Presentation layer

Presentation layer is responsible for generating the HTML sent to the user's browser.

While there is a request to view a product detail page, the requested product information retrieved from the database in the request scope. It will then forward the request to the Presentation layer, to output the HTML containing the information to the user's browser.

The Data Access Layer

In the case of a request to add an item to the user's cart, the Business layer will invoke classes in the Data Access layer, which will do the work of inserting and updating the various tables in the database

The Business Layer

In the case of a request to add an item to the user's cart, the Business layer will initialize the user's cart if it hasn't been already, create new objects representing the items in the cart, and then communicate with the Data Access layer to store a representation of the cart in the database.

Online shopping

The website allows customers to add items onto shopping card, specify the address, supply payment information.

1) Shows the item's photo, description of item, shows the "add to Cart", "add to Wishlist", etc.
2) Adding item more than once will increment the quantity.
3) Edit card or Proceed the checkout. (In both ways, asks for signing in process).
   a. Edit card: After completing a short application the information will be saved in database.
   b. Proceed the checkout: First page asks for shipping address, next one detail of the card, then the congratulation page will be shown.
4) All the information will be saved in database.

Get the items under 200$, black, bluetooth headphones.

Presentation Layer:

Search:
get black bluetooth
headphone under 200$

All items

Business Layer:

- ✓ Get the list of all bluetooth headphones
- ✓ Black ones
- ✓ Under 200

Get all items together

Query

Select *
from
electornics
where
item_name =
"headphones"

| 1 item | 2 item | 3 item |

Data Layer:

Database

Storage

2 Layer Systems

1 Layer System

| Search: headphones | Show all items |

Presentation Layer

Get the list of the headphones

Get all items together

Business and Data Layer

Database

Storage

Monitor

| Search: headphones | Show all items |
| Get the list of the headphones | Get all items together |

database