



SSI

YOUR IDENTITY, YOUR CONTROL SSI CREDENTIAL WALLET PRESENTATION

Presented by Group SSI



JEHOVAH YII ZUI HON

Project Manager /
Mobile Dev



TAI XIAO YING

UI/UX Designer



YEJIA HUI

System Architect /
Blockchain Engineer



ALPHA CHONG

Consultant





SSI

FACTS DATA BREACH

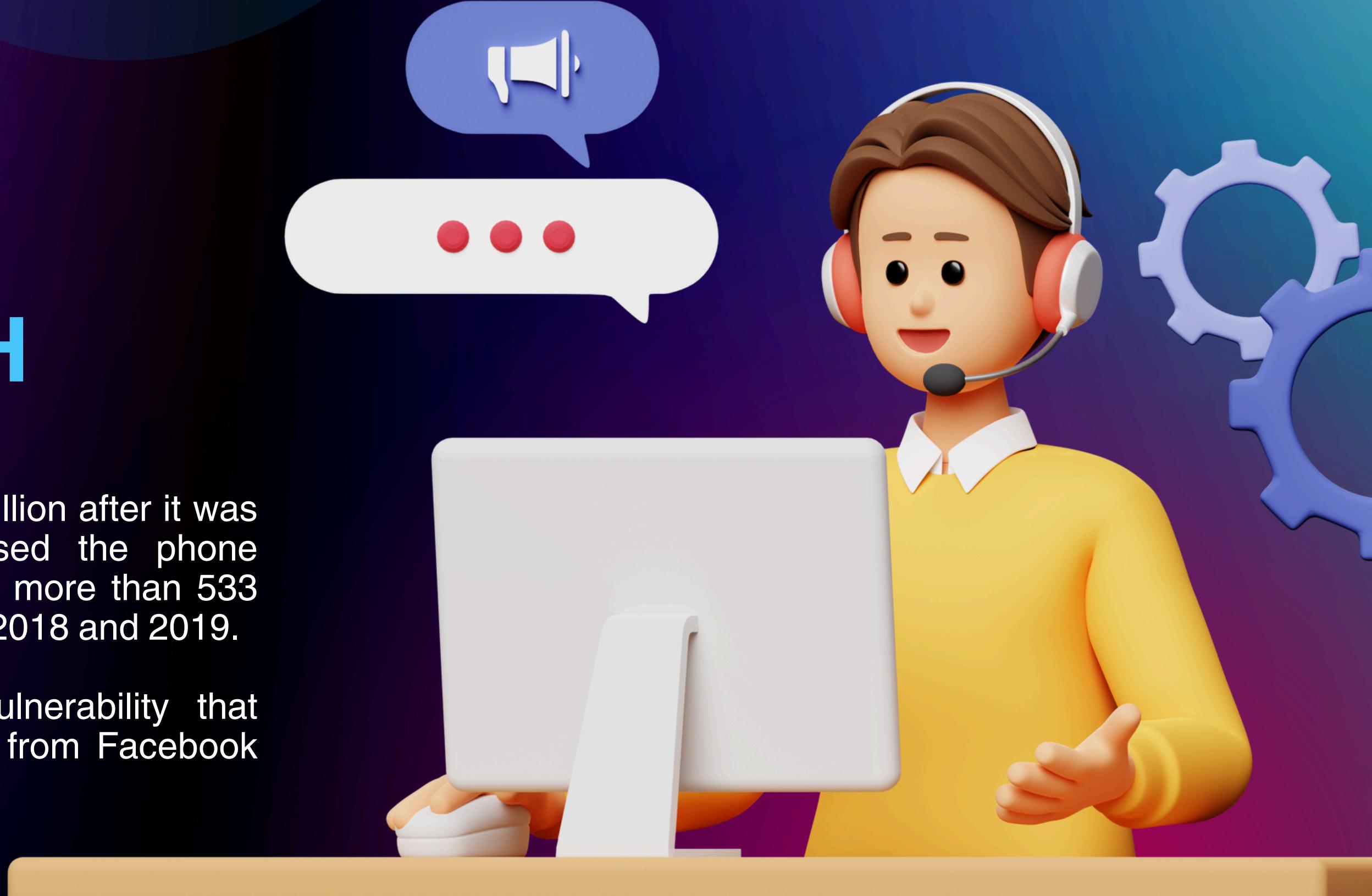
In April 2021, Meta was fined \$276 million after it was revealed that Facebook had exposed the phone numbers, locations, and birthdates of more than 533 million users on the platform between 2018 and 2019.

The breach occurred due to a vulnerability that allowed threat actors to scrape data from Facebook profiles using automated tools.



Continue with Facebook

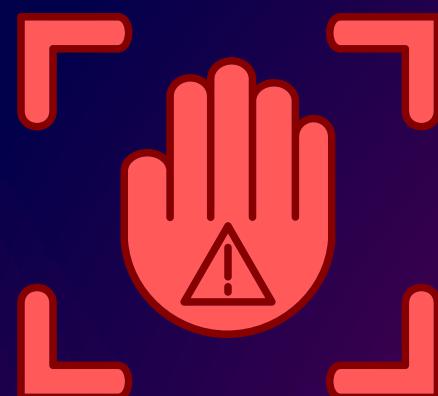
Sources: <https://www.theverge.com/2022/11/28/23481786/meta-fine-facebook-data-leak-ireland-dpc-gdpr>



PROBLEM STATEMENT

The number of data breach incidents in Malaysia doubled from 102 to 206 in 2023, marking a significant 101.96% increase.

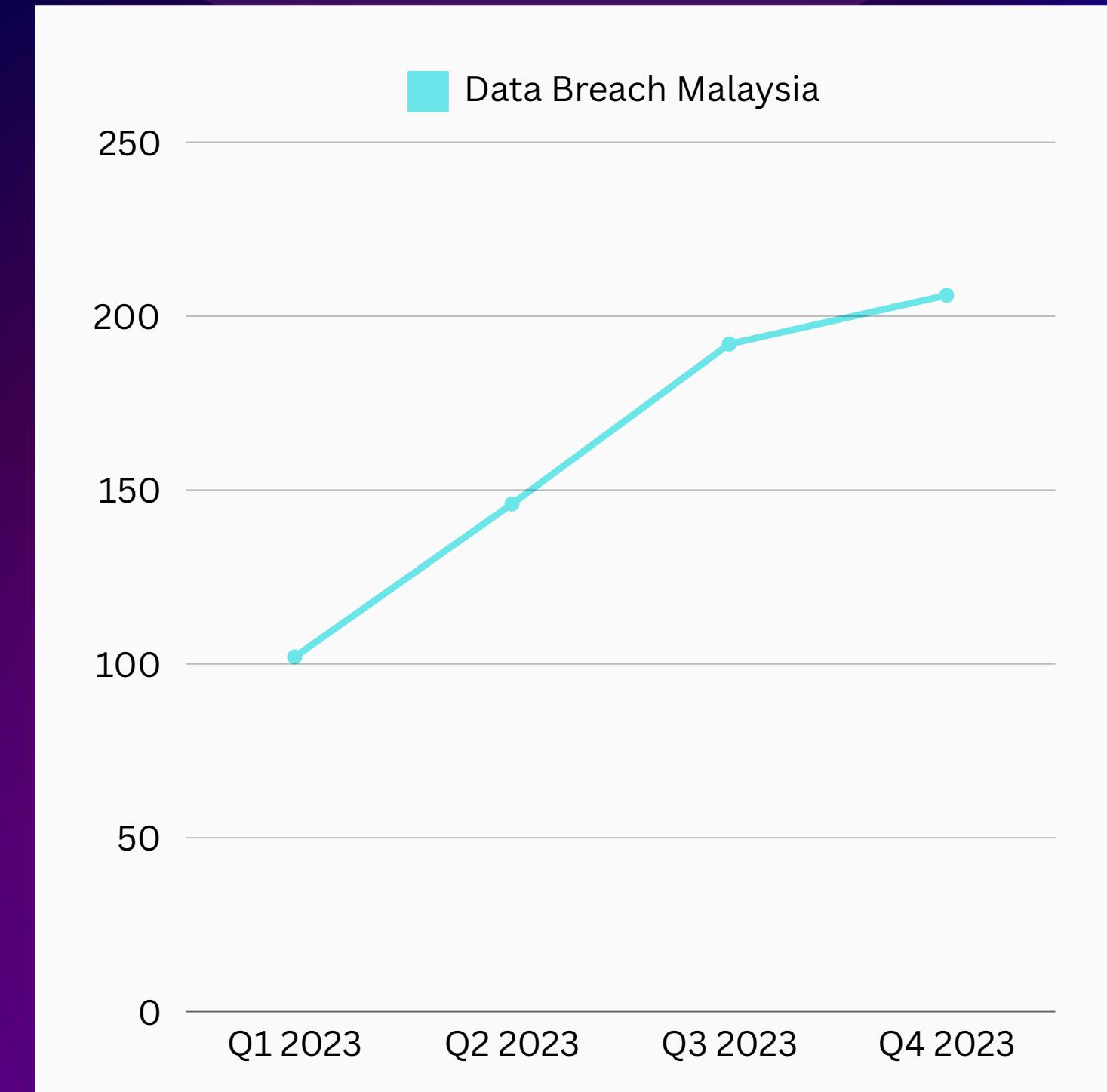
Unauthorised Access



Identity Theft



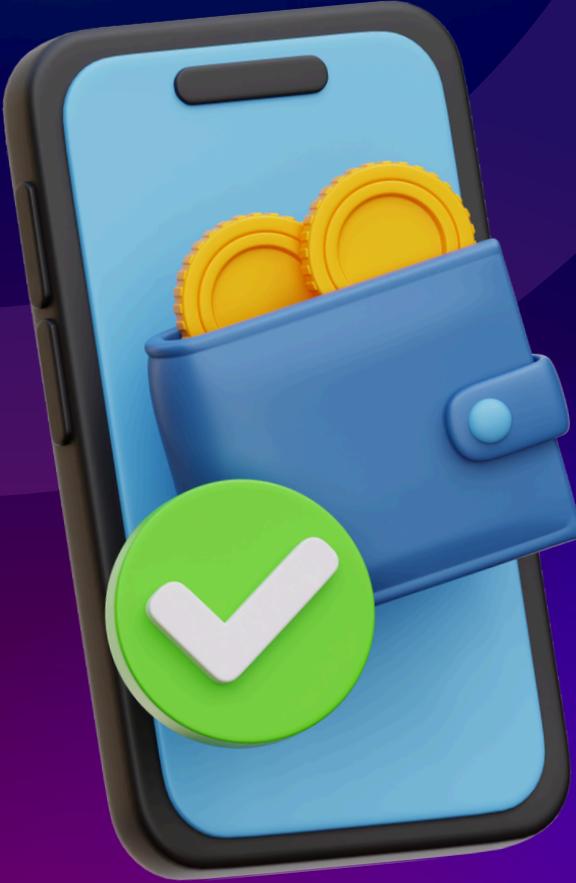
Lack of user control over personal data



Sources: <https://mycert.org.my/>

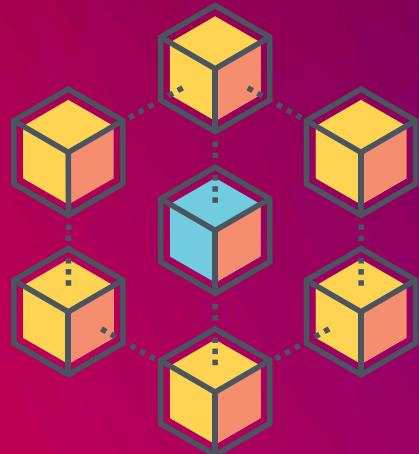
SOLUTION OVERVIEW

Self-Sovereign Identity Wallet



Keep data in blockchain

No reliance on third-party databases, data resides securely with the user



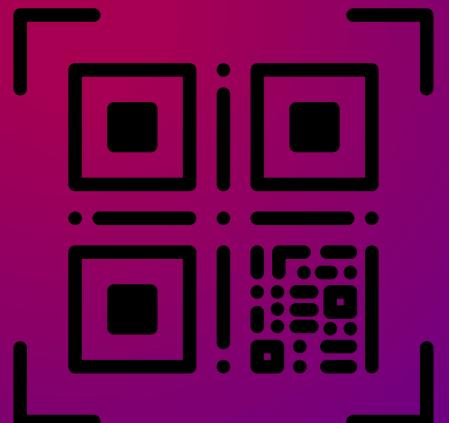
User has full control of data

Users decide what data to share, ensuring only the minimum necessary information is disclosed

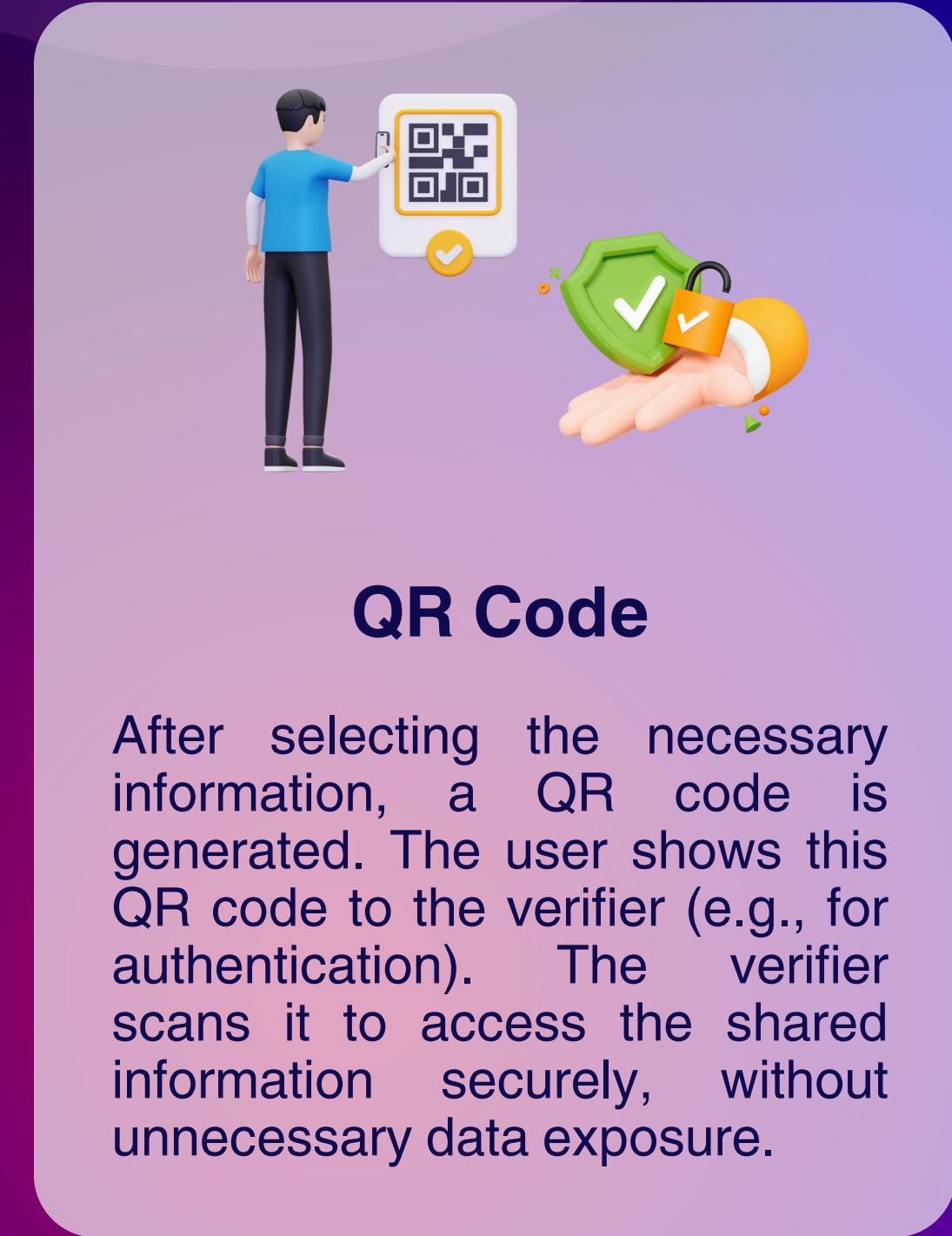
