Lab-1

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E-SHOP

1.Basic functionality

Browsing(query and response):

- 1. Catalog of products
- 2. Breadcrumbs
- 3. Filters

Ordering(query and response):

- 1. Login to system
- 2. Order product
- 3. Binding shopping cart
- 4. Payment
- 5. Email Notification of orders

Database:

- 1. SQL database
- 2. SQL queries

2.Layers

1 layer:

It could be personal computer in shop which is directly connected to server and database. You can browse, order and access to database from this computer.

2 layer:

On client side layer, displayed information which was replied from server on SQL query. Also it implements all Browsing and Ordering(only 1,2 and 5 functions) queries.

On server side layer, replies to all requests using its own resources, it doesn't use database server in order to provide part of service. It implements responses to Browsing queries, Ordering(only 1,2 and 5 functions) queries and transactions. And has Database functionalities.

3 layer:

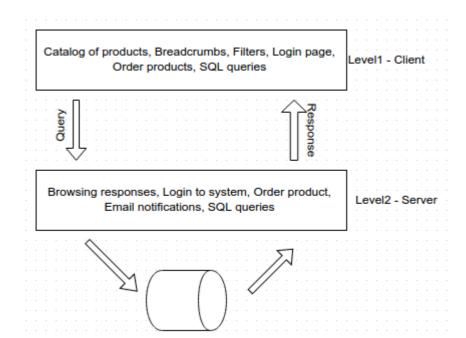
Client side doesn't change. Added 3-rd and 4-th functions of Ordering.

On server side used SQL database server. To provide more secure and scalable service.

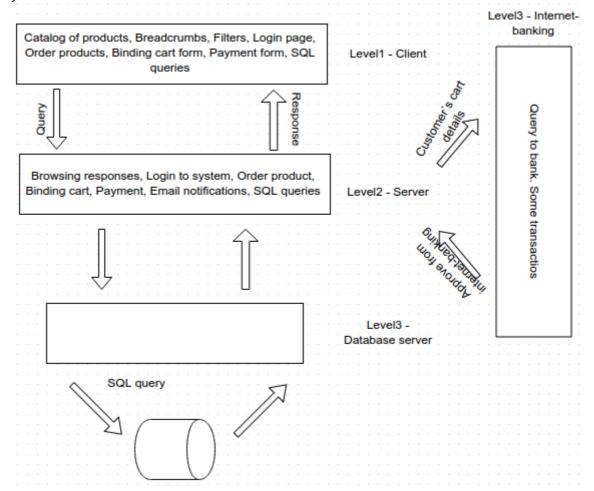
Also it implements 3-rd and 4-th functions of Ordering. It sends request to internet-banking which performs banking transactions.

3.Diagrams:

2 layer:



3 layer:



1 layer:

