## ----- DJANGO TUTORIAL 12 ------

In this video we'll create the model for the items people will sell on the site. We'll also create the directories for images and static files. We'll also install Pillow, create filler items and create our views.

1. Create the items app and add it to settings

python manage.py startapp items

```
INSTALLED APPS = [
  'diango.contrib.admin',
  'django.contrib.auth',
  'django.contrib.contenttypes',
  'django.contrib.sessions',
  'django.contrib.messages',
  'diango.contrib.staticfiles',
  'crispy_forms',
  'users.apps.UsersConfig',
  'pages.apps.PagesConfig',
  'items.apps.ItemsConfig',
```

- 2. Create directory for css files mkdir BobsList/static/css
- 3. Create media/gallary directory and place default image in it no-image.png

```
# Add this to settings
STATIC ROOT = "
STATIC URL = '/static/'
STATICFILES_DIRS = (os.path.join('static'),)
MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
MEDIA_URL = '/media/'
4. Update bobs_list/urls.py
from django.contrib import admin
from diango.urls import path, include
from django.views.generic.base import TemplateView
from . import settings
from django.contrib.staticfiles.urls import static
from django.contrib.staticfiles.urls import staticfiles_urlpatterns
urlpatterns = [
  path('admin/', admin.site.urls),
  path('users/', include('users.urls')),
  path('users/', include('django.contrib.auth.urls')),
  path(", include('pages.urls')),
  path('items/', include('items.urls')),
```

```
urlpatterns += staticfiles_urlpatterns()
urlpatterns += static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
4. Install Pillow so we can use images in our model
Ctrl + C
exit
pipenv install pillow==7.0.0
pipenv shell
5. Create /items/models.py
from diango.db import models
from django.conf import settings
# Gets us access to our custom user model data
from django.contrib.auth import get user model
from django.urls import reverse
class Item(models.Model):
  title = models.CharField(max length=200)
  description = models.TextField()
  date = models.DateTimeField(auto now add=True)
  price = models.FloatField()
  photo = models.ImageField(upload_to="gallary", default='no-image.png')
  # Get cascading list of all stored users
  seller = models.ForeignKey(
  get user model(),
  on delete=models.CASCADE,)
def str (self):
  return self.title
# You should add a str and get absolute url to every
# model that you make
# This sends a user to the item detail page after
# data is submitted to the DB
def get absolute url(self):
  return reverse('item_detail', args=[str(self.id)])
Create URLs, Views and Templates for Edit and Delete
6. Add URLs to items/urls.py
from django.urls import path
from .views import(
ItemListView,
ItemUpdateView.
ItemDetailView.
ItemDeleteView.
# URLs will take the pattern of items/PrimaryKey/edit
urlpatterns = [
path('<int:pk>/edit/', ItemUpdateView.as view(), name='item edit'),
path('<int:pk>/', ItemDetailView.as_view(), name='item_detail'),
```

```
path('<int:pk>/delete/', ItemDeleteView.as_view(), name='item_delete'),
path(", ItemListView.as view(), name='item list"),
7. Update items/views.py
from django.views.generic import ListView, DetailView
from django.views.generic.edit import UpdateView, DeleteView
from django.urls import reverse lazy
from .models import Item
class ItemListView(ListView):
 model = Item
 template name = 'item list.html'
class ItemDetailView(DetailView):
 model = Item
 template name = 'item detail.html'
class ItemUpdateView(UpdateView):
 model = Item
 fields = ('title', 'description', 'price')
 template_name = 'item_edit.html'
class ItemDeleteView(DeleteView):
 model = Item
 template name = 'item delete.html'
 success_url = reverse_lazy('item_list')
8. Make app show in items/admin
from django.contrib import admin
from .models import Item
admin.site.register(Item)
9. Create our template in templates/item list.html
ListView returns an object called object list which we'll cycle through with a for loop.
{% extends 'base.html' %}
{% block title %}Items for Sale{% endblock title %}
{% block content %}
<div class="card-columns">
{% for item in object_list %}
<div class="card">
 <div class="card-body text-center">
  <img class="card-img-top" src="{{ item.photo.url }}" alt="{{ item.title }}">
  <h4 class="card-title">{{ item.title }}</h4>
  {{ item.price }}
  <a href="{% url 'item_detail' item.pk %}" class="btn btn-primary">More Info</a>
 </div>
</div>
{% endfor %}
</div>
{% endblock content %}
```

10. Migrate the model python manage.py makemigrations items python manage.py migrate