

# Pehchaan

Privacy-Centric Digital Identity Platform

Your Identity. Your Control

Healthcare  
Agriculture  
Smart Cities

**Problem Statement #02 : Privacy-Centric Digital Identity and Trust Management Platform**

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# Pehchaan - Digital Identity & Trust Management

Today's digital ecosystem relies heavily on identity systems for accessing essential services such as:

- Healthcare portals
- Agricultural subsidy platforms
- Smart city utilities and citizen services

## Need of the Hour

Selective data sharing

Strong authentication

Full user consent and visibility



# Ideation & Approach

## Core Idea

- Completely privacy-centric, designed for government & public services, controlled fully by the citizen

## What is Pehchaan ?

A secure digital identity vault that stores:

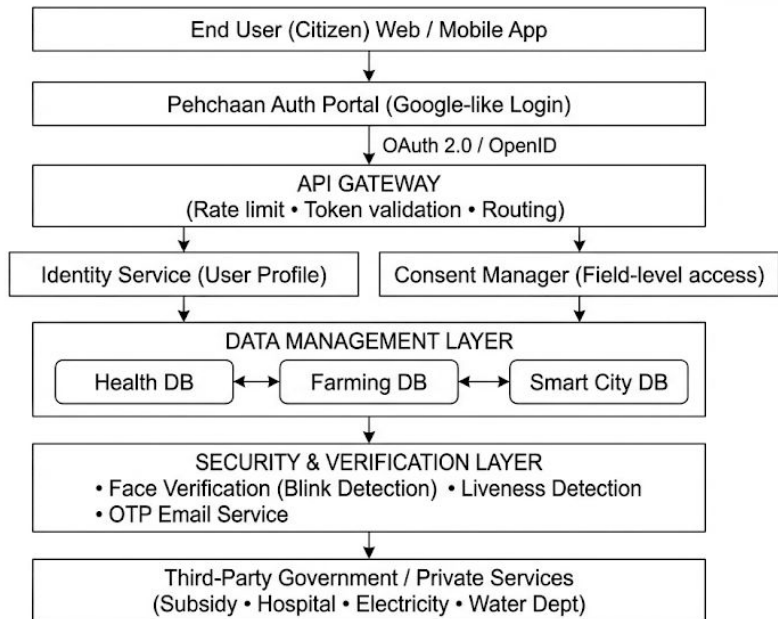
- Health records
- Farming & land data
- Smart city bills and services

## What we made ?

- JWT Token based access
- Revoke access of tokens
- Face authentication for various platforms with motion check
- Clean & understandable UI



# Workflow



# Code Snippet - Face Capture

```
1  const capturePhoto = () => {
2    if (photos.length >= 3) return;
3
4
5    const canvas = canvasRef.current;
6    const video = videoRef.current;
7
8
9    canvas.width = video.videoWidth;
10   canvas.height = video.videoHeight;
11
12
13   canvas.getContext("2d").drawImage(video, 0, 0);
14   const img = canvas.toDataURL("image/jpeg");
15
16
17   setPhotos([...photos, img]);
18 }
```

