



Problem

Property valuation tools are often expensive, complex, or lack integrated data from multiple sources. Buyers, sellers, and real estate professionals struggle to quickly assess property values because existing solutions require manual compilation of listings, comparables, and market data, making informed decisions difficult.

Solution

TrueDoor addresses this by providing a Property Valuation Platform with a web interface and browser extension. Users input a property address and receive detailed property information along with value estimates that integrate property listings via the Model Context Protocol, comparable sales data from ATTOM, and AI-powered estimation using Google Gemini, delivering reliable property valuations with confidence levels through an accessible interface.

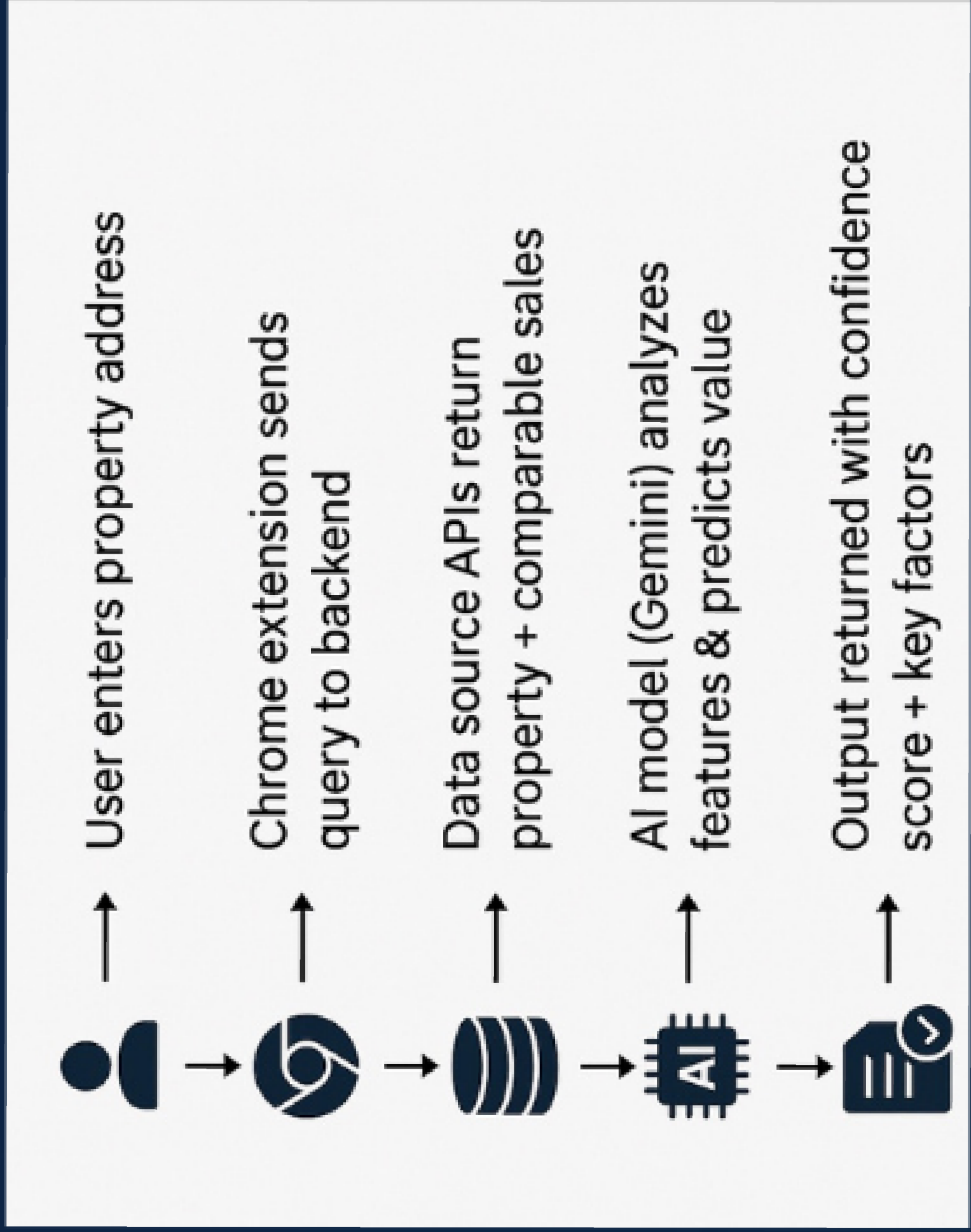
Fall 2025 Senior Design Project TrueDoor

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System Design

A Flask web application allows users to search properties using MCP and estimate values via ATTOM comparables and Gemini AI.

- mcp_service.py: Fetches property listings from Model Context Protocol
 - attom_service.py: Retrieves comparable sales from ATTOM Data Solutions
 - estimators.py: Calculates estimates from comparables and AI-powered valuation
- Flask + React: Handles user input and displays results
- Flow: User → Flask → MCP → ATTOM API → Gemini AI → Results
- Secure, integrated, and user-friendly.



Workflow

Summary

An AVM (Automated Valuation Model) Chrome extension that leverages AI and LLMs to estimate real estate property values directly within the browser.

Requirements

Software: Python, HTML

