Task1:

TextUI	calls
TextUI	NA
MainMenu	NA
RouteChoice	DisplayInventory(), ItemMenu(), AddItemToCart(), DisplayCart(), CartItems(), RemoveItemFromCart(), Checkout(), ClearCart()
ItemMenu	NA

ShoppingCart	calls		
ShoppingCart	NA		
AddItem	get_id(), IncreaseQuantity()		
Removeltem	get_quantity(), DecreaseQuantity()		
DisplayCart	NA		
ClearCart	NA		
get_items()	NA		

Item	calls
Item	NA
get_id()	NA
get_quantity()	NA
get_cost()	NA
get_type()	NA
IncreaseQuantity	NA
DecreaseQuantity	NA
ToString	NA
Clone	NA
operator<<	ToString()

Store	Calls		
Store	Item(), ShoppingCart()		
DisplayInventory	ToString()		
Items	get_quantity(), get_id(), ToString()		
CartItems	<pre>get_quantity(), get_id(), ToString()</pre>		
AddItemToCart	get_id(), Clone(), DecreaseQuantity()		
RemoveItemFromCart	get_id(), IncreaseQuantity(), get_items()		
DisplayCart	DisplayCart()		
Checkout	<pre>get_items(), get_quantity(), get_cost(),</pre>		
	get_type(), ClearCart()		
ClearCart	ClearCart()		

Task2:

The clone method creates a new item object with the same exact id_, type_, cost_, but with a quantity of 1. In order to add an item to a cart the same item needs to be recreated and added once.

Task3:

Yes	No

Trait	TextUI	ShoppingCart	Item	Store
Cohesive	It only performs as an interface	Doesn't incorporate	Does everything related	It only performs the
	and hands over any computation	outside objects	to Item	necessary actions
Complete	Seems to have all the necessary	Seems to have all the	Seems to have all the	Doesn't allow for
	components	necessary components	necessary components	multiple users
Clear	The multiple if statements in	All the operations are	All the operations are	A lot of the methods
	RouteChoice() make it a little	straightforward	straightforward	are named similar to
	confusing			other object methods
Convenient	Works well as a UI	Prints everything that's	Not necessarily since it	Prints everything that's
		necessary	can basically just be a	necessary
			struct	
Consistent	Seems to be consistent	Seems to be consistent	Seems to be consistent	Seems to be consistent