4CP33 - Full Semester External Project

ItemHive - Rent Your Needs

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Content

1. Introduction

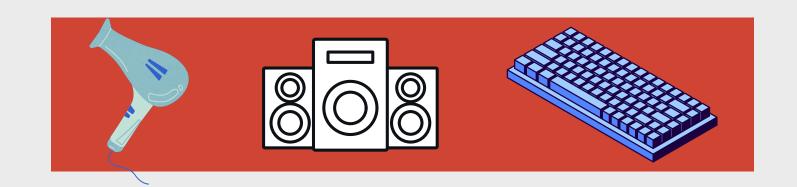
2. Diagrams

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Introduction

ItemHive is a robust rental marketplace designed to make renting items seamless, secure and efficient. It connects users within same locality ensuring hassle-free rental experience.

ItemHive provides various features like wide range of products, smart geolocation matching, AI powered recommendations, notifications and reminders for dure date and start date, and many more!

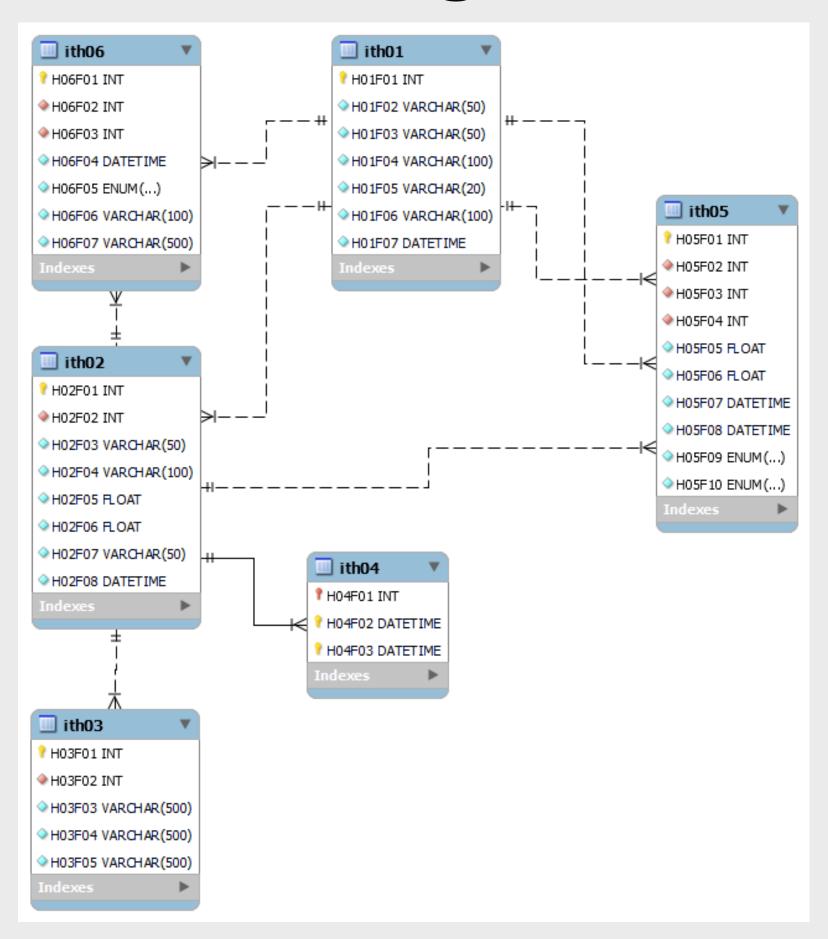




Diagrams

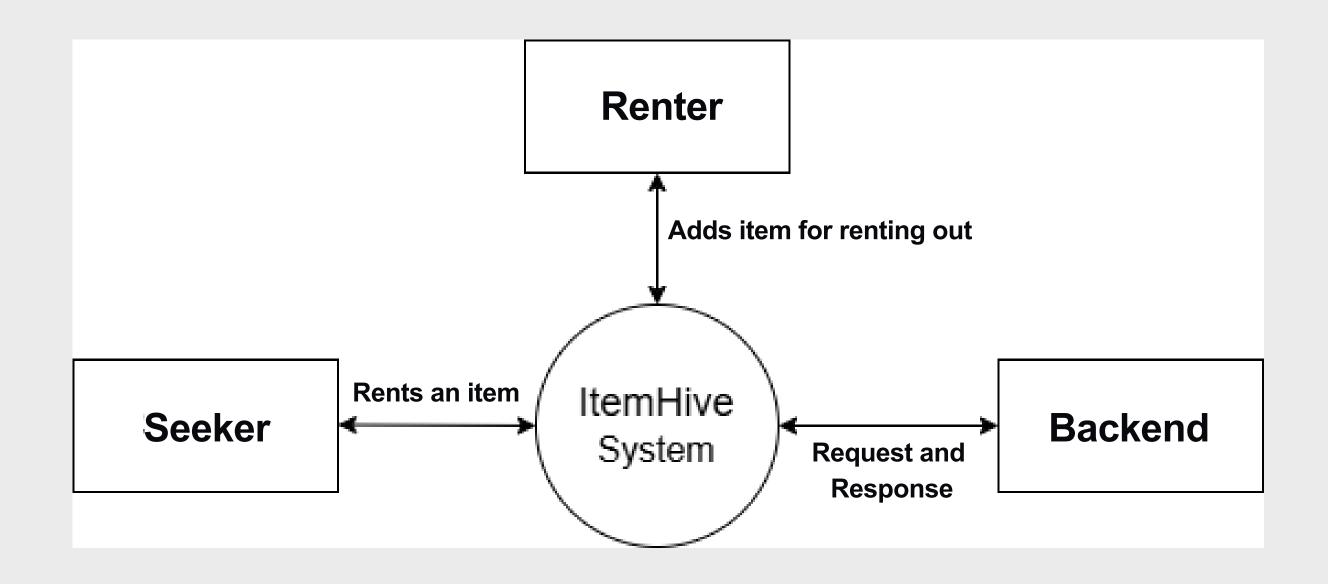


ER Diagram



