DESIGN DOCUMENT

Deal Finder Service

Project

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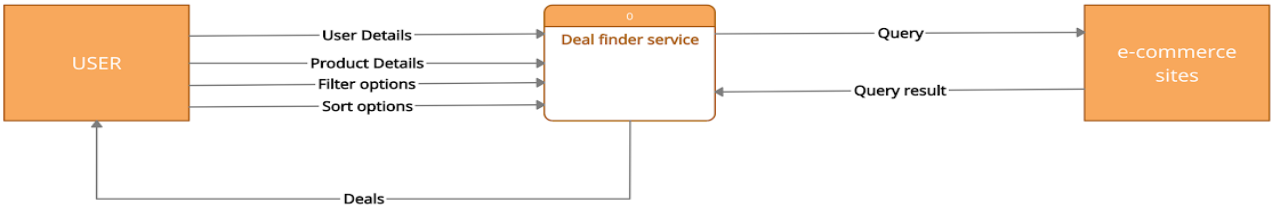
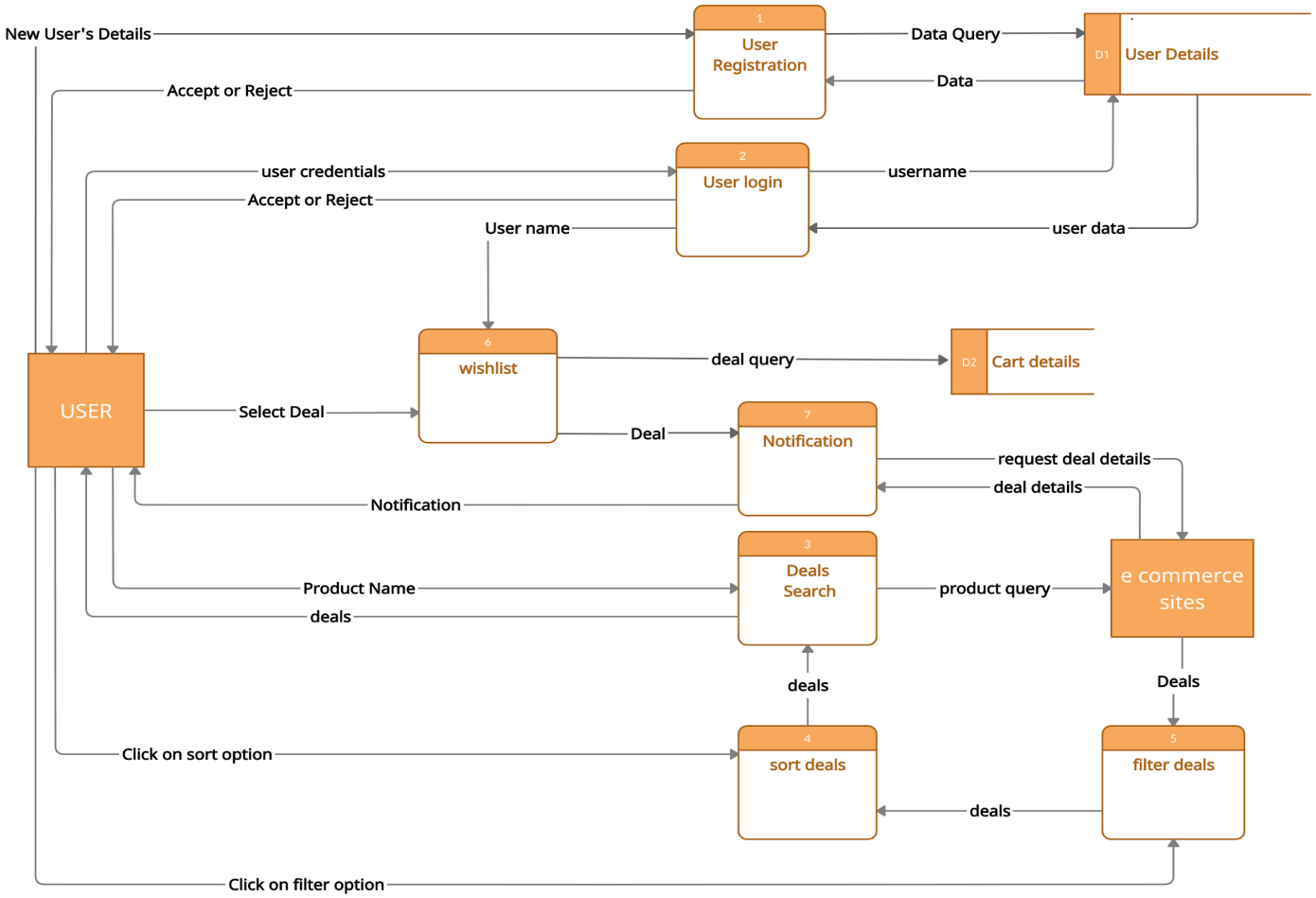
DATA FLOW DIAGRAM(DFD)

