

Spring 2023

Course Name: CSC 3323 Course Number - Section 02

Milestone 2

Student's Name: Maissae Azaroual, Adnane Ahroum, Selma Habhouba

Supervised by: Dr. Bouchaib Falah

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2.1. Requirements Specification

2.1.1. Functional Requirement:

- 1. The system shall allow customers to view the menu of different lighting options.
- 2. The system shall allow customers to select and add items to their orders from the menu.
- 3. The system shall allow customers to view their order history.
- 4. The system shall allow customers to track their orders in real-time.
- 5. The system shall provide customers with information on discounts and prices for various types of lighting.
- 6. The system shall generate invoices that include the exact amount owed.
- 7. The system shall not provide any additional accounting functionality or payment processing features.
- 8. The system shall allow customers to create and manage their user profiles.
- 9. The system shall allow customers to view the status of their orders, such as whether they have been confirmed or shipped.
- 10. The system shall allow customers to cancel their orders before they are shipped.
- 11. The system shall provide customers with the ability to customize their orders, such as choosing specific color or size options.
- 12. The system shall provide customers with the ability to rate and review products they have purchased.
- 13. The system shall send notifications to customers about order status updates, discounts, and promotions.
- 14. The system shall provide customers with a search functionality to easily find specific products or categories.
- 15. The system shall provide customers with a contact form or chat feature to reach customer support for any questions or concerns.
- 16. The system shall allow customers to view their order history and previous invoices.
- 17. The system shall allow customers to save their preferred payment methods for future orders
- 18. The system shall allow customers to add and manage multiple shipping addresses.
- 19. The system shall provide customers with the ability to view and redeem loyalty points or rewards.
- 20. The system shall provide customers with the ability to view the availability of products in real-time.
- 21. The system shall provide customers with the ability to share products or promotions on social media platforms.
- 22. The system shall provide customers with the ability to leave feedback or suggestions for the company.
- 23. The system shall allow customers to view the estimated delivery time of their orders.
- 24. The system shall provide customers with the ability to place repeat orders for frequently purchased items.
- 25. The system shall provide customers with a user-friendly interface and easy navigation to enhance the overall user experience.
- 26. The system shall perform validity checks on all inputs to ensure that they are in the correct format and within acceptable limits.

- 27. The system shall execute a specific sequence of operations when processing orders, which includes confirming the order, preparing the order, and delivering the order.
- 28. The system shall handle abnormal situations such as overflow, communication failures, and unexpected errors by displaying error messages and providing options for recovery or retrying the operation.
- 29. The system shall take into account any specified parameters, such as the customer's location or delivery preferences, when processing orders and generating invoices.
- 30. The system shall ensure that there is a clear relationship between the inputs and outputs, including specific input/output sequences and formulas for converting inputs to outputs.
- 31. The system shall provide customers with an easy-to-use interface for inputting their order details and selecting payment options.
- 32. The system shall provide real-time updates on the status of orders and any changes to delivery schedules.
- 33. The system shall provide customers with clear and concise instructions on how to use the app, including how to place orders, track orders, and manage their account settings.
- 34. The system shall be designed to handle high traffic volumes and ensure that the app remains responsive and stable even during periods of peak demand.

2.1.2. Non-Functional Requirement:

- 1. Performance: The system should be responsive and provide quick response times to user requests.
- 2. Reliability: The system should be highly reliable and available at all times, with minimal downtime or disruptions.
- 3. Security: The system should be designed with robust security features to protect user data and prevent unauthorized access or attacks.
- 4. Usability: The system should be user-friendly and intuitive, with easy navigation and clear instructions for users.
- 5. Compatibility: The system should be compatible with a range of mobile devices and operating systems, to ensure broad accessibility for users.
- 6. Scalability: The system should be designed to handle high volumes of traffic and users, with the ability to scale up or down as needed.
- 7. Maintainability: The system should be easy to maintain and update, with clear documentation and support for ongoing development and improvements.
- 8. Extensibility: The system should be designed to support future upgrades and new features, with the ability to integrate with other systems or technologies as needed.
- 9. Accessibility: The system should be accessible to users with disabilities, with support for assistive technologies and features such as voice commands or screen readers.
- 10. Interoperability: The system should be able to integrate with other systems or technologies used by the company, such as inventory management or accounting software.

2.2. Requirements 'Analysis:

- Use-case diagram covering all requirements Use case Specification.

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