Online Auction System Using Django

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In this article, I am Going to Build an **Online auction system** Using Django. Physical auctions are limited by location but online auctions are accessible globally. It opens a broader range of buyers. It Can Connect the Seller, Buyer, and admin.

Tools & Technologies Used in this Project :

- Python
- Django
- Visual Studio Code
- HTML
- CSS
- Java Script

Implementation :

Follow the below steps to implement the discussed project :

Step 1: Download Visual Studio Code and install it in your Device.

Step 2: After Setup Visual Studio Code.Press (Cntrl + Shift + X) and Install Python & Django Extension in it.

Step 3: Open Command Promt and Create a Directory.

```
>Mkdir Online_Auction
>cd Online_Auction
>code .
```

Step 4: Open shell of VSCode and create and activate virtual environment using below commands.

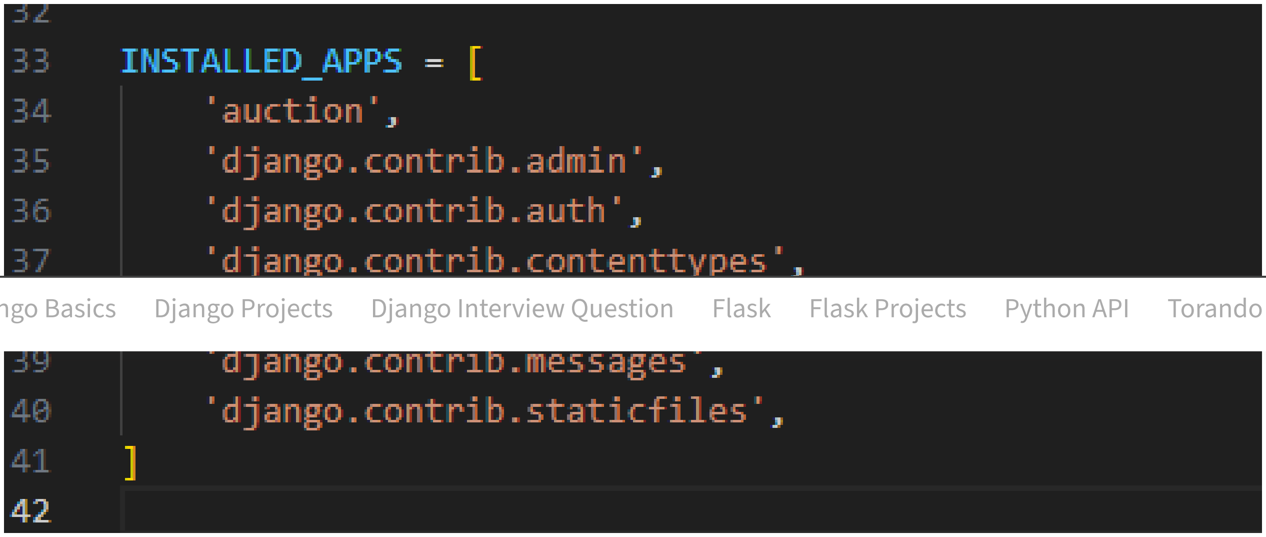
```
virtualenv venv
venv/Scripts/activate
```

```
pip install django
```

Step 4: Create the Project and app using the below commands.

```
django-admin startproject Online_Auction
cd Online_Auction
python manage.py startapp auction
```

Step 5: Add app name in Settings.py file. 'auction' or paste the below code in Settings.py file



```
INSTALLED_APPS = [
    'auction',
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.messages',
    'django.contrib.staticfiles',
]
```

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Settings.py File

Python

```python
# Online_Auction &gt; Online_Auction &gt; settings.py
import os

# Build paths inside the project like this: os.path.join(BASE_DIR, ...)
BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))


# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/2.2/howto/deployment/che
```

```
cklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = '_igtoud8=l*xejhiwtfz$ce-fu*%80&amp;^hybem91#g#)5j7td#z'

# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True

ALLOWED_HOSTS = []


# Application definition

INSTALLED_APPS = [
    'auction',
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
]

MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'Online_Auction.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    },
]

WSGI_APPLICATION = 'Online_Auction.wsgi.application'


# Database
# https://docs.djangoproject.com/en/2.2/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': os.path.join(BASE_DIR, 'db.sqlite3'),
    }
}


# Password validation
# https://docs.djangoproject.com/en/2.2/ref/settings/#auth-password-validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]


# Internationalization
# https://docs.djangoproject.com/en/2.2/topics/i18n/

LANGUAGE_CODE = 'en-us'

TIME_ZONE = 'Asia/Kolkata'

USE_I18N = True

USE_L10N = True

USE_TZ = True


# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/2.2/howto/static-files/

STATIC_URL = '/static/'
MEDIA_URL = '/media/'
MEDIA_ROOT = os.path.join(BASE_DIR,'media')
```

Step :6 Paste the Below code in urls.py file in Online_Auction.

