Vehix AI – Agentic Automation for Vehicle Data Extraction

Overview

Vehix AI is an advanced automation agent built for the Automation Anywhere Agentic Bounty Challenge. It enables intelligent extraction, translation, and reporting of vehicle configuration data from web sources.

prerequisite

Playwright and chromiun liberary should be installed

Features

- **Language Detection & Translation:** Handles multilingual content seamlessly.
- **Web Data Extraction:** Uses Python Playwright for robust scraping.
- **AI-Driven JSON Parsing:** Extracts 30 key features including technical specs and inferred attributes.
- **Custom Category Selection:** Exterior, Interior, or Technical data extraction.
- **Automated Reporting:** Generates and sends reports to requestors.

Workflow

1. **User Form:** Collects URL and category input.
2. **Website_Extraction_Task:** Scrapes webpage and outputs JSON.
3. **AI Skills:** Detects language and translates if necessary.
4. **Vehix_Report_Creation:** Creates and sends report file.
5. **Logging:** Maintains detailed logs for audit and traceability.

Technical Highlights

- **Playwright Integration:** Ensures accurate and dynamic web scraping.
- **AI Reasoning:** Handles nested JSON structures and infers complex features.
- **Standardized Output:** Returns clean JSON with predefined keys.

Example Output (Technical Category)

```json
{ "Brand": "Mercedes", "model_name": "EQE 350+", "model_amount": "€68,000", "parking_assistant_present": true, "co2_emission": "0 g/km", "engine_power_kw": "215 kW", "battery_capacity_kwh": "90 kWh", "electric_range_km": "660 km", "acceleration_0_100_kmh_sec": "6.4 sec", "max_speed_kmh": "210 km/h", … }
```