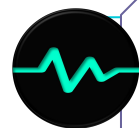




Alto Health

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Ambitious Solutions

Jasmine Flowers



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Jerry 'Tre' Kelly



Mentor:
Bailey Hall

Client:
Jesslynn Armstrong

► The Problem

The United States has built a **\$4.5 trillion healthcare system** where patients are surprised by bills, providers are blamed, and payers collect premiums only to deny coverage when it's needed most.

Americans Believe Healthcare Costs Should Be Transparent

In your opinion, should healthcare organizations be required to tell you how much a product or service will cost before you receive it?

■ % Yes ■ % No ■ % Don't know

All U.S. adults aged 18+ 95

May 8-15, 2023
Bentley-Gallup Business in Society Report

GALLUP

Fewer Than 1 in 5 U.S. Adults Aware of Healthcare Costs Before Receiving Care

In your experience, do you know how much your healthcare products or services will cost before you receive them?

■ % Yes ■ % No ■ % Don't know

All U.S. adults aged 18+ 17 79

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GALLUP

Our client sees this lack of transparency as an urgent issue that must be addressed to improve patient outcomes.

► The Solution - Altered Health

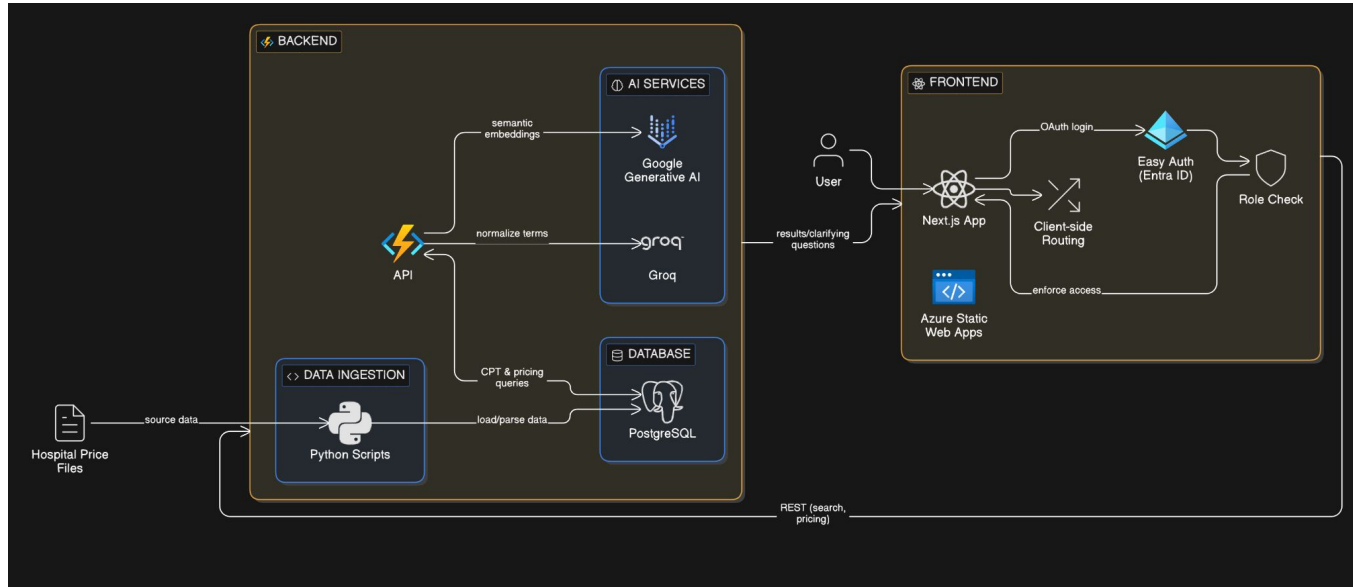
Our client believes this product should be similar to Airbnb + Yelp for Healthcare.

- Pricing transparency & cost comparison
- Integrated insurance policies
- Powerful healthcare search
- Real customer reviews and shared experiences
- Education, bill review and live support

This solution will help patients make informed choices through transparency, education, experiences, and access.

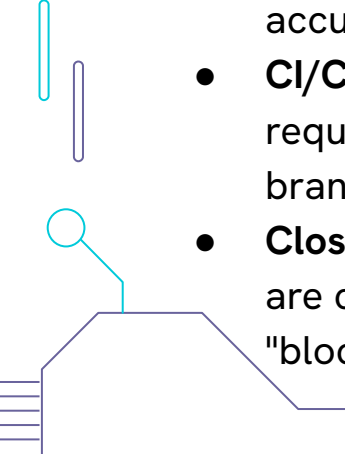


► Software Design





► Testing Plan

- **Architecture-Synchronized Testing:** We verify the functionality of our software by using Unit tests on all units, specifically our data parser and interface, Integration tests to our Node.js/PostgreSQL/AI service handshakes, and Usability tests to our frontend.
 - **Data Integrity is our priority:** Healthcare costs are high-stakes. We specifically target the AI-driven search pipeline to ensure plain english queries translate into accurate codes and pricing.
 - **CI/CD Guardrails:** Testing is fully automated in our GitHub pipeline. Every pull request triggers unit, integration, and accessibility checks, ensuring the main branch remains constantly tested and accurate.
 - **Closed-Loop Refinement:** We use a system where client feedback and test failures are categorized by severity. Pricing or authentication defects are treated as "blockers" that dictate the next development cycle.
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► Requirements for Alpha Demo 2

Requirements for the second demo

- Education Resources / Information Buttons
- Display the average cost of service
- Add a “contact us” button that hyperlinks to email



► Demonstration

The screenshot displays the Alterra Health website interface. At the top, the logo for Alterra Health is visible on the left, and a user account icon labeled 'DEVONNOR LOR' is on the right. The main content area features a central card titled 'MRI brain with and without contrast'. Below the title, there is a 'Billing Summary' section. This section lists the provider as 'Banner - University Medical Center Phoenix' and shows a total amount of '\$5,267.00'. Below this, a 'Facility' section also lists 'Banner - University Medical Center Phoenix' and shows a total amount of '\$5,267.00'. At the bottom of the card, there is a prominent red button labeled 'Schedule with Us' and a smaller link for 'View quote'. The entire page is set against a light blue background with a subtle grid pattern.

► Challenges and Resolutions

Most of the Challenges We're Facing Are:

- Maintaining a cohesive user experience
- Platform Decisions Still in Flux
- Performance Optimization Concerns

Resolution to Each Challenge:

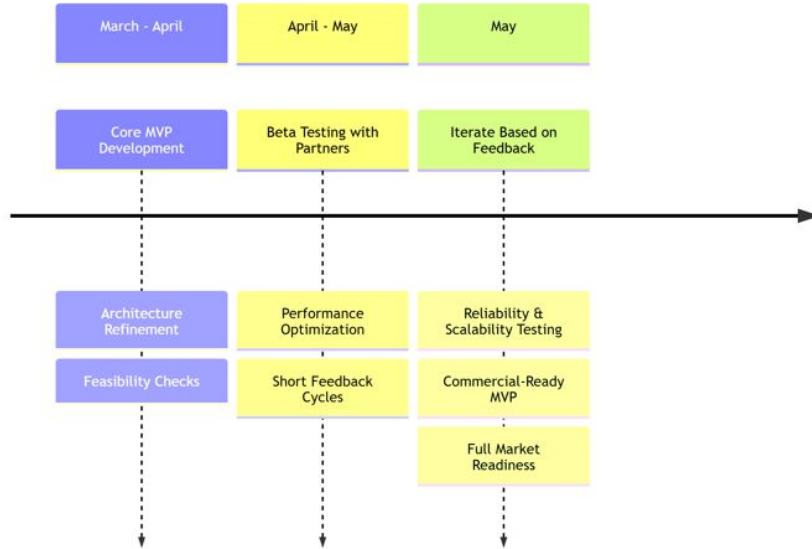
- Document UI decisions and conduct brief design reviews before each cycle.
- We're addressing it by prototyping small pieces with different options to make data-driven decisions before locking anything in.
- Implementing caching strategies, optimizing database indexes, and planning load testing once the core functionality is stable.



► Challenges and Resolutions

Scheduled Timeline:

Project Roadmap to Market Readiness



Future Tasks:

- IMPORTANT! Cross Reference Google Analytics**
#310 · Kak223 opened yesterday
- Location feature not working - 5SP** bug help wanted
#306 · Kak223 opened 2 days ago
- Migrate browser-visible treatment identification from CPT to proprietary public codes** enhancement
#301 · AsherSSB opened 2 days ago
- Pricing Updates**
#299 · Kak223 opened 3 days ago
- Remove duplicate address box - 1SP** help wanted
#298 · Kak223 opened 3 days ago
- Missing insurance rates**
#297 · Kak223 opened 3 days ago
- Feedback Link - 3SP** help wanted
#296 · Kak223 opened 3 days ago
- Include disclaimer in footer - 2SP** help wanted
#295 · Kak223 opened 3 days ago
- Center Search box - 1SP** help wanted
#294 · Kak223 opened 3 days ago
- Remove Page**
#293 · Kak223 opened 3 days ago

► Conclusion

- Healthcare transparency is a real problem. Altered health aims to solve these problems in a real, effective, way.
- We currently have an effective software design, testing plan, and functional prototype.
- Our next steps include more development, including quality of life changes to the frontend and small functionality changes to our backend.
- By the end of our capstone project, we aim to change how healthcare is interacted with for everyone who needs it.

