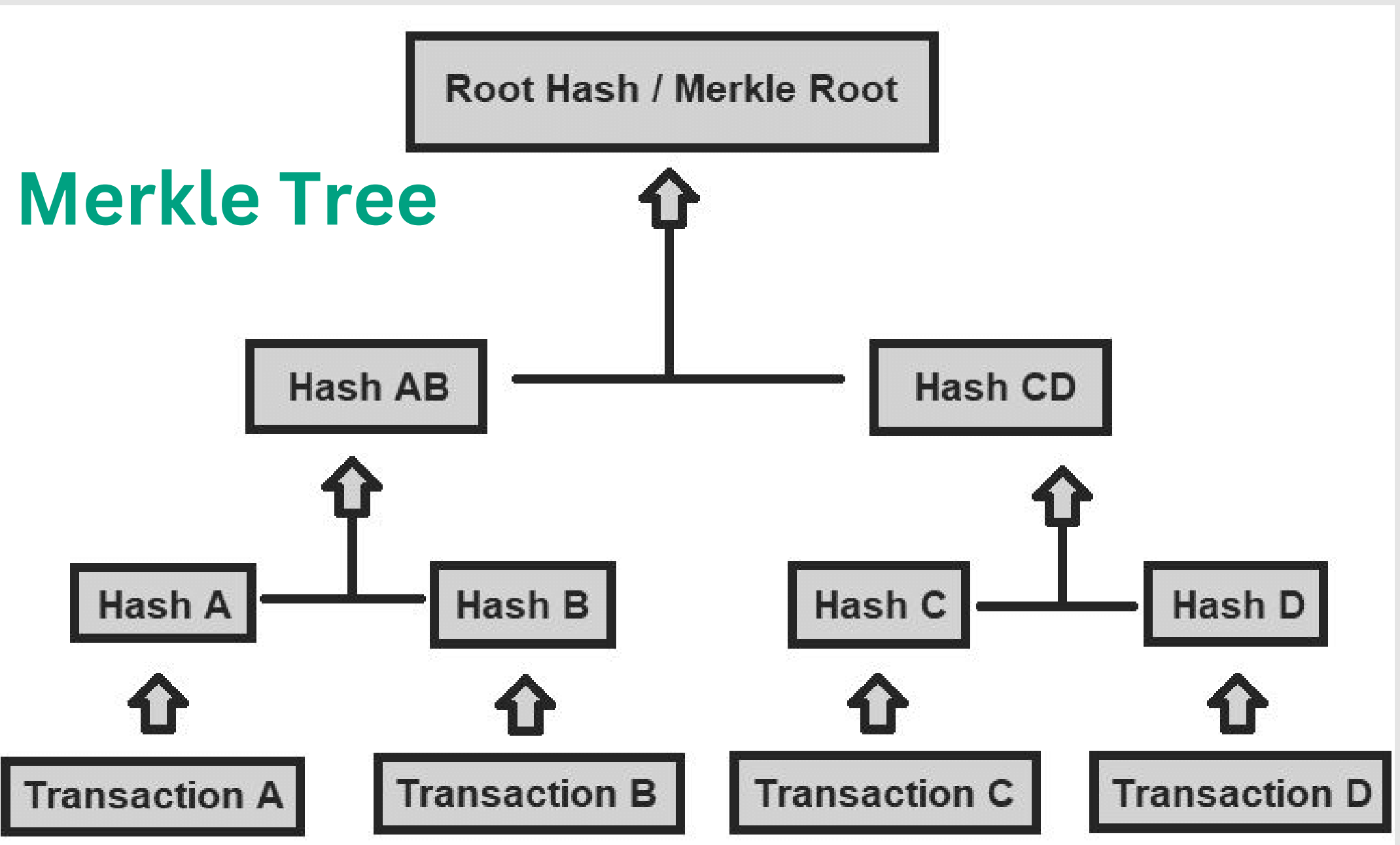


# Resolve Problem: **Blockchain**

- A Merkle tree, also known as a binary hash tree.
- It is used in blockchain technology
- Verify the authenticity and integrity of data stored in the blockchain.

