

Sunday, 27 March

Ahmedabad University

INGENIUS
HACKATHON

Team

Kaccha Badaam

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Problem Statement

- Small local businesses miss out a lot on sales and supply chain insights due to offline mode of operation.
- Lot of solutions are available for providing valuable sales insights for an online marketplace.
- Resource wastage is one of the biggest pain-points for small replenishment cycle domains (eg: food, beverages, etc)
- High demand in supply chain domain has increased the need for innovation in this domain.



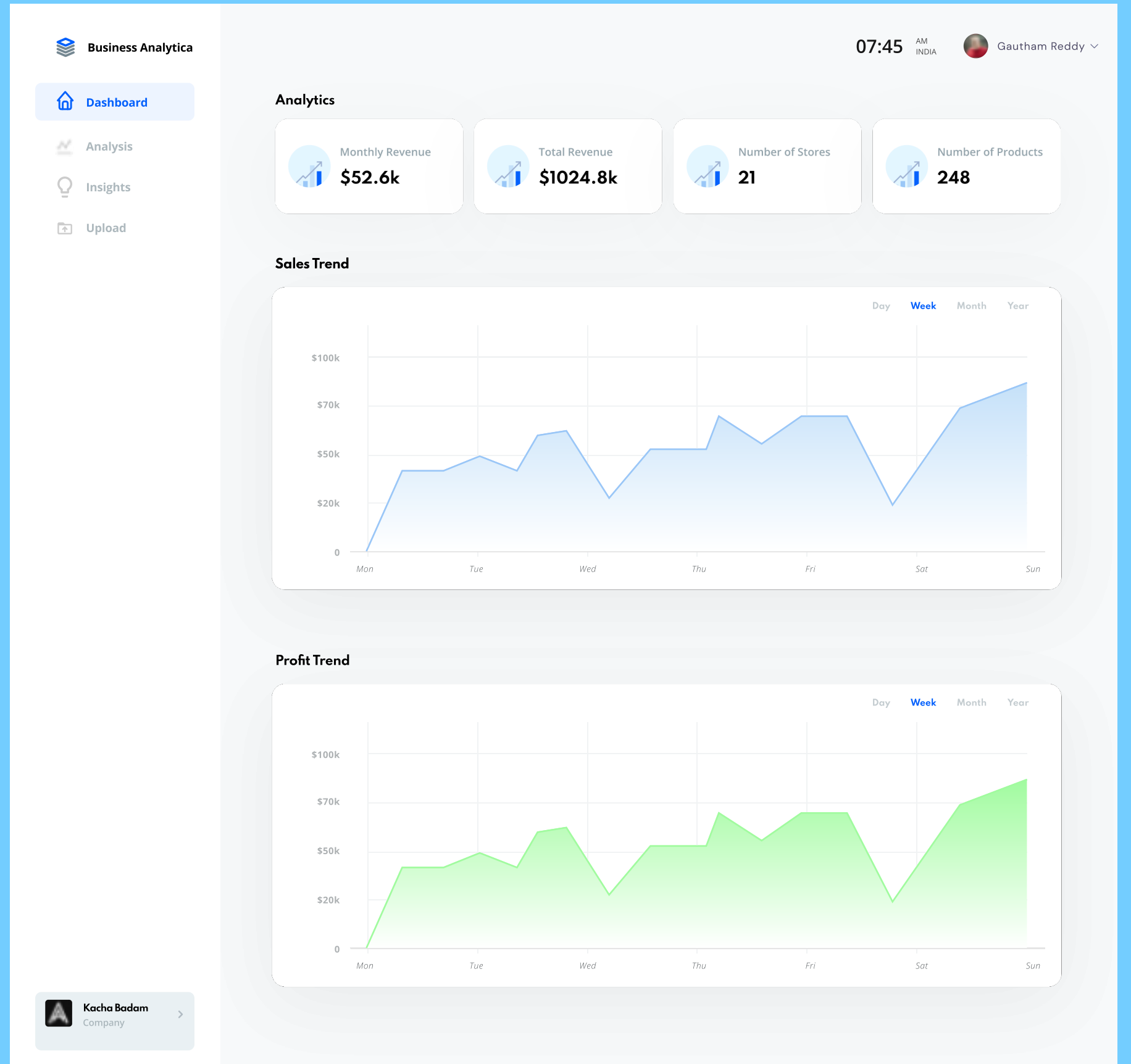
Our Approach

- The initial aim is to build an intra-store inventory procurement for small and mid scale businesses
- Provide analyse and visualization capabilities for inventory and sales-related data
- Provide stock optimization insights to vendors to help them reduce wastage and increase overall profit
- Provide product and region level trending and comparison charts
- Assumption: Availability of inventory and sales data for small-scale businesses (via raw csv or erp platform integration)



