

Gen AI Exchange Hackathon

Team Name : TechFists

Team Leader Name : Jayanth Basava

Problem Statement : Create an AI-driven platform or tool that helps local artisans market their craft, tell their stories, and expand their reach to new digital audiences.

Brief about the prototype:

"Need A Hand?" is a mobile-first web application designed as a two-sided marketplace to connect local service providers with users who need help.

For Users ("I need help"):

They can browse, filter, and hire local professionals like plumbers, cleaners, and drivers from a list of worker profiles. They can also manage a list of their hired workers.

For Service Providers ("I can offer help"):

They can create a detailed professional profile, browse a real-time feed of job requests, filter jobs by various criteria (like distance or language), and apply for them.

Essentially, it's a platform to easily find and offer local services.

Key Features:

- Dual-Role Onboarding
- Role-Specific Navigation
- Component-Based Architecture
- Modern UI/UX
- In-Memory State

How is it different?

Unlike generic classifieds or large-scale professional services platforms, "Need A Hand?" is hyper-focused on the informal, local labor market. Its key differentiators are a strong emphasis on trust (through verification and ratings), a radically simple, mobile-first interface, and deep multi-language support to cater to a diverse, non-tech-savvy user base.

How will it solve the problem?

It directly tackles the inefficiency and lack of trust in finding local help.

- For Seekers: It replaces unreliable word-of-mouth with a searchable, vetted database of local workers.
- For Workers: It provides a direct, steady stream of job opportunities, eliminating the need to wait for clients to find them.

What is its USP (Unique Selling Proposition)?

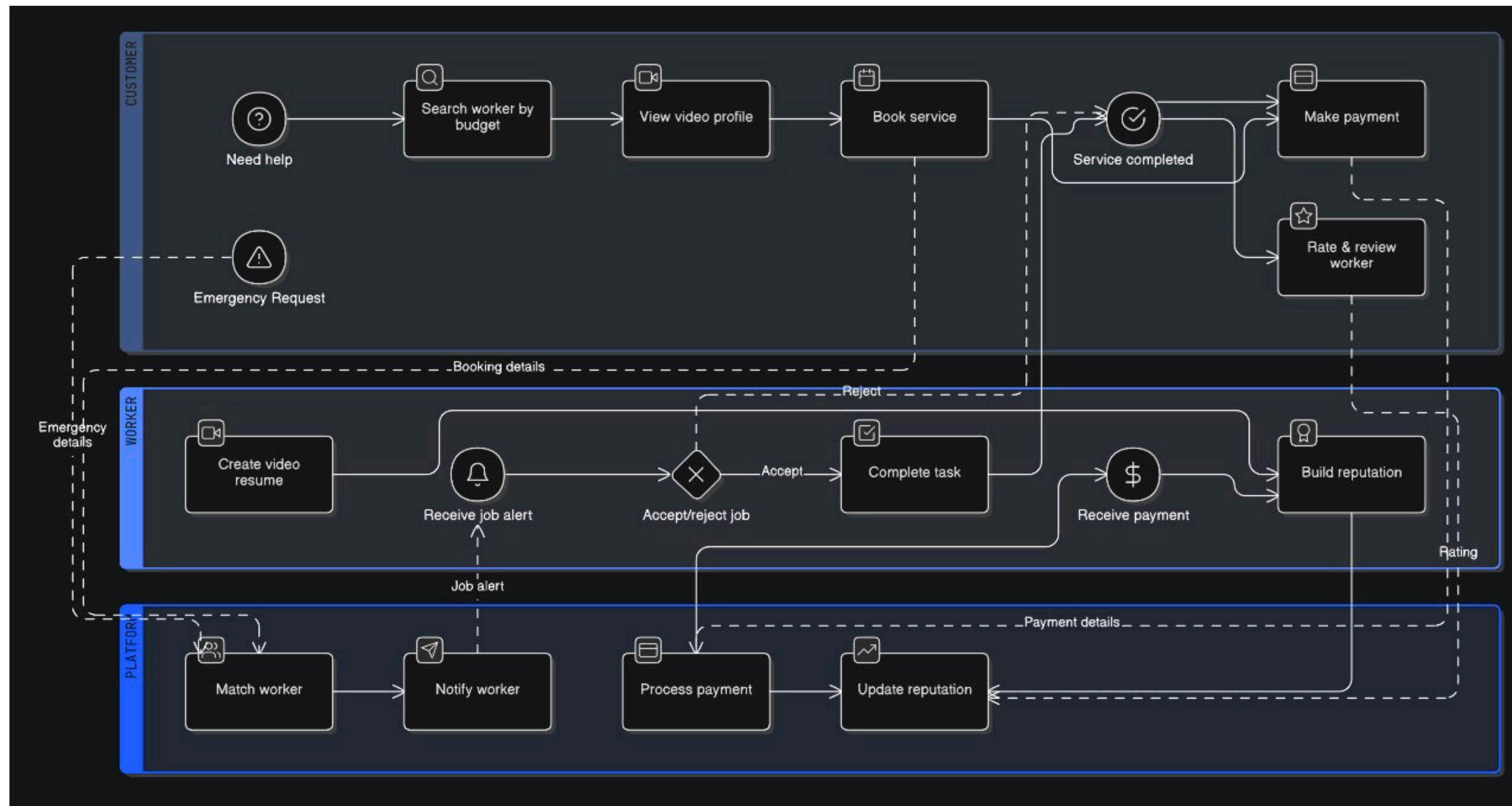
The USP is providing "Trustworthy, on-demand local help at your fingertips." It combines the convenience of a modern app with the trust mechanisms necessary for the informal service economy, making it the most reliable way to find or offer help within a neighborhood.

List of features offered by the solution

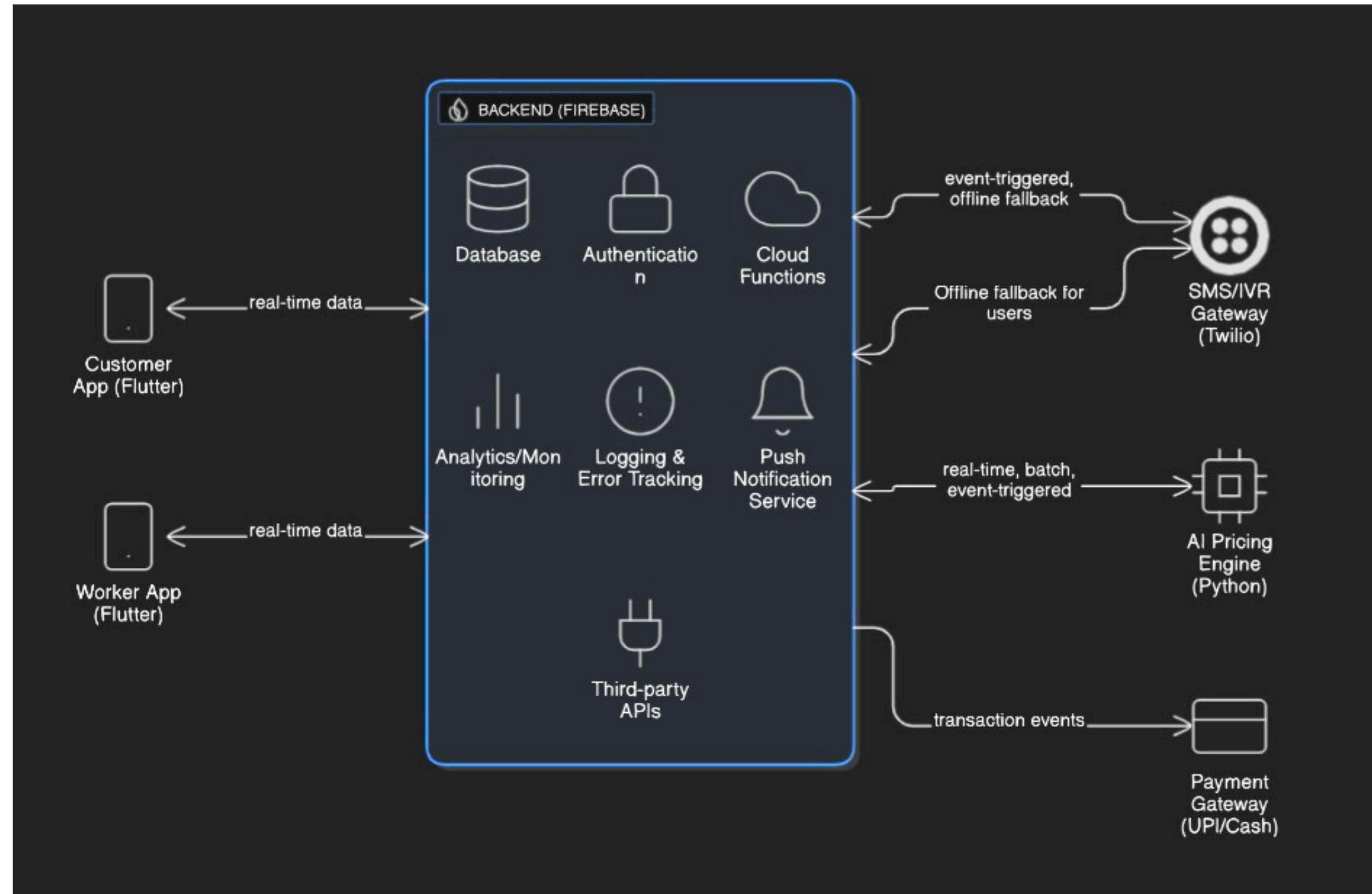
What the App Offers:

- For Finding Help:
 - Browse and filter local workers like plumbers or cleaners.
 - View simple worker profiles with ratings.
 - Hire workers and manage your hired list.
- For Offering Services:
 - Create a professional profile to find jobs.
 - See a live list of job requests near you.
 - Apply for jobs and track your applications.

