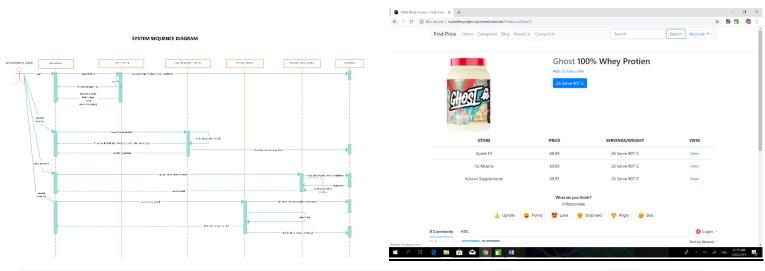
Supervisor: Clement Sudhakar Swarnappa



Click here to enter text.

INTRODUCTION

The project built a price comparison website for gym supplement products, addressing a gap in the market. This website will help the buyers to compare supplements prices listed on different websites and save time. Visitors can view the latest prices offered by various e-retailers along with discounts deals and best prices across all the e-retailers when searching for the product they desire to buy. The fitness industry is an untapped territory and my client is interested in seizing this opportunity to partner a personal trainer-referral service, leveraging the traffic to monetise and advertise his referral business.

DEVELOPMENT

The methodology used for this project is KANBAN. The reason for selecting Kanban was that this methodology allows for visual signals if there are any issues with achieving project goals as well as it allows for continuous improvements by obtaining client feedback early in the process. As I was the only team member for this project, Kanban was a better approach than scrum.

The project started by creating a work task list which included all the requirements for the client. I had set work limits to pick up 3 tasks at any given point and work through the task list. This helped me to stay focus and produce some deliverables which can be shared with the client and get feedback throughout the process.

Extensive testing using external services was undertaken, and proved very valuable in detecting problems. Tests included:

- 1. Penetration test using pentesttools.com
- 2. Interface testing automated with Katalon Recorder
- 3. Google page insights report

Technologies used included LINQ queries efficiently to retrieve and modify data. I wrote few complex queries where I wrote query inside another query. I used Gridbox for my CSS frontend framework. An Admin Panel JSON API was also developed so it can be called via Ajax to retrieve product information. I learned how important is to secure a website and which ways it can hacked or manipulated. SHA256 encryption was implemented on all sensitive data like user password.

CONCLUSION

All the objectives mentioned above have been achieved. A working solution was delivered to the client within agreed timeframes. All the requirements for MVP have been implemented.

The future enhancements which can help to make this product better.

- 1. Product price alerts for Users.
- 2. An AI tool to help users to find a perfect supplement for them.
- 3. Trainers space to share product reviews and fitness blogs.
- 4. Video reviews for products
- 5. Product Micronutrients Information