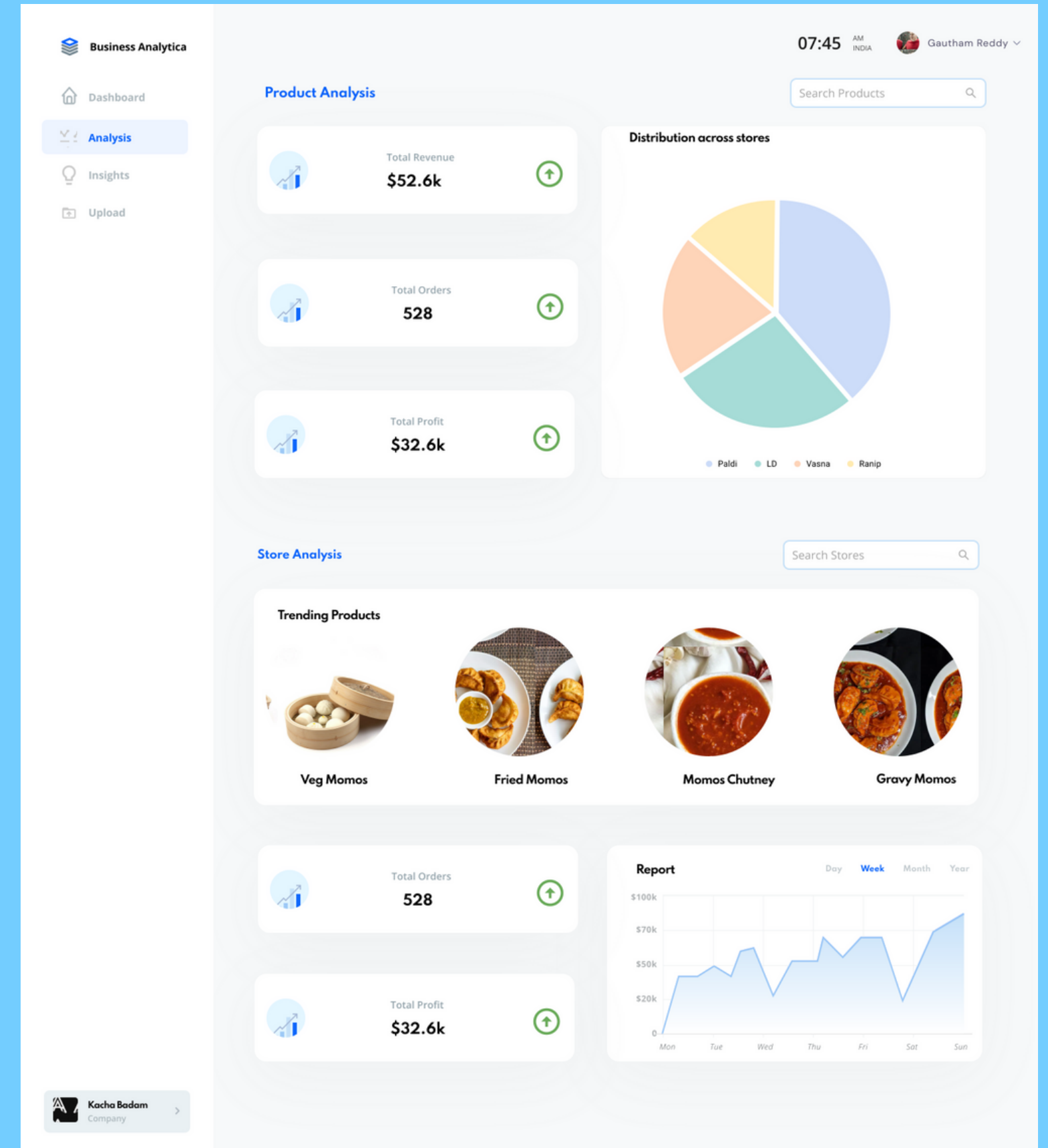
Solution

- Dashboard to analyze and visualize:
 - Efficiency of stock replenishment
 - Sales, revenue and profit growth of vendor chains
 - Categorical product analysis



Solution

- Stock procurement + Sales insights:
 - Suggesting up/down stocking selective products/regions based on predefined weighted params
 - Apply custom statistical models for suggesting intra-stock movements
 - Parameters include product replenishment rate, quantity, location, product category etc.



Solution

Business Analytica

Dashboard

Analysis

Insights

Upload

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AM

INDIA

Gautham Reddy

Trending Products in your area

Veg Momos

Fried Momos

Momos Chutney

Gravy Momos

Stock up these products to boost your sales

Trending products in this time of the year

Veg Momos

Fried Momos

Momos Chutney

Gravy Momos

Stock up these trending products to increase your profits

Stock Optimization

Paldi

LD

Transfer 69 pouches of shezwan chutney from Paldi shop to LD shop

Kacha Badam Company

Business Analytica

Dashboard

Analysis

Insights

Upload

07:45

AM

INDIA


Gautham Reddy

Upload your daily invoices here

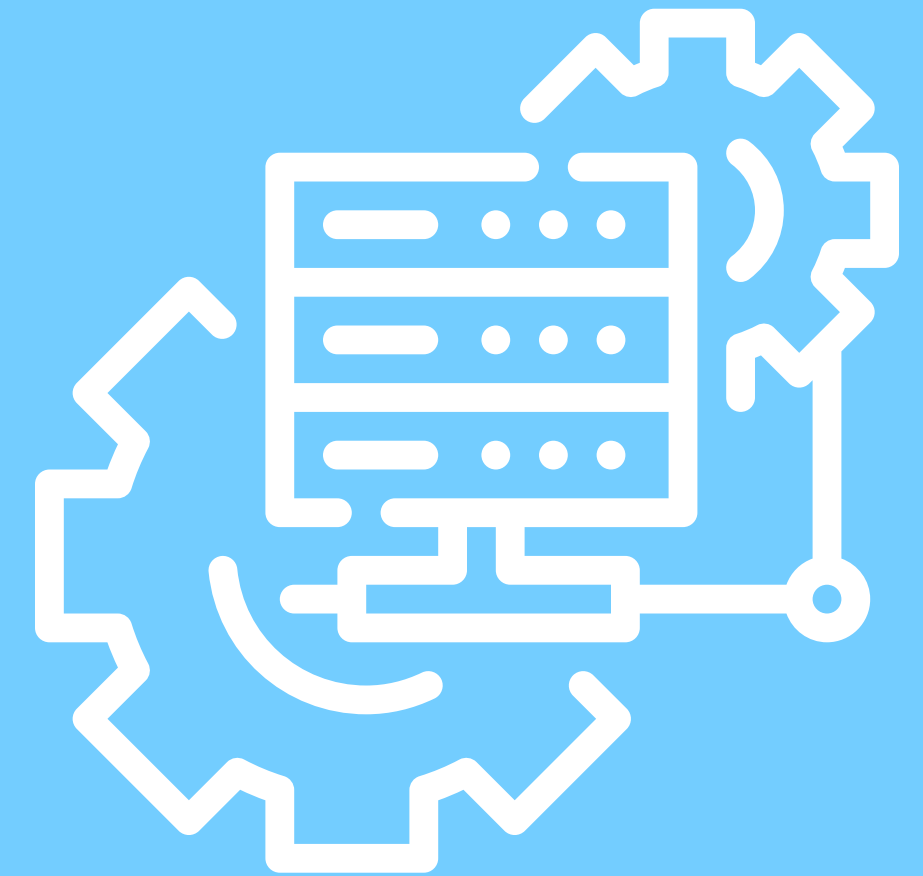
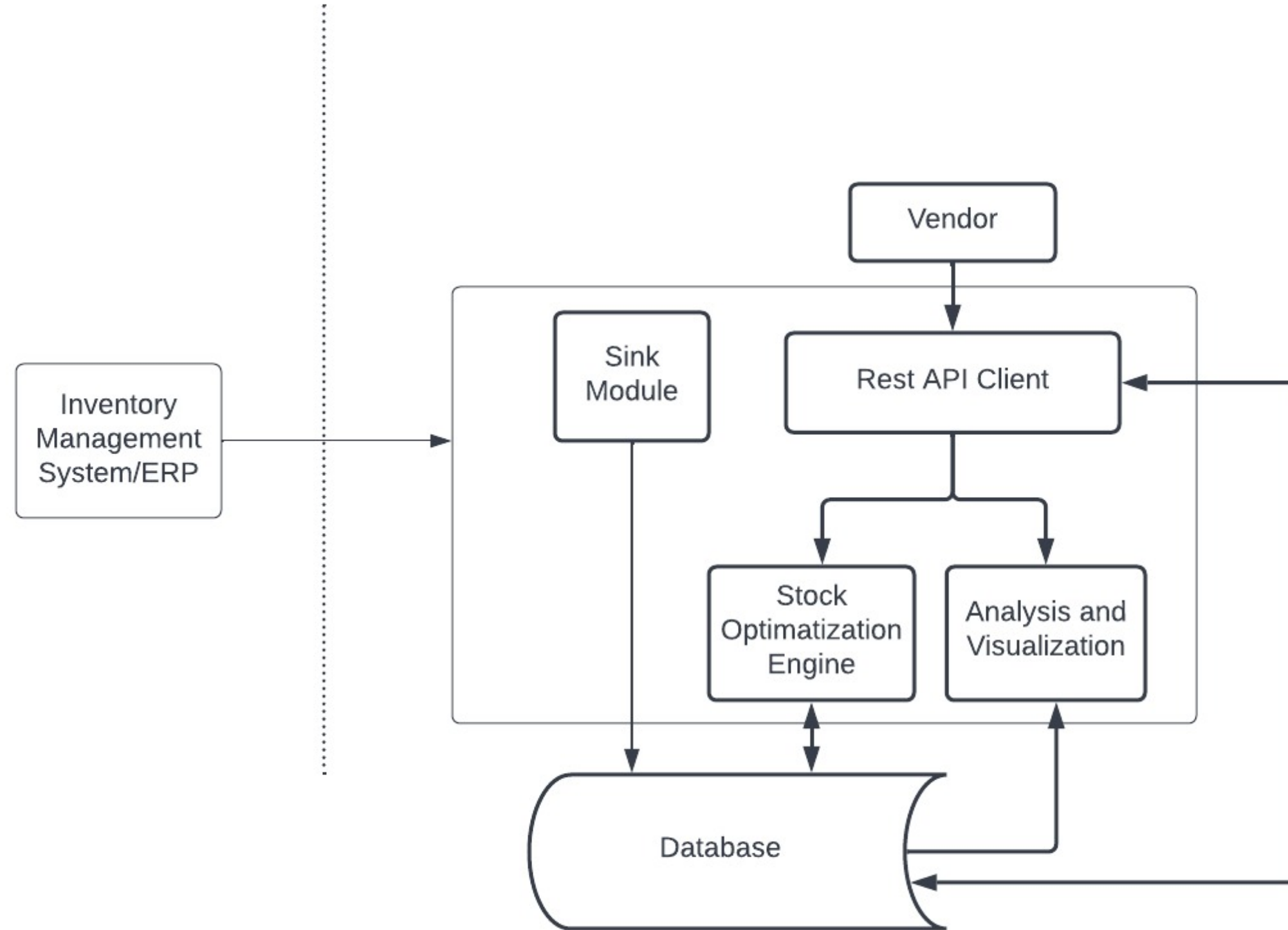
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Kacha Badam Company

