



Buy & Sell

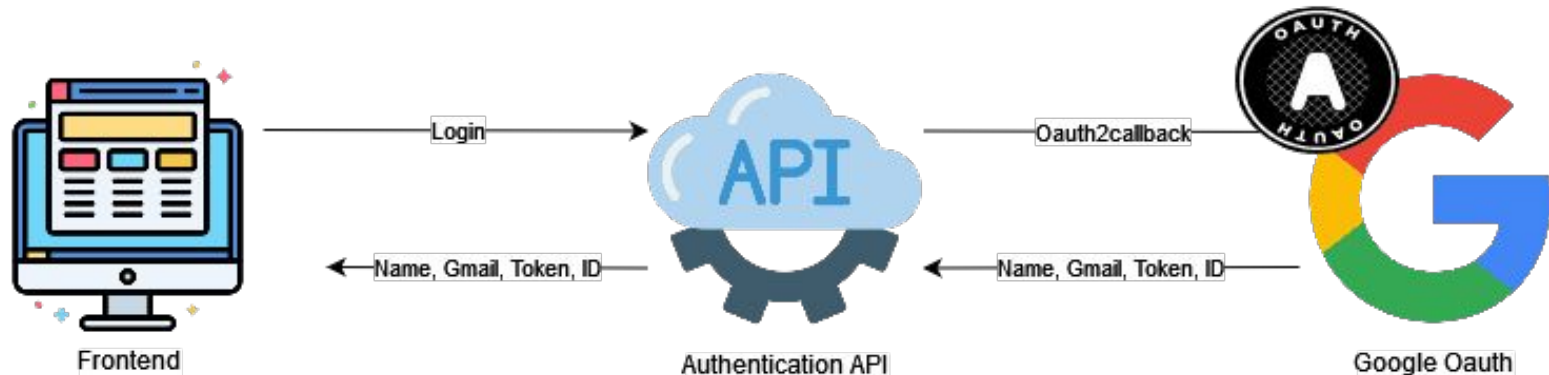
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# Overview

- A digital marketplace application that allows users to buy and rent products
- The application implements secure authentication and payment methods to ensure a safe and trustworthy experience for all users.
- Direct messaging feature is available for buyers and sellers to communicate and streamline the process of transactions.

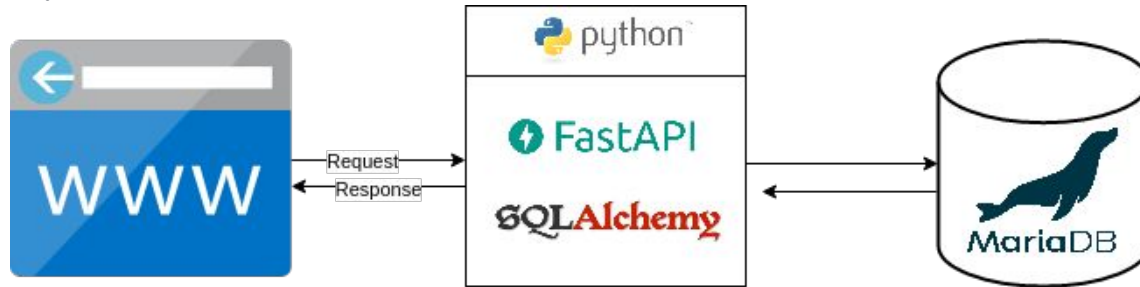
# Authentication

- Authentication is done using Google Oauth2 API
- Login successful returns the user's gmail, name and token



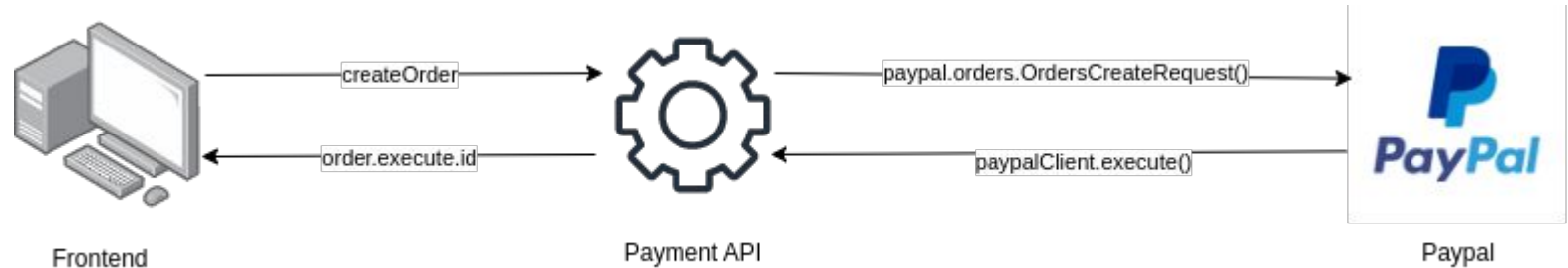
# Catalog/Stock

- Technologies used:
  - FastAPI
  - SQLAlchemy
  - MariaDB
- API Key Authentication:
  - To ensure secure access to the API, an API key authentication mechanism is implemented.