LEVEL 0 DFD

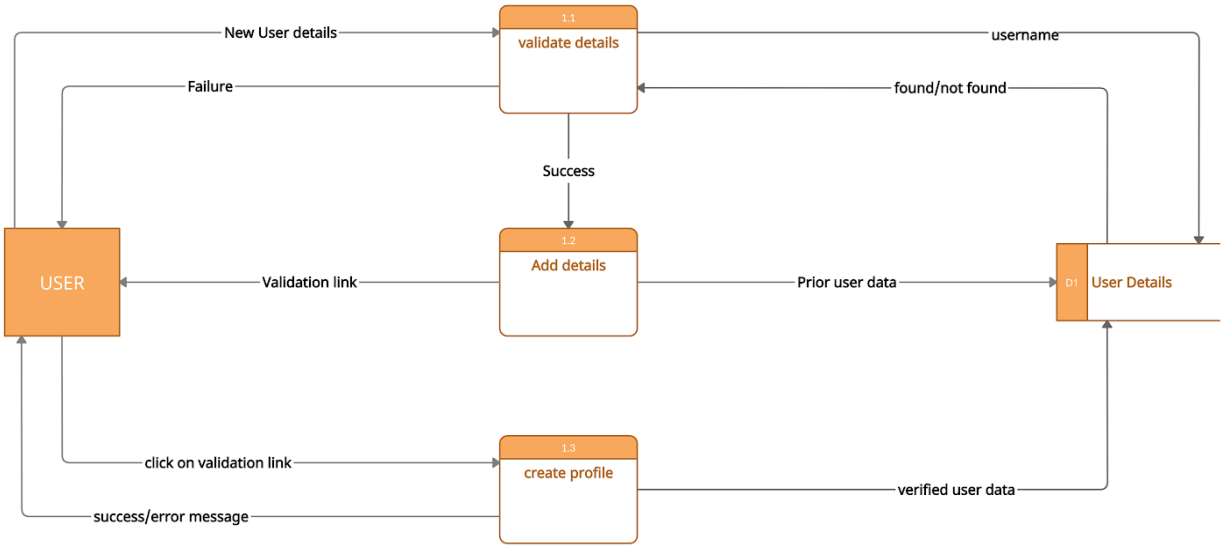


LEVEL 1 DFD

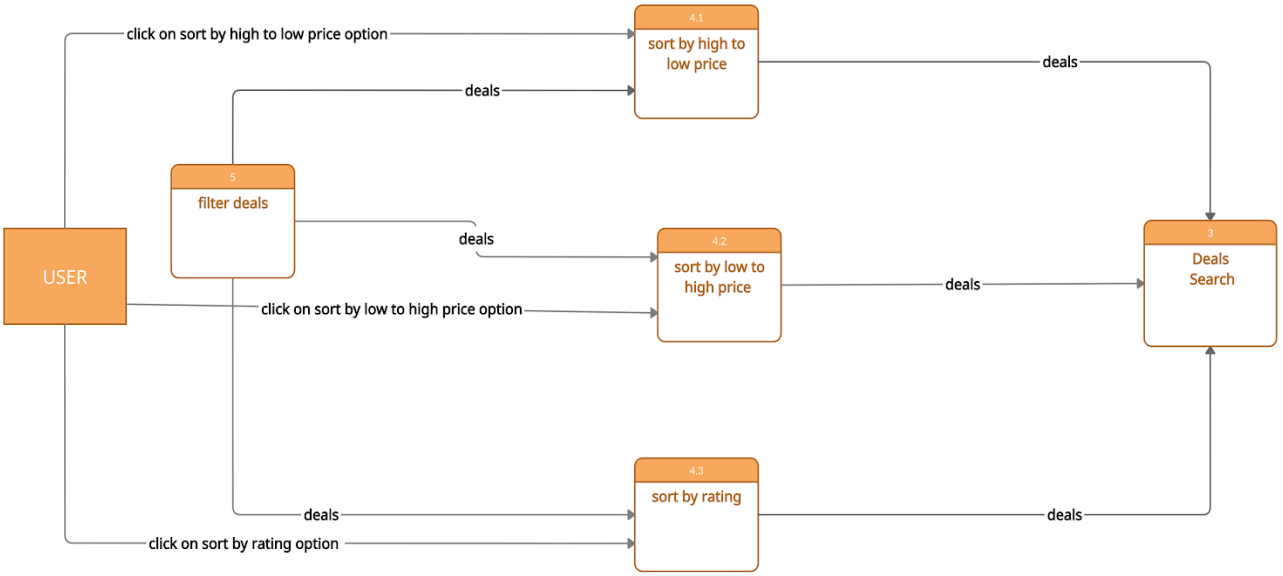