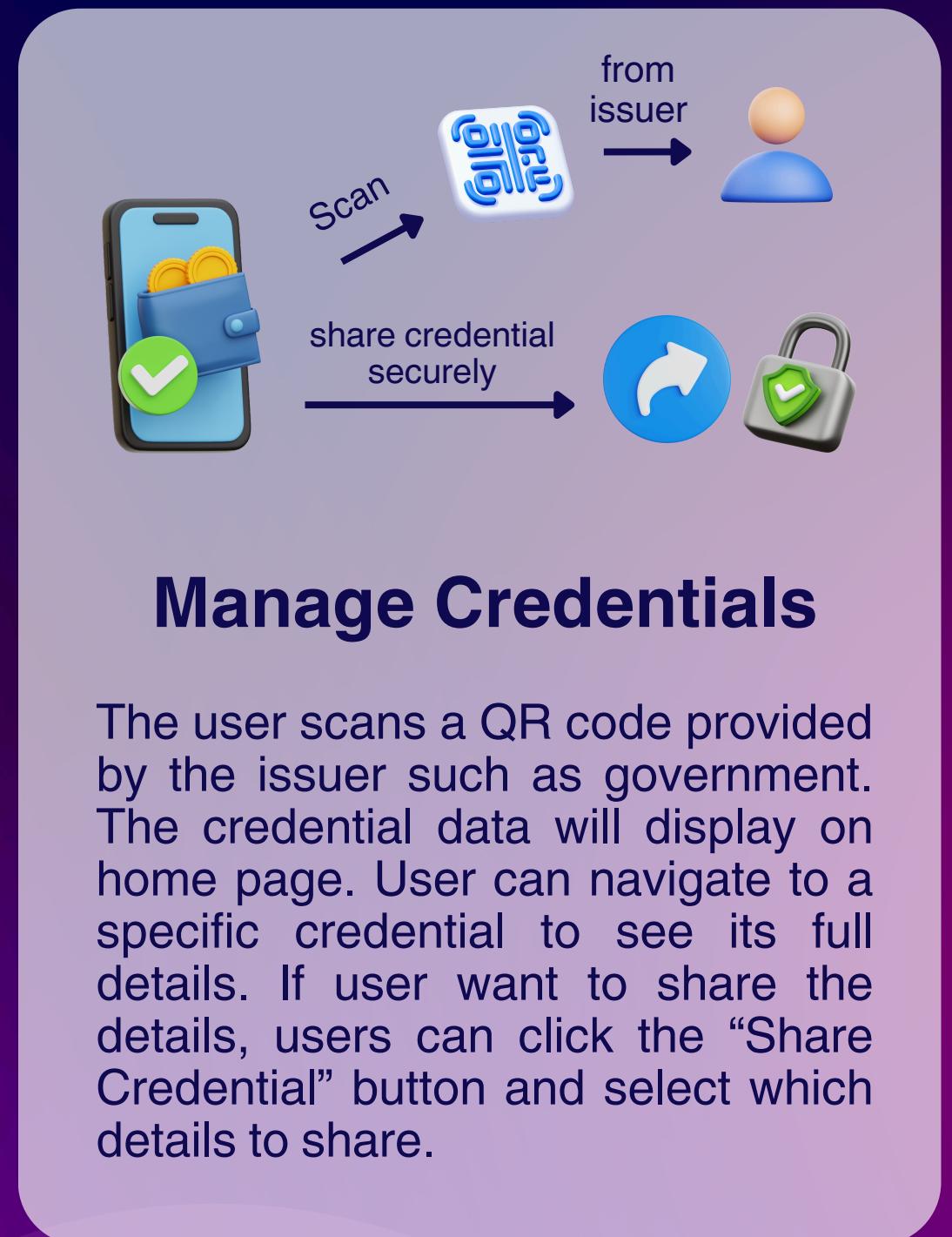