Python

```
# Online_Auction &gt; Online_Auction &gt; urls.py
from django.contrib import admin
from django.urls import path
from django.conf import settings
from django.conf.urls.static import static
from auction.views import *

urlpatterns = [
    path('admin/', admin.site.urls),
    path('',Home,name=&quot;home&quot;),
    path('user_home',Bidder_Home,name=&quot;user_home&quot;),
    path('trainer_home',Auction_User,name=&quot;trainer_home&quot;),
    path('login_user',Login_User,name=&quot;login_user&quot;),
    path('contact',Contact,name=&quot;conRtact&quot;),
    path('about',About,name=&quot;about&quot;),
    path('contact',Contact,name=&quot;contact&quot;),
    path('edit_profile',Edit_Profile,name=&quot;edit_profile&quot;),
    path('edit_profile1',Edit_Profile1,name=&quot;edit_profile1&quot;),
    path('logout', Logout, name=&quot;logout&quot;),
    path('login_admin',Login_Admin,name=&quot;login_admin&quot;),
    path('signup', Signup_User,name=&quot;signup&quot;),
    path('change_password',Change_Password,name=&quot;change_password&quot;),
    path('change_password1',Change_Password1,name=&quot;change_password1&quot;),
    path('admin_home', Admin_Home,name=&quot;admin_home&quot;),
    path('add_product', Add_Product,name=&quot;add_product&quot;),
    path('new_product', New_product,name=&quot;new_product&quot;),
    path('bidder_user', Bidder_User,name=&quot;bidder_user&quot;),
    path('user_delete/&lt;int:id&gt;', user_delete,name=&quot;user_delete&quot;),
    path('seller_user', Seller_User,name=&quot;seller_user&quot;),
    path('user_delete_seller/&lt;int:id&gt;', user_delete_seller,name=&quot;user_delete_seller&quot;),
    path('all_product2', All_product2,name=&quot;all_product2&quot;),
    path('profile', profile, name='profile'),
    path('result', result, name='result'),
    path('view_auction/&lt;int:pid&gt;', view_auction, name='view_auction'),
    path('particpated_user(&lt;int:pid&gt;)', Participated_user, name='particpated_user'),
    path('profile1', Profile1, name='profile1'),
    path('status(&lt;int:pid&gt;)', Change_status, name='status'),
    path('winner(&lt;int:pid&gt;)', Winner,name='winner'),
    path('winner2(&lt;int:pid&gt;)', Winner2,name='winner2'),
    path('winner1(&lt;int:pid&gt;)', Winner1,name='winner1'),
    path('start_auction(&lt;int:pid&gt;)', Start_Auction, name='start_auction'),
    path('view_category', view_category, name='view_category'),
    path('view_subcategory', view_subcategory, name='view_subcategory'),
    path('view_session_date', view_session_date, name='view_session_date'),
    path('view_session_time', view_session_time, name='view_session_time'),
    path('add_category', Add_Category, name='add_category'),
    path('add_subcategory', Add_SubCategory, name='add_subcategory'),
    path('add_session_date', Add_Session_date, name='add_session_date'),
    path('add_session_time', Add_Session_time, name='add_session_time'),
    path('bidding_status', Bidding_Status, name='bidding_status'),
    path('bidding_status2', Bidding_Status2, name='bidding_status2'),
    path('all_product', All_product, name='all_product'),
    path('edit_category(&lt;int:pid&gt;)', Edit_Category, name='edit_category'),
    path('product_detail(&lt;int:pid&gt;)', product_detail, name='product_detail'),
    path('edit_subcategory(&lt;int:pid&gt;)', Edit_SubCategory, name='edit_subcategory'),
    path('edit_session_date(&lt;int:pid&gt;)', Edit_Session_date, name='edit_session_date'),
    path('edit_session_time(&lt;int:pid&gt;)', Edit_Session_time, name='edit_session_time'),
    path('delete_category(&lt;int:pid&gt;)', delete_category, name='delete_category'),
    path('delete_subcategory(&lt;int:pid&gt;)', delete_subcategory, name='delete_subcategory'),
    path('delete_session_date(&lt;int:pid&gt;)', delete_session_date, name='delete_session_date'),
    path('delete_session_time(&lt;int:pid&gt;)', delete_session_time, name='delete_session_time'),
    path('load-courses/', load_courses, name='ajax_load_courses'),
    path('load-courses1/', load_courses1, name='ajax_load_courses1'),
    path('product_detail2(&lt;int:pid&gt;)', product_detail2, name='product_detail2'),
]+static(settings.MEDIA_URL,document_root=settings.MEDIA_ROOT)
```

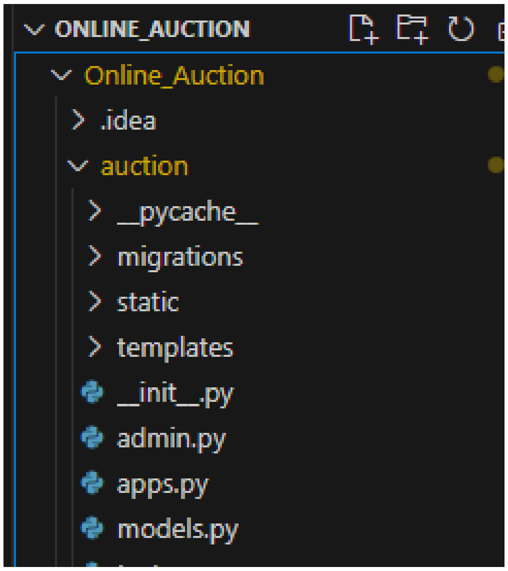
Step 7: Go to admin.py file and paste the below code.

Python

```
#Online_Auction &gt; auction &gt; admin.py
from django.contrib import admin
from .models import *

# Register your models here.'
admin.site.register(Bidder)
admin.site.register(Result)
admin.site.register(Payment)
admin.site.register(Member_fee)
admin.site.register(Status)
admin.site.register(Send_Feedback)
admin.site.register(Auction_User)
admin.site.register(Category)
admin.site.register(Sub_Category)
admin.site.register(Session_date)
admin.site.register(Session_Time)
admin.site.register(Product)
admin.site.register(Aucted_Product)
admin.site.register(Participant)
```

Step 9: Create two folders in auction one is "templates" , second is "static"



```
ONLINE_AUCTION
  Online_Auction
    .idea
    auction
      __pycache__
      migrations
      static
      templates
      __init__.py
      admin.py
      apps.py
      models.py
```

Online_Auction > auction > Static , Online_Auction > auction > templates

Step 10: Open views.py file from auction_app and paste the below code.

Python

```python
from django.shortcuts import render
from django.shortcuts import render, redirect
from django.http import HttpResponse
from auction_app.models import *
from datetime import date
today=date.today()
global_var = None # Initialize it with a default value
# Function to set the global variable to a dynamic value
def set_global_variable(value):
    global global_var
    global_var = value
# Function to access the global variable
```

```
def access_global_variable():
    return global_var
def maxbid(id):
    li=[]
    global maximum
    item = Item.objects.get(id=id)
    print(&quot;item id--&gt;&quot;,item.id)
    user = User.objects.all().values()
    # item = Item.objects.all().values()
    for i in user:
        a = i['bid_amt']
        print(&quot;--&gt;&quot;,a)
        li.append(a)
        maximum = max(li)
    print(li)
    print(&quot;maximum&quot;,maximum)
    item.max_bid = maximum
    item.save()
    print(&quot;Item Saved&quot;)
    return maximum
        # print(a)
        # li.append(i)
        # print(&quot;list--&gt;&quot;,li)
        # print(max(li))
        # return a
def bid(request):
    item = Item.objects.all()
    # user = User.objects.all()
    maxbid()
    # print(item.item_name.values)
    return render(request,'base.html',
{&quot;item&quot;:item})
def login(request):
    if request.method == 'POST':
        email = request.POST['email']
        print(email)
        password = request.POST['password']
        print(password)
        item = Item.objects.all()
        try:
            user = User.objects.get(email=email)
            print(&quot;userpass---
&gt;&quot;,user.password)
            if user is not None:
                if password == user.password:
                    global mailid
                    # print(&quot;Mail id here---&gt;&quot;,item.item_status)
                    set_global_variable(email)
                    mailid = email
                    mail= email
                    # print(&quot;Ye rhi dates--&gt;&quot;,item.start_date)
                    # print(&quot;ye print ho gyi---&gt;&quot;,mailid)
                    # print(&quot;outer funciton global ---&gt;&quot;,mail)
                    return render(request,'base.html',{&quot;item&quot;:item,&quot;mailid&quot;:mailid})
                else:
                    print(&quot;Wrong pass&quot;)
                    return HttpResponse(&quot;Wrong Password&quot;)
        except:
            return HttpResponse(&quot;email id Not exist&quot;)
            print(&quot;email id Not  exist&quot;)
    return render(request,'login.html')
def register(request):
    if request.method == 'POST':
        name = request.POST['name']
        print(name)
        email = request.POST['email']
        print(email)
        phone = request.POST['phone']
        print(phone)
        password = request.POST['password']
        print(password)
        user = User.objects.all().values()
        for i in user:
            flag=0
            dataemail = i['email']
            if dataemail == email:
                flag=1
                return HttpResponse(&quot;Email id Already Exist&quot;)
        if flag!=1:
            new=User.objects.create(name=name,email=email,phone=phone,
password=password )
            new.save()
            print(f&quot;User Create with email {email}&quot;)
            return HttpResponse(f&quot;User Created Successfully with email {email}&quot;)
    return render(request,'register.html')
def applybid(request,id):
    mail = access_global_variable()
    print(&quot;Yaha pe ye mail ai h applybid mei --&gt;&quot;,mail)
    item = Item.objects.get(id=id)
    user = User.objects.get(email=mail)
    print(&quot;user---&gt;&quot;,user.email)
    # for i in user:
    #     # print(&quot;i--&gt;&quot;,i)
    #     if i.email == mail:
    #         print(&quot;mail id--&gt;&quot;,i.email)
    if request.method == &quot;POST&quot;:
        maximum=request.POST['max_bid']
        item.max_bid = maximum
        user.bid_amt = maximum
        print(&quot;user.status---&gt;&quot;,user.status)
        user.status =&quot;Applied&quot;
        print(&quot;user.status---&gt;&quot;,user.status)
        item.save()
        user.save()
        print(&quot;Hogya save&quot;)
        maxbid(id)
        return redirect('/')
    return render(request,'applybid.html', {&quot;item&quot;:item,&quot;user&quot;:user})
def home(request):
    item = Item.objects.all()
    return render(request,'home.html', {&quot;item&quot;:item})
```

Step 11: Create the **base.html** file in templates folder and paste the below code.

HTML

```
&lt;!DOCTYPE html&gt;
&lt;html&gt;
&lt;head&gt;
&lt;style&gt;
table {
  font-family: arial, sans-serif;
  border-collapse: collapse;
  width: 100%;
}

td, th {
  border: 1px solid #dddddd;
  text-align: left;
  padding: 8px;
}

tr:nth-child(even) {
  background-color: #dddddd;
}
a:link, a:visited {
  background-color: #f44336;
  color: white;
  padding: 14px 25px;
  text-align: right;
  text-decoration: none;
  display: inline-block;
}

a:hover, a:active {
  background-color: Blue;
}
&lt;/style&gt;
&lt;/head&gt;
&lt;body&gt;

&lt;center&gt;&lt;h2&gt;Available Auction&lt;/h2&gt;&lt;/center&gt;
&lt;a href=&quot;{% url 'home' %}&quot; target=&quot;_blank&quot;&gt;Logout&lt;/a&gt;
{{mailid}}

&lt;table&gt;
```

```
  &lt;thread&gt;
  &lt;tr&gt;
    &lt;th&gt;SNo.&lt;/th&gt;
    &lt;th&gt;Product Name&lt;/th&gt;
    &lt;th&gt; Bid Amount &lt;/th&gt;
    &lt;th&gt;Description&lt;/th&gt;
    &lt;th&gt;Start Date&lt;/th&gt;
    &lt;th&gt;End Date&lt;/th&gt;
    &lt;th&gt;Action &lt;/th&gt;
  &lt;/tr&gt;
&lt;/thread&gt;
{% for i in item %}
  &lt;tr&gt;
    &lt;td&gt;{{forloop.counter}}&lt;/td&gt;
    &lt;td&gt;  {{i.item_name}}&lt;/td&gt;
    &lt;td&gt;  {{i.basic_amount}}&lt;/td&gt;
    &lt;td&gt;  {{i.desc}}&lt;/td&gt;
    &lt;td&gt;  {{i.start_date}}&lt;/td&gt;
    &lt;td&gt;  {{i.end_date}}&lt;/td&gt;
    &lt;td&gt;&lt;a href=&quot;{% url 'applybid' i.id %}&quot; target=&quot;_blank&quot;&gt;Apply&lt;/a&gt;&lt;/td&gt;
    {% comment %} &lt;td&gt;&lt;a href=&quot;{% url 'applybid' i.id %}&quot;&gt;&lt;button class=&quot;btn btn-primary&quot;&gt; Apply&lt;/button&gt;&lt;/a&gt; &lt;/td&gt; {% endcomment %}

    {% endfor %}
  &lt;/tr&gt;
&lt;/table&gt;

&lt;/body&gt;
&lt;/html&gt;
```