## **Advantages:**

- Efficient Verification
- Increased Security
- Scalability
- Privacy





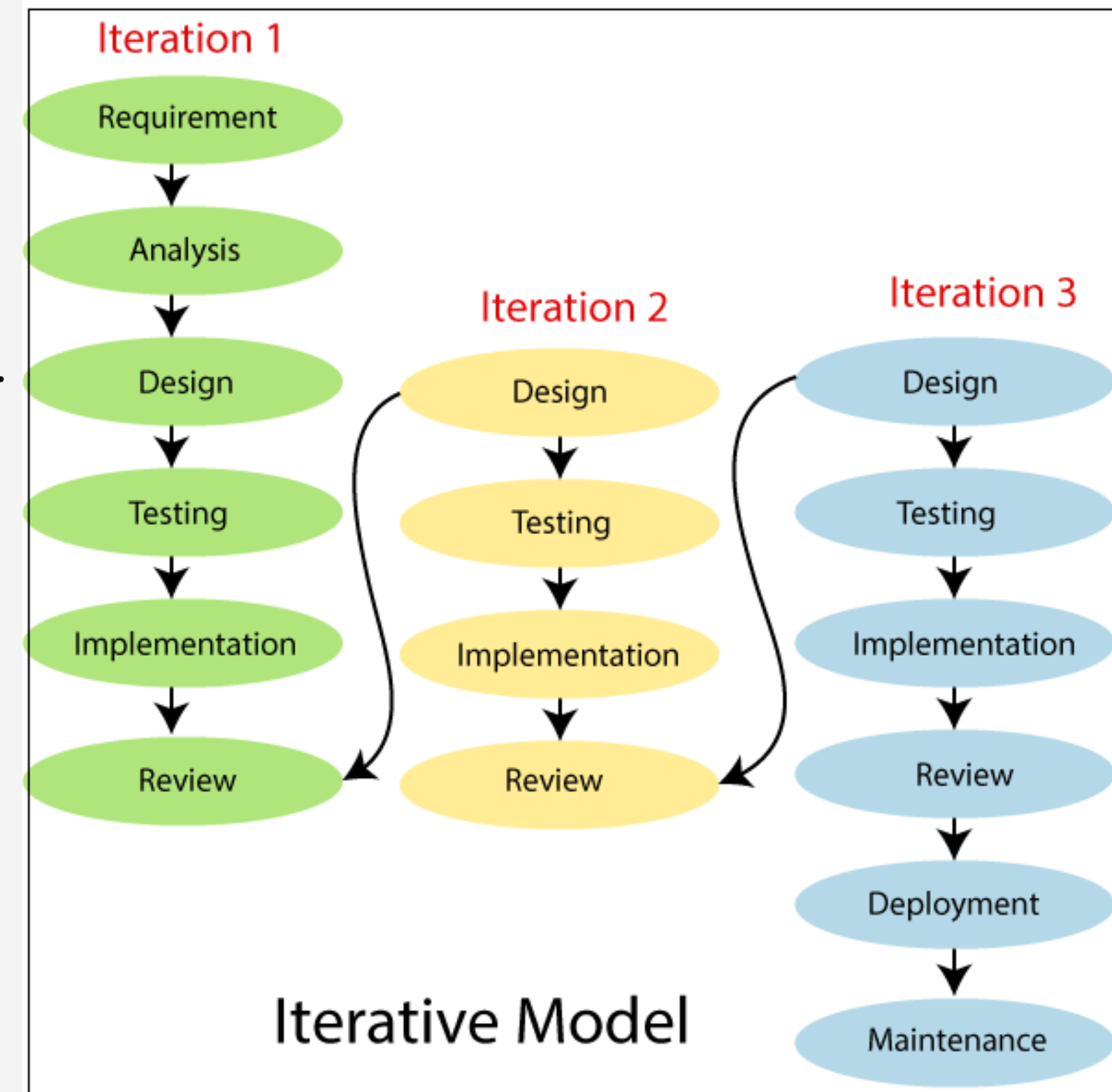
# Software Development model

## Why use Iterative Model?

