Event Planner Agent: **VenuePilot**

Conversational AI for Seamless Event Organization

1 Vision & Value Proposition

Imagine discussing your birthday, corporate off-site, or study group over coffee while a digital assistant quietly handles every logistical detailfrom scouting venues to sending calendar invites. **VenuePilot** is your next assistant. It combines cutting-edge conversational AI with real-world action, transforming fragmented, manual planning into a single natural dialogue.

2 Problem Statement

Planning even a small gathering means juggling endless tabs, comparison sites, phone calls, calendar updatesand dialing old numbers that no one answers. Personal assistants are expensive; chatbots are passive. Users need an autonomous yet trustworthy agent that talks through the plan, searches the web like a power user, and takes action when given the green lightseamlessly like a human assistant.
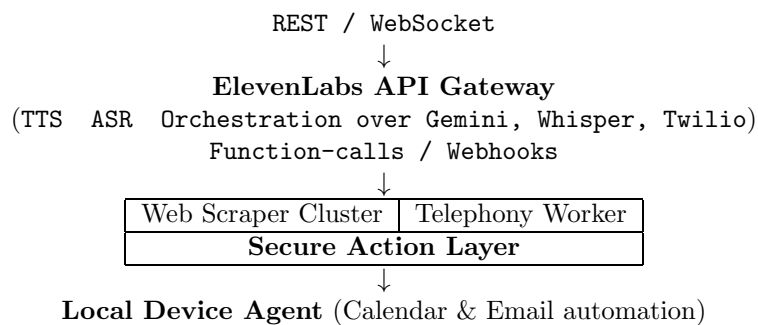
3 Solution Overview

VenuePilot acts as your AI agentic assistant planner. You outline goals (e.g., "Dinner for 5 classmates next Friday near campus"), refine preferences in conversation, and approve actions. EPA then:

- Scrapes the web for venues, availability, and reviews

- Presents the top, tailored suggestions

- Offers to place real phone calls to secure reservations

- Automates calendar creation, email invites, and follow-ups on your laptop

4 Technical Architecture

Front-End (React / JavaScript UI)

```
            REST / WebSocket
                   ↓
         ElevenLabs API Gateway
 (TTS  ASR  Orchestration over Gemini, Whisper, Twilio)
          Function-calls / Webhooks
                   ↓
```

Web Scraper Cluster	Telephony Worker
Secure Action Layer	

```
                   ↓
```

Local Device Agent (Calendar & Email automation)

5   End-to-End User Journey

1. **Kick-off:** User describes the event idea via voice or text.

2. **Clarify:** VenuePilot asks follow-ups (date, headcount, vibe, budget).

3. **Search & Rank:** Web data gathered, filtered, scored.

4. **Present Options:** Top 3 displayed with key metrics (price, distance, rating).

5. **Reservation:** On approval, EPA calls and confirms the booking, summarizing the outcome.

6. **Calendar & Invites:** EPA opens local calendar, creates event, emails contacts.

7. **Post-Event:** Optionally gathers feedback & photos.

6   Competitive Edge

- Full-stack autonomynot just chat but action

- Voice calls break the API-only ceilingcritical for smaller venues without online booking

- Desktop handoff keeps credentials localno need to share email passwords with cloud bots

- Voice conversation loop via JavaScript front-end and ElevenLabs

- Real-time venue scraping & recommendation engine

- Twilio programmable voice calls for bookings with DTMF fallback

- Calendar automation proof-of-concept (AppleScript)experimental but not integrated yet

7   Outlook

- Smart budgeting & cost-split suggestions

- Google Workspace & Outlook calendar connectors

- PCI compliance for handling payment details

- Plugin SDK for transport, catering, and photography services

- Scale to other industries such as trip planners, flight planners, and more