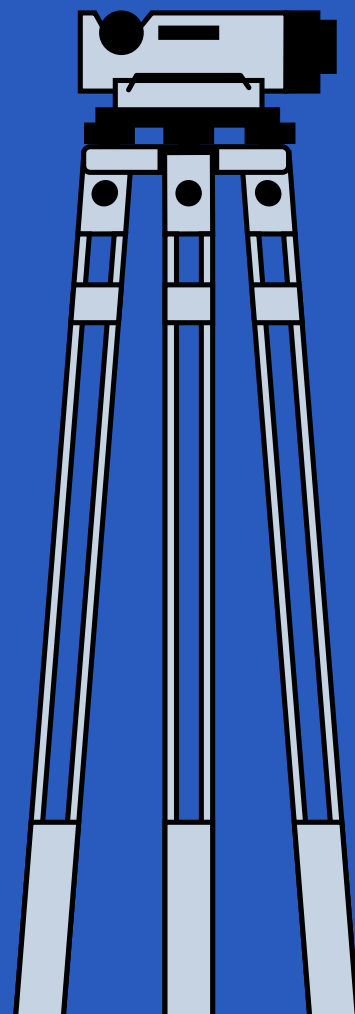PermitPilot

TurboTax For Permits

Problem **Statement**

Government permitting processes are often confusing, lengthy, and filled with complex paperwork, making it difficult for citizens and business owners to get the approvals they need. Individuals looking to open a business or carry out projects requiring permits face barriers such as inconsistent guidelines, confusing terminology, and tedious document management. This results in wasted time, frequent errors, and a frustrating experience that can discourage entrepreneurship and community improvement.

User Stories

SMALL BUSINESS OWNER

I want a simple, step-by-step guide to obtaining the required permits so that I can open my business without having to navigate confusing government jargon.

ENTREPENEUR WITH LIMITED TIME

I want the application forms to be filled out automatically by providing my information once, so that I don't have to enter the same data repeatedly.

User Persona

NAME: Alex Rivera

AGE: 32

JOB: Aspiring Restaurant Owner

HABITS

Prefers mobile apps and online tools to streamline work. Uses online resources like TurboTax for annual tax filing.

PAIN POINTS

Finds government websites and forms confusing and overwhelming. Has little time to visit government offices or navigate complex documentation.

GOALS

Open a new restaurant without dealing with paperwork complexities. Understand exactly which permits are needed and get guidance on obtaining them. Complete the process without hiring costly consultants or specialists.

Solution
Overview

GUIDED AI ASSITANCE 🧠

Create an AI-powered, TurboTax-style permitting assistant that uses Llama's advanced language processing to provide citizens with an intuitive, question-based interface.

DOCUMENT AUTO-FILLING 📄

By analyzing and interpreting user responses, the assistant can pre-fill repetitive or standard information across multiple forms, minimizing errors and saving time.

PROGRESS BAR ✅

Track your progress easily with a step-by-step progress bar, giving you real-time updates through each stage of the process.

STREAMLINED PERMITTING 🚀

Simplify the permitting journey with a streamlined, question-based interface that reduces redundancy and speeds up applications.

Product Features

KEY FEATURES

- Natural language chatbot to guide users step-by-step through the permit process.
- Document auto-filling using AI to identify and populate required fields.
- Permitting dashboard with visual progress tracking.
- Personalized prompts based on the type of business/project and region.
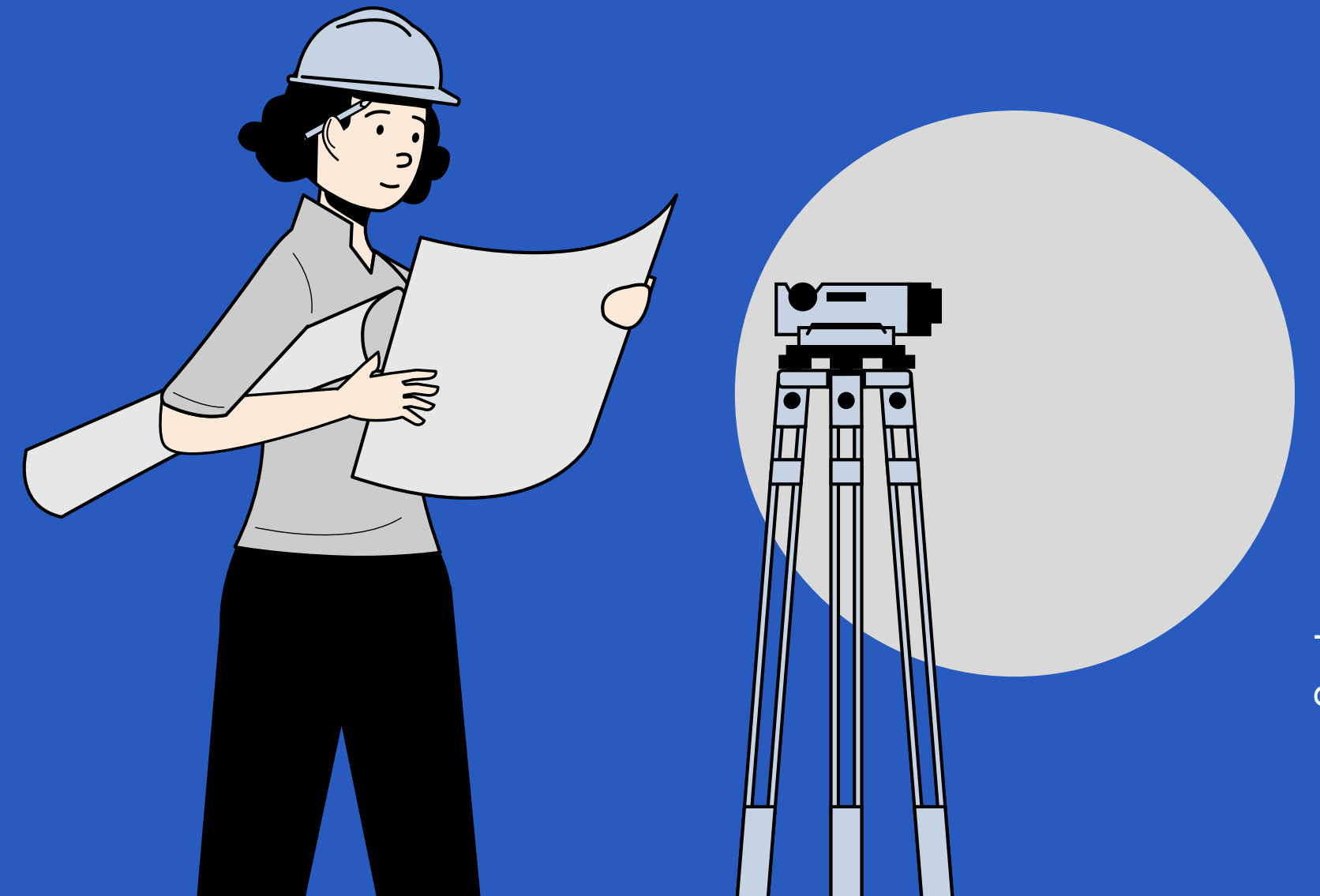
OBJECTIVES

- Simplify the permitting process for users by reducing form completion time and error rates.
- Increase citizen satisfaction by providing clear guidance and avoiding government office visits.

