

UPDATED PROJECT PLAN

- Traces health disparities back to historical origins through Wikipedia
- Crawls Wikipedia live, builds a knowledge graph, runs PageRank, generates AI narrative
- Topics: Type 2 Diabetes · Maternal Mortality · Childhood Obesity



ORIGIN ZERO PROJECT UPDATE

TEAM ROLES

- Amelia & Prince — Built the Wikipedia crawler
- Prince — Built the graph + PageRank engine
- Anthony — Building the frontend visualization
- Emmanuel — Building the AI narrative

CURRENT STATUS

- ✓M1 — Setup, GitHub repo, libraries installed
- ✓M2 — Crawler pulling 60 live Wikipedia articles
- ✓M3 — Graph built: 60 nodes, 474 edges
- ✓M4 — PageRank: African-American history ranked #1
- ✓M5 — Groq llama3 generating AI origin narrative
- ✓M6 — Frontend live on GitHub Pages
- →M7 — Polish + full pipeline end to end
- →M8 — Present & reflect

PROJECT TIMELINE

ORIGIN ZERO PROJECT UPDATE

WHAT'S

NEXT

DEMO

Day 1

- M1-M2 — Setup & Crawler ✓
- Repo, libraries, Wikipedia crawler live

Day 2

- M3-M4 — Graph & PageRank ✓
- 60 nodes, 474 edges, root causes ranked

Day 3

- M5-M6 — Narrative & Frontend ✓
- Groq AI narrative + live GitHub Pages

Day 4

- M7 — Polish & Connect
- Full UI, timeline, stats, evolution sections

Day 5

- M8 — Present
- Live demo, full team pitch, collect feedback

- Live site:
princeoseibonsu.github.io/OriginZero
- Click Type 2 Diabetes → knowledge graph loads with real Wikipedia nodes
- "PageRank ranked African-American history as the #1 root cause — not diet, not genetics. History."
- Click Maternal Mortality → graph updates, root causes shift

- Connect fine-tuned Gemma 4 model (in progress on Hugging Face)
- Debug and connect full pipeline end to end
- Polish full UI — timeline, stats, evolution
- Improve AI narrative and add more topics
- Practice final pitch as a full team



Where did it really start?

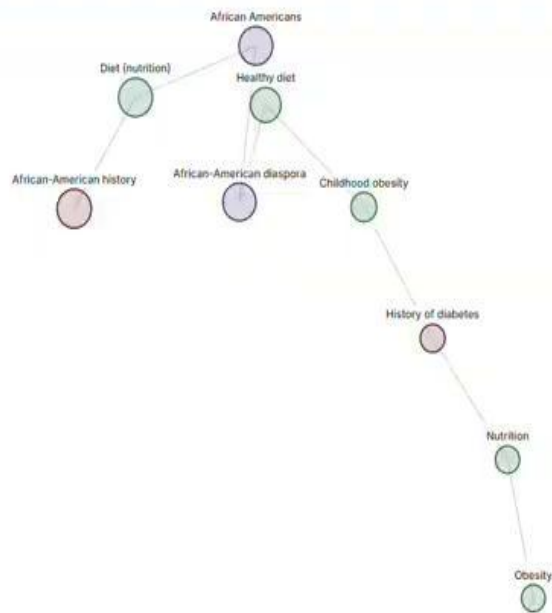
OriginZero crawls Wikipedia, builds a knowledge graph, and uses PageRank to trace health disparities in underrepresented communities back to their true historical root causes.

Type 2 Diabetes

Maternal Mortality

Childhood Obesity

KNOWLEDGE GRAPH — 80 NODES — 474 EDGES — BUILT FROM LIVE WIKIPEDIA DATA



Scroll to select · Drag to pan · Drag nodes to rewire