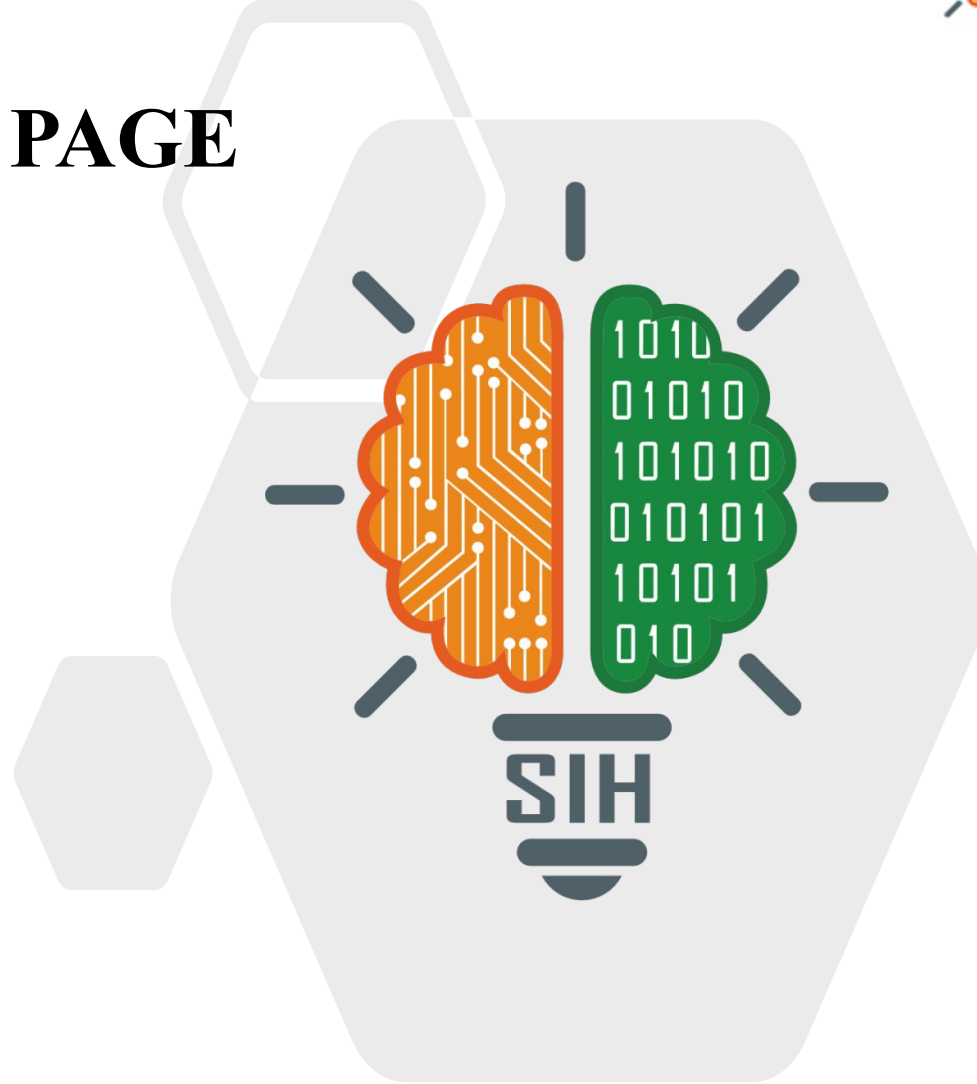


SMART INDIA HACKATHON 2025



TITLE PAGE

- Problem Statement ID –
- Problem Statement Title-
- Theme-
- PS Category- Software/Hardware
- Team ID-
- Team Name (Registered on portal)



IDEA / SOLUTION :

Implementation of a **Time-based itunique One-time Handshake (OTH)** Mechanism specialized for low network zones

- ❖ **USSD triggered** offline authentication mechanism
- ❖ Advanced QR based high speed **multi-factor authentication**
- ❖ Unique UID, phone number and stamp to **auto authenticate/authorize** user
- ❖ Alternative **IMEI based OTH** methodology for button phone uses
- ❖ Capability to work efficiently without internet even in low network zones

Problem Resolution :

- ❖ **Multifactor authentication system** delivers seamless security, excelling even in the most challenging low network zones.
- ❖ Eliminates vulnerabilities of traditional 6-digit OTPs, offering unbreachable security that redefines industry standards.

Unique Value Propositions (UVP) :

- ❖ **Dynamic prompt Stamp** for every Authentication
- ❖ Authentication done in **less than a second**
- ❖ Functions with full efficiency even **without Internet**
- ❖ **Quad Level Custom Encryption** Algorithm
- ❖ Distinct API's enhance **Security standards**

Algorithm Development:

Next.js & Express.js - Core technologies used for developing the OTH Algorithm.

Mobile Application Development:

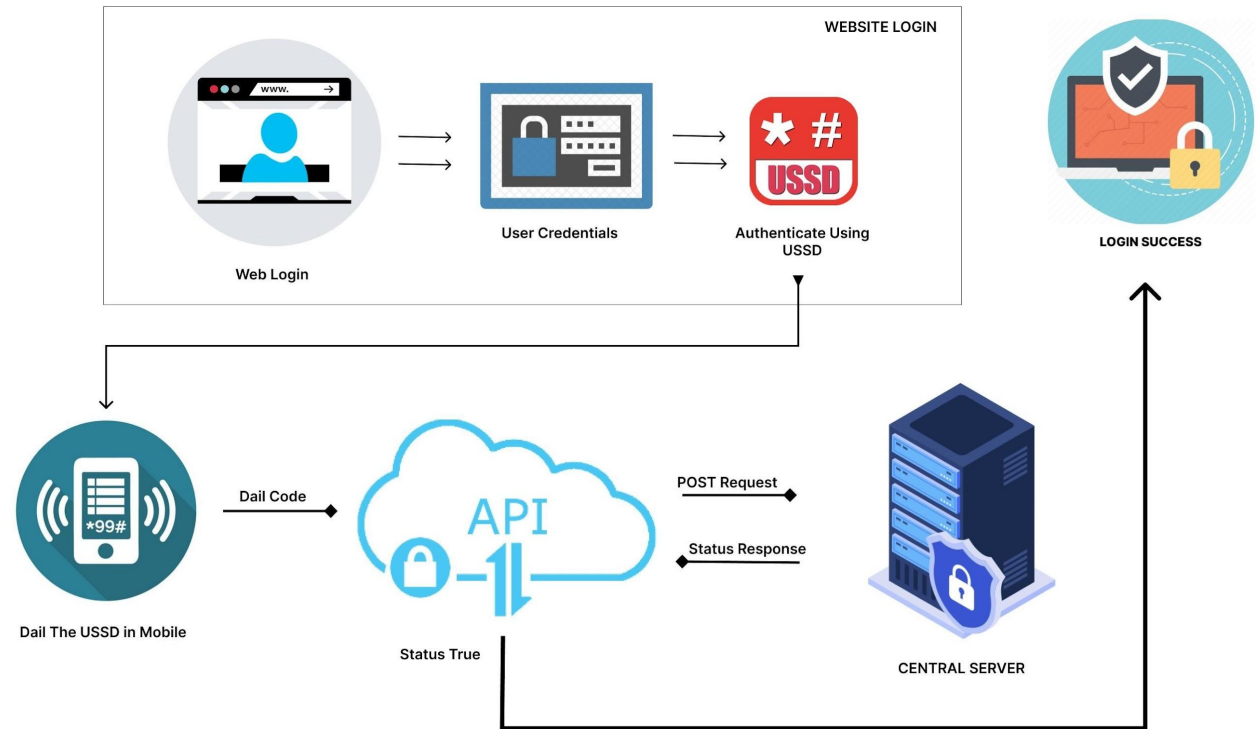
Flutter - Framework used for building the mobile application, ensuring cross-platform compatibility.

Encryption and Security:

Custom encryption algorithm powered by 8 layer octa 512 bit encryption for secure data transmission and authentication.

Cloud Services:

MySQL - Relational database management
PHP - High responsive Rest APIs

PROCESS FLOW ARCHITECTURE

Product Status: 80% product built completed and further build is on progress. Testing and validation process are next to be undergone

FEASIBILITY AND VIABILITY



- **Analysis of the feasibility of the idea**
Technical, Financial, Market, Operational
- **Potential challenges and risks**
Technical, Financial, Market, Operational
- **Strategies for overcoming these challenges**
Methods, principle, Strategies, Algorithms

IMPACT AND BENEFITS



- **Potential impact on the target audience**
Positive- Improvement , Economical, New Opportunities, socialbenefits
negative- Cost, Technology Adoption Issues
- **Benefits of the solution (social, economic, environmental, etc.)**
Social - Improved Access, Empowerment, Reduction
Economic – Productivity, Cost, Market
ENV – Energy, Reduction, Waste

Your
Team
Name

RESEARCH AND REFERENCES



- Details / Links of the reference and research work

Elsevier , Science Direct

IMPORTANT INSTRUCTIONS



Please ensure below pointers are met while submitting the Idea PPT:

1. Kindly keep the maximum slides limit up to six **(6)**. (Including the title slide)
2. Try to avoid paragraphs and post your idea in points /diagrams / Infographics /pictures
3. Keep your explanation precise and easy to understand
4. Idea should be unique and novel.
5. You can only use provided template for making the PPT without changing the idea details pointers (mentioned in previous slides).
6. You need to save the file in PDF and upload the same on portal. No PPT, Word Doc or any other format will be supported.

Note - You can delete this slide (Important Pointers) when you upload the details of your idea on SIH portal.