ADBMS Project

Team Members:

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Data Model: Document (NoSQL)

Target Platform: Cosmos DB SQL API

Objective/Scope:

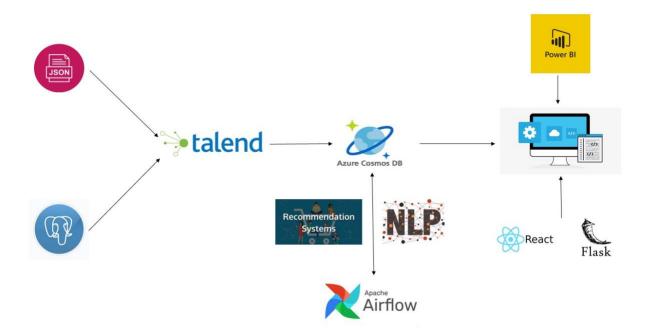
- 1. Store e-commerce data in Cosmos DB and leverage its SQL API for higher throughput and low latency data access & analytics
- 2. Process the data by implementing ETL pipelines in Talend
- 3. Analyze e-commerce data and derive product insights from a stakeholder's perspective
- 4. Apply sentiment analysis on customer review data to highlight high vs low performing products
- 5. Display top sellers for products based on pricing & offers
- 6. Recommend similar products based on user purchase history and similar users
- 7. Render both stakeholder and user-based analytics via Microsoft PowerBI visualization and ML model deployment respectively on a UI powered by React & Flask backend

UI & Backend: React, Flask

ETL Tool: Talend

Visualization: Microsoft PowerBI

Architecture Diagram:



Entity-Relation Diagram:

