UTMarketplace

System Design Document

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CRC Cards

Class Name: UserExtension(User)	
Parent Class: django.contrib.auth.models.AbstractUser	
Responsibilities: ● Post, edit, and delete their listing ● Report other users ● Rate users ● Bookmark other listings ● Login and logout of their account ● Access and edit their account details	**Collaborators:** ● Listing ● Bookmark

Class Name: CustomUserManager	
Parent Class: django.contrib.auth.base_user.BaseUserManager	
Responsibilities: ● Manage the Django's built in User class ● Create new user profiles	**Collaborators:** ● User

Class Name: Listing	
Parent Class: django.db.models.Model	

Responsibilities:
● Stores listing information:
    ○ Item name
    ○ Price
    ○ Title
    ○ Description
    ○ Seller contact information
● The post user and admin user has the ability to edit the post
● Listings can be categorized by their respective category attribute
	Collaborators:
	● User
	● Category

Class Name: Bookmark

Parent Class: django.db.models.Model

Responsibilities:	**Collaborators:**
● Bookmarked Listing ● List of users that bookmarked the listing	● Listing ● User

Class Name: Category

Parent Class: django.db.models.Model

Responsibilities:	**Collaborators:**
● Name of category ● Has access to a parent category if necessary	● Listing

Class Name: RegistrationForm

Parent Class: django.contrib.auth.forms.UserCreationForm

Responsibilities:	**Collaborators:**
● Sign up form in signup.html ● Check email, username, password ● Check if all fields have input	● User

Class Name: LoginForm

Parent Class: django.forms.Form

Responsibilities:	**Collaborators:**
● Log in form in login.html ● Check if all fields have input	●

Class Name: view

Parent Class: N/A

Responsibilities:	**Collaborators:**
● link the html files and databases ● insert the form in html ● send smtp emails	●

Software Architecture