Bangladesh Open University

School of Science & Technology

Bachelor of Science in Computer Science and Engineering

Laboratory Report

Course Title: System Analysis & Design Lab

Course Code: CSE22P5

Lab Report No.: 03

Lab Report Name: Create a class diagram of an online processing system

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Lab Report Name: Create a class diagram of an online processing system.

Instrument:

- Computer
- EdrawMax Software, etc.

Procedure:

- At first, we have to learn about online processing system.
- Now we have to power on the computer.
- When the computer is ready to use, we have to open EdrawMax software.
- After opening EdrawMax software, we have to create the class diagram of online processing system.
- Finally, after drawing the class diagram, we have to ensure the class diagram is correct.

Online Processing System:

1. Admin: Represents an administrator of the online processing system.
    - Attributes
        i. adminId: Unique identifier for the admin.
        ii. email: Email address of the admin.
        iii. password: Password of the admin.
        iv. username: Username of the admin.
2. User: Represents a user of the online processing system.
    - Attributes
        i. Address: Address of the user.
        ii. Email: Email address of the user.
        iii. Password: Password of the user.
        iv. Payment Methods: Array of payment methods associated with the user.
        v. Phone: Phone number of the user.
        vi. User Id: Unique identifier of the user.
        vii. User Name: Username of the user.
3. Product: Represents a product available for purchase in the system.
    - Attributes
        i. Description: Description of the product.
        ii. Name: Name of the product.

iii. Price: Price of the product.
iv. Product Id: Unique identifier of the product.
v. Quantity: Quantity of the product available in stock.

4. Cart Item: Represents an item added to the user's shopping cart.
    - Attributes:
        i. Product Id: Unique identifier of the product.
        ii. Quantity: Quantity of the product added to the cart.
5. Order: Represents an order placed by a user.
    - Attributes:
        i. Items: Array of items included in the order.
        ii. Order Id: Unique identifier of the order.
        iii. Status: Status of the order (e.g., processing, shipped).
        iv. Total Amount: Total amount of the order.
        v. User Id: Unique identifier of the user who placed the order.
6. Payment: Represents a generic payment made for an order.
    - Attributes:
        i. Amount: The amount of the payment.
        ii. Order Id: Unique identifier of the associated order.
        iii. Payment Id: Unique identifier of the payment.
        iv. Status: Status of the payment (e.g., pending, completed).
7. Shipping: Represents the shipping process for an order.
    - Attributes:
        i. Order Id: Unique identifier of the order being shipped.
        ii. Shipping Address: Address to which the order will be shipped.
        iii. Status: Status of the shipping process (e.g., pending, shipped).
8. Review: Represents a review submitted by a user for a product.
    - Attributes:
        i. Comment: Textual comment or review content.
        ii. Product Id: Unique identifier of the product being reviewed.
        iii. Rating: Numeric rating given by the user for the product.
        iv. Review Id: Unique identifier of the review.
        v. User Id: Unique identifier of the user who submitted the review.

Class Diagram: