Problem : Program to buy a laptop in the Internet

Identify Objects and Behaviors:

Thing (Object)/Entity:
        Information (Data)/(State):
        Services (Behaviors)/Actions

Things :

        Consumer (Internet Shopper) :
                Data: Name, Address, Phone
                Behaviors : buy, search, reviews, compare, return, cancel

        Internet
                Data : Amazon, BestBuy, Alibaba, Google, website2,
                        : Group of Websites (Collection of Websites)
                Behaviors : searchForElectronicWebsites

        ElectronicWebsite

                Data : URL, Product[] products, BankAccount
                Behaviors : search, sort, display, compare , placeTheOrder

        Laptop

                Data : Price, Color, Memory, size, brand, year
                Behavior:

        CreditCard

                Data : Number, name, company, expiry, security code
                Behavior :

        CreditCardCompany

                Behavior : authorizeTransaction

Sequence of invoking behaviors on Objects:

BuyLaptopOnInternet:

        Consumer peter,
        Internet internet,
        ElectronicWebsite bestBuy,
        Laptop myAssistant,
        CreditCard card,
        CreditCarCompany visa
        ShoppingConfirmation response

        If Internet.isAvailable
                peter.searchInInternet -> internet, question : Collection of ElectronicWebsite
                //peter.findDesirableWebsiteInFirstPage -> Collection of Websites : website
                pageNumber = 1;
                Loop
                        if peter.findsNoPages
                                break
                        end

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                    peter.findDesirableWebsiteInAPage -> internet, question, page Number :
website
                    bestBuy = website;
                    If bestBuy is not empty
                            break
                    else
                            pageNumber = pageNumber + 1
                    end
            End
            bestBuy = website
            If bestBuy is not empty or bestBuy!=null
                    bestBuy.searchForLaptop -> priceRange, color, brand : Collection of Laptop
                    myAssistant = laptop
                    peter.purchaseLaptop -> myAssistant, creditCard, address, bestBuy :
ShoppingConfirmation
                    response = shoppingConfirmation
            Else
                    peter.cantBuyProduct
        Else
            peter.browseInternetAfterAWhileBack
```