Use-case diagram or Process flow



Architecture diagram of the proposed solution



Technologies to be used in the solution:

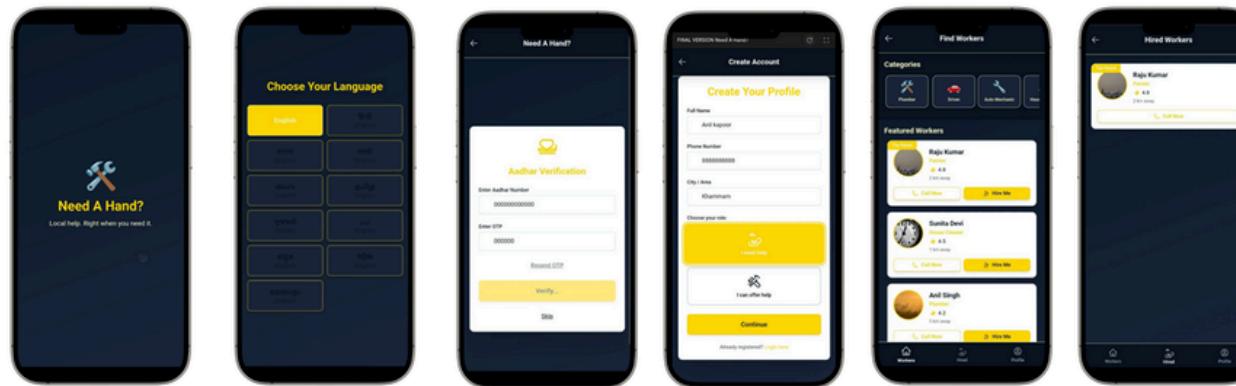
Frontend: Flutter (for Android/iOS)

Backend: Firebase (low-cost, scalable)

SMS/IVR: Twilio (for offline users)

AI Pricing: Python + local wage data

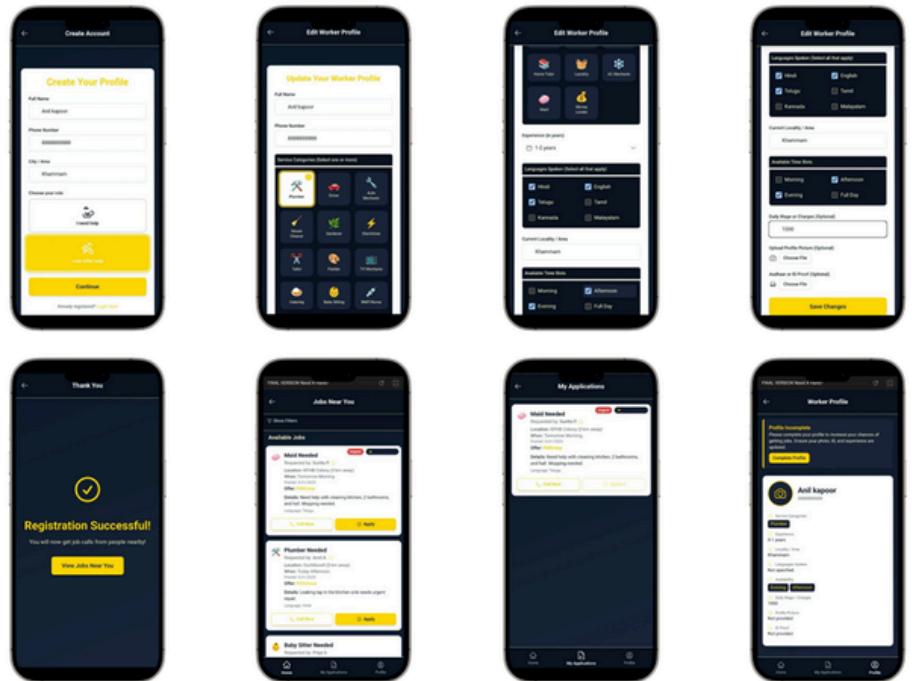
Customer Interface



This is the actual prototype for
Need a Hand Application.

This is how customer interface looks like

This is how the worker interface looks
like navigating through its pages



**Worker
Interface**

Estimated implementation cost (optional):

1. Development Costs

Mobile App (Flutter – Android/iOS): ₹1.5 – 2 Lakhs

Backend & Database (Firebase setup): ₹50,000

AI Pricing Engine (Python + data integration): ₹40,000

2. Infrastructure & Services

SMS/IVR Gateway (Twilio / Local provider): ₹30,000 (pilot phase)

Cloud Hosting & Maintenance: ₹20,000 (per year)

3. Operations & Partnerships

Worker Onboarding & Training (local hubs): ₹30,000

Marketing & User Acquisition (digital + offline): ₹50,000

4. Miscellaneous

Legal, compliance & Aadhaar verification: ₹20,000

Total MVP Cost (First 6–8 Months): ~ ₹3–4 Lakhs

- Scales linearly with workers/customers but remains cheaper than existing platforms (30% commission vs. 5% platform fee).

Team TechFists



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Thank you