**Online Shopping Cart Project**

1. **Team Introduction:**

**Member:**

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1. **Case Study:**

Unlike others online shopping cart project. Because of unhealthy food, polluted environment, it causing health problem to human. So my **One Man Sale** sell health products to handle these problem. With features:

-User Login/Logout.

-Different Page for Admin/User.

-CRUD Products.

-Add to Cart/Remove from Cart/View Cart.

-Checkout.

1. **Database Design:**

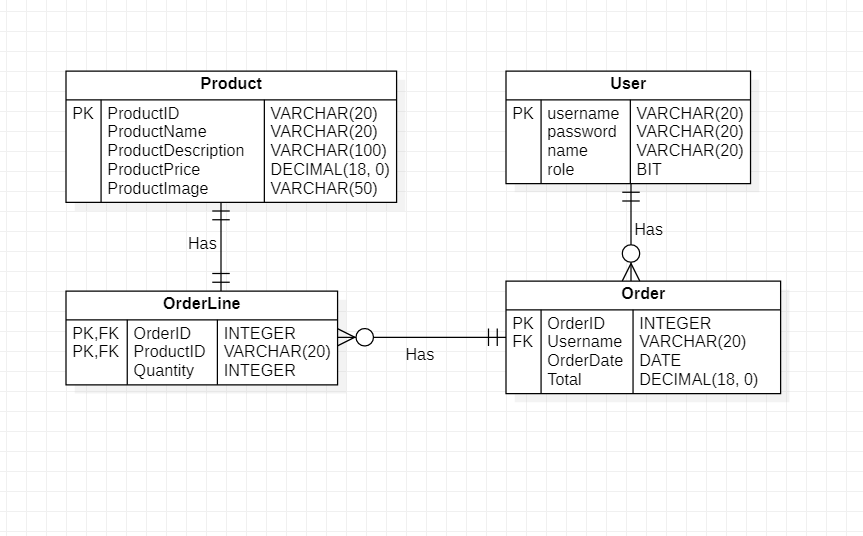


Figure . ER Diagram

1. **System Design:**

I design the system based on MVC Model 2 with:

