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TechSprint

Leveraging the power of AI

Team Details

a. Team name: SeaKingAuraLoss
b. Team leader name: Kedar Vartak
c. Problem Statement: Open Innovation

PROBLEM STATEMENT

Traditional service marketplaces suffer from **low trust**, as clients often lack reliable ways to verify whether assigned work has been completed correctly. Our solution acts as a **trusted intermediary** between **large contractors and worker organizations**, enabling transparent task tracking, verifiable execution, and clear accountability. By establishing a single, trustworthy system of record, we reduce disputes, prevent misuse, and ensure confidence for all parties involved.

OPPORTUNITIES - CAVEATS AND COMPARISONS

Manual verification doesn't scale in India's $15B+ home services market, where lack of verifiable work quality drives trust issues and causes 67% of customers to hesitate before hiring.

Feature	TaskRabbit / Urban Company	Our Platform	Why It Matters
Work Verification	Manual review, relies on customer ratings	AI-powered before/after image comparison	Objective verification reduces disputes and removes rating bias
Transparency	Opaque decisions, workers have no recourse	Blockchain audit trail – immutable, tamper-proof	Builds trust for both clients and workers
Location Verification	Basic GPS check	Geofenced arrival confirmation	Prevents false check in and spoofing
Evidence Integrity	No proof of original vs tampered images	SHA-256 hash stored on blockchain	Guarantees evidence authenticity and non-repudiation

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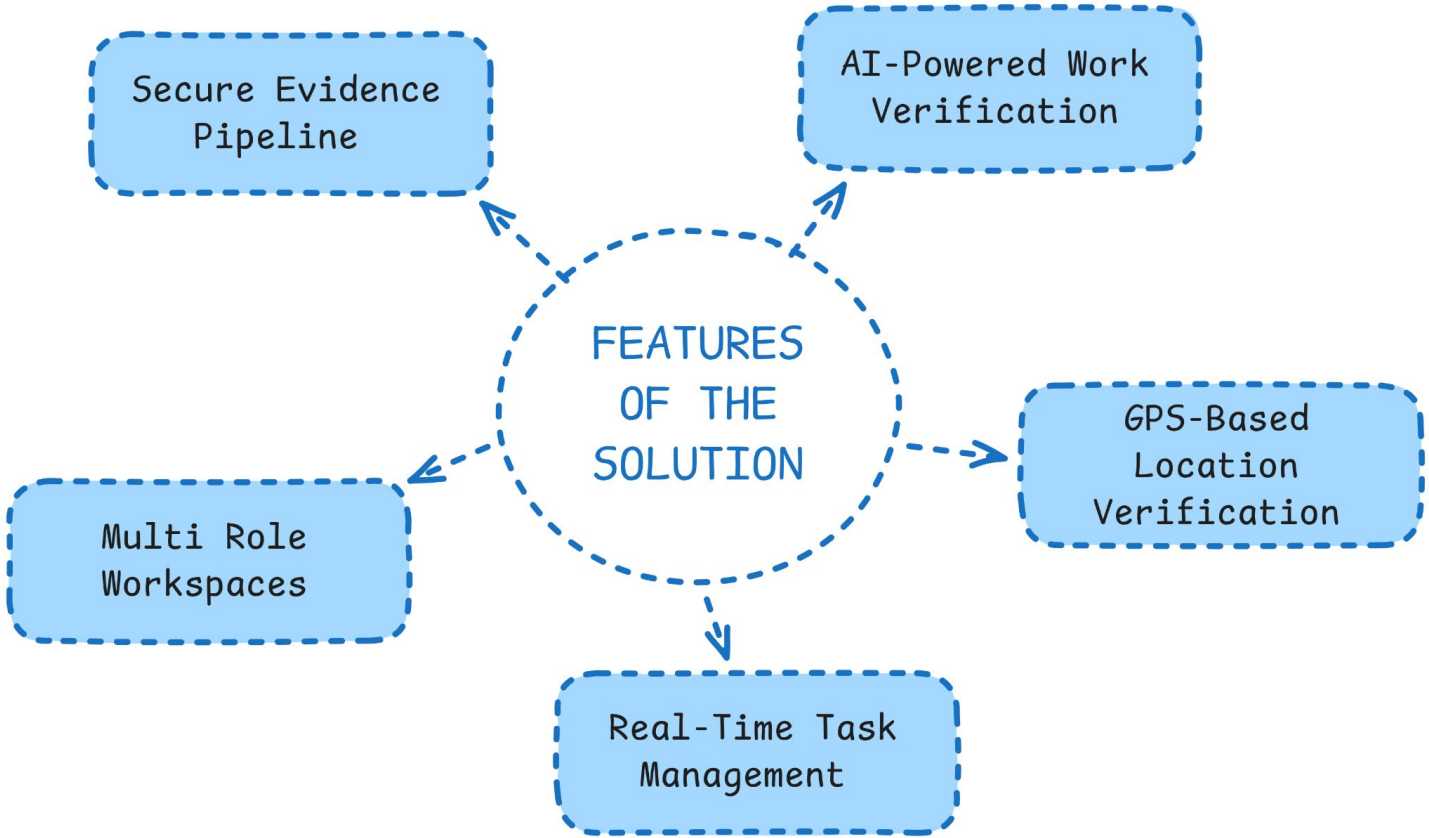
FEATURES OF THE SOLUTION



