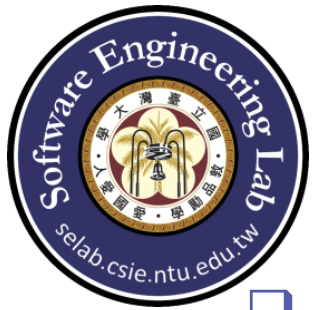


An Order Handling System

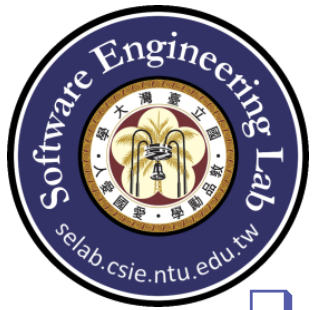
Prof. Jonathan Lee (李允中)

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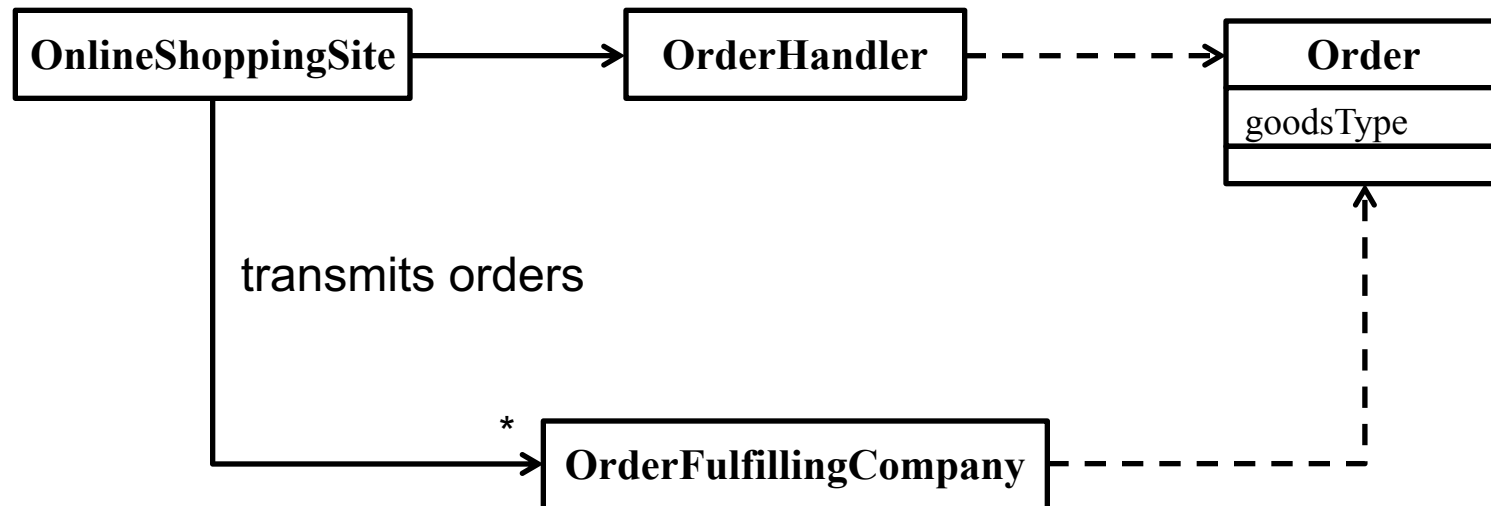
Requirements Statement

- ❑ Design the order handling functionality for a different type of an online shopping site that transmits orders to different order fulfilling companies based on the type of the goods ordered.
- ❑ Suppose that the group of order processing companies can be classified into three categories based on the format of the order information they expect to receive.
- ❑ These formats include comma-separated value (CSV), XML and a custom object. When the order information is transformed into one of these formats, appropriate header and footer information that is specific to a format needs to be added to the order data. The series of steps required for the creation of an Order object can be summarized as follows:
 - Create the header specific to the format
 - Add the order data
 - Create the footer specific to the format



Requirements Statement₁

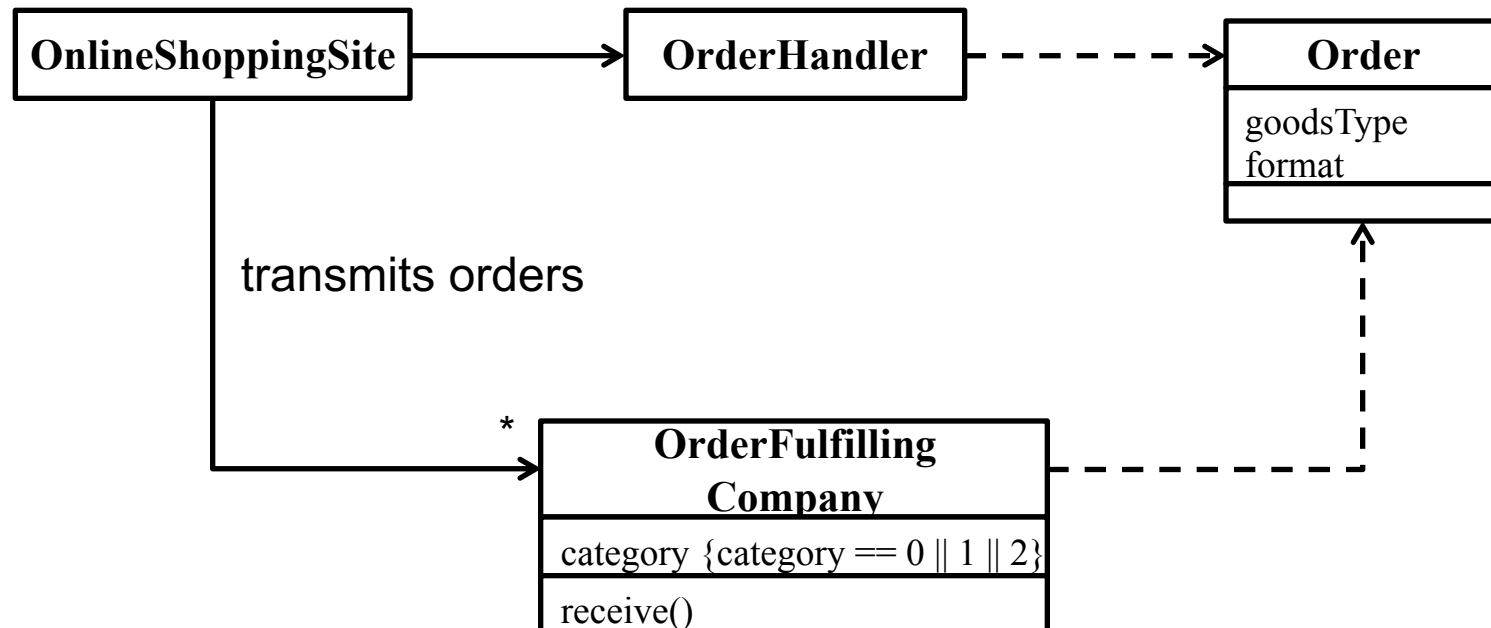
- Design the order handling functionality for a different type of an online shopping site that transmits orders to different order fulfilling companies based on the type of the goods ordered.

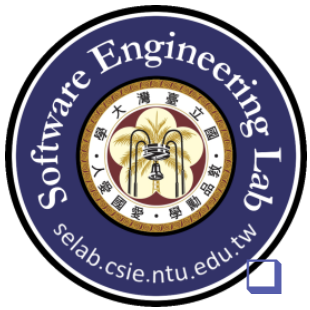




Requirements Statement₂

- Suppose that the group of order processing companies can be classified into three categories based on the format of the order information they expect to receive.

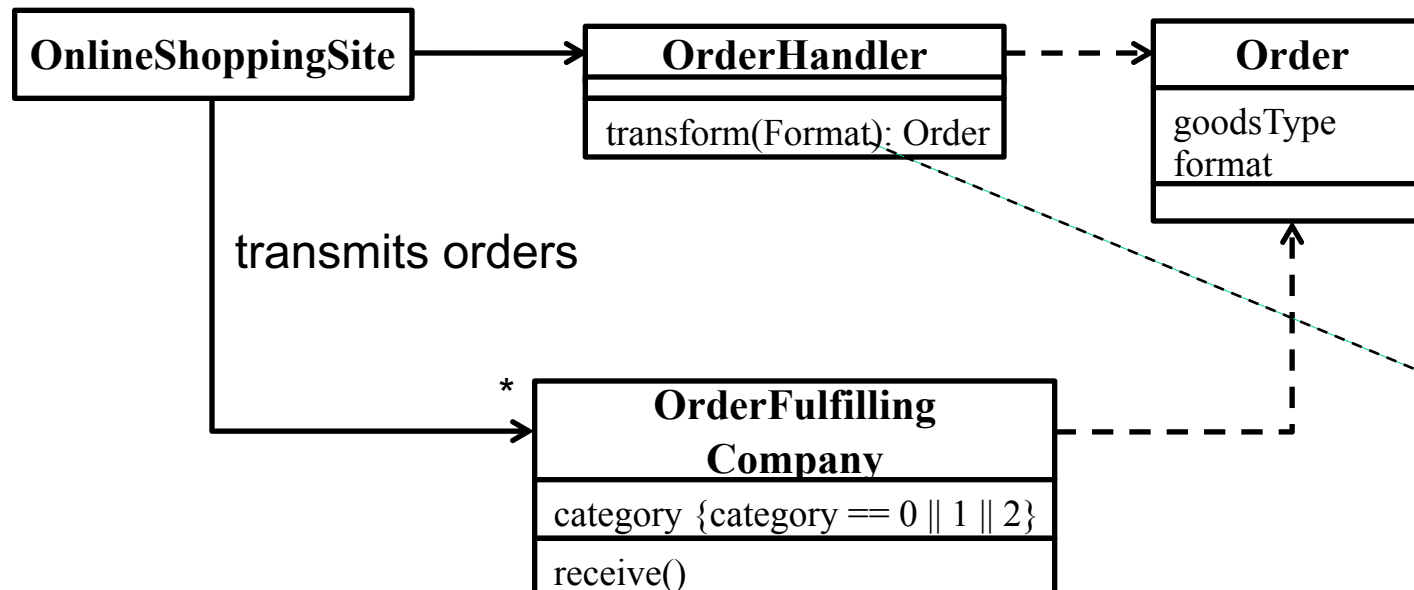




Requirements Statement₃

- These formats include comma-separated value (CSV), XML and a custom object. When the order information is transformed into one of these formats, appropriate header and footer information that is specific to a format needs to be added to the order data. The series of steps required for the creation of an Order object can be summarized as follows:

- Create the header specific to the format
- Add the order data
- Create the footer specific to the format



```
Order transform(Format format) {
    if (format == "csv") {
        create csv header
        add order data
        create csv footer
    } else if (format == "xml") {
        create xml header
        add order data
        create xml footer
    } else if (format == "custom object") {
        create custom object header
        add order data
        create custom object footer
    }
    return result
}
```

Initial Design

