**DESIGN REVIEW**

## **Couplings**

### Content coupling

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| **No.** | **Related modules** | **Description** | **Improvement** |
| - | - | - | - |

### Common coupling

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| **No.** | **Related modules** | **Description** | **Improvement** |
| - | - | - | - |

### Control coupling

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| **No.** | **Related modules** | **Description** | **Improvement** |
| 1 |  |  |  |

### Stamp coupling

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| **No.** | **Related modules** | **Description** | **Improvement** |
| 1 | Cart , Media | Method checkMediaInCard(Media media) is in the stamp coupling, since we only need the media id, but pass all media object | Only pass the media id as the only parameter |
| 2 | Order , PlaceOrderController | Method calculateShippingFee(Order order) is in the stamp coupling, since we only need the amount of order, but pass all order object | Only pass the amount of order as the only parameter |

### Data coupling

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| **No.** | **Related modules** | **Description** | **Improvement** |
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### Uncoupled

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| **No.** | **Related modules** | **Description** | **Improvement** |
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## **Cohesion**

### Coincidental

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| **No.** | **Related modules** | **Description** | **Improvement** |
| 1 | Configs , Utils |  |  |

### Logical

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| **No.** | **Related modules** | **Description** | **Improvement** |
|  |  |  |  |

### Temporal

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| **No.** | **Related modules** | **Description** | **Improvement** |
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### Procedural

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| **No.** | **Related modules** | **Description** | **Improvement** |
| 1 | PlaceOrderController, PlaceRushOrderController | Constructors of place order controllers has nested relationships to serve the need of initializing the controller | Redesign the controller to have better inheritance as well as introduce interfaces to solve the problem of re-call unnecessary constructors |
| 2 | PlaceOrderController |  | validate data fields one-by-one with the validation methods |

### Communicational

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| **No.** | **Related modules** | **Description** | **Improvement** |
| 1 | InterbankSubsystem, PaymentTransaction | InterbankSubsystem both works on the same input  and returns the same type PaymentTransaction of output data |  |
| 2 |  |  |  |

### Sequential

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| **No.** | **Related modules** | **Description** | **Improvement** |
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### Informational

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| **No.** | **Related modules** | **Description** | **Improvement** |
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### Functional

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| **No.** | **Related modules** | **Description** | **Improvement** |
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