Product/User/Order DTO, DAO as Model

JSP as View

Java Servlet/ Filter as Controller

SQL JDBC as Database Management System

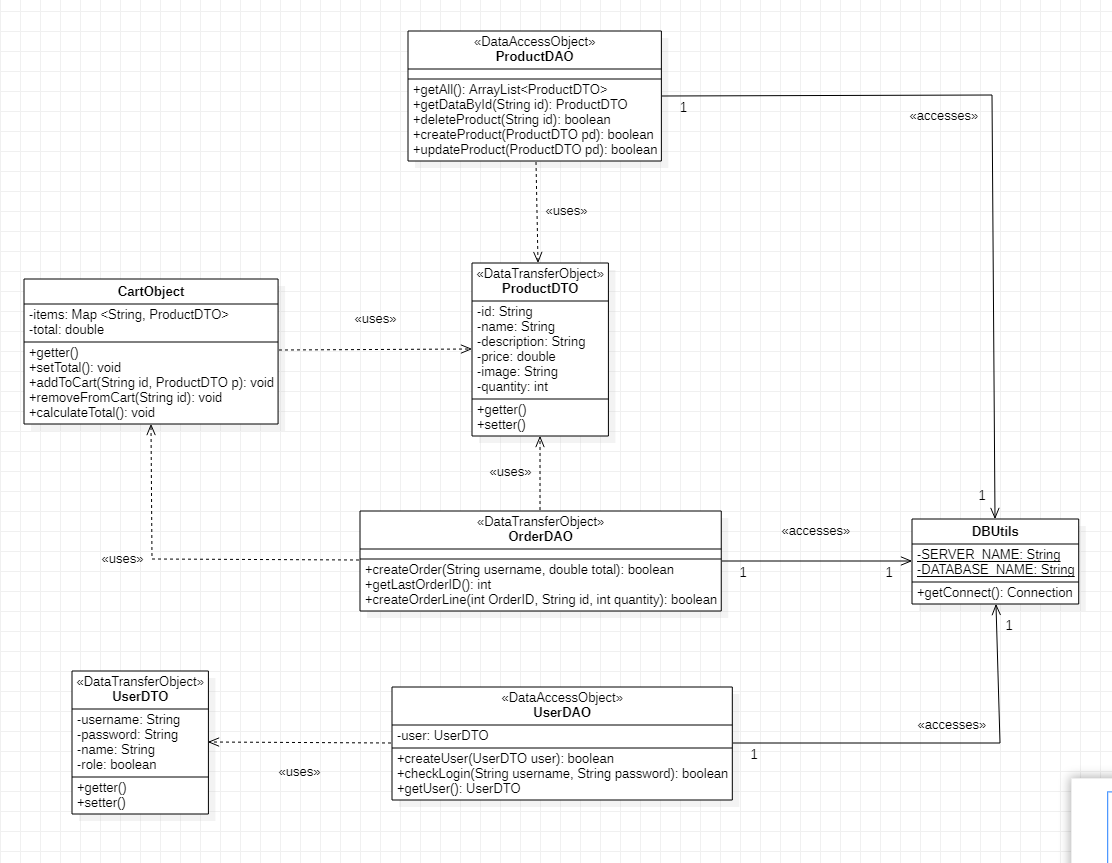


Figure 2. Class Diagram

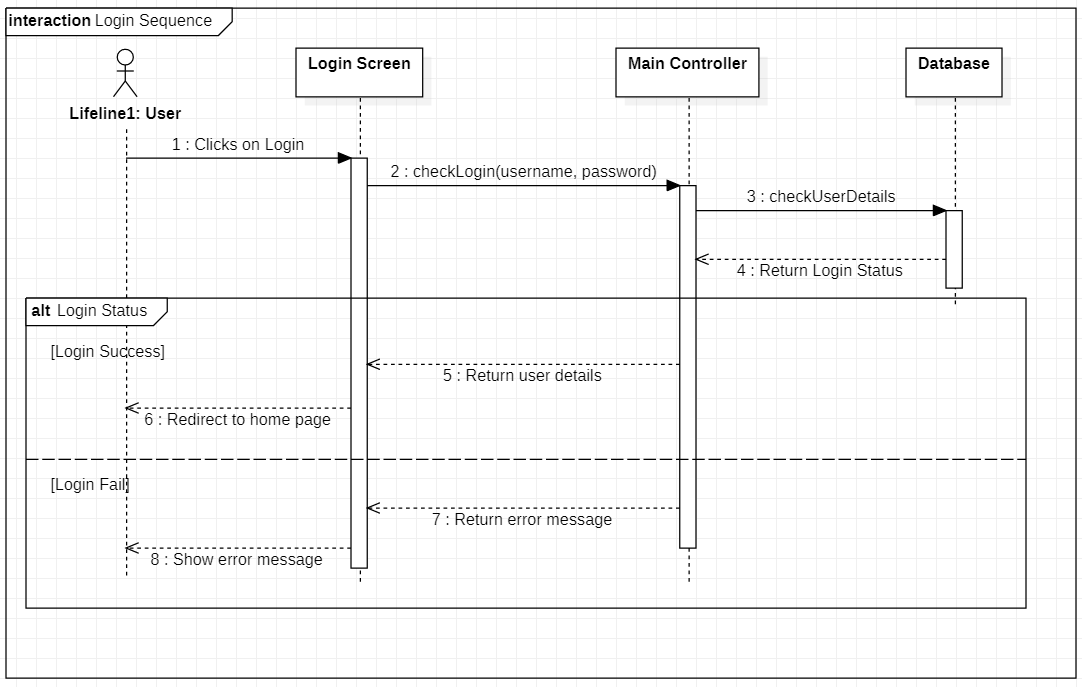


Figure 3. Login Sequence Diagram

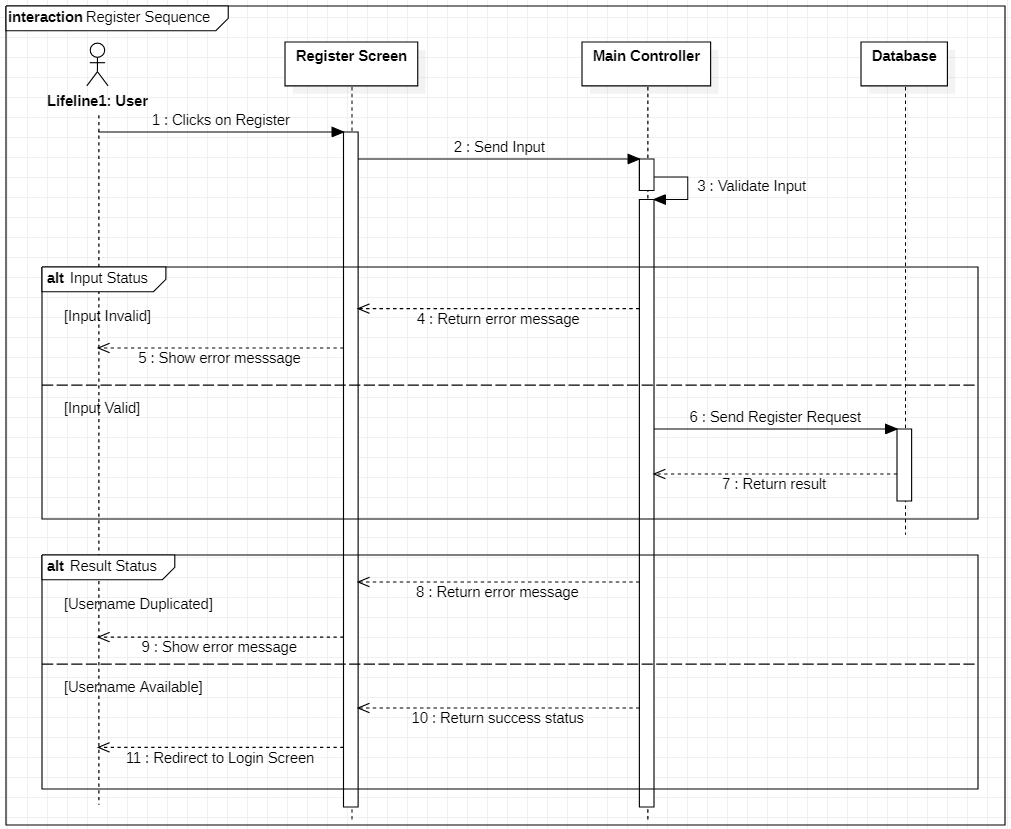


Figure 4. Register Sequence Diagram

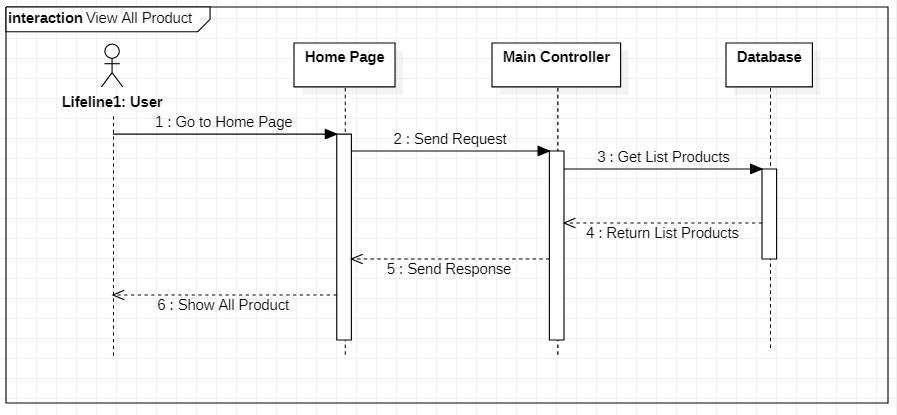


Figure 5. View All Product Sequence Diagram

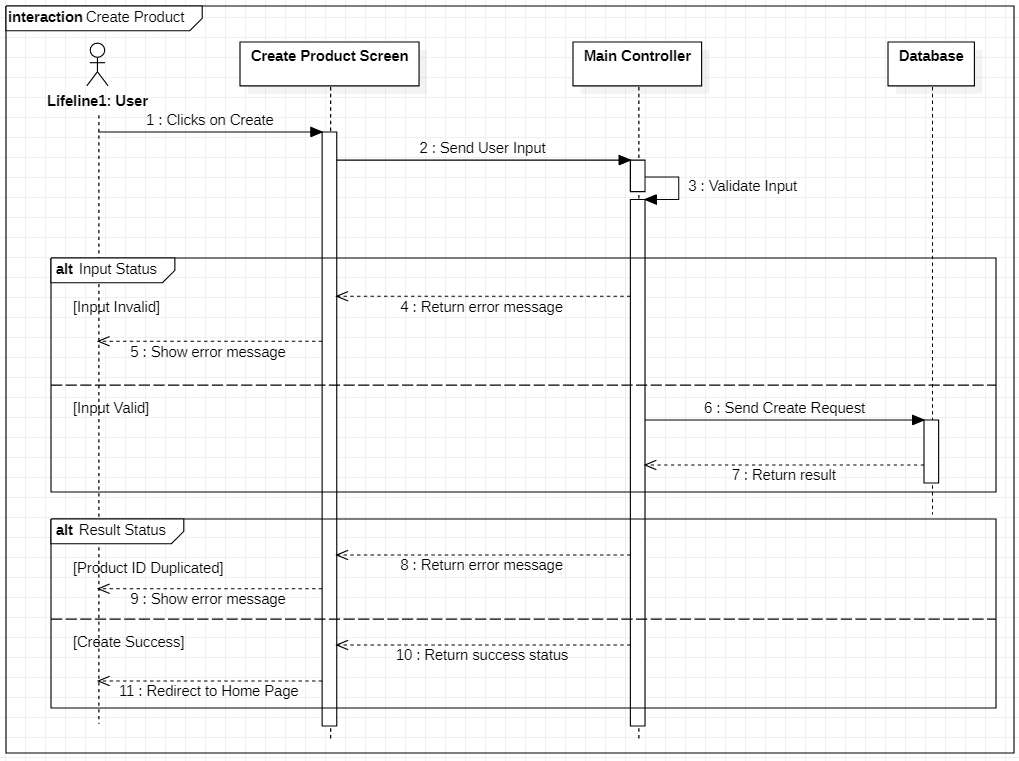


Figure 6. Create Product Sequence Diagram

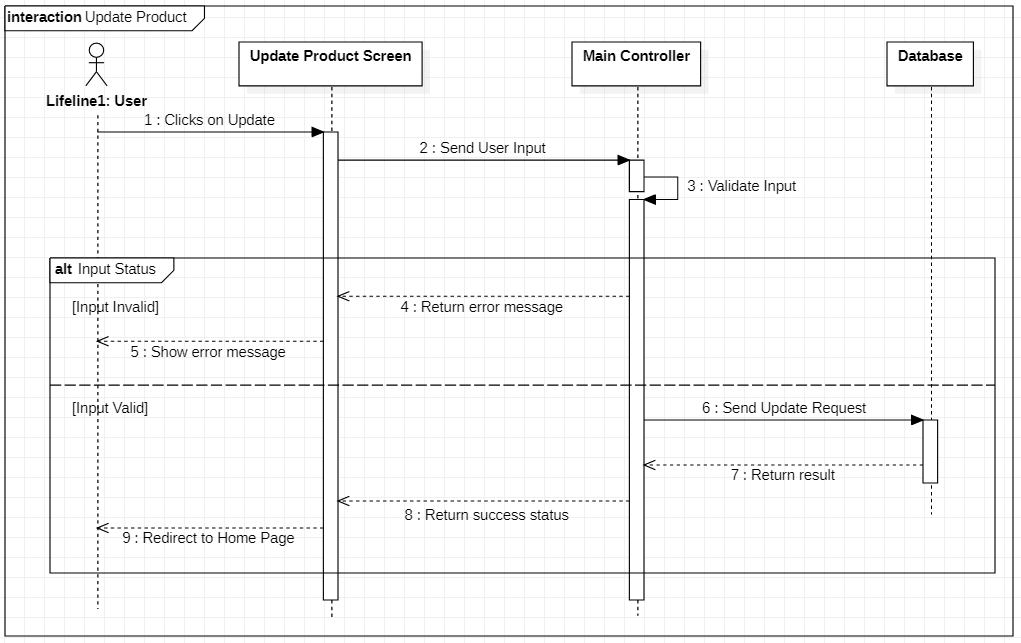


Figure 7. Update Product Sequence Diagram

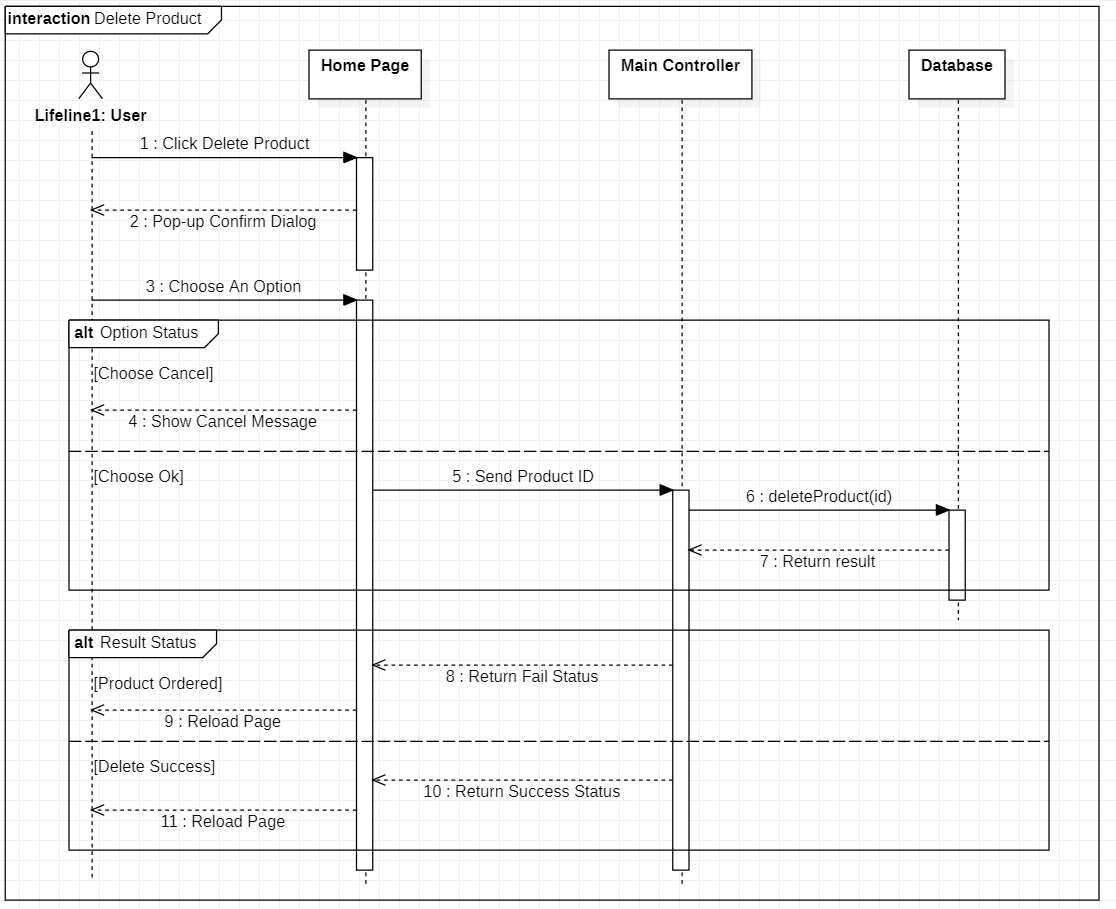


Figure 8. Delete Product Sequence Diagram

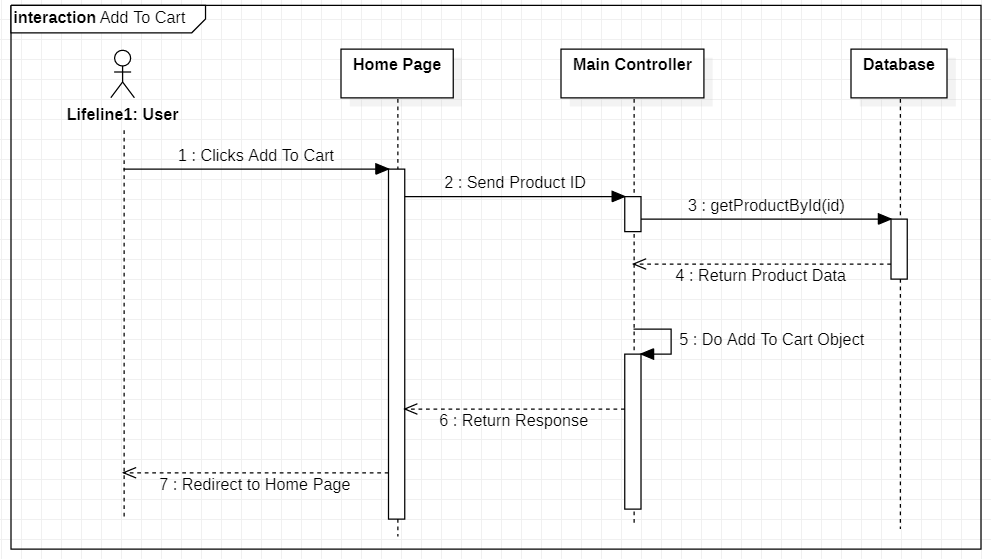


Figure 9. Add to Cart Sequence Diagram

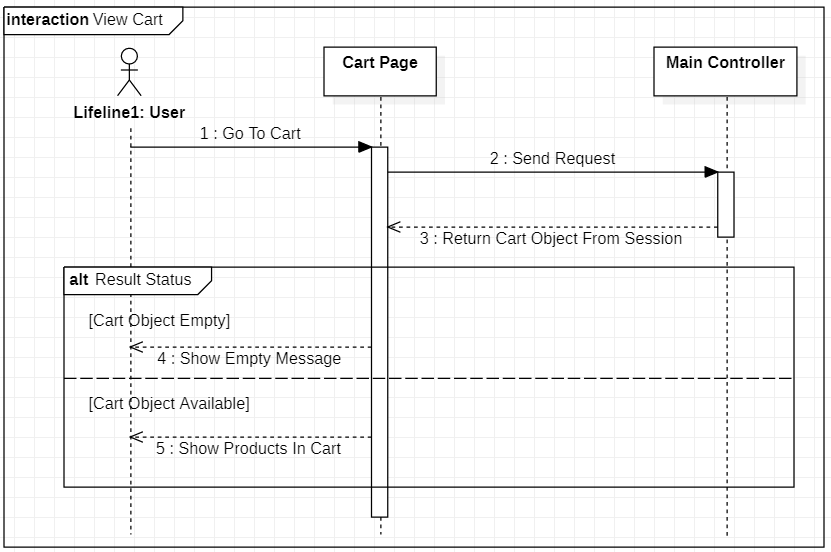


Figure 10. View Cart Sequence Diagram

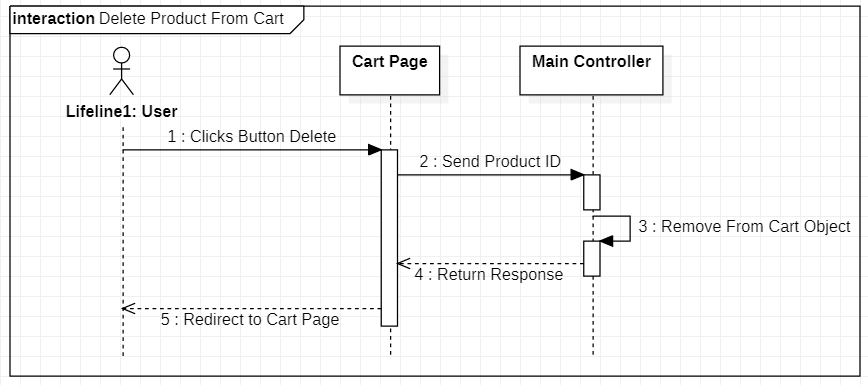


Figure 11. Delete Product from Cart Sequence Diagram

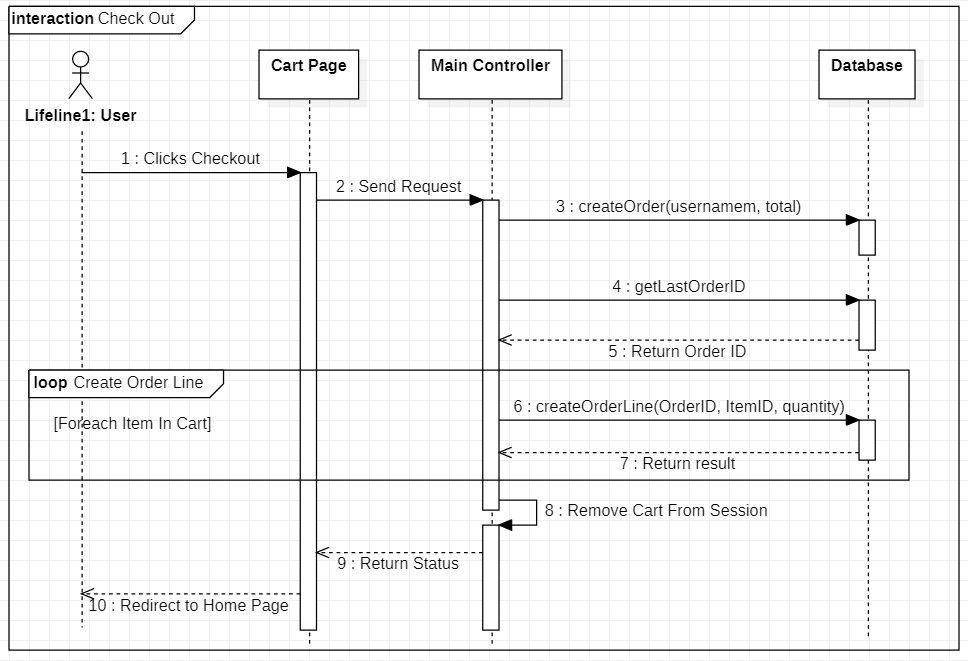


Figure 12. Check Out Sequence Diagram

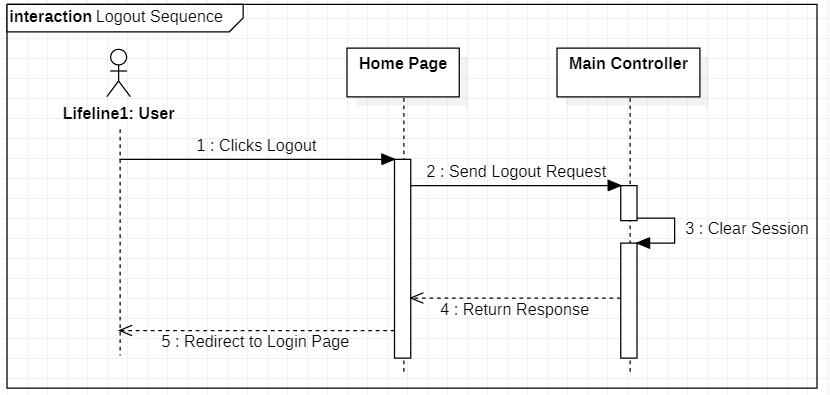


Figure 13. Logout Sequence Diagram

1. **Screenshot:**

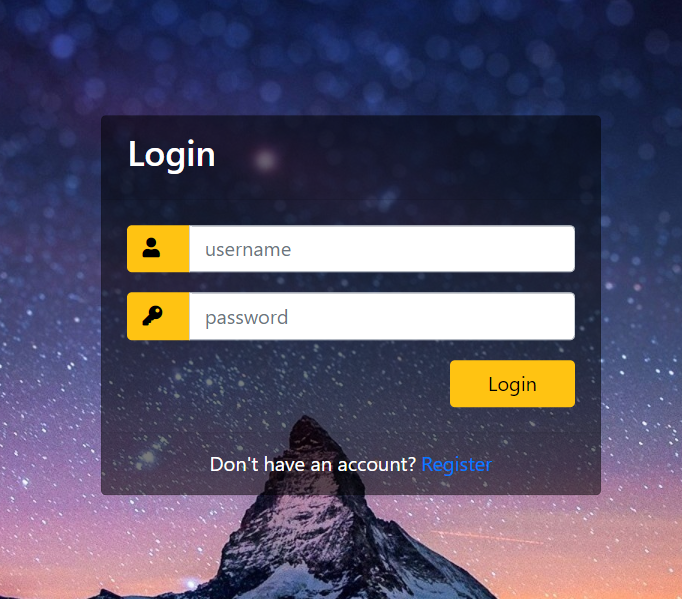