LEVEL 2

Level 2 Process 1



Level 2 Process 4



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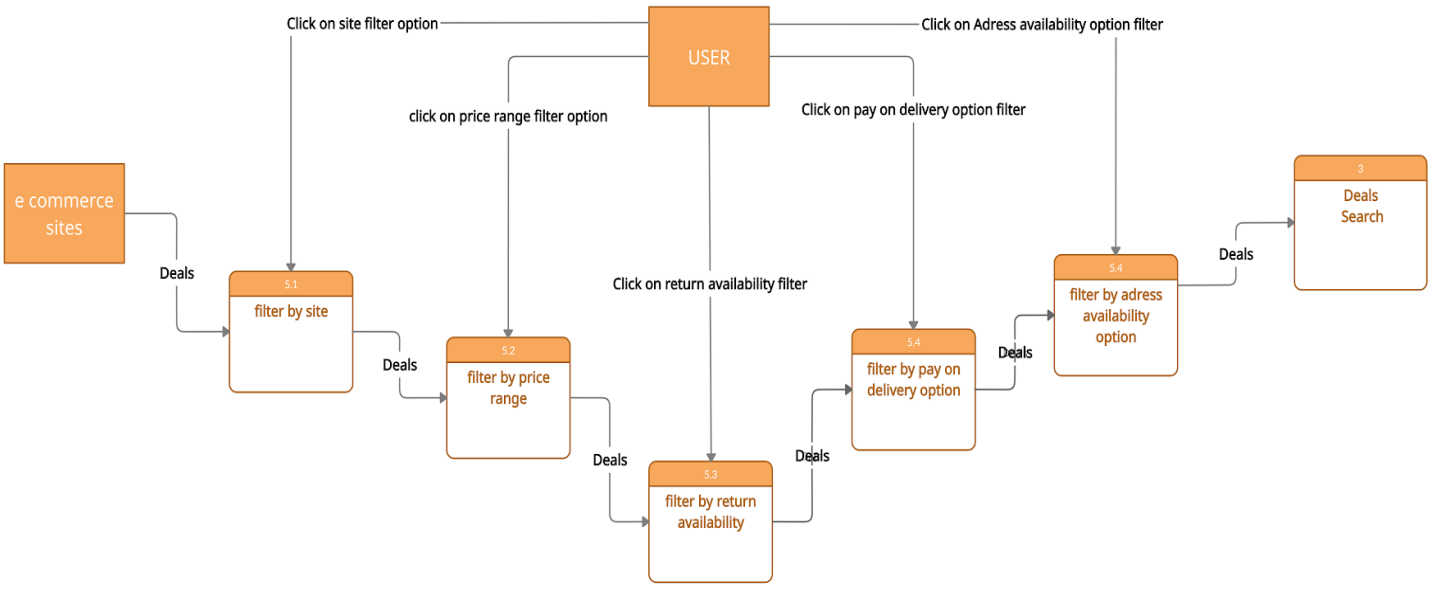
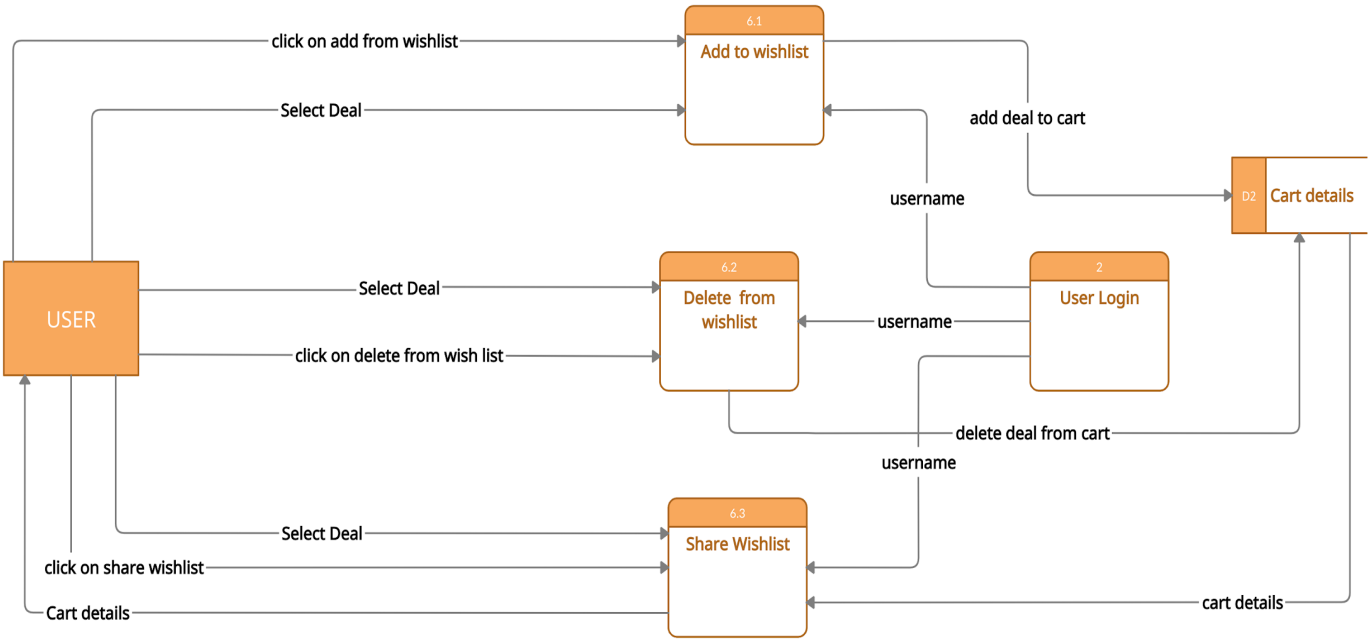
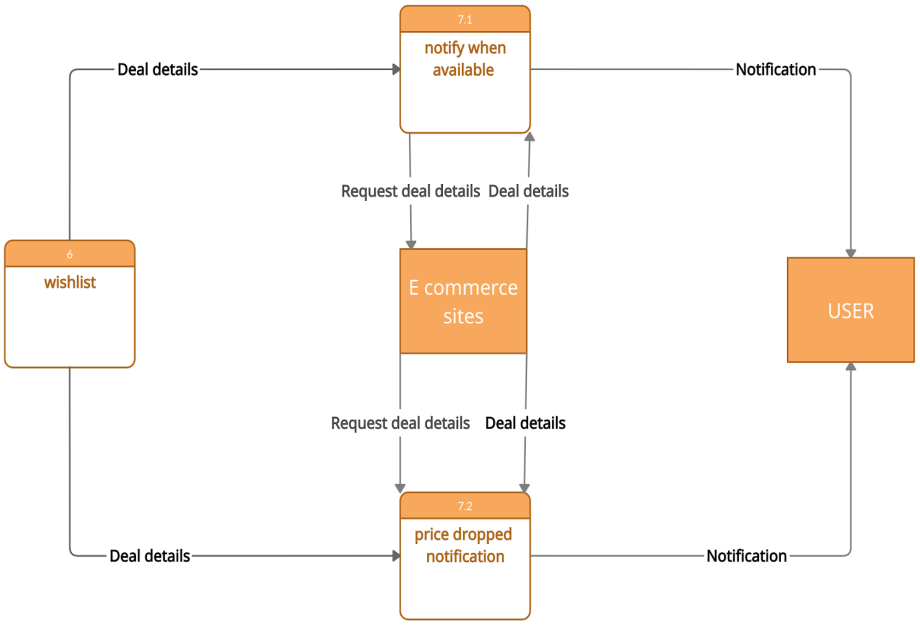


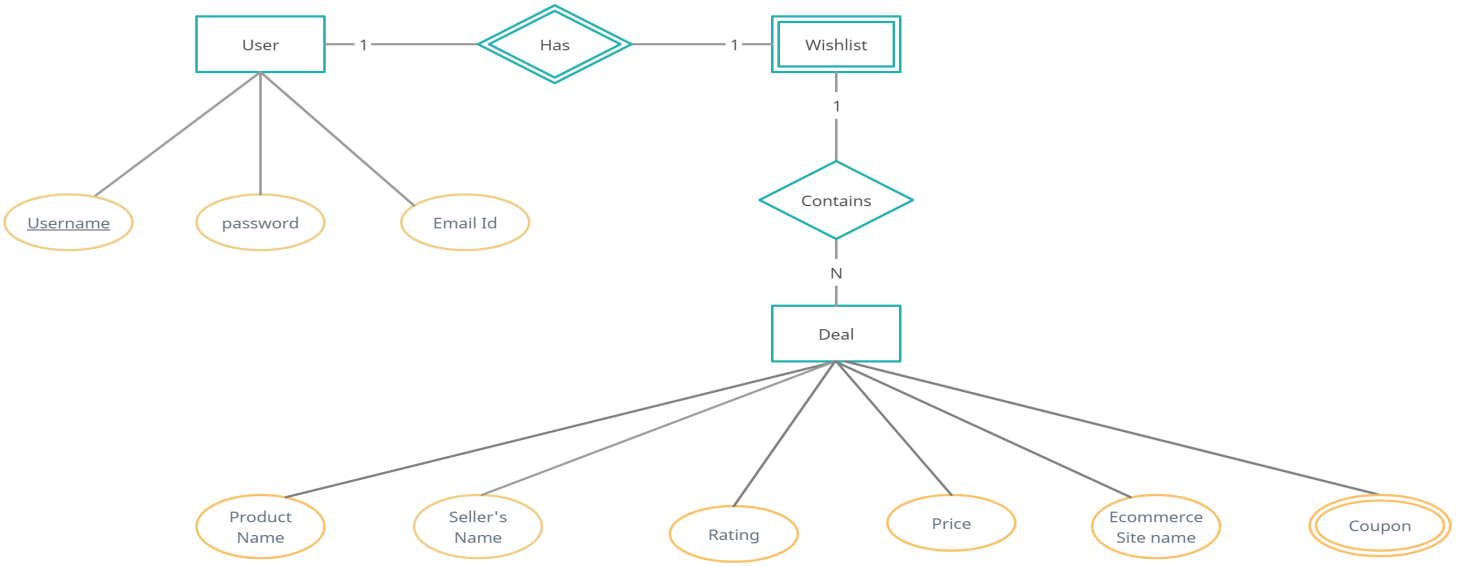
Level 2 Process 6



Level 2 Process 7



ER DIAGRAM:



USABILITY DOCUMENT

8 Golden rules :

We have taken care of usability in the light of 8 golden rules as follows.

First the user registers if not registered and login and we display a success/error message(a feedback message). After login, users typically search for products, and then users can add deals to wishlist. If the deals are unavailable, we display a message that "no deals are available".
We designed a wishlist for users to group the deals they wish to buy. When a user adds/removes a deal from wishlist a feedback message is given to indicate the action completed.
Reversal of actions: It is taken care of in case of wishlist by prompting undo for removing from wishlist.
Reduce short term memory load: we designed a wishlist and display the search history while searching.
Strive for consistency: We maintained our system in the same way as any ecommerce site maintaining consistency and not overwhelming the user with a different interface.
Keeping users in control: Will be taken care in prototyping.
Error prevention and handling: Will be taken care in prototyping.
Design for universal usability:Will be taken care in prototyping.
Offer Informative feedback: will be taken care in prototyping.

DESIGN JUSTIFICATION

We have implemented all our functionalities mentioned in our SRS document correctly and are easy to understand.

COHESION:

User registration module:

Communication: All functions in the module refer to the user detail data store.

Procedural: All functions in the module are part of the same procedure and there is an order among functions i.e, User Registration.

Sequential: The output of function validate details (i.e success) is the input to the next function add details function and the output of add details function (i.e validation link) is input to the create profile function.

Sort Deals:

Logical: All the functions sort by low to high price, sort by high to low price,sort by rating perform similar operations i.e, sorting.

Communication: All the functions refer to the same data i.e., deals.

Filter Deals:

Logical: All functions perform the same operation i.e., filtering deals.

Procedural: There is a proper order between the functions.

Communication: All the functions refer to the same data i.e., deals.

Sequential: output from one element is input to the next element of the filter module.

WishList:

Logical: All the functions perform similar operations i.e, adding, deleting.

Communication: All the functions update to the same data i.e., cart details.

Notifications:

Logical : All the functions perform similar operations i.e notifying users.

COUPLING :

There is data coupling between the modules user login and wishlist, filter deals and sort deals, sort deals and deals search,wishlist and notifications. Username data is shared between the modules User login and Wishlist. Deals are shared between the modules filter deals and sort deals. Similarly deals are shared between the modules sort deals and deals search,wishlist and notifications. Other than these there is no coupling between any pair of modules.

From all the above observations we can justify that there is high cohesion and low coupling.