# Technology Stack

## Frontend



## Backend



ex



## Database

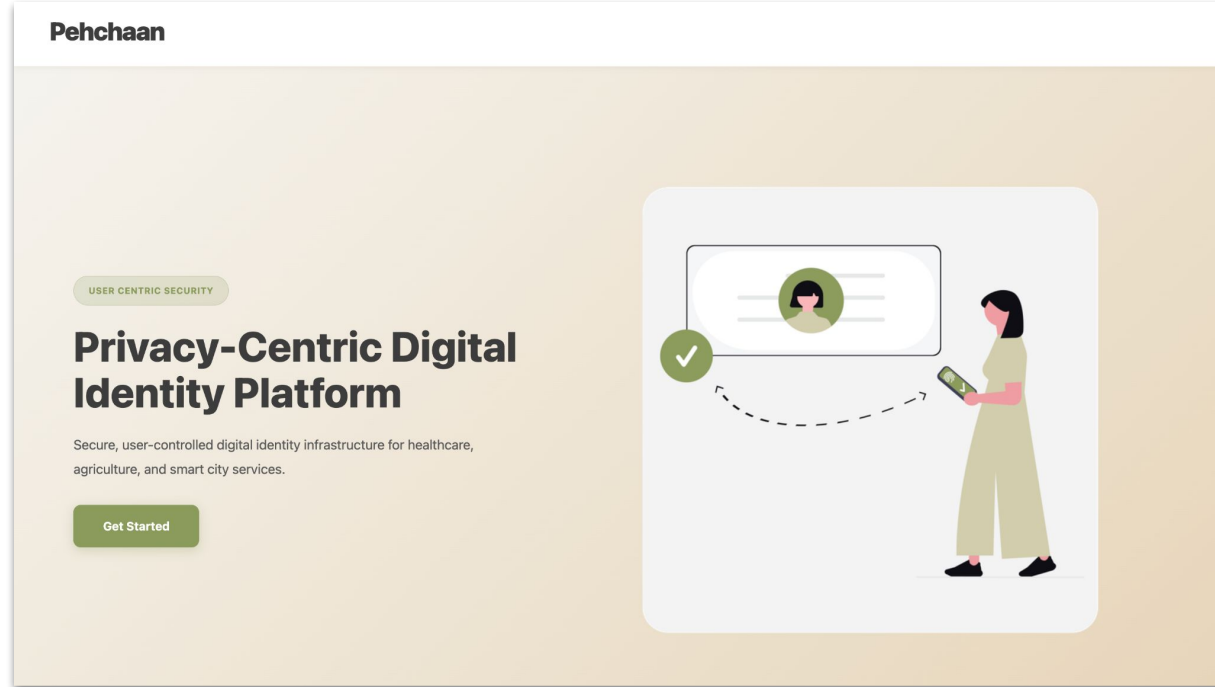


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## Security Highlights

- Hashed credentials
- Encrypted face embeddings
- ONNX Model

# Layouts | Landing Page



# Layouts | Register



**Pehchaan**

आपकी पहचान   आपका नियंत्रण

### Create Account

Register your Pehchaan identity

Full Name

Email

Select Gender

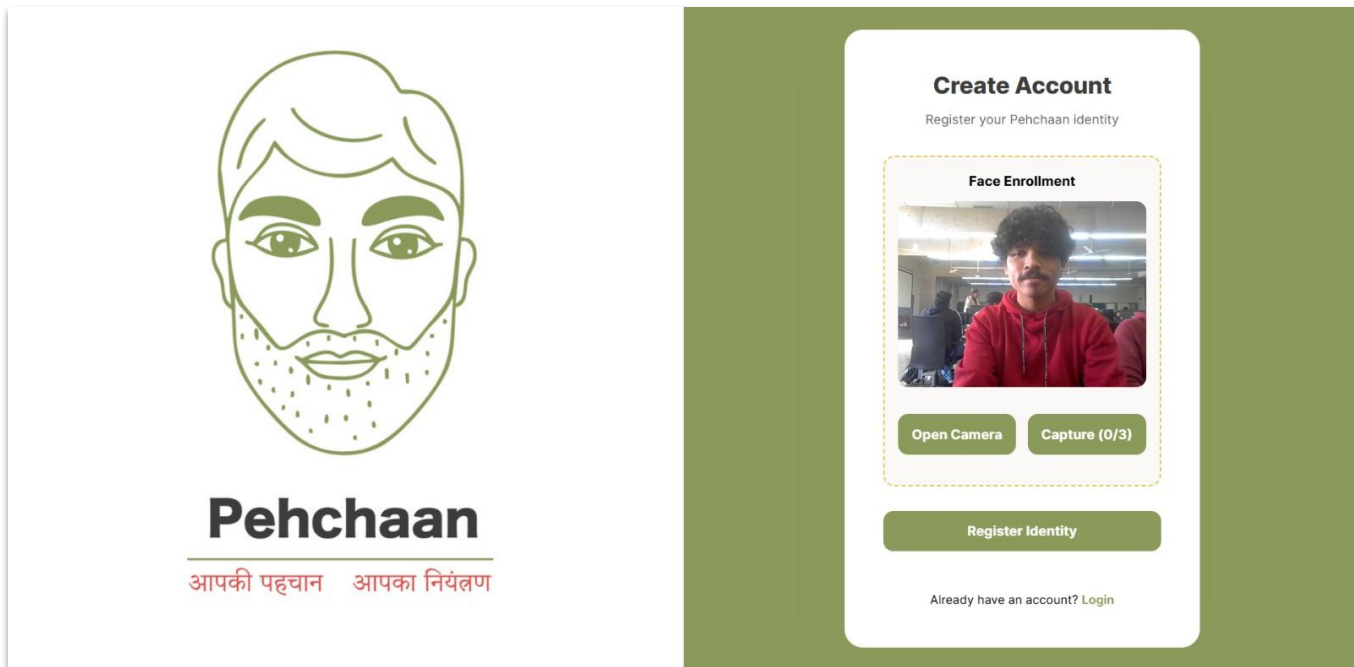
Password

Confirm Password

Continue

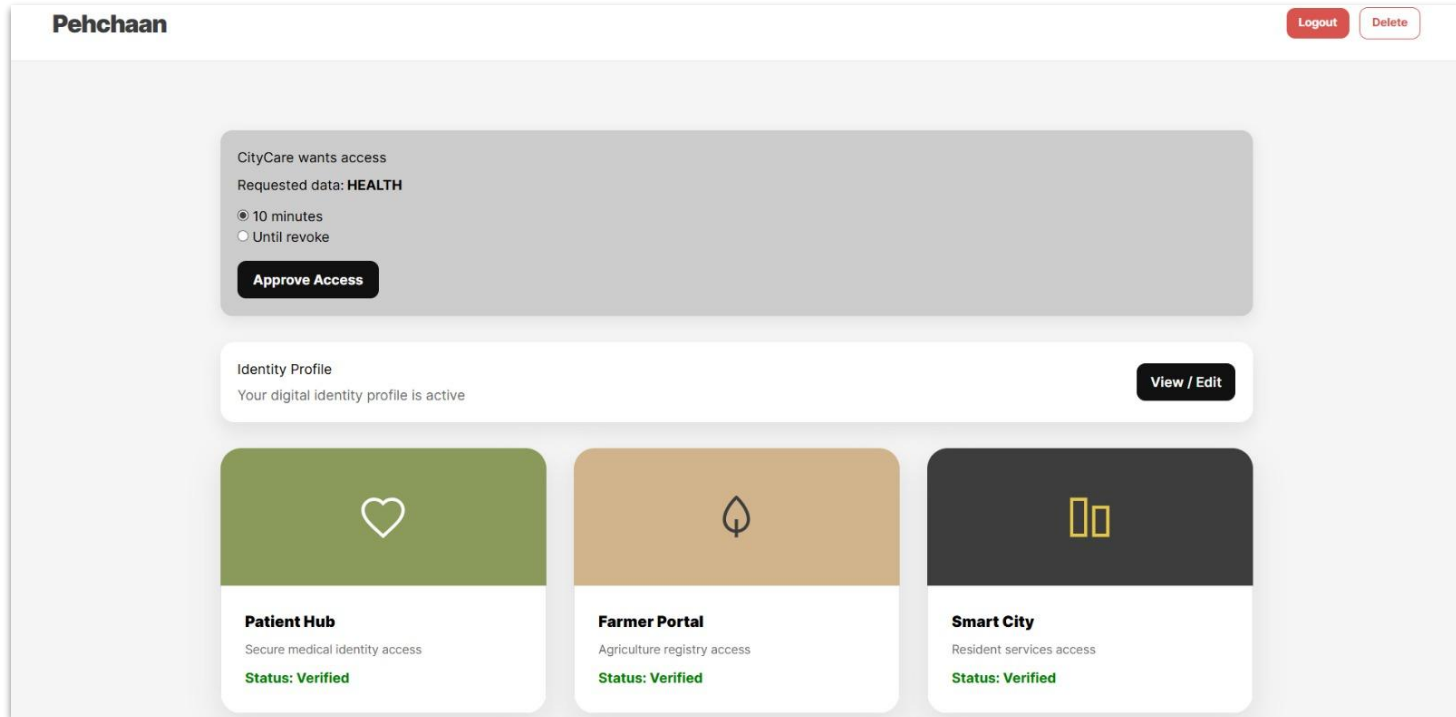
Already have an account? [Login](#)

# Layouts | Face Capture During Registration





# Layouts | Dashboard



# Layouts | Request from foreign website

## External Portal

Sign in with Pehchaan

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Or authorize specific service:

Sign in with Health Portal

Sign in with Farmer Portal

Sign in with Smart City Portal

# Layouts | Verifying the face for credentials

## CityCare Hospital Verification

Verify identity to link official health record.

START FACE VERIFICATION

## Authorize HEALTH Access

This application wants permission to access your verified identity information from Pehchaan.



Verify Face & Sign In

## Future Scope - Project

- Blockchain-based consent ledger
- Decentralized identity (DID)
- Mobile app integration

Thank  
You

## What is progress from last submission ?

- Enhanced user interface (frontend improvements)
- Implementation of external website authentication
- Fully operational website

