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Course Name: CSC 3323
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Milestone 2

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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.