

Assignment4

User Stories for an AI Data Pipeline Agent

1. The Data Engineer Perspective

- As a data engineer, I want to describe data sources, transformations, and destinations using natural language prompts, so that I can automate the generation of boilerplate pipeline code and reduce my development time by more than 50%.

2. The Data Analyst Perspective

- As a data analyst, I want to independently create a data feed from a new source to my business intelligence (BI) tool without writing any code, so that I can get the data I need for my reports in hours instead of waiting weeks for engineering resources to become available.

3. The Head of Data Perspective

- As a head of data, I want to empower my non-technical stakeholders to fulfill their own data requests through a simple interface, so that I can clear our team's backlog of tasks and focus my expensive engineering talent on high-impact, strategic data architecture projects.

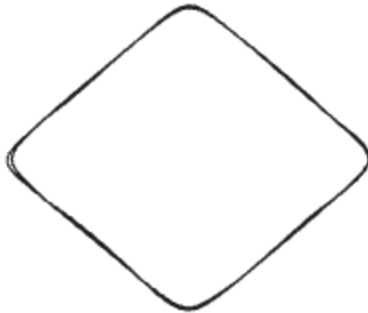
4. The Data Scientist Perspective

- As a data scientist, I want to rapidly build and modify pipelines to create experimental datasets for model training, so that I can accelerate my feature engineering and model iteration lifecycle, leading to faster deployment of more accurate predictive models.

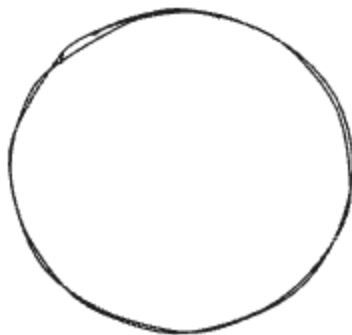
Design Diagrams



User Action



Process

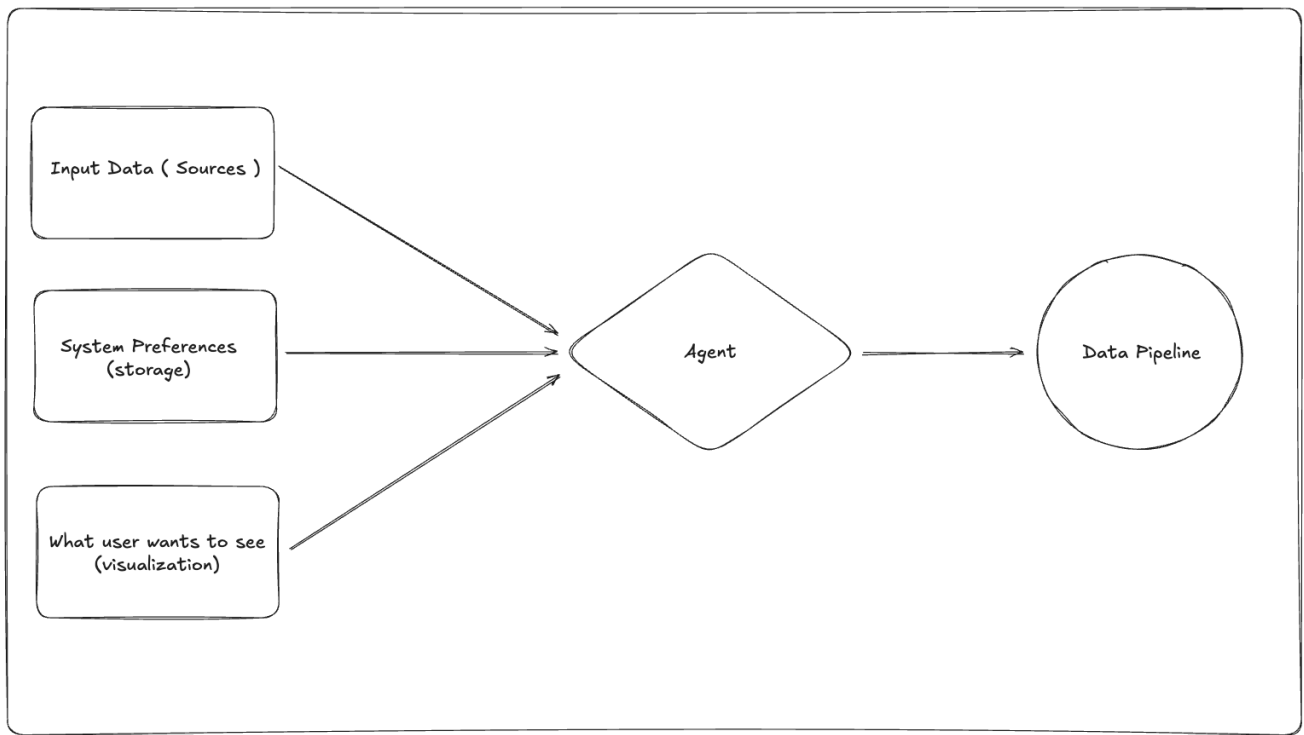


Output



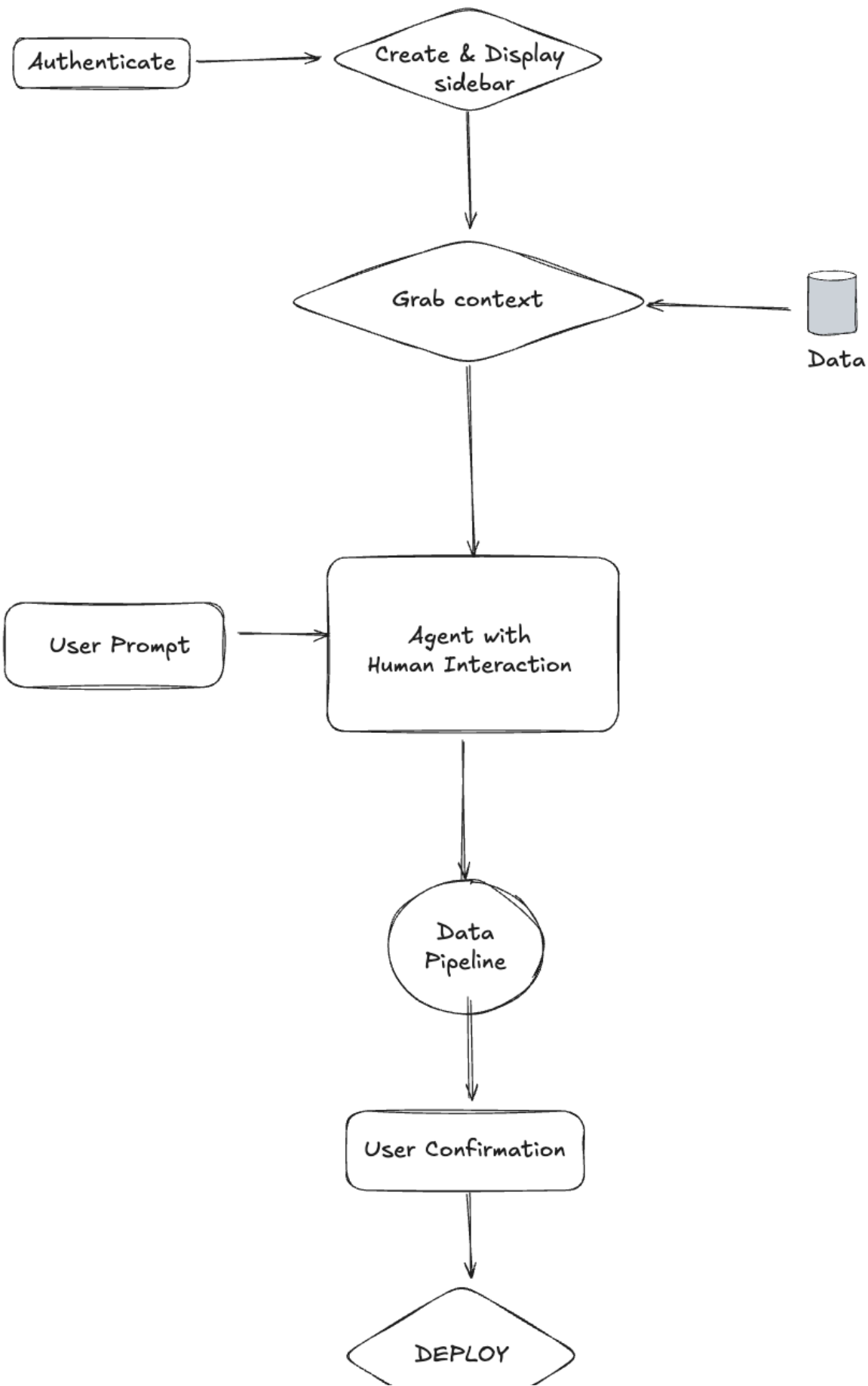
Flow of the
program

D0



D1

Core Agent





D2

Core Agent