Step 12: Create the **home.html** file in templates folder and paste the below code.

HTML

```
&lt;!DOCTYPE html&gt;
&lt;html&gt;
&lt;head&gt;
```

```
&lt;style&gt;
table {
  font-family: arial, sans-serif;
  border-collapse: collapse;
  width: 100%;
}

td, th {
  border: 1px solid #dddddd;
  text-align: left;
  padding: 8px;
}

tr:nth-child(even) {
  background-color: #dddddd;
}
    a:link, a:visited {
      background-color: #f44336;
      color: white;
      padding: 14px 25px;
      text-align: right;
      text-decoration: none;
      display: inline-block;
    }

    a:hover, a:active {
      background-color: Blue;
    }
    &lt;/style&gt;
&lt;/head&gt;
&lt;body&gt;

&lt;center&gt;&lt;h2&gt;Available Auction&lt;/h2&gt;&lt;/center&gt;
&lt;a href=&quot;{% url 'login' %}&quot; target=&quot;_blank&quot;&gt;Login&lt;/a&gt;
&lt;table&gt;
  &lt;thread&gt;
  &lt;tr&gt;
    &lt;th&gt;SNo.&lt;/th&gt;
    &lt;th&gt;Product Name&lt;/th&gt;
    &lt;th&gt; Bid Amount &lt;/th&gt;
    &lt;th&gt; Max Bid &lt;/th&gt;
    &lt;th&gt;Results &lt;/th&gt;
  &lt;/tr&gt;
&lt;/thread&gt;
{% for i in item %}
  &lt;tr&gt;
    &lt;td&gt;{{forloop.counter}}&lt;/td&gt;
    &lt;td&gt;  {{i.item_name}}&lt;/td&gt;
    &lt;td&gt;  {{i.basic_amount}}&lt;/td&gt;
    &lt;td&gt;{{i.max_bid}}&lt;/td&gt;
    &lt;td&gt;&lt;/td&gt;

    {% endfor %}
  &lt;/tr&gt;
&lt;/table&gt;

&lt;/body&gt;
&lt;/html&gt;
```

Step 13: Create the **login.html** file in templates folder and paste the below code.

HTML

```
&lt;!DOCTYPE html&gt;
&lt;html lang=&quot;en&quot;&gt;
&lt;head&gt;
    &lt;meta charset=&quot;UTF-8&quot;&gt;
    &lt;meta name=&quot;viewport&quot; content=&quot;width=device-width, initial-scale=1.0&quot;&gt;
    &lt;title&gt;Login Page&lt;/title&gt;
    &lt;style&gt;
        body {
            font-family: Arial, sans-serif;
            background-color: #f4f4f4;
            margin: 0;
            padding: 0;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
        }

        .container {
            background-color: white;
            padding: 20px;
            border-radius: 5px;
            box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.2);

        }

        input[type=&quot;text&quot;], input[type=&quot;password&quot;] {
            width: 90%;
            padding: 7px;
            margin: 8px 0;
            border: 1px solid #ccc;
            border-radius: 3px;
        }

        button {
            background-color: #007BFF;
            color: white;
            padding: 10px 20px;
            border: none;
            border-radius: 3px;
            cursor: pointer;
        }

        button:hover {
            background-color: #0056b3;
        }

        a {
            text-decoration: none;
            color: #007BFF;
        }
    &lt;/style&gt;
&lt;/head&gt;
&lt;body&gt;
    &lt;div class=&quot;container&quot;&gt;
        &lt;center&gt;&lt;h2&gt;LOGIN PAGE&lt;/h2&gt;&lt;/center&gt;
        &lt;form method=&quot;post&quot;&gt;
        {% csrf_token %}
            &lt;label for=&quot;email&quot;&gt;Email:&lt;/label&gt;&lt;br&gt;
            &lt;input type=&quot;text&quot; id=&quot;email&quot; name=&quot;email&quot; required&gt;&lt;br&gt;&lt;br&gt;

            &lt;label for=&quot;password&quot;&gt;Password:&lt;/label&gt;&lt;br&gt;
            &lt;input type=&quot;password&quot; id=&quot;password&quot; name=&quot;password&quot; required&gt;&lt;br&gt;&lt;br&gt;

            &lt;center&gt;&lt;button type=&quot;submit&quot;&gt;Login&lt;/button&gt;&lt;/center&gt;
        &lt;/form&gt;
        &lt;p&gt;Don't have an account? &lt;a href=&quot;{% url 'register'%}&quot;&gt;Register here&lt;/a&gt;&lt;/p&gt;
    &lt;/div&gt;
&lt;/body&gt;
&lt;/html&gt;
```

Step 14: Create the **register.html** file in templates folder and paste the below code.

HTML

```
&lt;!DOCTYPE html&gt;
&lt;html&gt;
&lt;head&gt;
    &lt;title&gt;User Registration&lt;/title&gt;
    &lt;style&gt;
        body {
            font-family: Arial, Helvetica, sans-serif;
            background-color: #f2f2f2;
        }
        .container {
            background-color: #fff;
            border-radius: 5px;
            box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
            padding: 20px;
            margin: 0 auto;
            max-width: 400px;
        }
        .form-group {
            margin-bottom: 15px;
        }
        label {
            display: block;
            font-weight: bold;
        }
        input[type=&quot;text&quot;],
        input[type=&quot;email&quot;],
        input[type=&quot;tel&quot;],
        input[type=&quot;password&quot;] {
            width: 100%;
            padding: 7px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 3px;
        }
        input[type=&quot;submit&quot;] {
            background-color: #007BFF;
            color: #fff;
            border: none;
            border-radius: 3px;
            padding: 10px 20px;
            cursor: pointer;
        }
    &lt;/style&gt;
&lt;/head&gt;
&lt;body&gt;
    &lt;div class=&quot;container&quot;&gt;
        &lt;center&gt;&lt;h2&gt;User Registration&lt;/h2&gt;&lt;/center&gt;
        &lt;form action=&quot;&quot; method=&quot;POST&quot;&gt;
        {% csrf_token %}
            &lt;div class=&quot;form-group&quot;&gt;
                &lt;label for=&quot;name&quot;&gt;Name:&lt;/label&gt;
                &lt;input type=&quot;text&quot; id=&quot;name&quot; name=&quot;name&quot; required&gt;
            &lt;/div&gt;
            &lt;div class=&quot;form-group&quot;&gt;
                &lt;label for=&quot;email&quot;&gt;Email:&lt;/label&gt;
                &lt;input type=&quot;email&quot; id=&quot;email&quot; name=&quot;email&quot; required&gt;
            &lt;/div&gt;
            &lt;div class=&quot;form-group&quot;&gt;
                &lt;label for=&quot;phone&quot;&gt;Phone:&lt;/label&gt;
                &lt;input type=&quot;tel&quot; id=&quot;phone&quot; name=&quot;phone&quot; required&gt;
            &lt;/div&gt;
            &lt;div class=&quot;form-group&quot;&gt;
                &lt;label for=&quot;password&quot;&gt;Password:&lt;/label&gt;
                &lt;input type=&quot;password&quot; id=&quot;password&quot; name=&quot;password&quot; required&gt;
            &lt;/div&gt;
            &lt;center&gt;&lt;input type=&quot;submit&quot; value=&quot;Register&quot;&gt;&lt;/center&gt;
        &lt;/form&gt;
    &lt;/div&gt;
&lt;/body&gt;
&lt;/html&gt;
```

Step 15: Create the **applybid.html** file in templates folder and paste the below code.

HTML

```
&lt;!DOCTYPE html&gt;
&lt;html&gt;
&lt;head&gt;
    &lt;title&gt;Auction Item Form&lt;/title&gt;
    &lt;style&gt;
        body {
            font-family: Arial, Helvetica, sans-serif;
            background-color: #f2f2f2;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
        }

        .form-container {
            background-color: #ffffff;
            border: 1px solid #ccc;
            border-radius: 5px;
            padding: 100px;
            box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
        }

        .form-container h2 {
            text-align: center;
        }

        .form-container label,
        .form-container input,
        .form-container textarea {
            display: block;
            margin-bottom: 15px;
        }

        .form-container input,
        .form-container textarea {
            width: 100%;
            padding: 10px;
            border: 1px solid #ccc;
            border-radius: 3px;
        }

        .form-container input[type=&quot;submit&quot;] {
            background-color: #007BFF;
            color: #fff;
            border: none;
            border-radius: 3px;
            padding: 10px 20px;
            cursor: pointer;
        }
    &lt;/style&gt;
&lt;/head&gt;
&lt;body&gt;
    &lt;div class=&quot;form-container&quot;&gt;
        &lt;h2&gt;Auction Participation Form &lt;/h2&gt;
        &lt;form method=&quot;POST&quot;&gt;
        {% csrf_token %}
            &lt;div&gt;
```

```
                    &lt;label for=&quot;item_name&quot;&gt;Item Name:&lt;/label&gt;
                    &lt;input type=&quot;text&quot; id=&quot;item_name&quot; name=&quot;item_name&quot; placeholder=&quot;{{item.item_name}}&quot; readonly&gt;
                &lt;/div&gt;
                &lt;div&gt;
                    &lt;label for=&quot;description&quot;&gt;Description:&lt;/label&gt;
                    &lt;textarea id=&quot;description&quot; name=&quot;description&quot; rows=&quot;3&quot; placeholder=&quot;{{item.desc}}&quot; readonly&gt;&lt;/textarea&gt;
                &lt;/div&gt;
                &lt;div&gt;
                    &lt;label for=&quot;basic_amount&quot;&gt;Basic Amount:&lt;/label&gt;
                    &lt;input type=&quot;number&quot; id=&quot;basic_amount&quot; name=&quot;basic_amount&quot; placeholder=&quot;{{item.basic_amount}}&quot; readonly&gt;
                &lt;/div&gt;
                &lt;div&gt;
                    &lt;label for=&quot;start_date&quot;&gt;Start Date:&lt;/label&gt;
                    &lt;input type=&quot;text&quot; id=&quot;start_date&quot; name=&quot;start_date&quot; placeholder=&quot;{{item.start_date}}&quot; readonly&gt;
                &lt;/div&gt;
                &lt;div&gt;
                    &lt;label for=&quot;end_date&quot;&gt;End Date:&lt;/label&gt;
                    &lt;input type=&quot;text&quot; id=&quot;end_date&quot; name=&quot;end_date&quot; placeholder=&quot;{{item.end_date}}&quot; readonly&gt;
                &lt;/div&gt;
                &lt;div&gt;
                    &lt;label for=&quot;max_bid&quot;&gt;Max Bid:&lt;/label&gt;
                    &lt;input type=&quot;number&quot; id=&quot;max_bid&quot; name=&quot;max_bid&quot; min=&quot;{{item.basic_amount}}&quot; required&gt;
                &lt;/div&gt;
                &lt;div&gt;
                    &lt;input type=&quot;submit&quot; value=&quot;Submit&quot;&gt;
                &lt;/div&gt;
            &lt;/form&gt;
```

```
        &lt;/div&gt;
&lt;/body&gt;
&lt;/html&gt;
```

Step :16 Open the Shell and run the following commands

```
Python manage.py makemigrations
python manage.py migrate
python manage.py runserver
```

Step: 17 Open the Browser and run the server.

Useful Resource: Building an auction system can be quite complex. For those looking to further explore advanced Django projects, the Django Web Development Course is a valuable resource.

Are you ready to elevate your web development skills from foundational knowledge to advanced expertise? Explore our Mastering Django Framework - Beginner to Advanced Course on GeeksforGeeks, designed for aspiring developers and experienced programmers. This comprehensive course covers everything you need to know about Django, from the basics to advanced features. Gain practical experience through **hands-on projects** and real-world applications, mastering essential Django principles and techniques. Whether you’re just starting or looking to refine your skills, this course will empower you to build sophisticated web applications efficiently. Ready to enhance your web development journey? Enroll now and unlock your potential with Django!

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