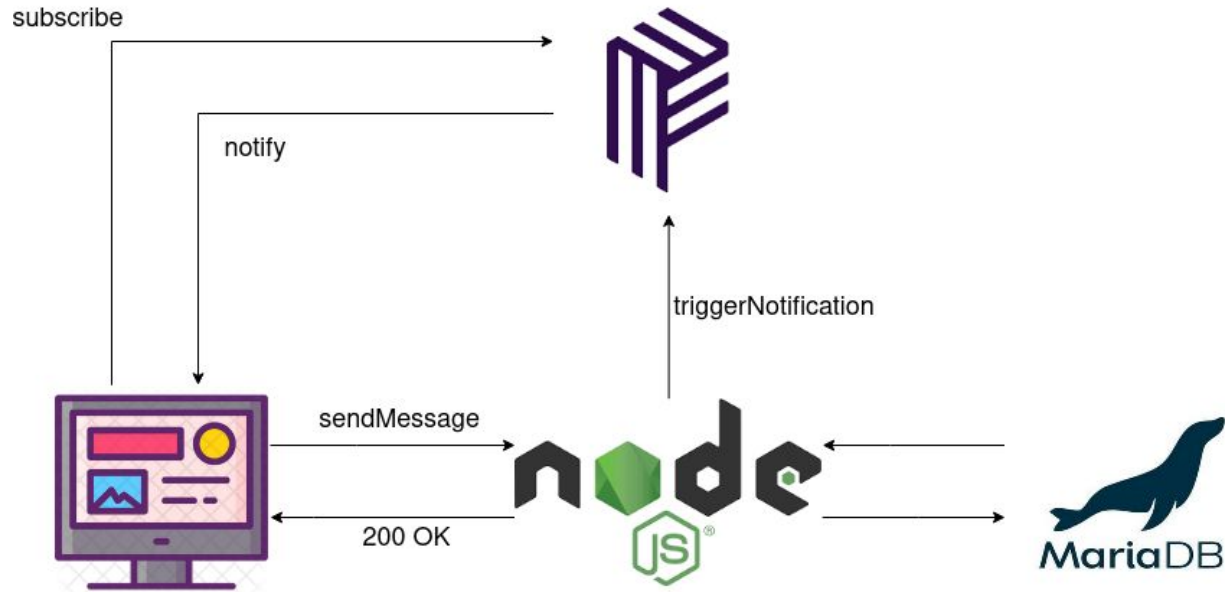


# Payment

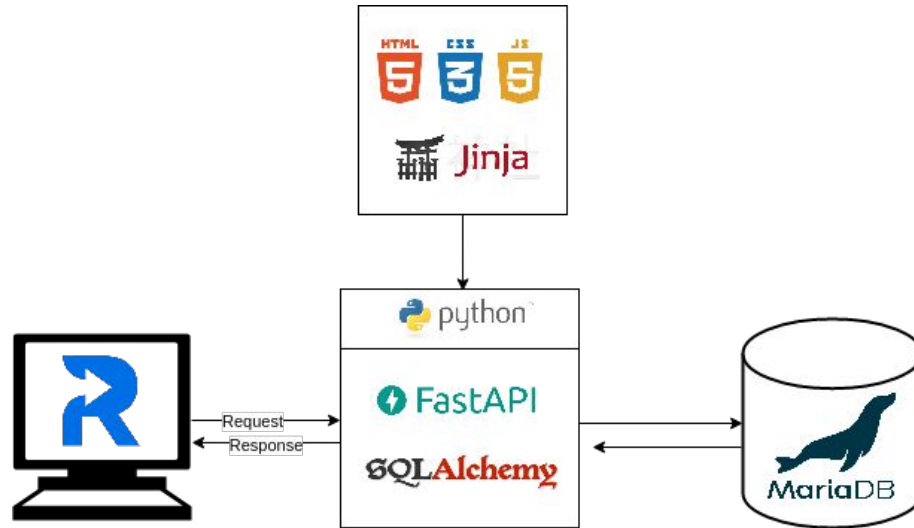
- Payment done through the Paypal API
- If payment is successful it returns the order id



# Direct Message System

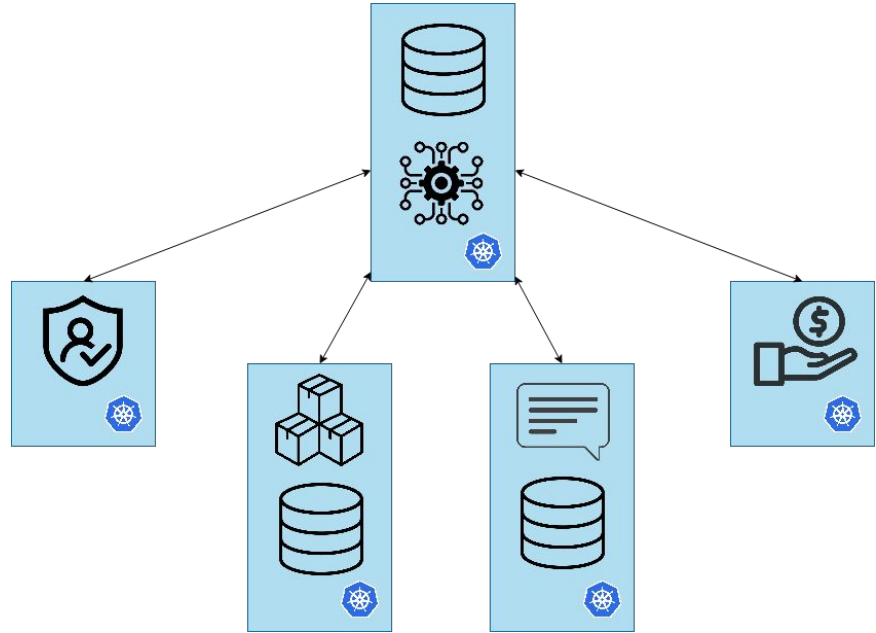


# Orchestration



# Deployment

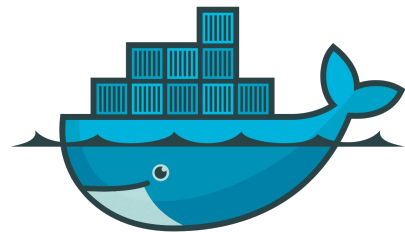
- All services are deployed within a Kubernetes cluster
- Orchestrator service communicates and coordinates the operations of all other services.





# Conclusions

- Gained experience building a Service Oriented App
- Learned useful technologies like Docker and Kubernetes
- Developed important troubleshooting skills



docker



kubernetes

# Code Repository



<https://github.com/itsimoes/EGS>

# Thank you!