REQUIREMENTS

- Integration with Llama AI for conversational guidance.
- AI agents for input-field recognition and auto-fill capabilities.
- Secure data handling and storage per government and privacy standards.
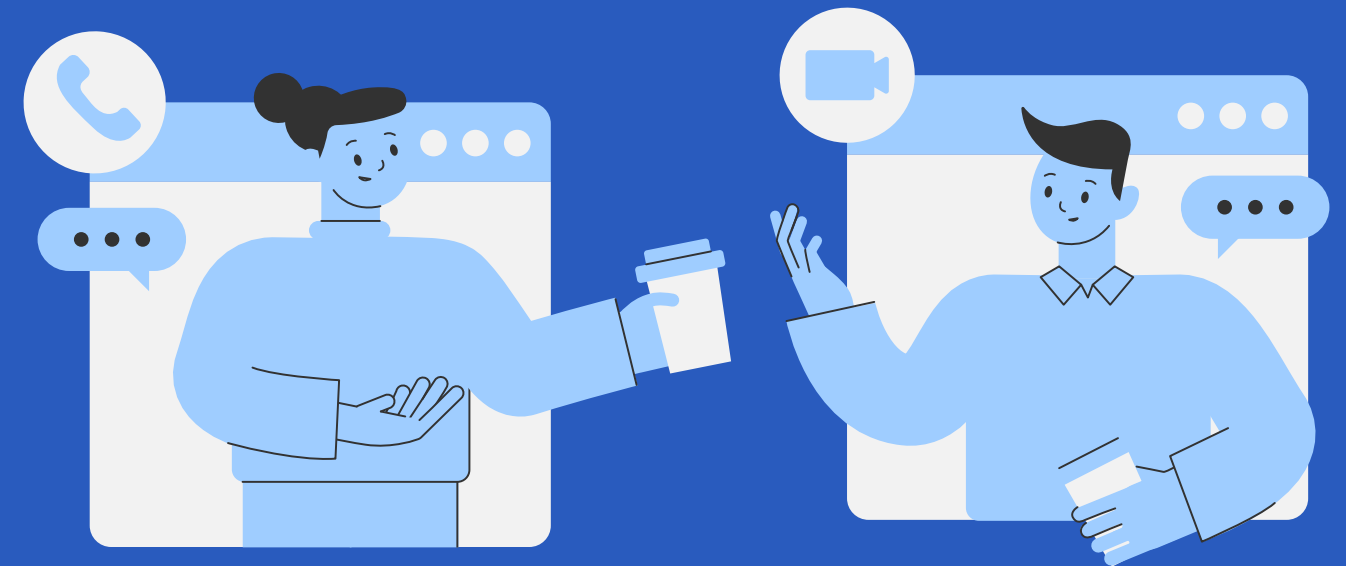- Customizable for different permitting requirements across regions.

Minimum Viable Product:

- Basic conversational bot using Llama to guide users through a questionnaire that captures all required information.

- Progress-tracking bar to show users their stage in the process.

- PDF form completion, using the captured data to auto-fill required fields on standard permits.

- One or two pilot use cases, e.g., opening a restaurant or initiating a construction project.

The M.V.P.

Technology
Walkthrough

3 AI Agents

- 🧑‍💼**Personable TurboTax-Style Guide** A friendly assistant that guides users through each step

- 🔍 **Information Extractor** – Pulls key details from chat history to streamline the process

- ✅ **PDF Filler** – Formats information and auto-populates documents

PDF data scraper with MindsDB
Due dates are pulled from documents with **MindsDB** automation, and displayed on user dashboard

Together AI with **serverless** model: **meta-llama/Llama-3.2-3B-Instruct-Turbo**

Backend & Frontend

🧑‍💼 **Personable TurboTax-Style Guide** A friendly assistant that guides users through each step

Hi there! Welcome to our permit application process. I'll be happy to help you with that. To get started, could you please provide your business name (DBA) as it appears on your business license or registration?

Smith's Restaurant

Thank you, Smith's Restaurant is noted. Could you please provide your business phone number?

555-123-4567

Great, thank you! Now, can you please provide the address where your restaurant is located? This should include the street address, suite number if applicable, and city?

123 Main Street, Suite 101

```
Bot: We have all the required information! Congratulations! Your permit application is now
review the information you've provided to ensure everything looks accurate before submitti
n.

--- Current Information Analysis ---
{
    '(Name of Business DBA)': 'Smiths Restaurant',
    '(Business Phone)': '(555) 123-4567',
    '(Business Address include street directions and suite number if applicable)': '123 Main St, Suite 101',
    '(City)': 'Los Angeles',
    '(Zip)': '90001',
    '(Business EMail)': 'contact@smithsrestaurant.com',
    '(Square Footage)': '2000'
}
```

🔍**Information Extractor** Pulls key details from chat history

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✅ **PDF Filler** properly formats information and auto-populates documents

```
# Example of cleaned, extracted data, ready to be filled in PDF
claned_data = {
    '(New Facility requires plan submittal)': 'Yes',
    '(Change of Ownership)': 'No',
    '(Name of Business DBA)': "Smith's Restaurant",
    '(Business Phone)': '(555) 123-4567',
    '(Business Address include street directions and suite number
    '(City)': 'Los Angeles',
    '(Zip)': '90001',
    '(Business EMail)': 'contact@smithsrestaurant.com',
    '(Seating  Bed Capacity Licensed Healthcare)': '50',
    '(Square Footage)': '2000',
    '(T)': '9:00 AM - 10:00 PM',
    '(W)': '9:00 AM - 10:00 PM',
    '(Th)': '9:00 AM - 10:00 PM',
    '(F)': '9:00 AM - 11:00 PM',
    '(Sa)': '9:00 AM - 11:00 PM',
    '(Su)': 'Closed',
    '(undefined)': '',
    '(Start Time)': '9:00 AM',
    '(Closing Time)': '10:00 PM',
    '(24 Hrs)': 'No',
    '(First Date of Operation)': '2023-01-15'
```


Regulatory/Medical Health Services
Environmental Health Division
1241 E. Dyer Road, Suite 120, Santa Ana, CA 92705
Telephone: (714) 433-6000
Fax: (714) 433-6423
ehpermits@ochca.com
website: www.ocfoodinfo.com

HEALTH PERMIT APPLICATION
FOOD FACILITY

This section is to be completed by the applicant, in full – Please print clearly – Do not detach copies – Health permits are NOT transferable and NOT refundable

TYPE
☐ New Facility (requires plan submittal)   ☐ Change of Ownership

BUSINESS
Name of Business (DBA): Smith's Restaurant
Business Phone: (555) 123-4567
Business Address (include street directions and suite number, if applicable): 123 Main Street, Suite 101
City: Los Angeles
Zip: 90001
Business E-Mail: contact@smithsrestaurant.com
Seating / Bed Capacity (Licensed Healthcare): 50
Square Footage: 2000
Days of Operation: M☐ T☐ W☐ Th☐ F☐ Sa☐ Su☐
Hours of Operation: 9:00 AM to 10:00 PM ☐24 Hrs
First Date of Operation: 2023-01-15

OWNER
Type of Ownership (*attach Certificate of LP, LLP Registration, Articles of Incorporation or Organization)
☐ Individual/Sole Proprietorship ☐ Partnership ☐ LP* ☐ LLP* ☐ Corporation* ☐ LLC*
Business Owner: John Smith
Owner Phone: (555) 234-5678
Owner's Address (must be different than Business Address and cannot be a P.O. Box): 456 Elm Street
City: Los Angeles
State: CA
Zip: 90002
Driver's License Number(s) (if Sole Proprietorship or Partnership; attach copy of ID)
Owner E-Mail: owner@smithsrestaurant.com
Emergency Contact: Jane Doe
Emergency Phone: (555) 345-6789

BILLING
Billing Contact Name: Billing Department
Billing Contact Phone: (555) 456-7890
Billing Mailing Address (include street directions and suite number, if applicable): 789 Oak Avenue, Suite 202
City: Los Angeles
State: CA
Zip: 90003

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Key
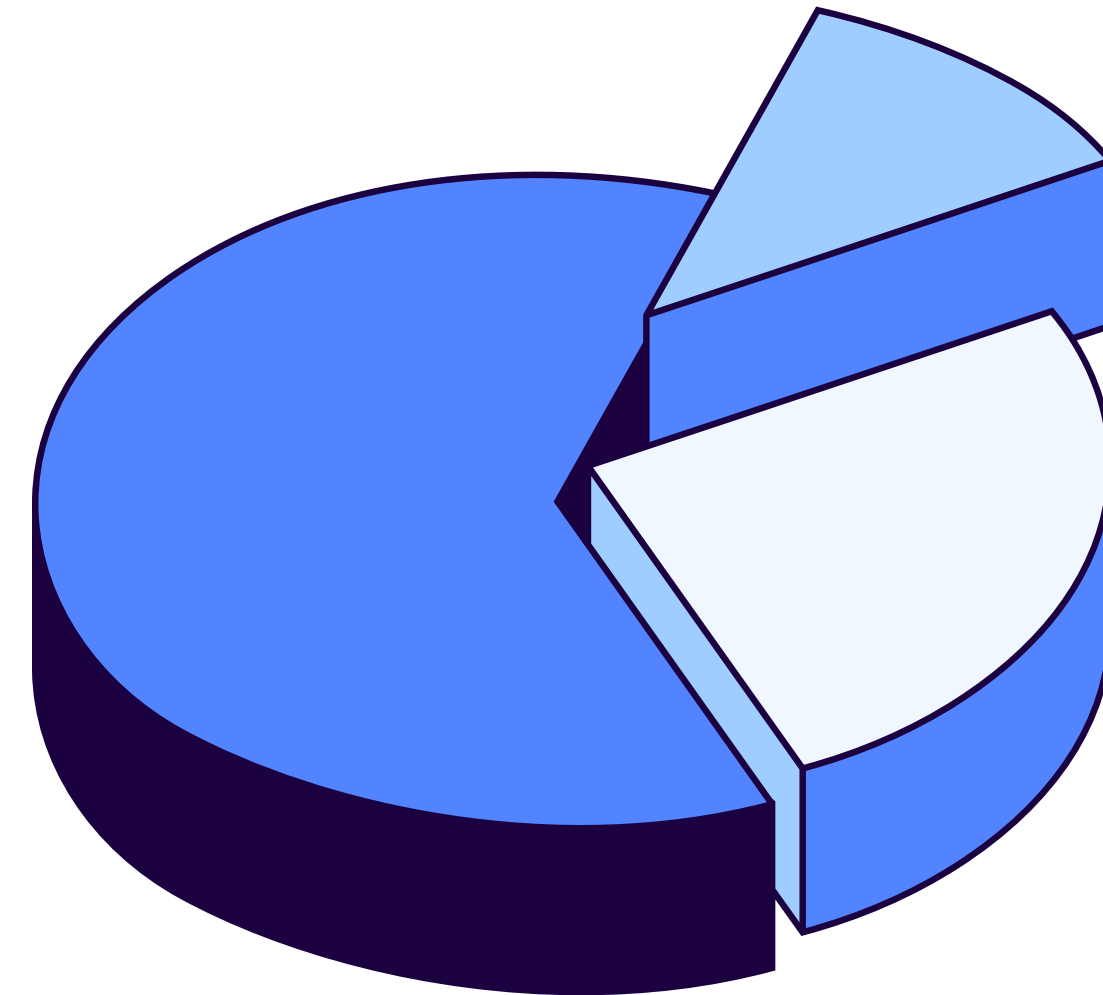# Metrics

USER ENGAGEMENT

Number of users completing the permit guide without dropping off.

APPLICATION TIME REDUCTION

Average time taken for a user to complete the process compared to the traditional approach.

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Go-To-Market

Pilot Partnerships:
Launch pilot programs in partnership with local government agencies or business development offices, focusing on high-demand permits such as those for new businesses or construction projects.

Public Awareness Campaign:
Use social media, public service announcements, and government websites to inform citizens about the tool. Emphasize ease of use, time-saving, and free access.

Strategic Partnerships with Business Platforms:
Collaborate with platforms used by entrepreneurs and small business owners (e.g., Yelp for Business, SBA.gov) to include recommendations for the permitting assistant.

Local Business Testimonials:
Gather and share success stories from early adopters who successfully navigated permits with the tool's help, emphasizing ease, speed, and efficiency.

Iterative Development:
Use feedback from early adopters to refine the tool, expand functionalities, and increase the number of available permits as the platform scales.

PermitPilot

Thank You!

www.reallygreatsite.com