Figure 14. Login Page

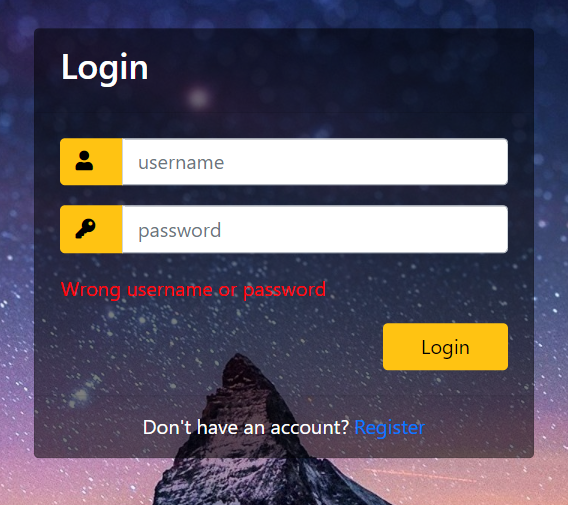


Figure 15. Login Page Error Message

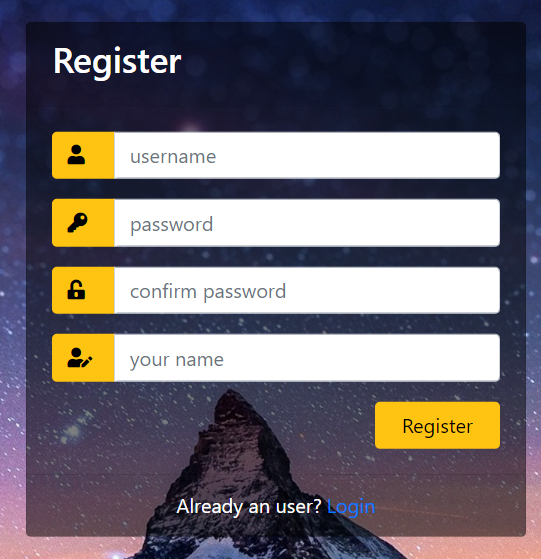


Figure 16. Register Page

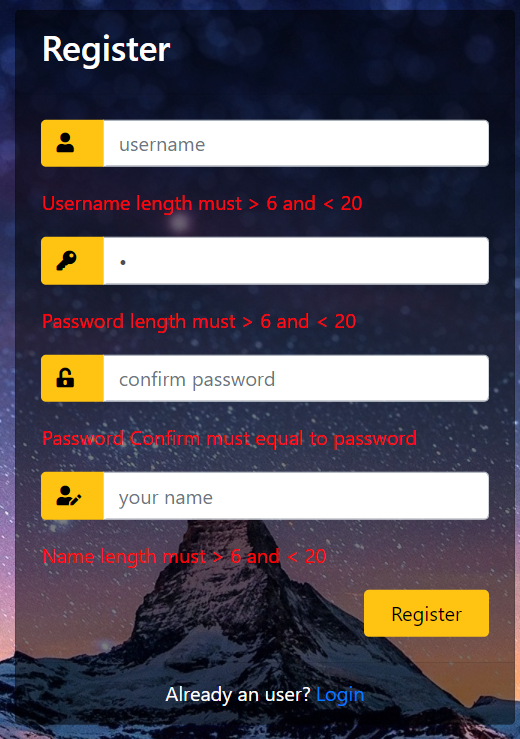


Figure 17. Register Page Error Message

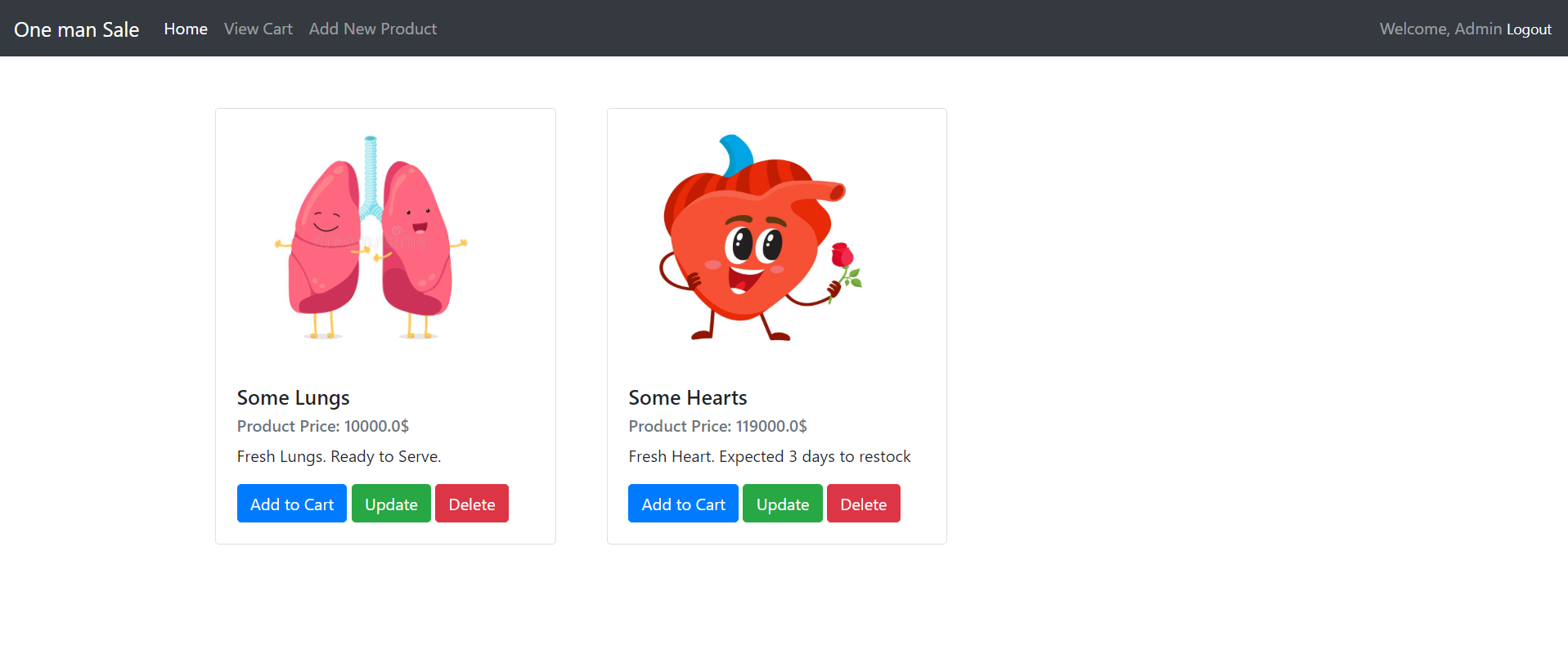


Figure 18. Home Page as Admin

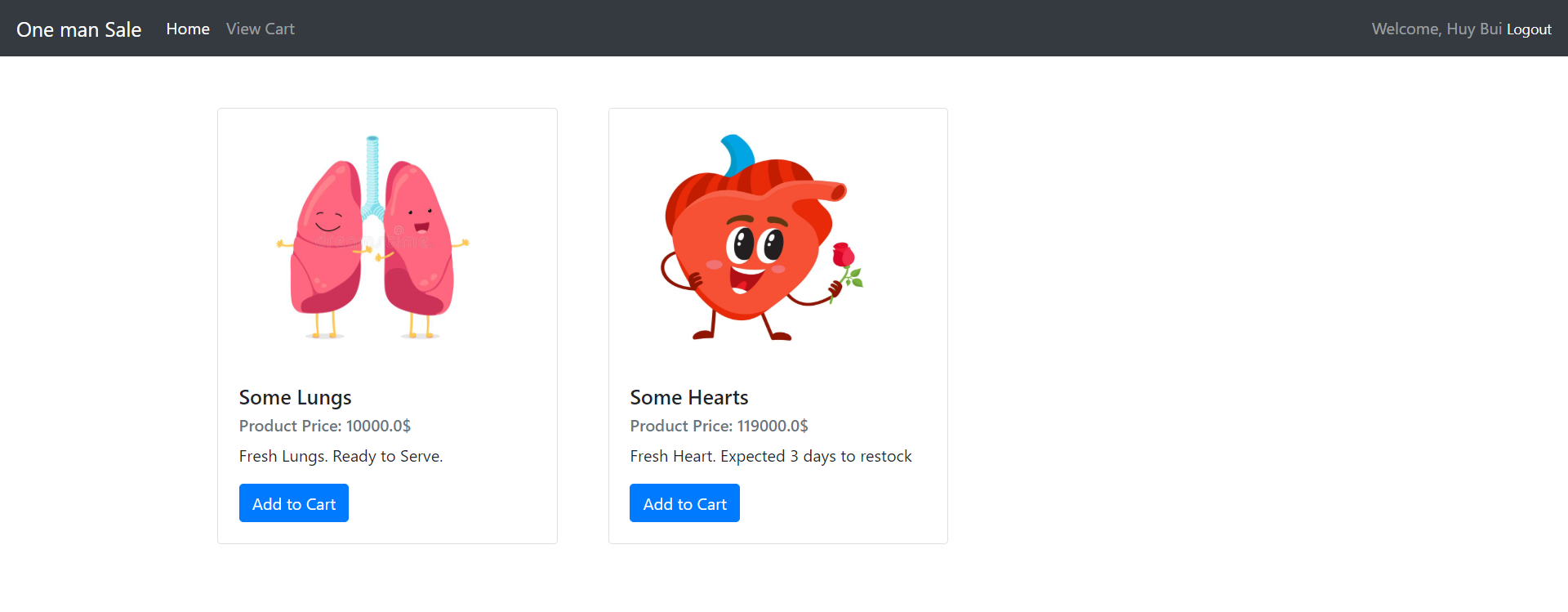


