

**UTMarketplace**

# System Design Document

awasth15, fern1097, hezhongq, ieongren, matian7, menezze94, qiuandre

## Table of Contents

Table of Contents	2
CRC Cards	3
Software Architecture	5

## CRC Cards

<b>Class Name:</b> UserExtension(User)	
<b>Parent Class:</b> django.contrib.auth.models.AbstractUser	
<b>Responsibilities:</b> <ul style="list-style-type: none"><li>• Post, edit, and delete their listing</li><li>• Report other users</li><li>• Rate users</li><li>• Bookmark other listings</li><li>• Login and logout of their account</li><li>• Access and edit their account details</li></ul>	<b>Collaborators:</b> <ul style="list-style-type: none"><li>• Listing</li><li>• Bookmark</li></ul>

<b>Class Name:</b> CustomUserManager	
<b>Parent Class:</b> django.contrib.auth.base_user.BaseUserManager	
<b>Responsibilities:</b> <ul style="list-style-type: none"><li>• Manage the Django's built in User class</li><li>• Create new user profiles</li></ul>	<b>Collaborators:</b> <ul style="list-style-type: none"><li>• User</li></ul>

<b>Class Name:</b> Listing	
<b>Parent Class:</b> django.db.models.Model	
<b>Responsibilities:</b> <ul style="list-style-type: none"><li>• Stores listing information:<ul style="list-style-type: none"><li>○ Item name</li><li>○ Price</li><li>○ Title</li><li>○ Description</li><li>○ Seller contact information</li></ul></li><li>• The post user and admin user has the ability to edit the post</li><li>• Listings can be categorized by their respective category attribute</li></ul>	<b>Collaborators:</b> <ul style="list-style-type: none"><li>• User</li><li>• Category</li></ul>

<b>Class Name:</b> Bookmark	
<b>Parent Class:</b> django.db.models.Model	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Bookmarked Listing</li> <li>• List of users that bookmarked the listing</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>• Listing</li> <li>• User</li> </ul>

<b>Class Name:</b> Category	
<b>Parent Class:</b> django.db.models.Model	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Name of category</li> <li>• Has access to a parent category if necessary</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>• Listing</li> </ul>

<b>Class Name:</b> RegistrationForm	
<b>Parent Class:</b> django.contrib.auth.forms.UserCreationForm	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Sign up form in signup.html</li> <li>• Check email, username, password</li> <li>• Check if all fields have input</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>• User</li> </ul>

<b>Class Name:</b> LoginForm	
<b>Parent Class:</b> django.forms.Form	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Log in form in login.html</li> <li>• Check if all fields have input</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>•</li> </ul>

<b>Class Name:</b> view	
<b>Parent Class:</b> N/A	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• link the html files and databases</li> <li>• insert the form in html</li> <li>• send smtp emails</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>•</li> </ul>

# Software Architecture

