



J.B.INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS)

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ORGANIZED BY



TEAM DETAILS

- 1 Selected Track - Data security
- 2 Problem Statement Title - privacy preserving identity management system
- 3 Team Name - HELLO WORLD
- 4 Team Lead - P.Nikhila
- 5 Dept. Name - AIML

IDEA TITLE

- A **Privacy-Preserving Identity Management System (PPIMS)** allows users to verify their identity or attributes without exposing personal data. It uses **cryptographic proofs** and **decentralized identifiers** to ensure data privacy, user control, and security. By leveraging **zero-knowledge proofs** and **blockchain**, it eliminates central data storage and prevents identity tracking. The innovation lies in enabling **selective disclosure** — users can prove facts (like age or citizenship) without revealing their full identity.

TECHNICAL APPROACH

- Languages & Tools:

- Frontend: HTML, CSS, JavaScript
- Backend: Node.js, Express.js
- Database: MongoDB / IPFS
- Encryption: Crypto.js, bcrypt
- Blockchain (optional): Ethereum + Web3.js
- Version Control: GitHub

- Methodology:

- Requirement Analysis
- Design
- Implementation frontend
- Testing
- Deployment

FEASIBILITY AND VIABILITY

- Feasibility Analysis:
- The project is technically and operationally feasible using web technologies like HTML, CSS, JavaScript, Node.js, and MongoDB with strong encryption methods.
- Potential Challenges and Risks:
- Ensuring complete data privacy and encryption. Handling blockchain or cryptographic integration complexities. Managing user authentication securely.
- Strategies to Overcome Challenges:
- Use tested cryptographic libraries (Crypto.js, bcrypt). Implement secure API validation.

IMPACT AND BENEFITS

- **Impact on Target Audience:**
- Enhances user trust by giving individuals full control over their digital identities and protecting personal data from misuse.
- **Benefits:**
- **Social:** Promotes digital privacy and security awareness.
- **Economic:** Reduces costs of centralized data management and identity fraud.
- **Environmental:** Supports paperless and digital identity verification.

Team Member's Information

Team Leader Name: P.Nikhila		
Year: 2 nd	Department: AIML	Roll Number: 24671A7349
Team Member 1 Name: R.Hasini		
Year: 2 nd	Department: AIML	Roll Number: 24671A7353
Team Member 2 Name: M.Akshaya		
Year: 2 nd	Department: AIML	Roll Number: 24671A7336

Decentralized Digital Identity System

Privacy Preserving • Secure • User-Controlled Identity

Register Identity

Login

THANKYOU