1. Coupling
   1. Content coupling

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| Related modules | Description | Improvement |
| RushOrder, Order | RushOrder is an derived class of Order, so it also has getDeliveryInfo method and the deliveryInfo is HashMap type so it can be modified by calling put method of HashMap class while RushOrder | Make a copy of deliveryInfo and return that copy, so the changes will only happen on the copy |

* 1. Common coupling

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| --- | --- | --- |
| Related modules | Description | Improvement |
| RushOrder | Create a public static attribute in class | Modify to access modifier to private |

* 1. Control coupling

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| --- | --- | --- |
| Related modules | Description | Improvement |
| ShippingScreenHandler | I have a flag to notify the class if the customer has chosen to place rush order or not. So that I can set different shipping fee for different type of order | Create two different method to set shipping fee, one for normal order and one for rush order |

* 1. Stamp coupling

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| --- | --- | --- |
| Related modules | Description | Improvement |
| ShippingScreenHandler, RushOrder | I pass the rushOrder instance to ShippingScreenHandler class to show all the information about the order but the information about delivery time of rushOrder is not necessarily here | Pass only needed information |

* 1. Data coupling

Because of all problem above, my “Place Rush Order” haven’t satisfied this level of coupling

1. Cohesion
   1. Coincidential cohesion

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| --- | --- | --- |
| Related modules | Description | Improvement |
| Utils | Push all utility methods in class Utils even their functionality is not related to each other | Divide to diffirent type of util classes |

* 1. Logical cohesion

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| --- | --- | --- |
| Related modules | Description | Improvement |
| ShippingScreenHandler | I have a flag to notify the class if the customer has chosen to place rush order or not. So that I can set different shipping fee for different type of order | Put the methods to two different classes, one for normal order, one for rushorder |

* 1. Temporal cohesion

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| --- | --- | --- |
| Related modules | Description | Improvement |
| RushOrderFormHandler | Call RushOrderForm | Put the methods to two different classes, one for normal order, one for rushorder |

* 1. Procedural cohesion

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| --- | --- | --- |
| Related modules | Description | Improvement |
| PlaceRushOrderController | Several validate methods to validate each information field about rush order | Push validate methods to another classes |

* 1. Communication cohesion

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| --- | --- | --- |
| Related modules | Description | Improvement |
| InterbankSubsystemController | I think payOrder and makePaymentTransaction function is not really responsible of this class, | Make a new class for this two methods |

* 1. Sequential cohesion

I cannot find the modules that have this level of cohesion

* 1. Informational cohesion

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| --- | --- | --- |
| Related modules | Description | Improvement |
| RushOrder, Order | RushOrder is an derived class of Order so it suffers the same problem as Order | None |

* 1. Functional cohesion

None of my classes related to UC Place Rush Order have reach this level of cohesion