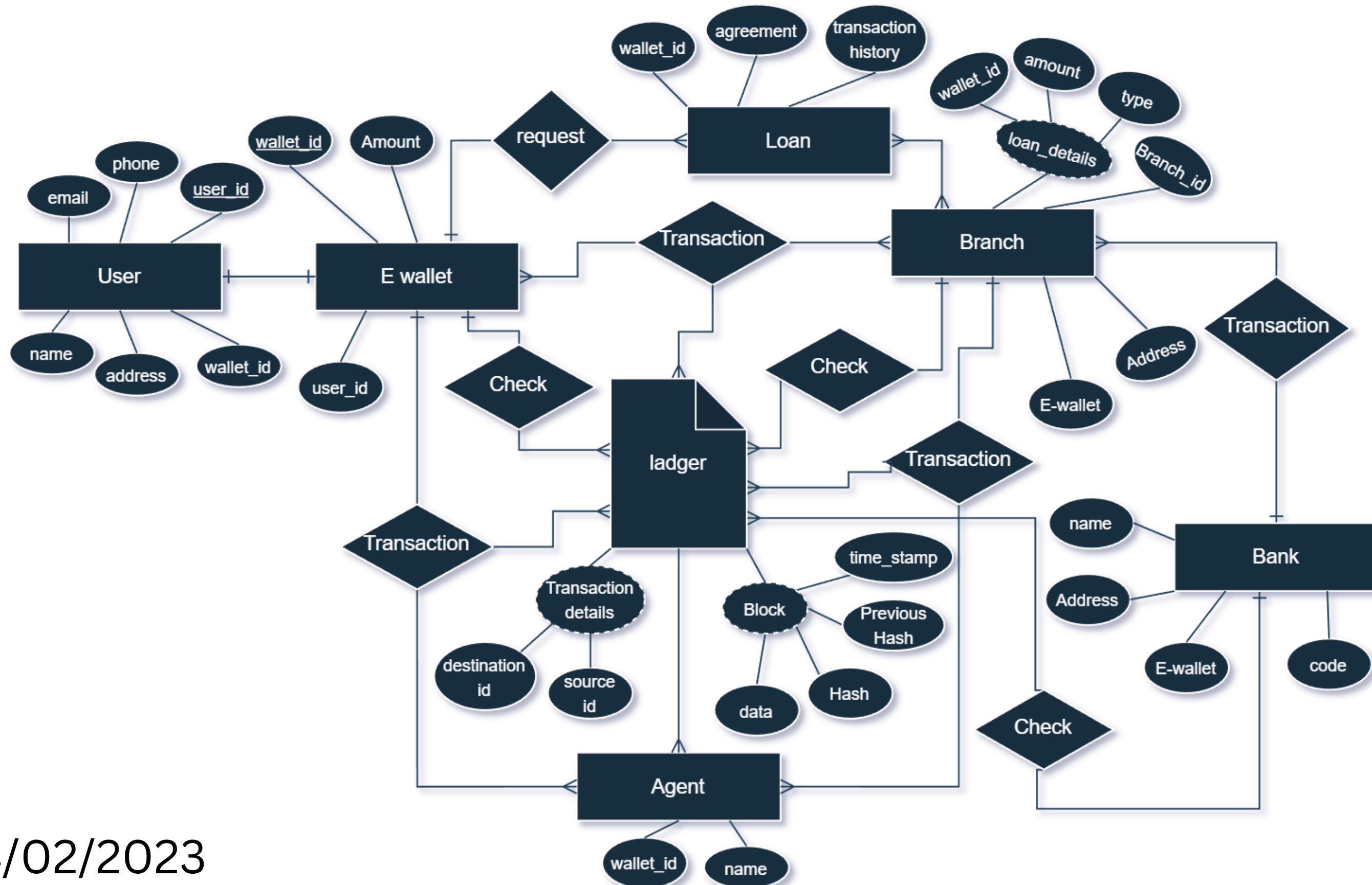
- Requirements are defined clearly and easy to understand.
- Software application is large.
- Requirements of changes in future.

## Advantage of Iterative Model:

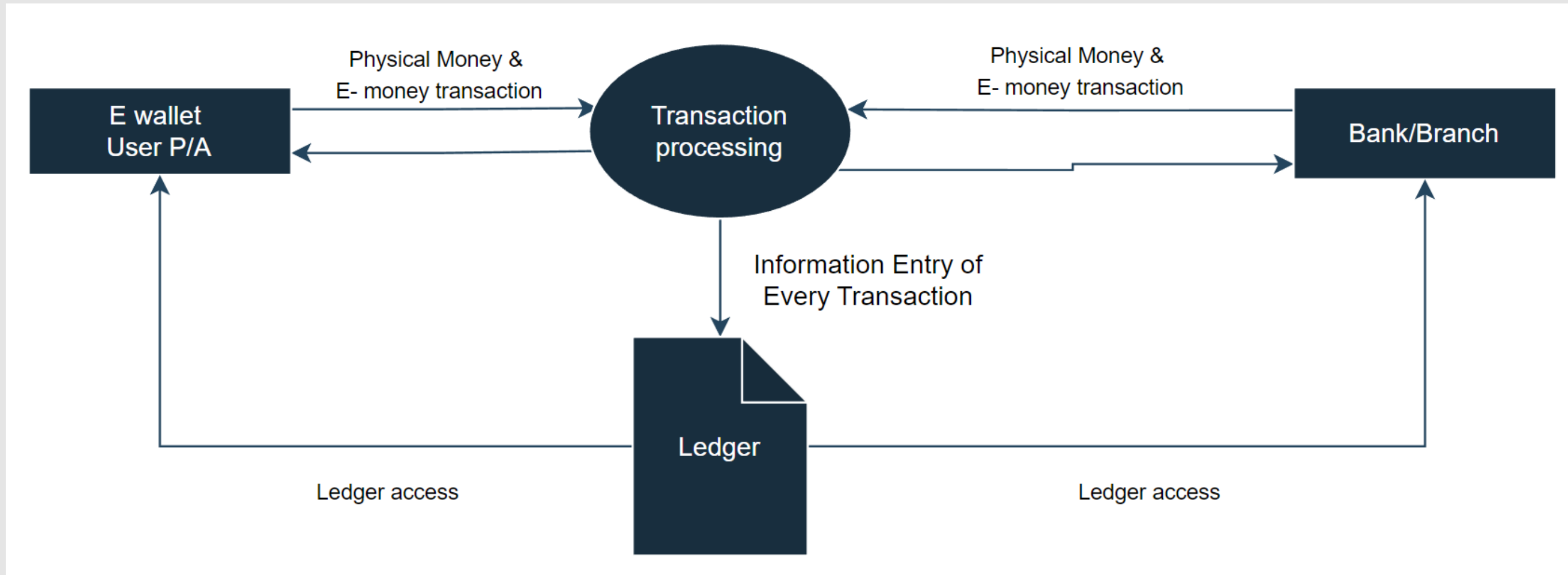
- Testing and debugging during smaller iteration is easy.
- A Parallel development can plan.
- It is easily acceptable to ever-changing needs of the project.
- Risks are identified and resolved during iteration.
- Limited time spent on documentation and extra time on designing.



# E-R Diagram

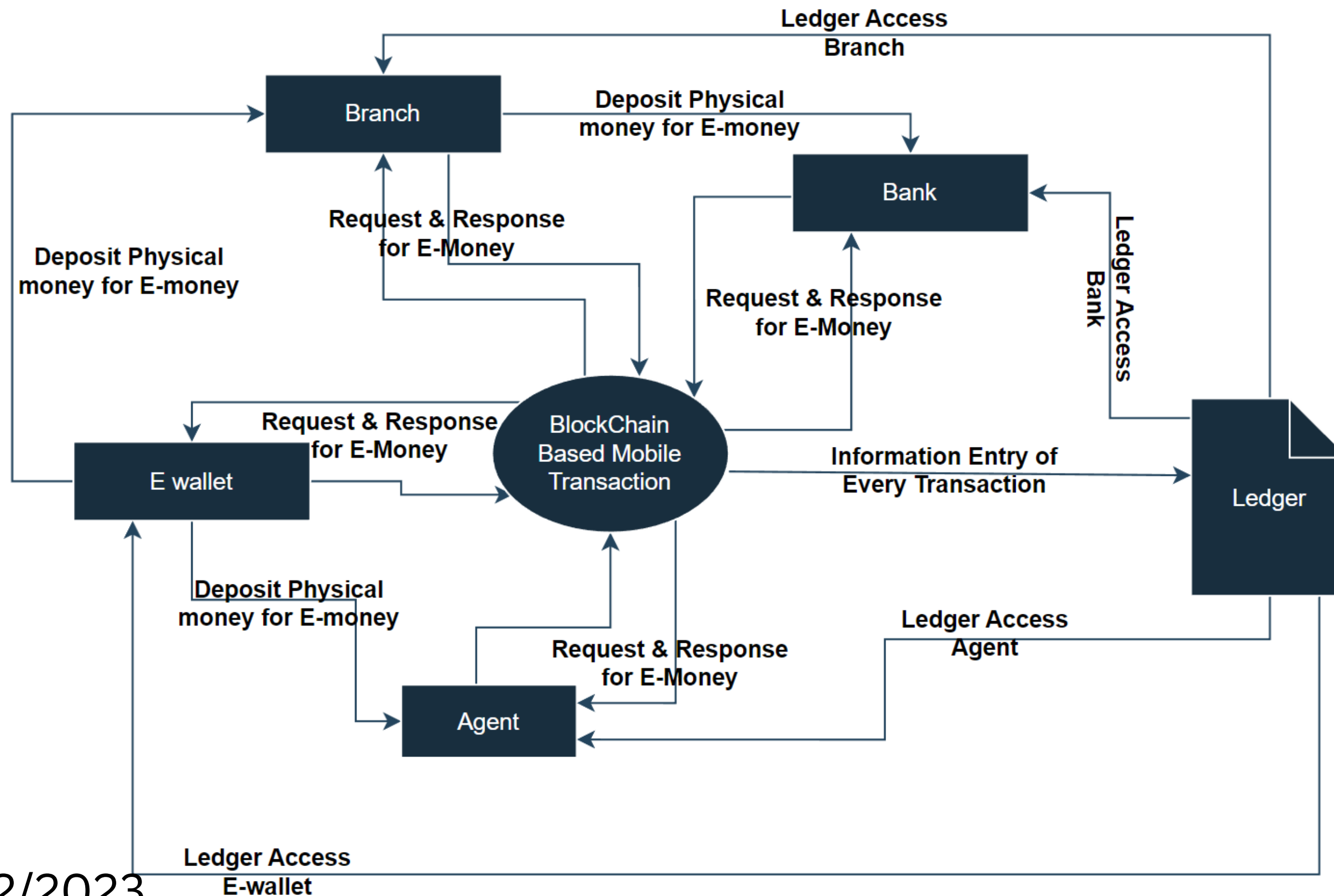


# DFD Level 0





# Context Diagram





# User Interface

## Sign up requirements:

- Active Number
- Gmail
- NID Verification
- Face Scan
- Fingerprint
- voice Scan

**E-MONEY**

**Enter E-Money Number**

**EX: 0x8b06ffc97500**

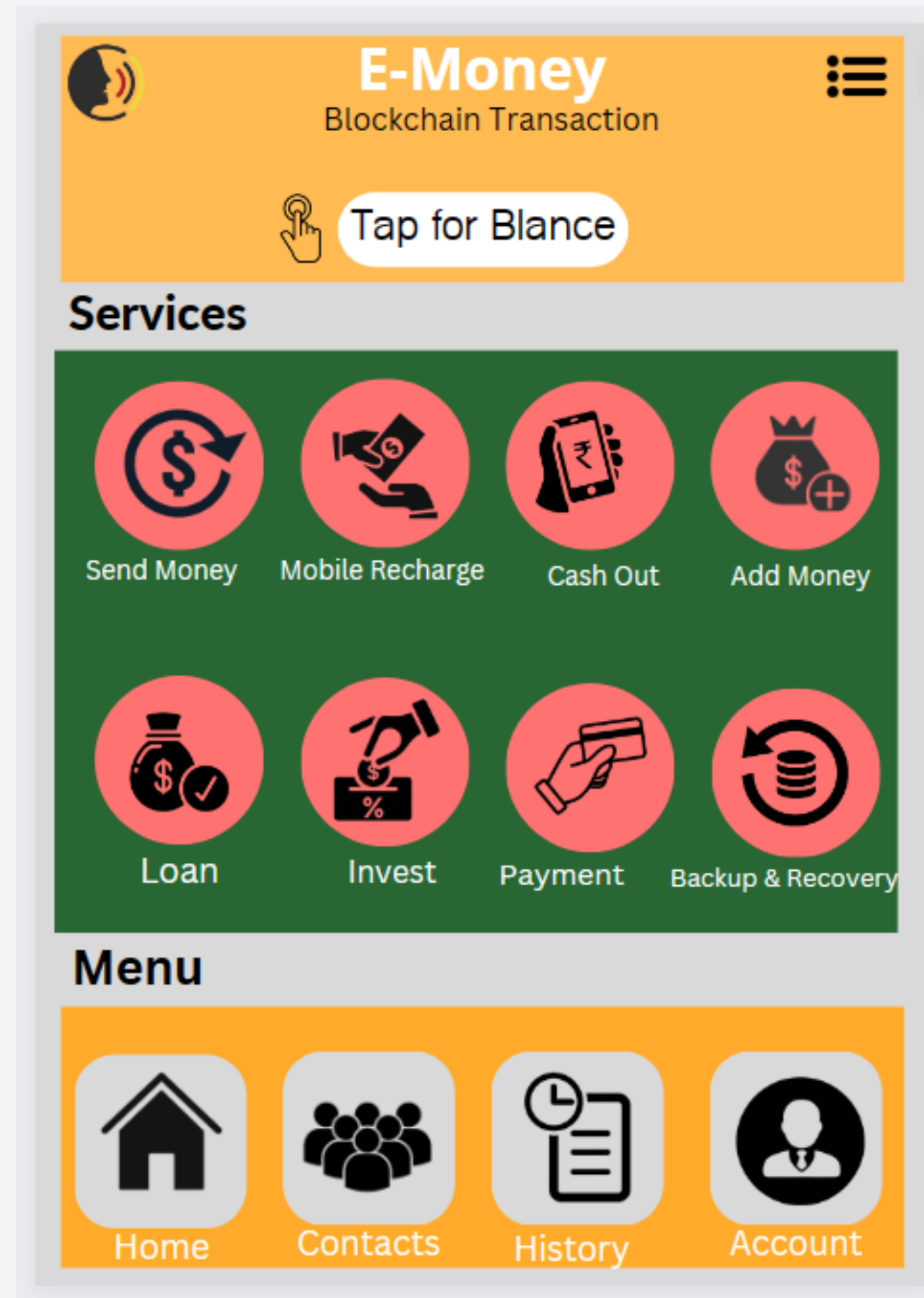
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Face Scan

Fingerprint

**Login**

# User Interface



# SWOT Analysis



## Strengths:

- Secure
- Decentralized

## Weaknesses:

- User Adoption
- Technical Complexity

## Opportunities:

- Improved Financial Inclusion
- Mobile Transactions

## Threats:

- Government Intervention
- Competition

# Conclusion

Blockchain-based mobile transaction systems have the potential to transform the way people transact and exchange value, providing a secure, fast, and affordable alternative to traditional payment systems.

# Reference

- [www.javatpoint.com/software-engineering-iterative-model](http://www.javatpoint.com/software-engineering-iterative-model)
- [www.canva.com](http://www.canva.com)
- [www.draw.io](http://www.draw.io)
- <http://www.ibm.com/topics/what-is-blockchain>



# Do you have any questions?

Feel free to reach out!



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