Figure 19. Home Page as User

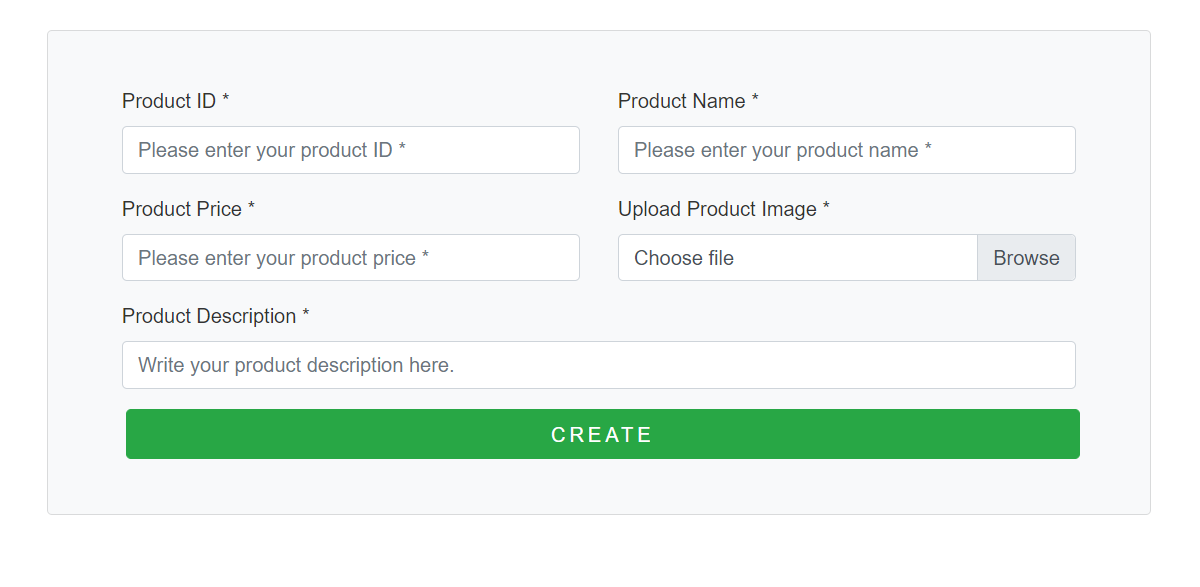


Figure 20. Create Page

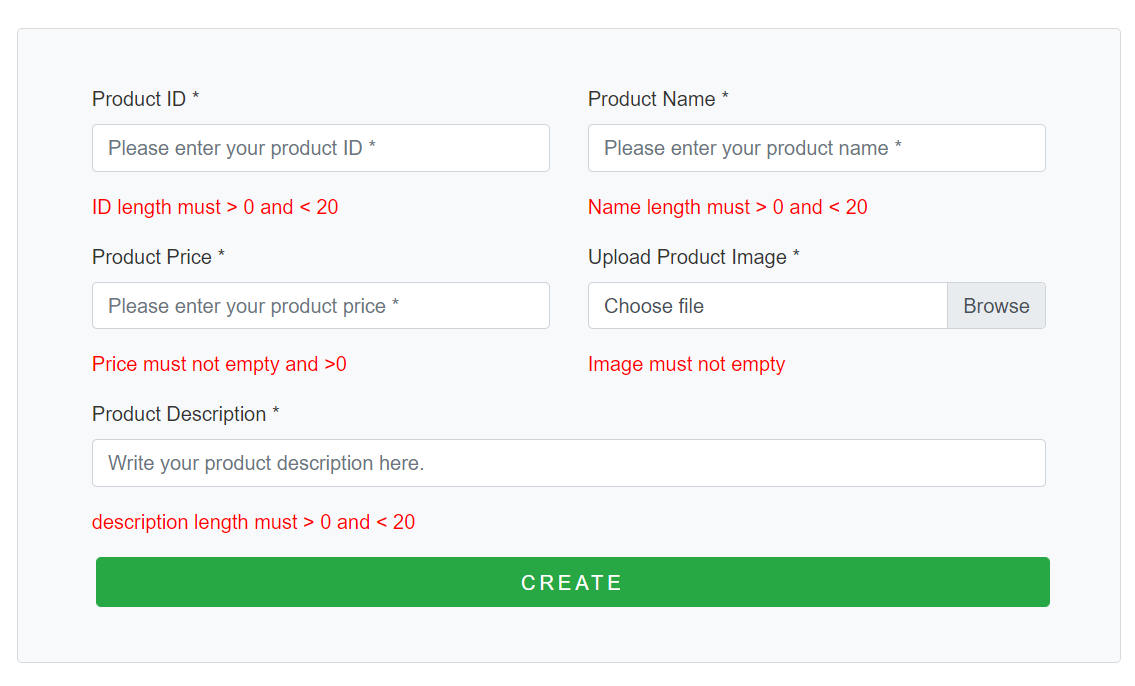


Figure 21. Create Page Error Message

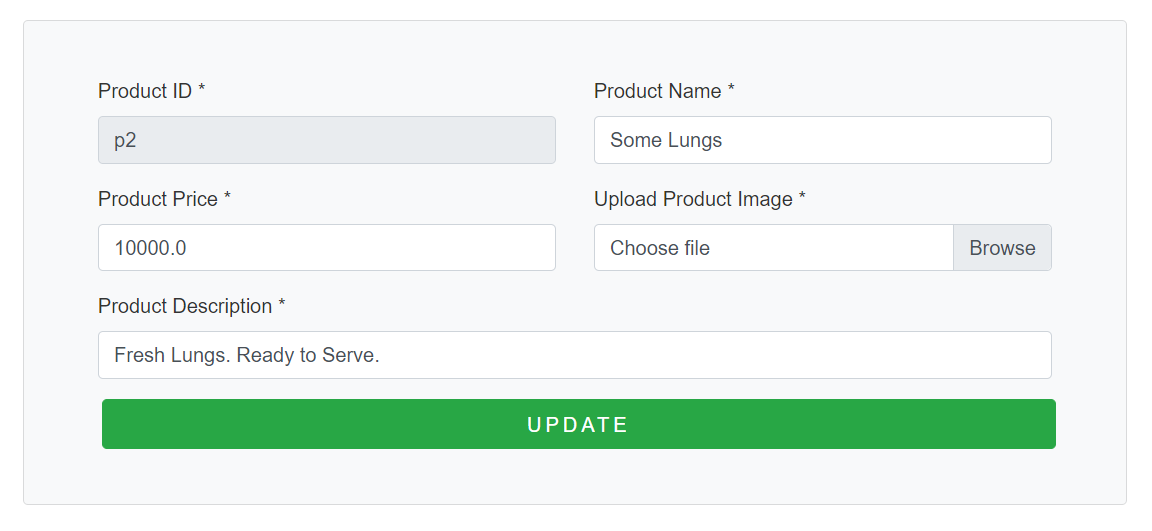


Figure 22. Update Page

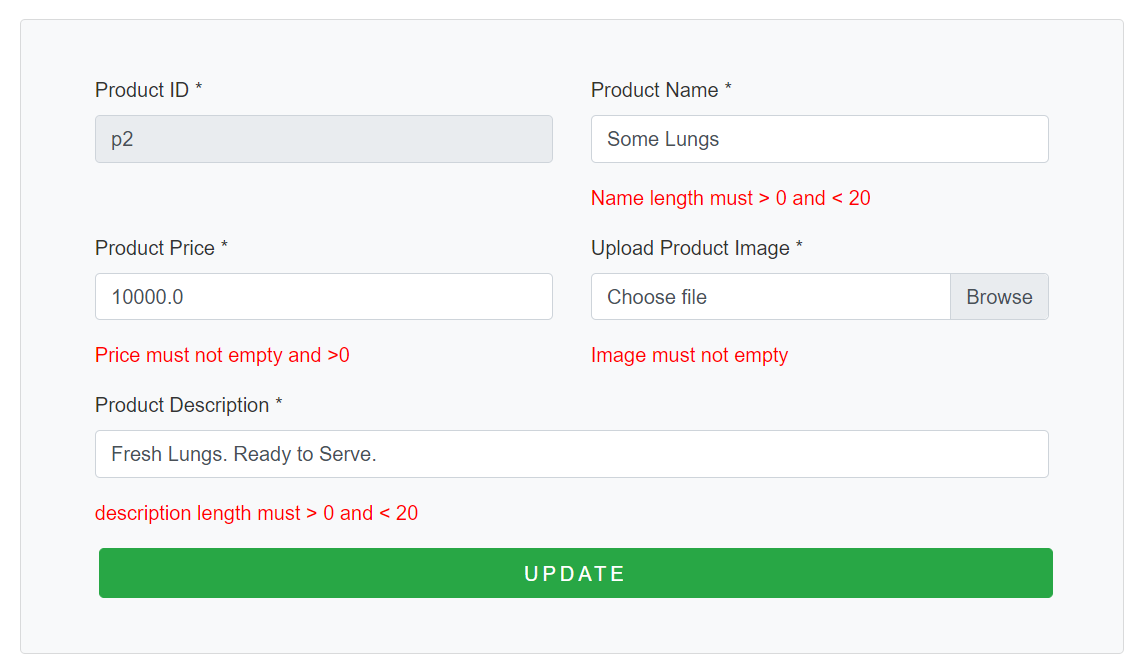


Figure 23. Update Page Error Message

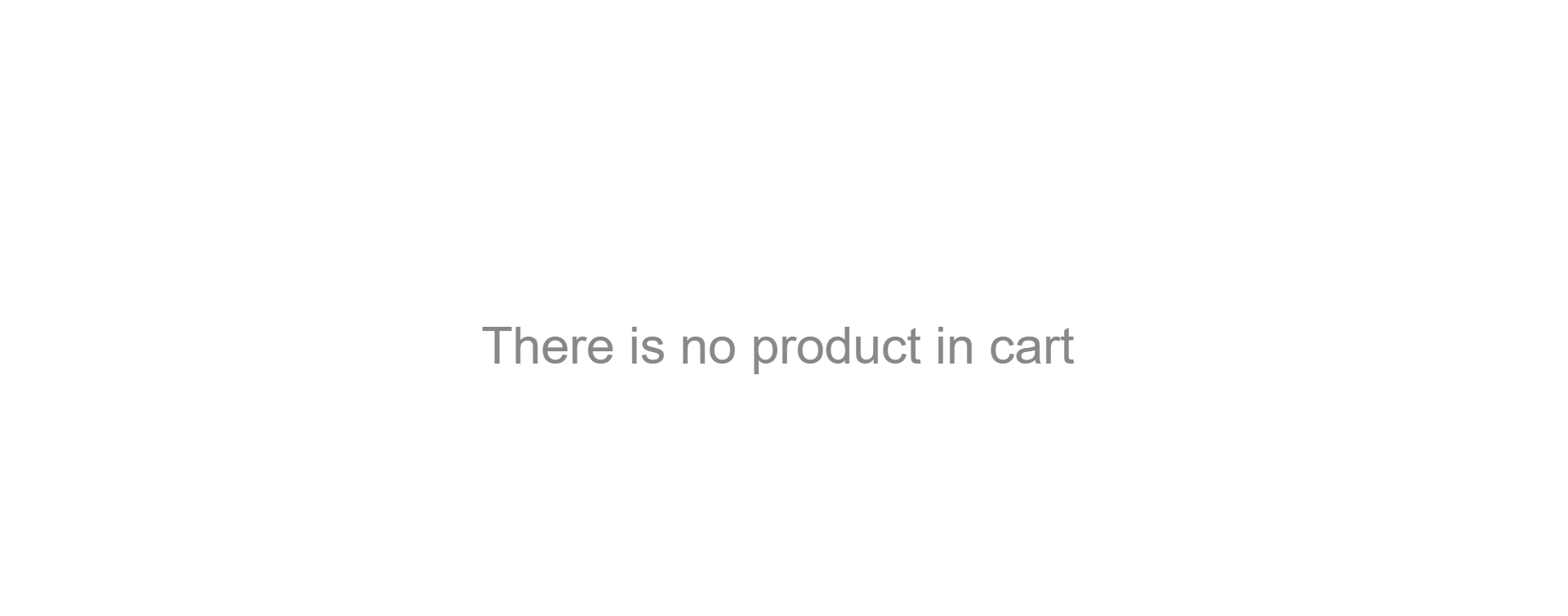


Figure 24. Cart Page when no product added

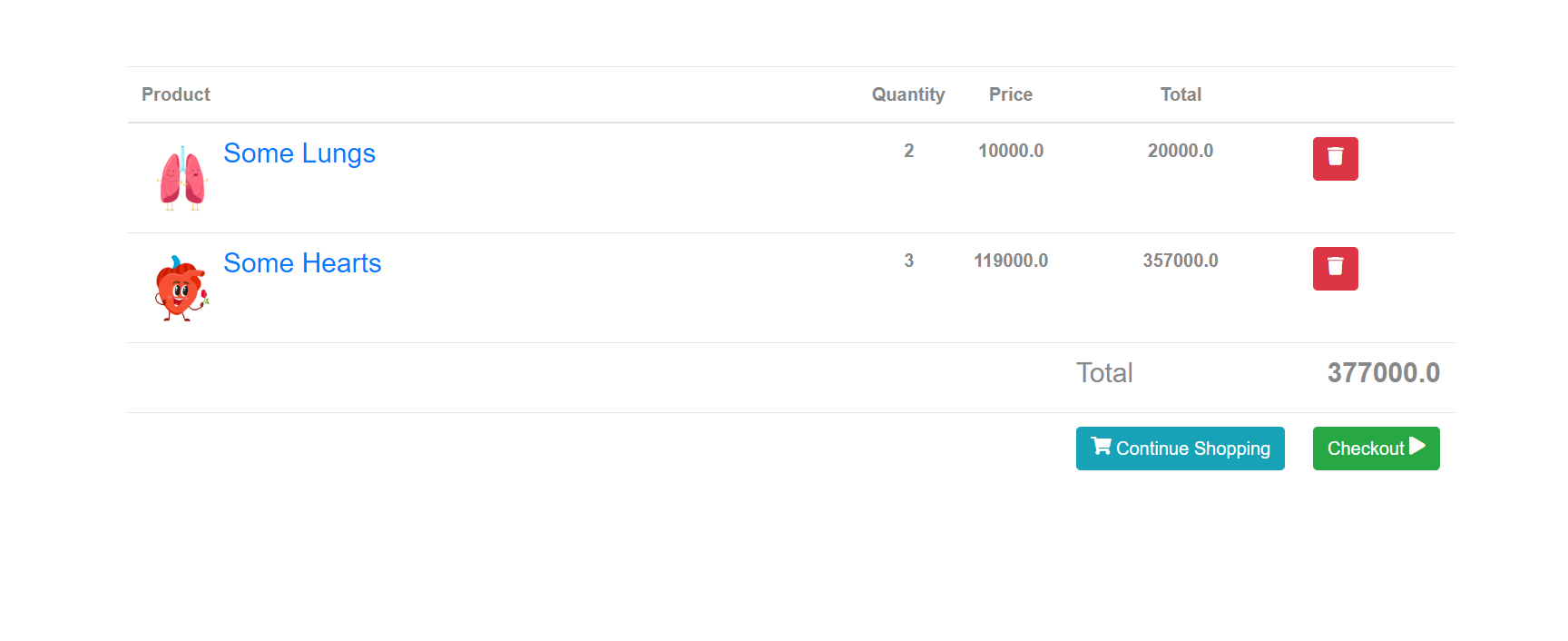


Figure 25. Cart Page with products added

1. **Conclusion and Discussion:**

Pros: Easy to use, maintain, scale project.

Cons: Lack of security implementation, might be attacked by hackers.

I learned how to build web app from 0, using MVC model 2 with Servlet Controller. Learned how to write the specification of my project.

If having more time, I will improve the UI/UX, add more features, secure my web app.

1. **Contribution:**

|  |  |  |
| --- | --- | --- |
| **Topic** | **Team**  **Effort** | **HuyBA – SE140028** |
| **Case Study Analysis** | 100% | 100% |
| **Database design** | 100% | 100% |
| **System design** | 100% | 100% |
| **Implementation** | 100% | 100% |
| **Documentation** | 100% | 100% |