

Term Project Final Report

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## 1. Problem Definition

This term project provide us swapping item between users. In order to make an exchange, firstly we should build user structure. This user structure should include register login logout methods. Also for swap process, database design must be created properly. Swap process must work with two users and these user must have at least one item. One offer can include one more than one item but one item is not included by one more than offer. Database design should created considering this situations.

## 2. Solution Outline

In order to solve problems in problem definition part. Firstly we should create database design properly.

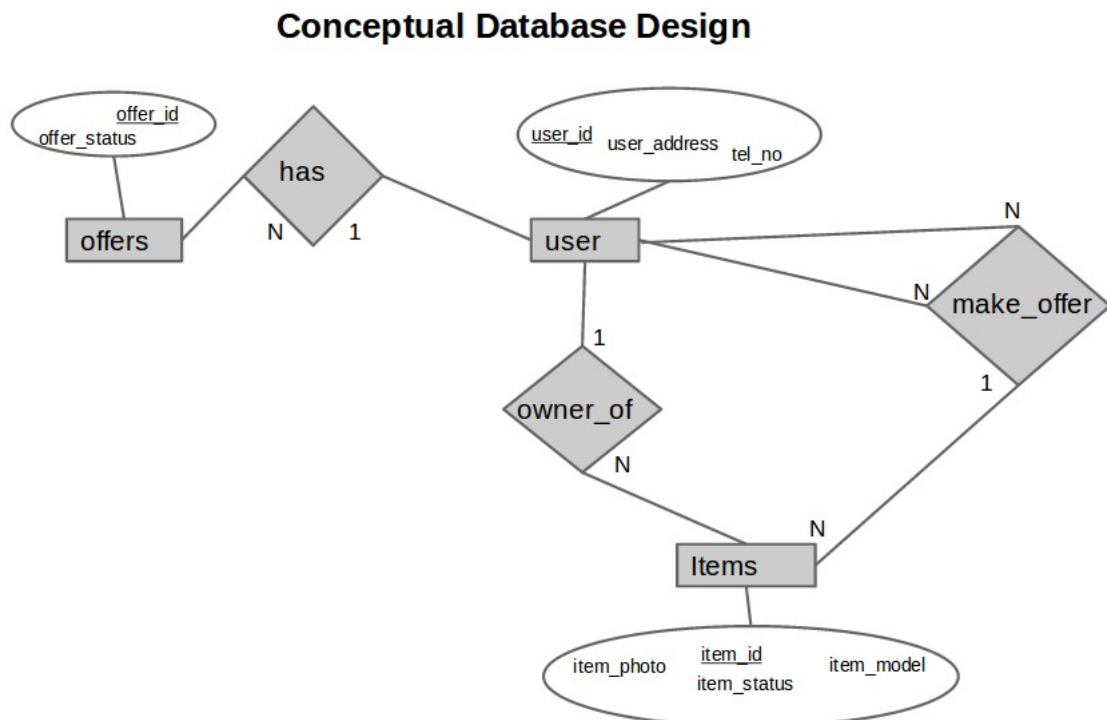


Figure 2.1. DataBase Design

Django models.py should be created and designed according to this database design.

In this term project you can register site and login. After completing these user requirements, you can add items to your item list and you can start to make offers to other users to swap items. In this project, I mostly focused on the offer state of process. In the offer state of process, you (swapper) can make an offer to give an item to another swapper, and another swapper can see your items and he or she can select one of your items and make an offer to you. After then, if you accept the offer, your items are swapped and the offer is completed. Also, this is one scenario for the offer process. Another scenario is that if you make an offer and another swapper has not answered your offer yet, you can give up this offer. Also, if you make an offer and another swapper selected one of your items and made an offer to you, and if you want to cancel, you can cancel this offer.

Also, this project includes common user components like register, login, and logout. If you are not logged in, you cannot see the content of the site. In order to see the content, you must register into the site with your information.

### **3. Testing and Validation**

In this project we tested and try to catch validations. We tested register method and it return appropriate validations according to our project's database design. For example register method control that given variables are unique or required.

## 4. Conclusion

Database design and projects model.py created appropriately. I want to explain what you can do in this project. In this term project you can register site and login. After complete these user requires, you can add item in your item list and you can start to make offer into other user to swap items. In this project I mostly focused on offer state of process. In offer state of process you(swapper) can make offer to give item into other swapper and other swapper can see your items and he or she can select one of your items and make offer into you. After then if you accept offer, your items swapped and offer is completed. Also this is one scenario for offer process. Other scenario is that if you make offer and other swapper has not answered your offer yet, you can give up this offer. Also if you make offer and other swapper selected one of the your items and make offered into you and if you want to cancel you can cancel this offer.

## REFERENCES

1. <http://www.djangobook.com/en/2.0/index.html>
2. <https://www.djangoproject.com/community>