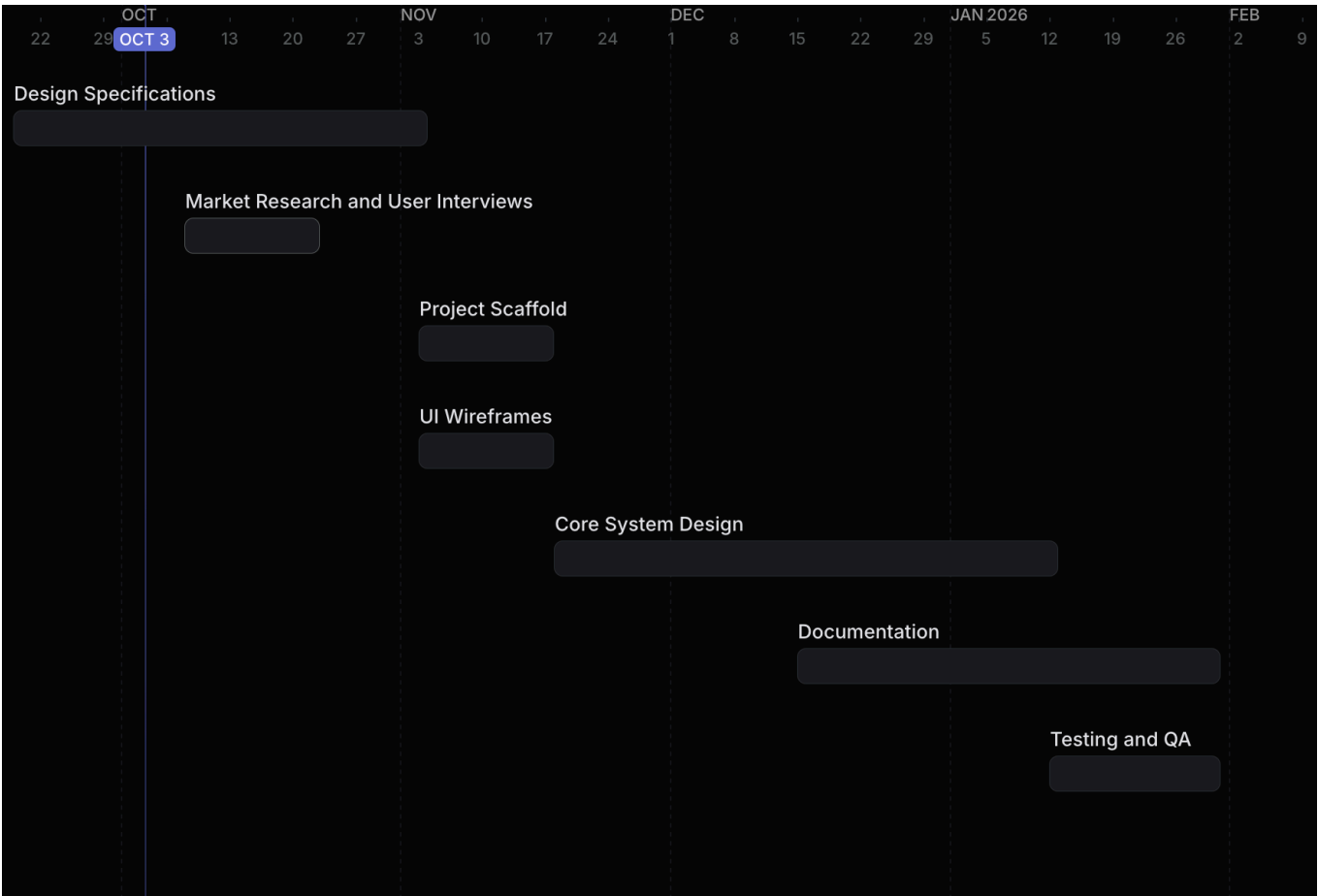


Assignment #6 - Milestones, Timeline, and Effort Matrix

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Milestones

- Design Specifications: Create a design document with high level architecture and tools. Also split tasks and projects.
- Market Research and User Interviews: Talk to data engineers in the industry and understand their use cases, and problems
- Project Scaffold: Set up the systems and tools to build the project.
- UI Wireframes: Design the User Interface on Figma, with user flows
- Core System Design: Develop the core system - interaction with LLM, deploy and context engine
- Documentation: Write user and developer documentation
- Testing and QA: Test out functionality and quality test using human and automated programs



Effort Matrix

Task Name	Assigned	Dhiren (%)	Kaus (%)	Jay (%)
Set up CI/CD pipeline for automated testing and deployment	Kaus	20%	65%	15%
Design prompt engineering strategy	Kaus	20%	70%	10%
Integrate w/ Supabase for data storage and authentication	Dhiren	60%	25%	15%
Design the user interface for the sidebar panel	Dhiren	68%	12%	20%
Document quickstart, troubleshooting, and architecture ADRs for users	Dhiren	75%	10%	15%
Implement client-side logic to capture data sources and user inputs	Dhiren	70%	15%	15%
Implement the LLM interaction core	Kaus	20%	65%	15%
Research and select the right LLM model for the application	Kaus	15%	70%	15%
Write documentation for the extension (setup + usage)	Dhiren	65%	15%	20%
Build the context ingestion layer (connect, parse, normalize, store)	Kaus	15%	70%	15%
Develop test suite (unit, integration, end-to-end)	Dhiren	70%	15%	15%
Research most common data sources, integrations, and tools (data eng.)	Jay	12%	18%	70%
Develop the “deploy engine” for deploying pipeline to user’s environment	Jay	20%	10%	70%
Design the database schema	Jay	15%	20%	65%
Create a sample dataset + two demo pipelines (ingest → transform → load)	Jay	20%	10%	70%

Timeline

Task Name	Start Date	End Date
Set up CI/CD pipeline for automated testing and deployment	Nov 3, 2025	Nov 17, 2025

Task Name	Start Date	End Date
Design prompt engineering strategy	Nov 3, 2025	Nov 17, 2025
Integrate w/ Supabase for data storage and authentication	Nov 3, 2025	Nov 17, 2025
Design the user interface for the sidebar panel	Nov 3, 2025	Nov 17, 2025
Document quickstart	Dec 16, 2025	Jan 30, 2026
Implement client-side logic to capture data sources and user inputs	Nov 18, 2025	Jan 12, 2026
Implement the LLM interaction core	Nov 18, 2025	Jan 12, 2026
Research and select the right LLM model for the application	Sep 13, 2025	Nov 3, 2025
Write documentation for the extension (setup + usage)	Oct 16, 2025	Oct 19, 2025
Build the context ingestion layer (connect, parse, normalize, store)	Nov 18, 2025	Jan 12, 2026
Develop test suite (unit, integration, end-to-end)	Jan 12, 2026	Jan 30, 2026
Research most common data sources, integrations, and tools (data eng.)	Oct 8, 2025	Oct 22, 2025
Develop the “deploy engine” for deploying pipeline to user’s environment	Nov 18, 2025	Jan 12, 2026
Design the database schema	Nov 3, 2025	Oct 17, 2025
Create a sample dataset + two demo pipelines (ingest → transform → load)	Jan 12, 2026	Jan 30, 2026