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TOOLS AND TECHNOLOGIES USED

Frontend

React

React Native

Backend, DB, Blockchain and Storage

nest

FastAPI

supabase

Cloudinary

AI Service

Meta

OpenAI

Hugging Face

Google Tools

Gemini

Firebase

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PROCESS FLOW DIAGRAM

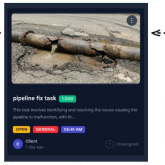
USER LOGS IN / SIGNS UP
FOR OUR PLATFORM

ROLE = CLIENT

CREATES A TASK - FILLS IN
NECESSARY DETAILS

1. Task name
2. Description
3. Uploads Task Media
4. Maps out Task Location
5. Allocates budget, date and time

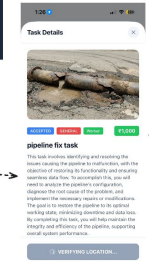
ROLE = WORKER

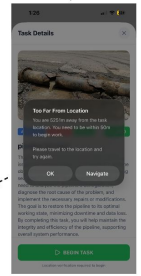


DATE AND TIME < THRESHOLD SET BY CLIENT - CAN ACCEPT BUT NOT START

DATE AND TIME >= THRESHOLD SET BY CLIENT- CAN ACCEPT AND START

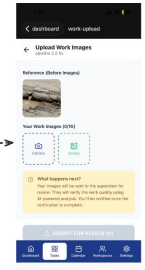
TOO FAR FROM
LOCATION, NAVIGATE



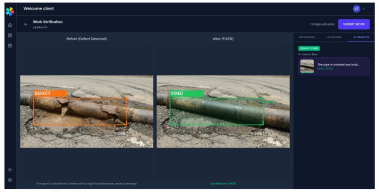


<50M DISTANCE
REDIRECTED TO WORK
UPLOAD SCREEN

UPLOAD AFTER FIX IMAGES
/ VIDEOS

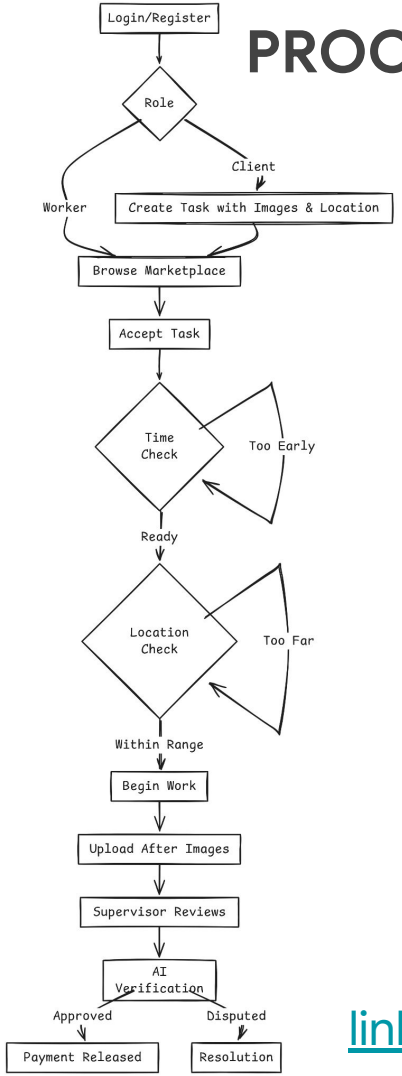


SUPERVISOR RECEIVES MEDIA
WITH RESULTS, APPROVES / DISPUTES



PAYMENT PROCEEDS TO THE WORKER UPON SUPERVISOR APPROVAL

link



link

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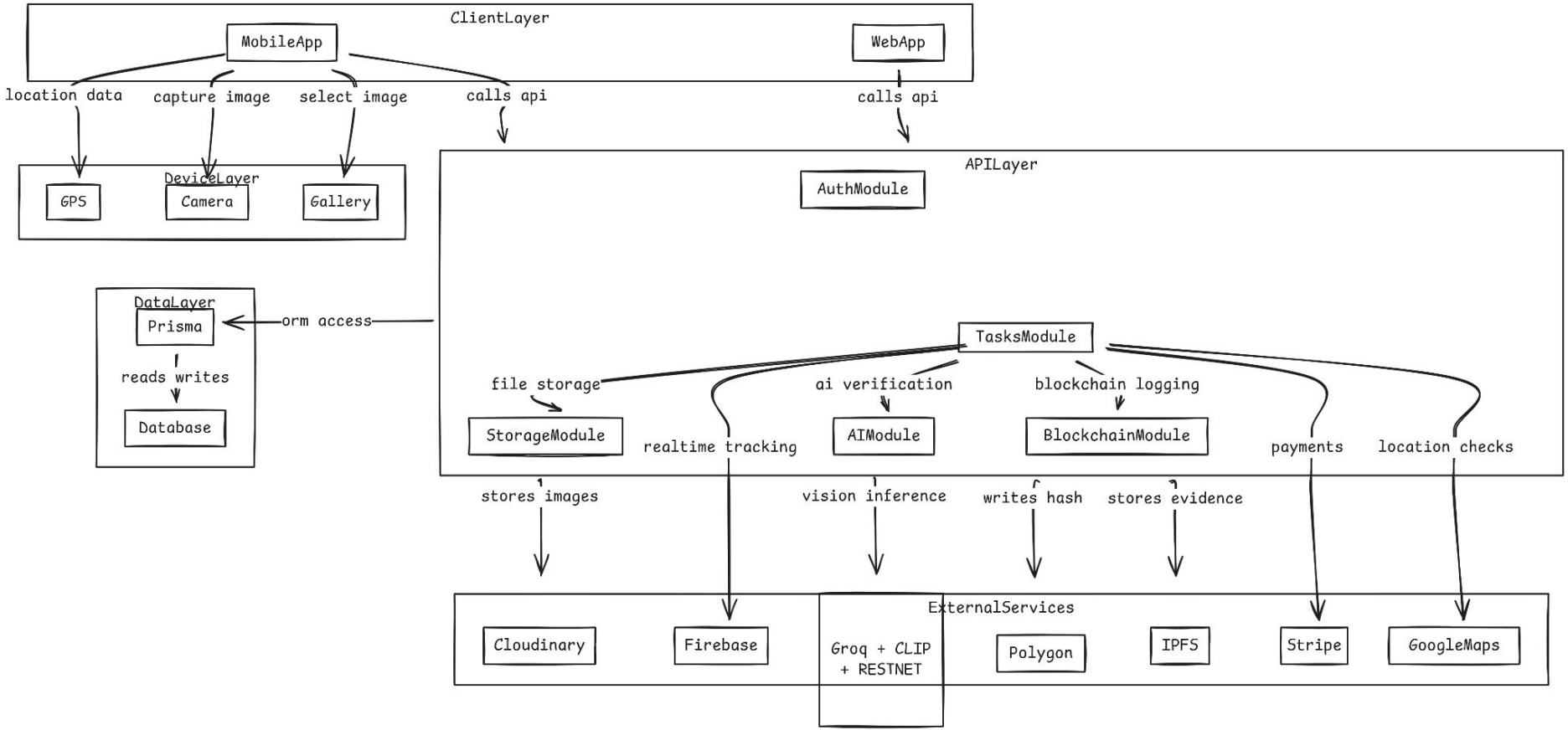
ARCHITECTURE DIAGRAM



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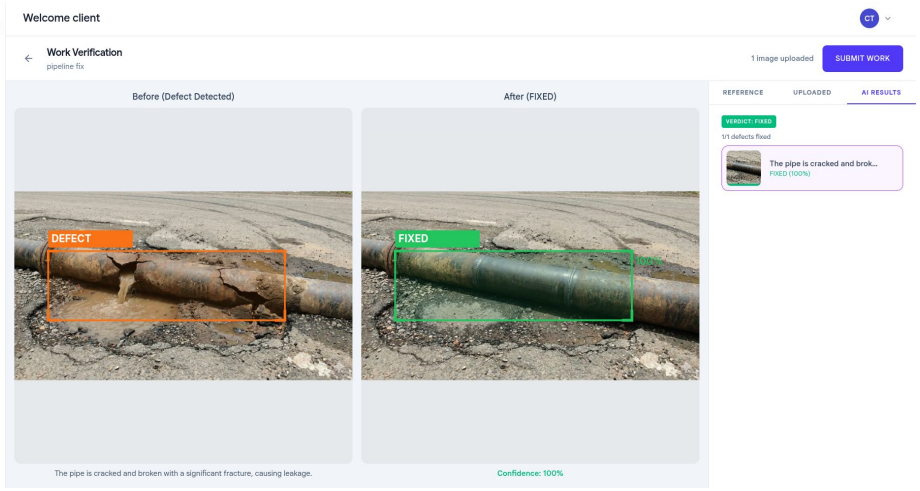
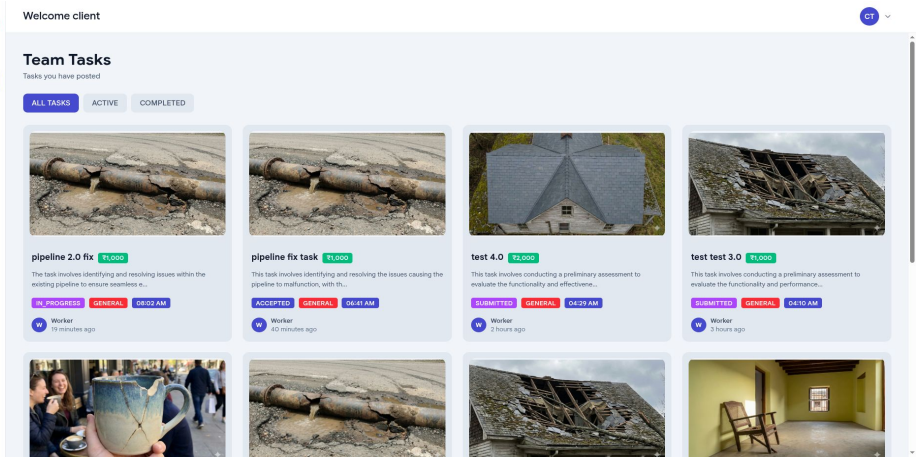
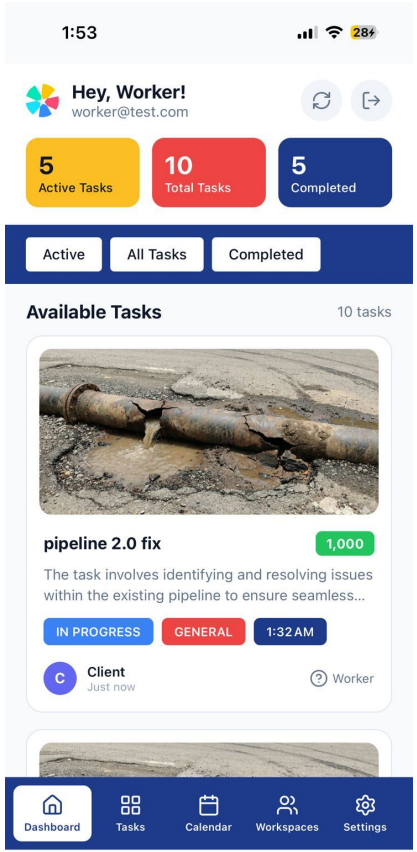
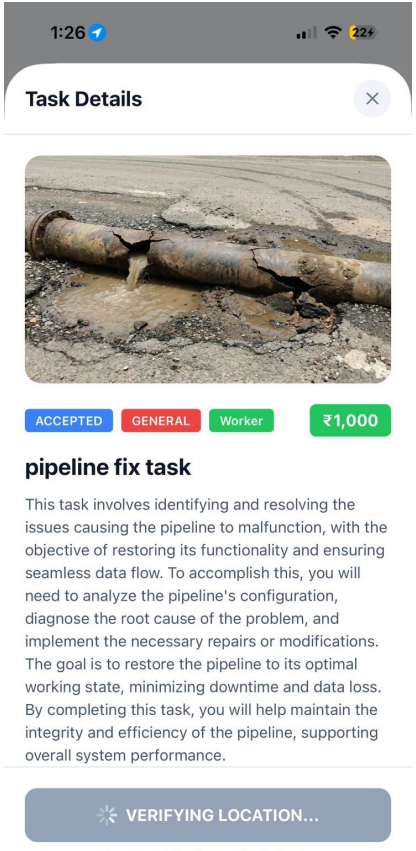
SNAPSHOTS OF THE MVP









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TRY THE WEB SOLUTION OUT!

1. Visit https://open-audit-web.vercel.app, log in with the client credentials (client@test.com - password123). You will be redirected to the dashboard page (hard refresh if stuck on the auth page)
2. Create a task with valid information. Select this image - link for the media, select a random location and a date and time of the past (CRUCIAL).
3. Log out of the website and log in again as a worker persona (worker@test.com - password123). You will be redirected to the dashboard page.
4. Click on the task you previously created, accept it. Go to team tasks page, click on the accepted task
5. Upload this image - link. Click on submit work button, wait for 10-12 seconds and BOOM! Magic. You will be able to see the AI annotations.
6. Now recreate the task and repeat the same flow, but instead of submitting a fixed image, upload the original image used during task creation and observe how the results differ.

NOTE that every single task that any user performs is publicaly live on - https://amoy.polygonscan.com/address/0xd86b0BEFdbf3873Bd576F85B692fF421eFd3bB46#events

FUTURE DEVELOPMENTS

1. Implementation of Generative Adversarial Networks to detect if the submitted images are deepfakes or not.
2. Integrating Payment Gateways (sandbox) to wrap up the entire deployment flow.

PUBLIC LINKS

1. GitHub Public Repository - https://github.com/kedarvartak/open-audit
2. Demo Video Link (3 Minutes)
3. MVP Link - https://open-audit-web.vercel.app

Credentials -

1. client@test.com - password123
2. worker@test.com - password123

The Web based deployment is completely working. Hard refresh if not able to log in or a try a different browser

NOTE that every single task that any user performs is publicaly live on - https://amoy.polygonscan.com/address/0xd86b0BEFdbf3873Bd576F85B692fF421eFd3bB46#events

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Thank you!