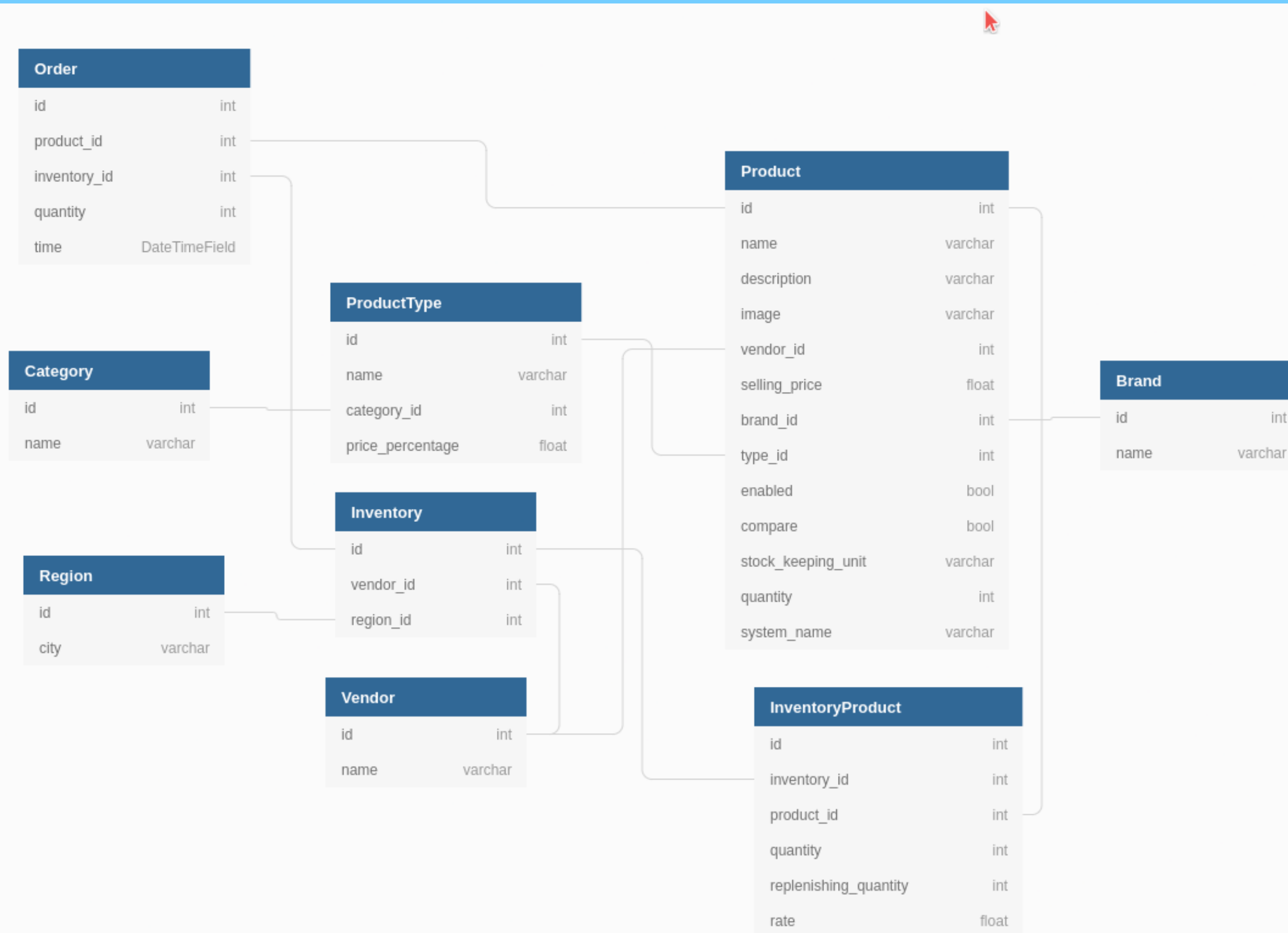
Future Roadmap

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- **Inter-store procurement:**
 - Providing inter-store stock procurement for small-scale single-chain businesses
 - Up/Down stocking products from other vendors to boost regional sales
 - **Up stocking suggestions for inter-store supply chain:**
 - Including multiple additional metrics (eg: upstocking fast selling products during price cut, time series evaluation for holidays and weekend trends, etc.).
 - **Incentivizing product down stocking to reduce overall loss in case of negative demands.**

System Diagram



ER Diagram



Tech Stack

- **Backend**

- Django
- DjangoRestFramework
- Heroku
- PostgreSQL

- **Frontend**

- Figma
- ReactJS
- React Bootstrap



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Thank you for listening!