



Basic Details of the Team and Problem Statement

Ministry/Organization Name: Ministry Of Law and Justice

PS Code: SIH1284

Problem Statement Title: Developing a Blockchain – Based eVault for Legal Records

Team Name: SecureHash Squad

Team Leader Name: Keshavraj Ganesh Pore

Institute Code (AISHE): 6208

Institute Name: Dr. D.Y. Patil Institute of Engineering Management & Research, Akurdi Pune

Theme Name: Blockchain & Cybersecurity

Idea/Approach Details

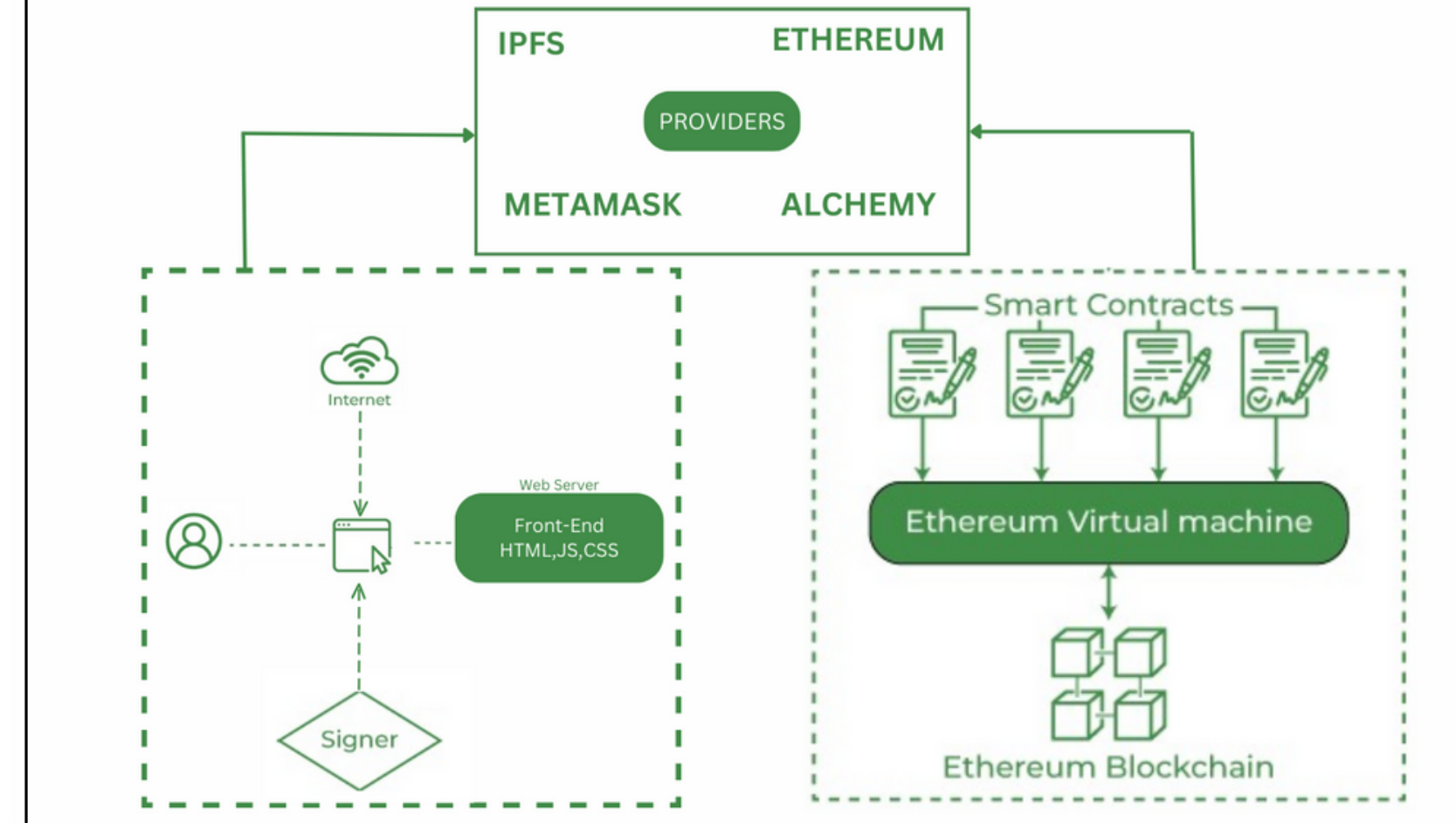
Idea/Solution :

- **e-Sanchayan: Blockchain-based electronic document vault.**
- Designed to offer individuals and organizations :
 - **Secure, transparent, and immutable system.**
 - **Decentralized** storage, **smart contracts**, blockchain **timestamps**.
 - Access control, **Interoperability** and User-Friendly Interface.
 - Strong encryption, two-factor authentication, **backup and recovery**.

Prototype:

- 70% of our solution is complete and further build is on progress.
- Testing and validation processes are next to be undergone.

Project Architecture :



Technology Stack :



Idea/Approach Details

Use Cases :

- **User-friendly**- User can use **Drag and Drop** to upload documents.
- **Data management**- User can **organize** and **manage** documents by creating folders, add tags, and categorize documents.
- **Sharing**- User can collaborate with others by **sharing documents** securely.
- **Acess Control**- User can **specify**- who can view, edit, or share each document.
- **Tracking**- User can view the **audit trail** and **history** of documents - to track changes.
- **Alerts**- User will get **notifications** and reminders for events, such as contract renewals or deadlines.
- **Account Management**- User can manage their account settings, **passwords** and **profile updates**.

Dependencies / Show stopper :

- **User-behaviour**- User needs to understand safeguarding their private keys and using strong passwords.
- **Limited Adoption**- The adoption of blockchain is not widespread. limited support and lack of awareness can hinder the process.
- **Environment Concerns**- Blockchains are criticised for their energy consumption and environmental impact.
- **Security Audits and Updates**- Regular security audits and timely updates are vital for addressing system issues and ensuring security.

Team Member Details

Team Leader Name: Keshavraj Ganesh Pore

Branch: BE **Stream:** AI & DS **Year:** II

Team Member 1 Name: Aakanksha Ravindra Patel

Branch: BE **Stream:** AI & DS **Year:** II

Team Member 2 Name: Resham Sanjay Shinalkar

Branch: BE **Stream:** AI & DS **Year:** II

Team Member 3 Name: Sabhya Rajesh Lokhande

Branch: BE **Stream:** AI & DS **Year:** II

Team Member 4 Name: Priyansh Tanuj Arora

Branch: BE **Stream:** AI & DS **Year:** II

Team Member 5 Name: Wachas Pati

Branch: BE **Stream:** AI & DS **Year:** II

Team Mentor 1 Name: Sabha Darwadkar

Category: Industry **Expertise:** ML **Domain Experience (in years):** 5 years teaching 3 years Industry

Team Mentor 2 Name: Reena Sahane

Category: Academic **Expertise:** ML and Data Science **Domain Experience (in years):** 8+ years