

Challenge 2 - Automate My Workflow

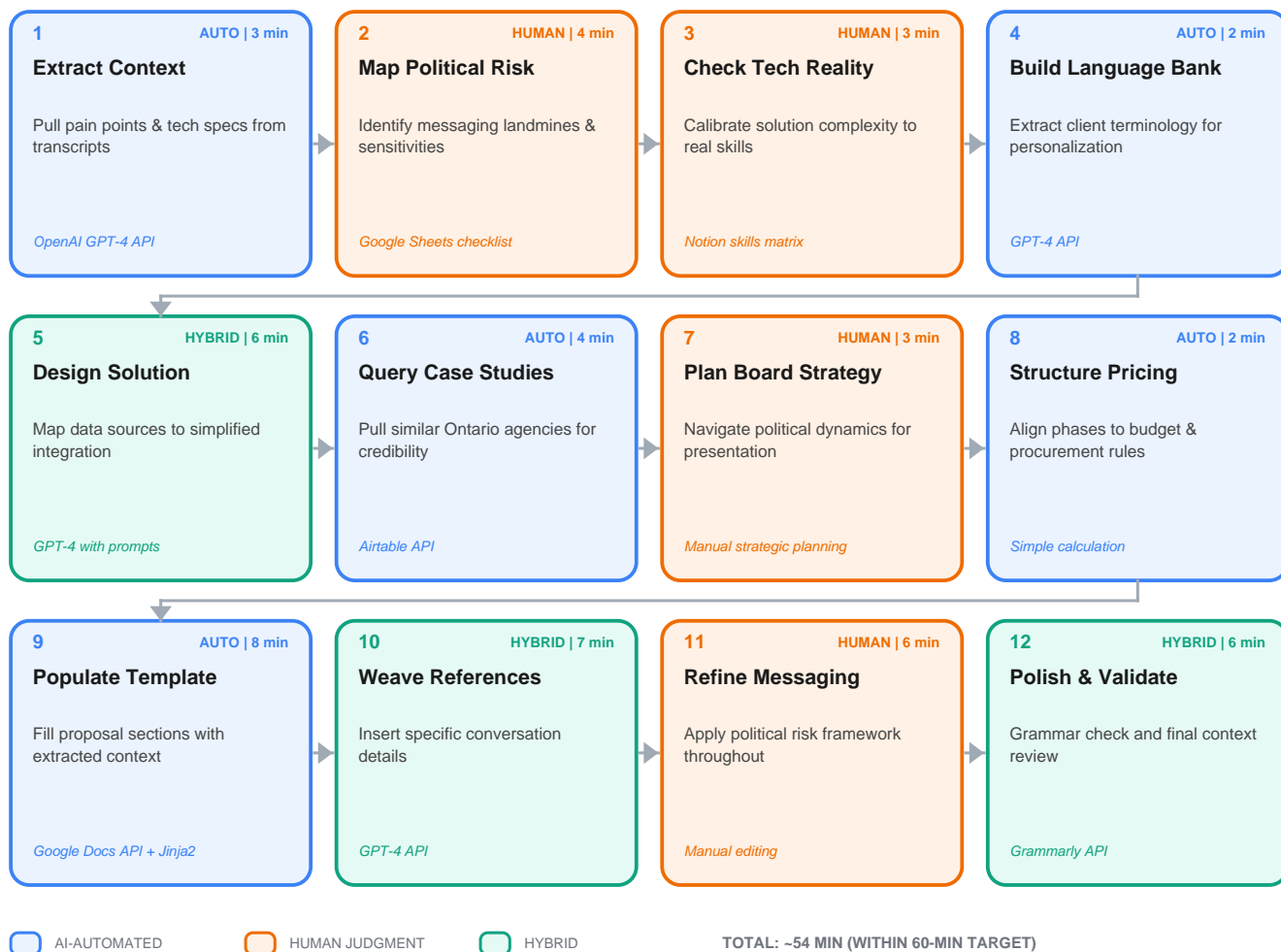
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Instead of staring at a blank page trying to sketch out the perfect workflow, I did what any reasonable CS student would do: I built an AI system to figure it out for me.

I built a multi-agent AI system where four specialized agents -- a Researcher, an Architect, a Critical Eye, and a Toolsmith -- read actual call transcripts and collaboratively design a proposal-creation workflow tailored to what the client said. The Researcher digs into what makes proposals win. The Architect drafts a step-by-step plan. The Critical Eye tears it apart, flagging every spot where a bad AI call could tank the client relationship. The Toolsmith maps real tools to each step. Then the Architect revises based on all that feedback.

The result: a workflow that's not generic. Different transcripts produce different plans, because every client has different politics, sensitivities, and technical realities. Human judgment stays where it matters most -- reading political dynamics, shaping recommendations, and making the final call on what goes to the board.

I fed the system 3 mock call transcripts (available in the GitHub repo: <https://github.com/elliottnou/kts>) and ran the code. It generated the following workflow plan:



AI Tools Used

Claude (Anthropic API) powers all four agents -- each gets a specialized system prompt and sees all prior reasoning. I used GitHub Copilot to write the prototype code, Streamlit for a real-time UI where you can watch agents deliberate, and fpdf2 to dynamically generate this flowchart from agent outputs (nothing here is hardcoded). Full codebase, transcripts, and outputs are in the repo.

If this proposal process were a taco, the AI handles the shell and the human brings the salsa.