Report

1. Coupling1.1. Content Coupling

Related modules	Description	Improvement
The class Order in	Might have module	In that new module,
the package	manages to get	the method put() of
entity.order, attribute	deliveryInfo object	HashMap can not be
delivery of HashMap	by call	call since this
type and a public	getDeliveryInfo() of	attribute are set to
getter	Order class then	setAccess(False), if
getDeliveryInfo() for	changes the delivery	want to change the
attribute.	object by calling	delivery object, then
	put() of HashMap	we have to define
	class	Order in that module
		to modifies.

1.2 Common Counling

1.2. Common Coupling		
Related modules	Description	Improvement
Cart in entiry.cart	Plenty of modules	Apply singleton
	that need to	pattern: 1. Static
	communicate with	block initialization
	the class	→ check exception
	Cart like the handler	before generates
	of Home screen	instance; 2. Lazy
	when adding items to	initialization →
	the cart, the handler	single thread; 3.
	of	Thread safe singleton
	Cart screen when	→ private static
	showing current	violate var; 4.
	items in the cart, and	Double check
	the handler of	locking Singleton →
	Invoice	double check the
	screen when showing	instance before
	the items to pay	generating.

1.3. Control Coupling

Related modules	Description	Improvement
Media, Book, CD,	They has same type	Make all Book, CD,
DVD in entity.media	of media with same	and DVD extends
	method.	the general class
		Media then they can
		use and changes their
		own methods.

1.4. Stamp Coupling

None → Avoid passing the instantiated object(s) which encapsulate the shared data to all objects/classes which need the shared data, i.e., dependency injection in Common Coupling step.

1.5. Data Coupling

Satisfy

1.6. Uncoupling

None

2. Cohesion

2.1. Coincidental cohesion

Related modules	Description	Improvement
Configs, Utils	Coincidental cohesion	Define same necessary parameters and links in same class related.

2.2. Logical cohesion

Related modules	Description	Improvement
Media, Book, CD,	Separate code in 2	Since we using
DVD in entity.media	same class	extends, then we put them in different
		class but still can use

the general methods
of media class.

2.3. Temporal cohesion

None

2.4. Procedural cohesion

None

2.5. Communicational cohesion

Description	Improvement
work on the same	Concat these 2 ouput
input or return the	values or return
same type	output value of
of output data	Interbank for
	Payment to finally
	deals with it.
	work on the same input or return the same type

2.6. Sequential cohesion

None

2.7. Informational cohesion

Related modules	Description	Improvement
Media, Order		Extends and create after all element of media, order has been defined.

2.8. Functional cohesion

Related modules	Description	Improvement
API	The output of one	Good
	method is the input	
	to another, reuse the	
	related functions.	