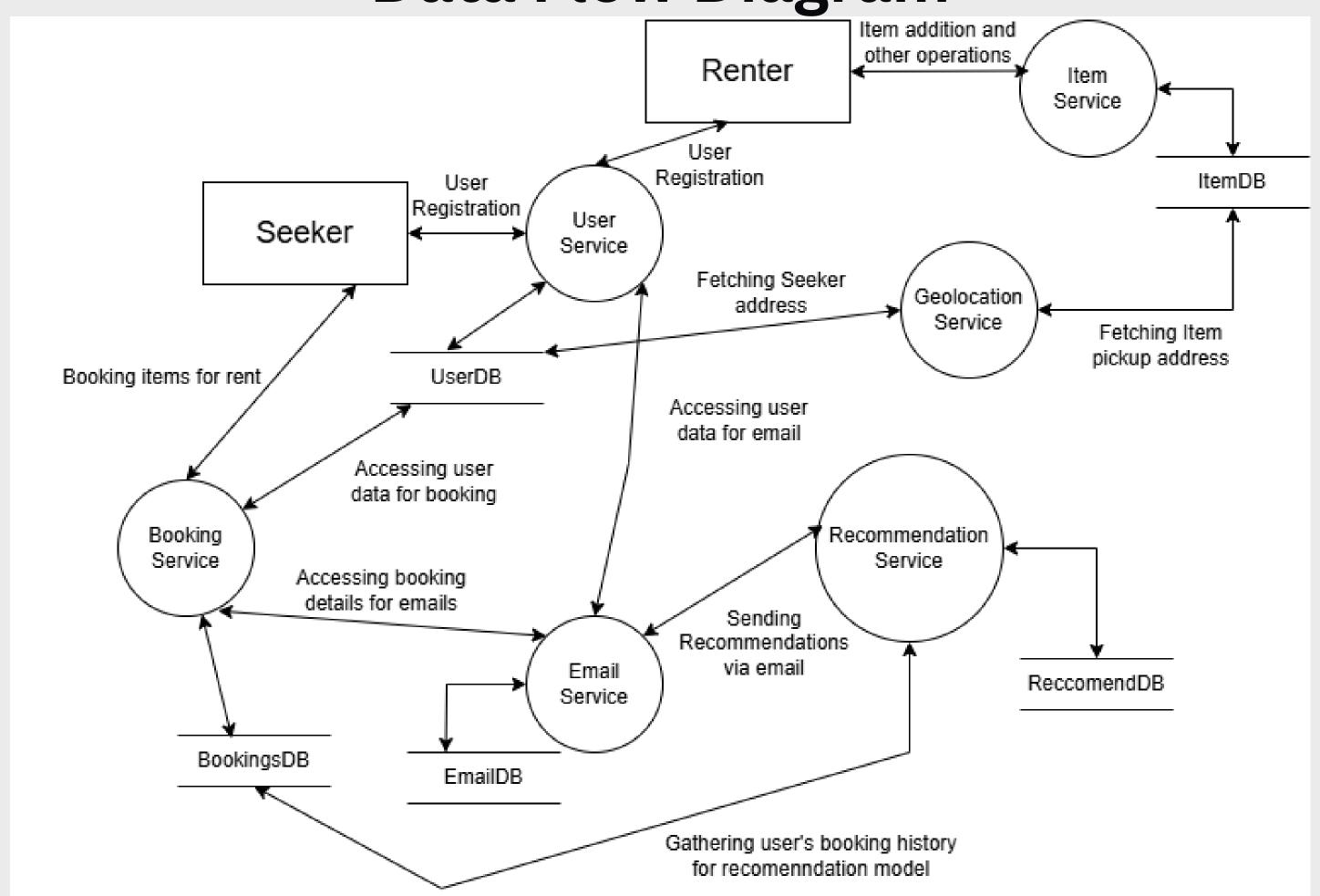


Context Diagram



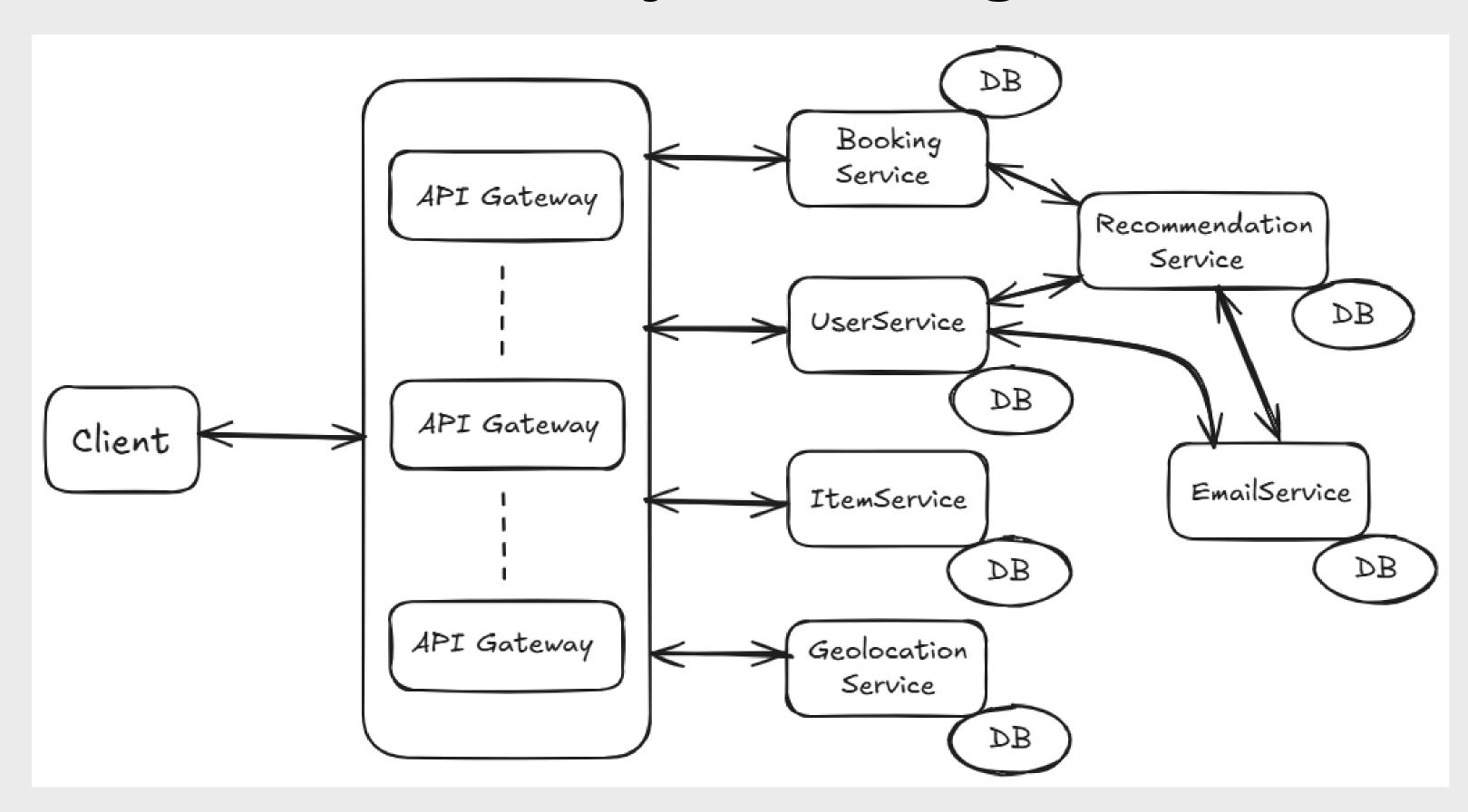


Data Flow Diagram





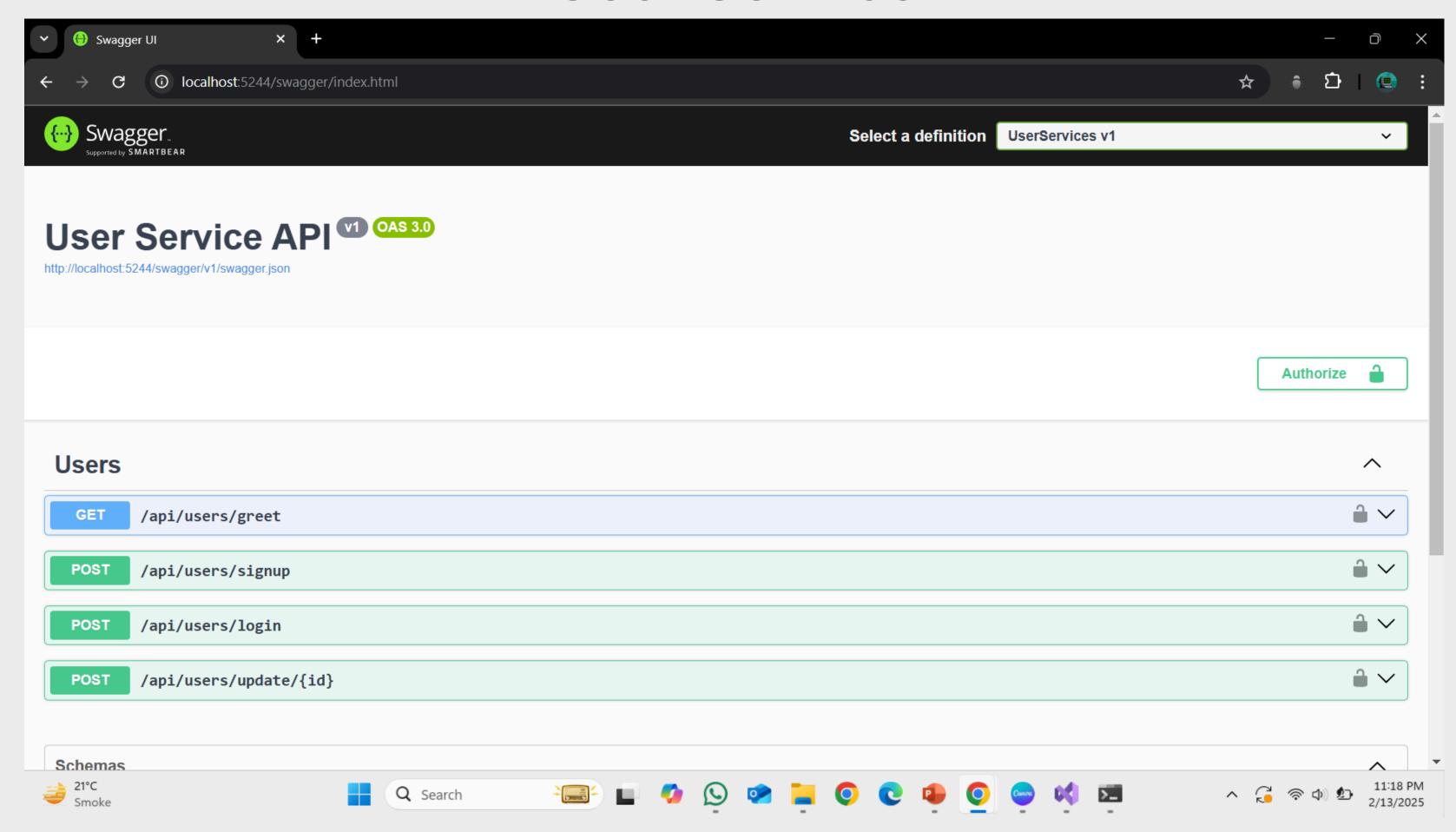
Basic System Design



Implementation

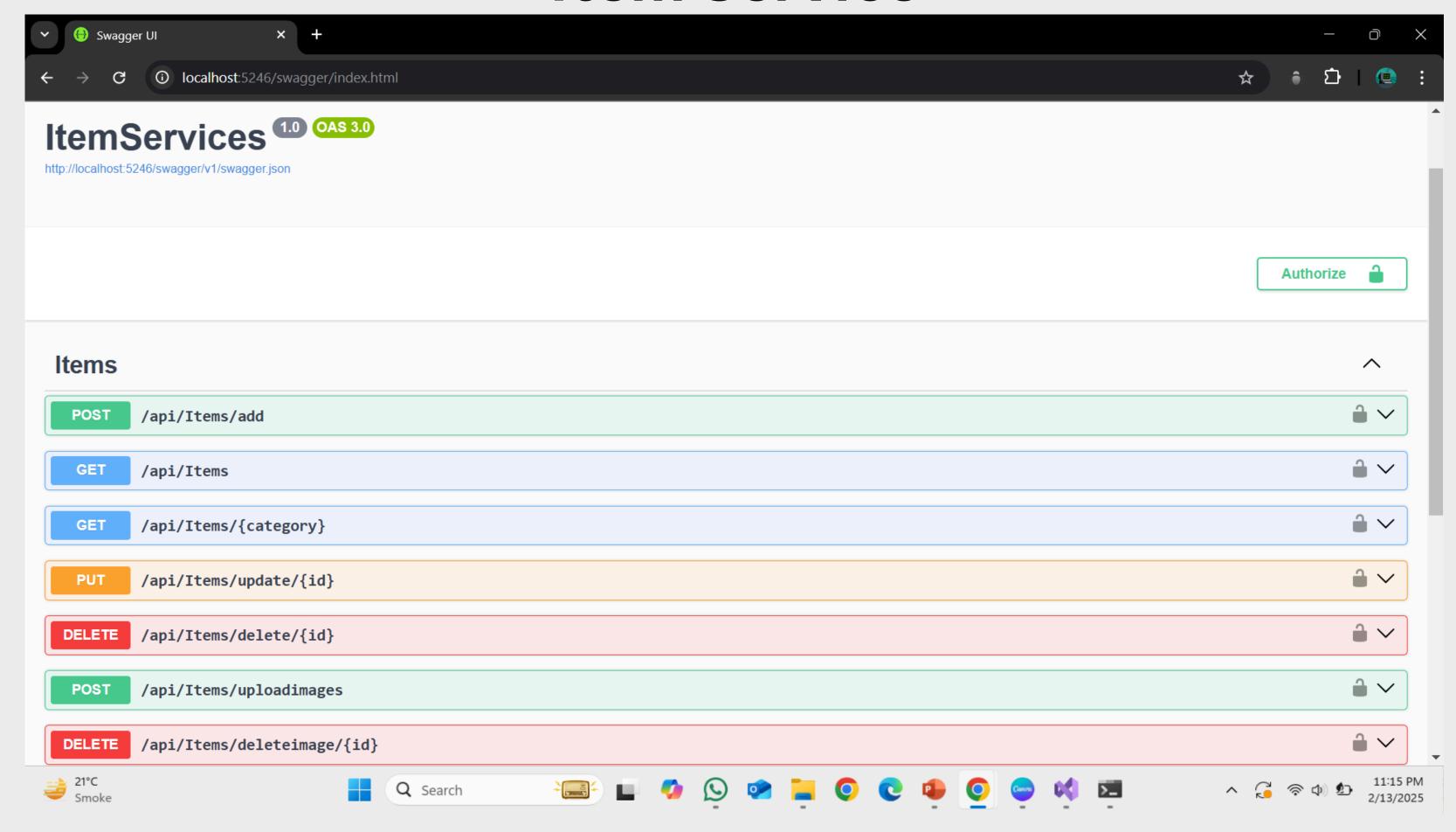


User Service



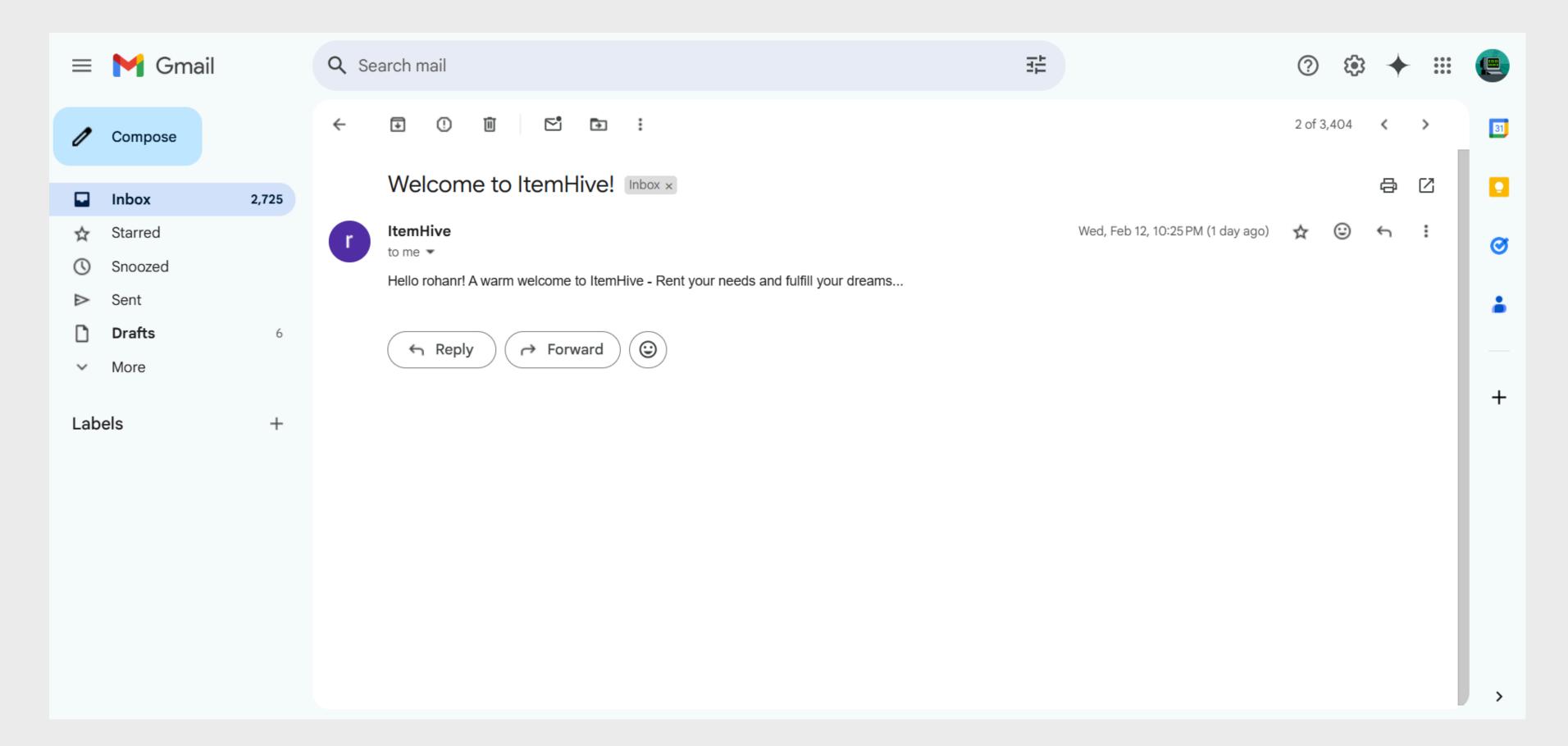


Item Service



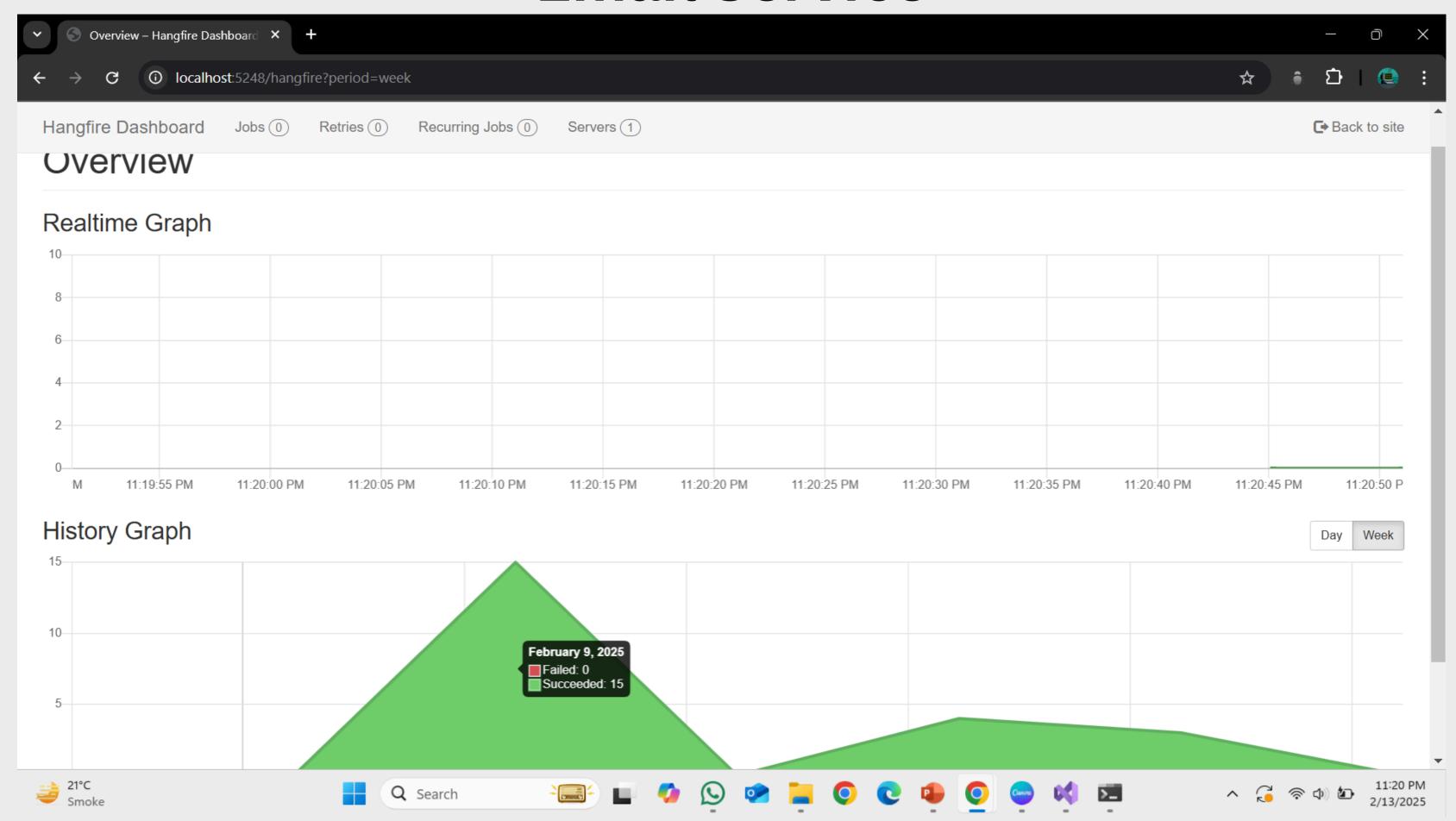


Email Service





Email Service





Key features

Item Monitoring

Managing calendar of every item to avoid uncertainities.

Smart Matching

Using geolocation techniques, shows the nearest Renter present in same locality.

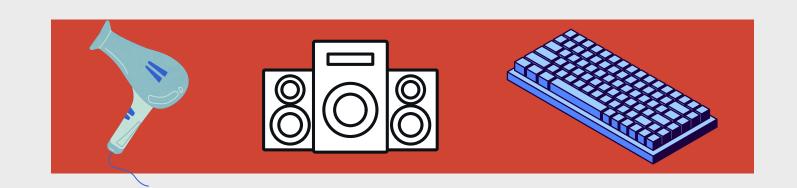
Recommendation System

Based on previous renting history of seeker, he/she will be recommended items via email services.

Availability

Ensuring proper load balancing by making use of Auto-scaling servers for various services.





Conclusion

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References

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Thankyou!