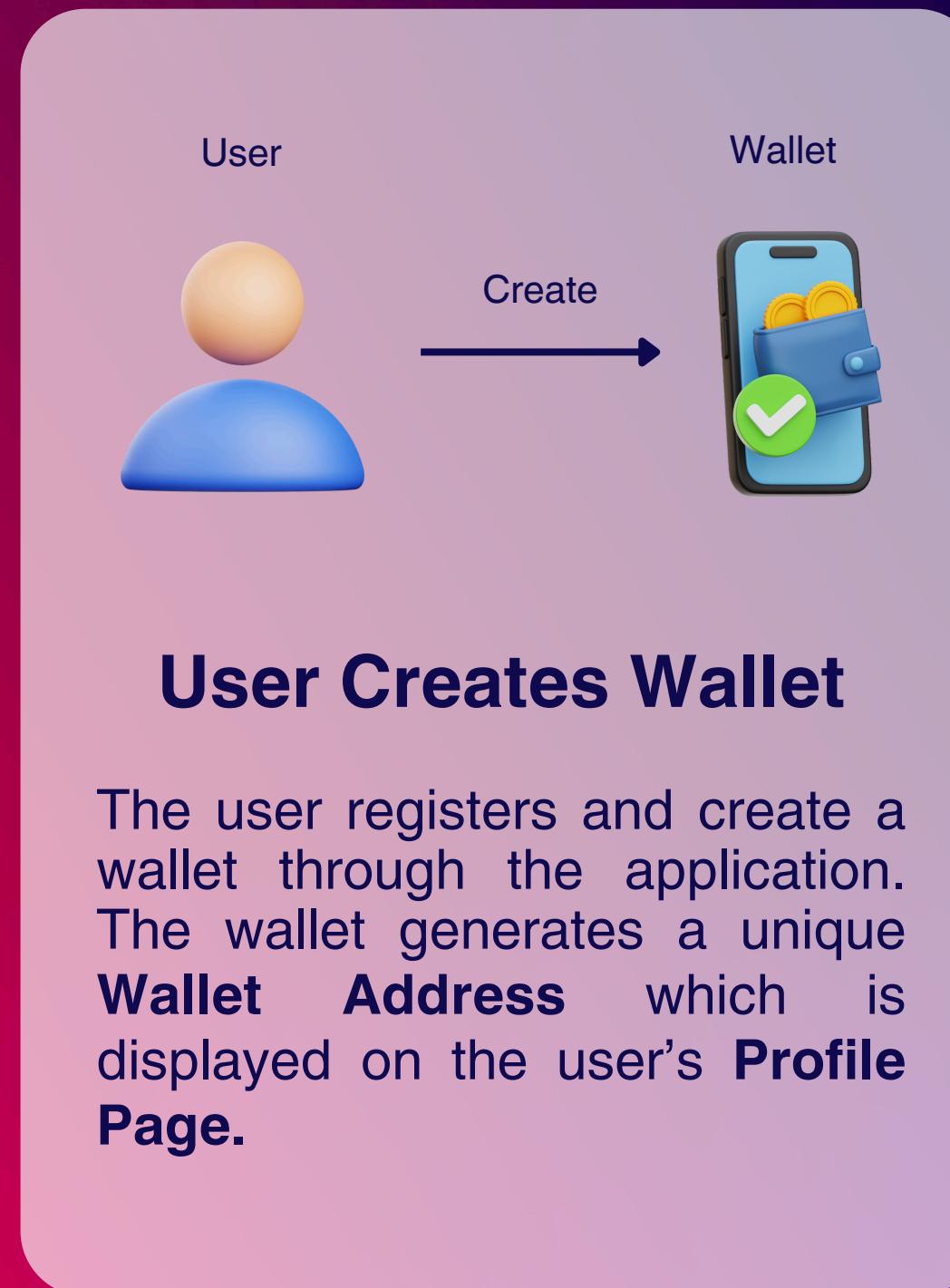


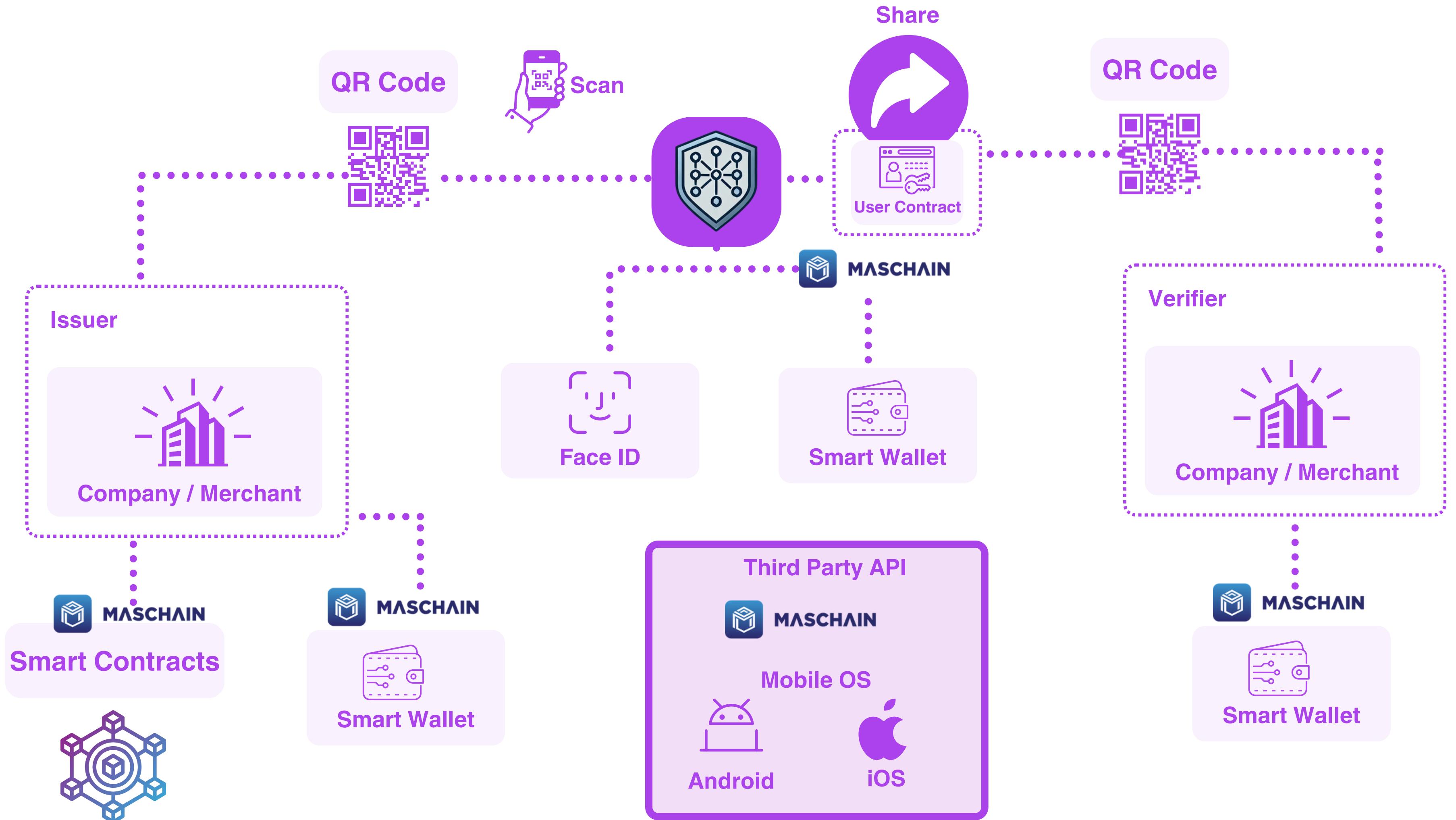
QR Code Functionality

Credentials are easily shared by scanning and displaying QR codes



HOW IT WORKS





PRODUCT DEMO



12:40 AM 4G 0% 104 16

← createwallet

Name

test

Email

t

IC

Enter your IC

Register

First, create a wallet by entering name, email and ic

?123 .com @ English ✓

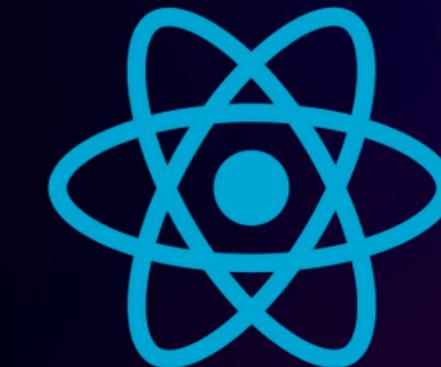
A screenshot of a mobile application titled "createwallet". The screen has a light gray header with the title and a back arrow. Below the header are three input fields: "Name" with the value "test", "Email" with the value "t", and "IC" with the placeholder "Enter your IC". A blue "Register" button is at the bottom. A black keyboard is visible at the bottom of the screen. A yellow callout box contains the text "First, create a wallet by entering name, email and ic". The status bar at the top shows the time as 12:40 AM, signal strength, battery level, and connectivity information.

TECH IMPLEMENTATION



MASCHAIN

Maschain blockchain API enables integration for decentralized credential verification and storage



React Native

React Native powers the mobile application for cross-platform compatibility (iOS and Android).



TailwindCSS provides a modern, responsive, and customizable front-end framework for a seamless user experience.

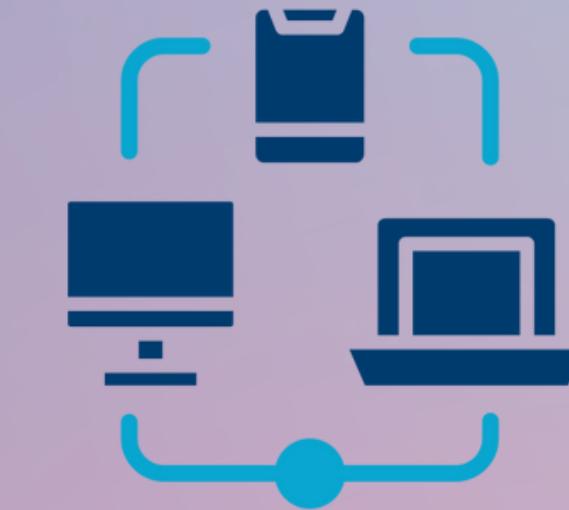
SCALABILITY AND REACH



Optimizing for
Performance



Lightweight UI



Cross-Platform
Deployment

IMPACT



Saves Time & Easy to Use

With the SSI Credential Wallet, the users simply share a QR code to provide only the necessary information



Enhances User Privacy & Security

Users control exactly what information they share, reducing exposure of sensitive personal data.



Reduces Data Breach Risks to Nearly 0%

SSI eliminates centralized data repositories by keeping credentials off chain and under user control.

GITHUB & DEMO VIDEO URL

Github link: <https://github.com/hovahyii/SSI>