# Unified Data Aggregation System

**Problem Statement** –

In today's data-driven world, organizations rely on multiple databases and external APIs to store and retrieve critical information. However, data is often scattered across different platforms, leading to **data silos**. Businesses, analysts, and developers face challenges in aggregating, querying, and processing data efficiently from multiple sources.

**Tech Stacks** –

* Frontend:- React.js.
* Backend:- Python , Django.
* Databases:- MySQL , SQLLite3 , PostgreSQL.

**Motivation** –

Eliminates Data Silos , Cross Database Querying , Dynamic Scheme Mapping , Improved Data Processing

**Description** –

 **Multi-Database Support** – Connect and operate across multiple relational databases.

 **CSV Upload & Storage** – Easily upload CSV files and store data efficiently.

 **Natural Language Querying** – Retrieve and manage data using simple English commands.

 **SQL Query Execution** – Advanced users can write and execute custom SQL queries.

 **Seamless Data Operations** – Perform actions across multiple databases without complexity

**Significance** –

* Enhance Data Accessibility
* Provide real time insights
* Increase operational efficiency

**Intended Users** –

* Data Analysts
* Developers
* Business Teams.

**Key Stakeholders** –

* Enterprises
* Research Institutions
* Financial & E – commerce sectors

**Real - World Use Cases** –

* E – commerce Analytics
* Healthcare Data Integration
* Financial Fraud Detection
* Business Intelligence Dashboards.

**Unique Selling Policy –**

* Quick Response
* Integration of multiple Ports At one Without any third party application
* Non technical person can also use by simple english prompts to access the data

**Subscription Models –**

* Subscription – Based Model
* Pay – Per Use Model
* Enterprise Licensing
* White Labeling
* Custom Data Solutions