

# TECH REPORT

## Proposed Architecture:

### Frontend (Browser Extension)

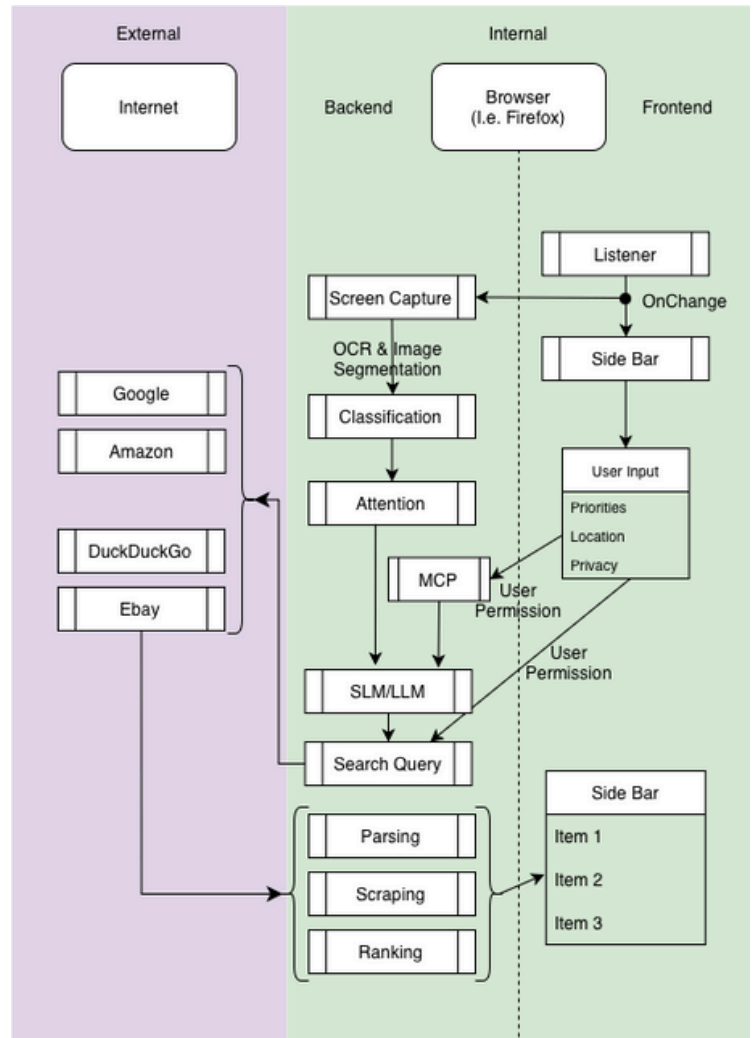
- Runs in the user's browser
- Contains UI components: Listener, Side Bar and user input fields for priorities, location, and privacy settings

### Backend Processing Pipeline

- Screen Capture - Captures the current webpage
- OCR & Image Segmentation - Extracts text and visual elements
- Classification - Categorizes content
- Attention & MCP - Focuses on relevant product information with user permission controls
- Search Query Generation - Creates optimized search terms
- Parsing/Scraping/Ranking - Processes results from multiple platforms

### External Integrations

- Searches across Google-shopping, Amazon, DuckDuckGo, and Ebay (for text) and Google-Lens (for images): Choice depends on privacy settings
- Returns ranked results to the sidebar



## Current Implementation

We use SerpApi to access various search engines. Ranking and scrapping is done in python.

**Tech Stack:** Harbor Repo, React, Javascript, Typescript, Python

**AI Support:** Claude Code, Codex

