



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

***Submitted by***

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**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:

