

DESIGN REVIEW

Couplings

Content coupling

No.	Related modules	Description	Improvement
-	-	-	-

Common coupling

No.	Related modules	Description	Improvement
-	-	-	-

Control coupling

No.	Related modules	Description	Improvement
1			

Stamp coupling

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

No.	Related modules	Description	Improvement

Uncoupled

No.	Related modules	Description	Improvement

Cohesion

Coincidental

No.	Related modules	Description	Improvement
1	Configs , Utils		

Logical

No.	Related modules	Description	Improvement

Temporal

No.	Related modules	Description	Improvement

Procedural

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

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

No.	Related modules	Description	Improvement

Informational

No.	Related modules	Description	Improvement

Functional

No.	Related modules	Description	Improvement