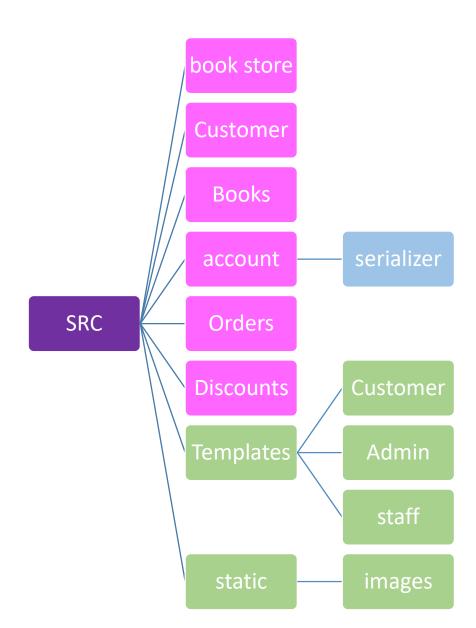
پروژه فروشگاه آنلاین کتاب

آرزو مرادی چگنی گزارش فنی مرداد ماه directory

.py

package

معماری کلی پروژه به شرح زیر می باشد:



```
FinalProjectDjango C:\Users\Public\Documents\FinalPr
                                                         # Application definition

✓ Image: Src.

  > idea
                                                         INSTALLED_APPS = [
  > account

▼ book_store

        🛵 __init__.py
        🛵 asgi.py
        ち settings.py
        ื urls.py
        🛵 wsgi.py
  > books
  > customers
  > discounts
  > a orders
     static
     templates
     db.sqlite3
     the manage.py
```

```
FinalProjectDjango C:\Users\Public\Documents\FinalPr
                                                                                                                                                                                  from django.db import models

✓ Image: Since the si
         > idea
         > account
                                                                                                                                                                                 class Category(models.Model):
         > book store
                                                                                                                                                                                                name = models.CharField(max_length=100)

✓ books

                 > Immigrations
                          🛵 __init__.py
                                                                                                                                                                                                               return self.name
                          admin.py
                          🛵 apps.py
                          nodels.py
                          ち tests.py
                                                                                                                                                                                class Book(models.Model):
                          ち views.py
                                                                                                                                                                                                title = models.CharField(max_length=100)
         > customers
                                                                                                                                                                                                author = models.CharField(max_length=100)
         > discounts
                                                                                                                                                                                                inventory = models.IntegerField()
         > orders
                                                                                                                                                                                                created = models.DateTimeField(auto_now_add=True)
                 static
                                                                                                                                                                                                price = models.CharField(max_length=10)
                 templates
                                                                                                                                                                                                categories = models.ManyToManyField(Category)
                 db.sqlite3
                                                                                                                                                                                                price_discount = models.CharField(max_length=20, default=0, blank=True)
                  the manage.py
> venv_bookstore
III External Libraries
 Scratches and Consoles
                                                                                                                                                                                                               return self.title
```

```
FinalProjectDjango C:\Users\Public\Documents\FinalPr 1
                                                  from django.db import models
✓ src
  > idea
  > 🖿 account
                                                  class Customer(models.Model):
  > book store
                                                      email = models.EmailField()
  > 🖿 books
                                                      password = models.CharField(max_length=10)

✓ □ customers

                                                      first_name = models.CharField(max_length=50)
     > migrations
                                                      last_name = models.CharField(max_length=50)
       💑 __init__.py
                                                      phone = models.CharField(max_length=20)
       ื admin.py
                                                      created = models.DateTimeField(auto_now_add=True)
       🛵 apps.py
       the models.py
       tests.py
                                                      def __str__(self):
       ち views.py
                                                           return f"{self.first_name} {self.last_name}"
  > discounts
  > orders
    static
                                                  class Address(models.Model):
    templates
                                                      address = models.TextField(max_length=1000)
    db.sqlite3
                                                      customer = models.ForeignKey(Customer, on_delete=models.CASCADE)
    🐍 manage.py
> venv_bookstore
Ill External Libraries
Scratches and Consoles
                                                           return f"{self.customer}"
```

برای کاستومایز کردن Customer و Address به شکل زیر عمل شده است. برای اینکه یک مشتری بتواند چندین آدرس داشته باشد از inline استفاده شده است. حال با استفاده از list display فیلدهای مورد نیاز را نمایش میدهیم.

با استفاده از تابع get_address آدرسهای هر مشتری براساس id آن دریافت و برای نمایش آنها از یک لیست استفاده میکنیم.

```
FinalProjectDjango C:\Users\Public\Documents\FinalPr
                                                  from django.contrib import admin
∨ I src
                                                 from .models import *
  > idea
  > account
  > book store
                                                 class AddressAdmin(admin.TabularInline):
  > D books
                                                      model = Address

✓ La customers

    > migrations
       6 _init_.py
                                                 class CustomerAdmin(admin.ModelAdmin):
       admin.py
                                                      inlines = [AddressAdmin, ]
       apps.py
       models.py
                                                      list_display = ('last_name', 'first_name', 'created', 'get_address',)
       tests.py
       wiews.py
                                                      def get_address(self, obj):
  > discounts
                                                          adr = Address.objects.filter(customer=obj.id)
  > orders
                                                          add = []
    static
                                                          for ad in adr:
    templates
                                                              add.append(ad.address)
    db.sqlite3
                                                          return add
     manage.py
> venv_bookstore
Ill External Libraries
Scratches and Consoles
                                                  admin.site.register(Customer, CustomerAdmin)
```

در آپdiscounts، دو مدل ساخته شده است: مدل Discount برای تخفیفهای در صدی و نقدی و مدل Discountcode برای تخفیف امتیازی در نظر گرفته شده است.

```
FinalProjectDjango C:\Users\Public\Documents\FinalPr

✓ Image: Src

                                                  class Discount(models.Model):
  > idea
                                                      TYPE_CHOICE = [('1', 'c, out, o'), ('2', 'intercolor)]
  > account
                                                      type = models.CharField(max_length=20)
  > book store
                                                      amount = models.CharField(max_length=20)
  > books
                                                      list_books = models.ManyToManyField(Book, blank=True, related_name='list_b
  > customers
  def __str__(self):
    > migrations
       init_.py
                                                          names = self.list_books.all()
       ื admin.py
                                                          return ",".join([str(book.title) for book in names])
       apps.py
       the models.py
       tests.py
                                                  class DiscountCode(models.Model):
       to views.py
                                                      'امتىازى' = type'
  > orders
                                                      code = models.CharField(max_length=20)
    static
                                                      from_date = models.DateField()
    templates
                                                      to_date = models.DateField()
    db.sqlite3
    the manage.py
                                                      amount = models.CharField(max_length=20)
> venv bookstore
III External Libraries
                                                      def __str__(self):
Scratches and Consoles
                                                          return self.code
```

برای کاستومایز کردن Discount به شکل زیر عمل شده است. حال برای نمایش فیلدهای آن از Discount ااستفاده شده است. از تابع get_title برای گرفتن قیمت هر کتاب و از تابع get_price برای گرفتن قیمت هر کتاب و از تابع get_price برای گرفتن قیمت هر کتاب با اعمال تخفیف در صدی یا نقدی بر روی آن است.

```
@admin.register(Discount)
FinalProjectDjango C:\Users\Public\Documents\FinalPr
                                                                                                                                                  A1 A5 ^

✓ Image: Src

                                             class DiscountAdmin(admin.ModelAdmin):
  > idea
                                                  list_display = ('type', 'get_title', 'amount', 'get_price', 'get_price_discount')
  > account
 > book_store
                                      11 def get_title(self, obj):
  > 🖿 books
                                                     books = obj.list_books.all()
  > customers
                                                     return ",".join([str(book.title) for book in books])

✓ discounts

    > Immigrations
                                      15 def get_price(self, obj):
      🛵 __init__.py
                                                     books = obj.list_books.all()
      admin.py
      ื apps.py
                                                     return [book.price for book in books]
      nodels.py
      tests.py
                                       to views.py
                                                     books = obj.list_books.all()
  > orders
                                                     total_price = 0
    static
                                                     for book in books:
    templates
                                                         : 'درصدی'== if obj.type
    db.sqlite3
                                                             print(book)
    amanage.py
                                                             total_price = float(book.price)-(float(book.price)*float(obj.amount)/100)+total_price
> venv bookstore
III External Libraries
Scratches and Consoles
                                                             total_price = float(book.price)-float(obj.amount)+total_price
                                                         book.price_discount = total_price
                                                         book.save()
```

```
FinalProjectDjango C:\Users\Public\Documents\FinalPr

✓ Image: Src

                                                  class Order_items(models.Model):
  > idea
                                                       book = models.ManyToManyField(Book, blank=True)
  > 🖿 account
                                                       prices=models.CharField(max_length=20, default=0)
  > book store
   > books
                                                       def __str__(self):
   > customers
                                                           books = self.book.all()
   > discounts

✓ □ orders

                                                           return ",".join([str(book.title) for book in books])
     > migrations
        to __init__.py
        ื admin.py
                                                  class Order(models.Model):
        🛵 apps.py
                                                       STATUS_CHOICE = [('order', 'سفارش'), ('record', 'ثبت ')]
        nodels.py
                                                       total_price = models.CharField(max_length=20, blank=True, default=0)
       tests.py
                                                       time = models.DateTimeField(auto now=True)
        to views.py
                                                       status = models.CharField(choices=STATUS_CHOICE, max_length=10)
     static
                                                       order_item = models.ForeignKey(Order_items, on_delete=models.CASCADE)
     templates
                                                       discount = models.ForeignKey(DiscountCode, on_delete=models.SET_NULL, null=True)
     db.sqlite3
     tale manage.py
                                                       customer = models.ForeignKey(Customer, on_delete=models.CASCADE)
> venv bookstore
IIII External Libraries
Scratches and Consoles
                                                           return f"{self.customer}, {self.order_item}, {self.status}"
```

برای کاستومایز کردن orders به شکل زیر عمل شده است. حال از تابع get_title برای گرفتن نام هر کتاب و از تابع get_price برای گرفتن قیمت هر کتاب می باشد.

```
src
                                                 @admin.register(Order_items)
  > 🖿 .idea
                                                 class OrderItemAdmin(admin.ModelAdmin):
  > 🖿 account
                                                     list_display = ('get_title', 'get_price')
  > book store
  > 🖿 books
                                                     def get_title(self, obj):
  > customers
                                                          books = obj.book.all()
  > discounts

✓  orders

    > Immigrations
       Linit_.py
       🖧 admin.py
                                                     def get_price(self, obj):
       🖧 apps.py
                                                         books = obj.book.all()
       👗 models.py
       tests.py
                                                         lst_price = []
       📥 views.py
                                                          for book in books:
    static
                                                              if book.price_discount != '0':
    templates
                                                                  lst_price.append(float(book.price_discount))
    the manage.py
 venv bookstore
                                                                  lst_price.append(float(book.price))
Ill External Libraries
                                                              total = sum(lst_price)
Scratches and Consoles
                                                         obj.prices = total
                                                          return total
```

```
✓ Isrc

 idea .idea
                                                @admin.register(Order)
 > account
                                               class OrdersAdmin(admin.ModelAdmin):
 > book store
                                                    list_display = ('customer', 'order_item', 'calculate_price', 'time')
 > books
  > customers
                                                    def calculate_price(self, obj):
  > discounts
 ✓ □ orders
   > Immigrations
                                                        prices = int(obj.order_item.prices)
      🚜 __init__.py
      admin.py
                                                        dis = obj.discount.amount
      🛵 apps.py
      nodels.py
                                                        if dis != "":
      tests.py
                                                            total = prices - prices * int(dis) / 100
      🟅 views.py
    static
    templates
                                                            total = prices
    db.sglite3
    amanage.py
                                                        obj.total_price = total
> veny bookstore
                                                        obj.save()
IIII External Libraries
                                                        return total
```

در این تابع با استفاده از عنوان کتاب و نام نویسنده، کتاب مورد نظر را جستجو میکنیم.

```
def search_bar(request):
    if request.method == "POST":
        searched = request.POST['searched']
        books = Book.objects.filter(Q(title__contains=searched) | Q(author__contains=searched))
        context = {'searched': searched, 'books': books}
        return render(request, 'books/search_bar.html', context)
```

در این تابع، یک سفارش در صورتی به لیست سفارشات افزوده می شود که کتاب مورد نظر در انبار موجود باشد در صورت عدم وجود کتاب مورد نظر با خطا 404 مواجه خواهد شد.

```
ef add_order(request, pk):
      add a book to order
  ords = Order_items.objects.all()
  ids = ords.values_list('pk', flat=True)
  ids = list(ids)
  if ords.exists():
      b = Order_items.objects.get(id=ids[0])
      item = get_object_or_404(Book, pk=pk)
      # check the store of book
      if item.inventory > 0:
          if item.price_discount != 0:
              p = item.price_discount
              p = item.price
          name = item.title
          book = Book.objects.filter(title=name).get(title=name)
          b.book.add(book)
          b.quantity += 1
          b.save()
          return redirect(request.META['HTTP_REFERER'])
```

```
else:
    messages.warning(request, ".ناموجود است.")
    return redirect(request.META['HTTP_REFERER'])
item = get_object_or_404(Book, pk=pk)
if item.inventory > 0:
    if item.price_discount != 0:
        p = item.price_discount
        p = item.price
    name = item.title
    book = Book.objects.filter(title=name)
    print(book)
    order_items = Order_items.objects.create(prices=p)
    order_items.book.set(book)
    order_items.quantity += 1
    order_items.save()
    return redirect(request.META['HTTP_REFERER'])
    messages.warning(request, "أماموجود است.")
    return redirect(request.META['HTTP_REFERER'])
```

در این تابع، کتاب مورد نظر توسط مشتری به کارت خرید افزوده می شود.

```
def get_order_item(request):
   ords = Order_items.objects.all()
   ids = ords.values_list('pk', flat=True)
   ids = list(ids)
   bk = Order_items.objects.get(id=ids[0])
   books = bk.book.all()
   books = list(books)
   title = [book.title for book in books]
   price = [book.price for book in books]
   price_disc = []
   for book in books:
       if book.price_discount != '0':
           price_disc.append(book.price_discount)
           price_disc.append(book.price)
   bk.prices = 0
   for p in price_disc:
       bk.prices = bk.prices + float(p)
   bk.save()
```

```
for book in books:
    if book.price_discount != '0':
        price_disc.append(book.price_discount)
    else:
        price_disc.append(book.price)

bk.prices = 0
for p in price_disc:
        bk.prices = bk.prices + float(p)

bk.save()
num = len(title)
listzip = zip(title, price, price_disc)
return render(request, 'books/order_items.html', {'listzip': listzip})
```

```
def remove_order_items(request, title):
       remove order item from shopping cart
   ords = Order_items.objects.all()
   ids = ords.values_list('pk', flat=True)
   # all id
   ids = list(ids)
   bk = Order_items.objects.get(id=ids[0])
   item = get_object_or_404(Book, title=title)
   bk.prices = float(bk.prices) - float(item.price)
   bk.book.remove(item)
   bk.save()
   return redirect(request.META['HTTP_REFERER'])
```

در این تابع سفارش به لیست سفارشات مشتری بعد از فرایند ثبت افزوده می شود و هم چنین در صورت وجود کد تخفیف امتیازی قبل از فرایند ثبت بر روی لیست سفارشات و یا سفارش مورد نظر اعمال خواهد شد.

```
def send_order(request):

"""

send the order to order list

"""

ords = Order_items.objects.all()

ids = ords.values_list('pk', flat=True)

bk = Order_items.objects.get(id=ids[0])

prices = float(bk.prices)

total = prices

total_discount = total

times = datetime.now().date()

order = Order.objects.create(

time=times, order_item=bk, total_price=total, status='""")

order.get_book()
```

```
if request.method == "POST":
    code = request.POST['code']
   code1 = DiscountCode.objects.filter(code=code)
   if code1.exists():
        today = datetime.now().date()
        first = code1[0].from_date
        final = code1[0].to date
        if first < today < final:</pre>
            amt = float(code1[0].amount)
           total_discount = prices - prices * float(amt) / 100
            order.discount = code1[0]
            order.price_with_discount()
           order.save()
            messages.warning(request, ' .اکد نامعتبر است. ')
            return redirect(request.META['HTTP_REFERER'])
        messages.warning(request, ' .اكلد ناموجود است. ')
        return redirect(request.META['HTTP_REFERER'])
```

```
order_item = order.order_item
# set the status to record
status = order.status
id = order.id
context = {'order': order_item, 'total': total, 'discount': total_discount, 'status': status, 'id': id}
return render(request, 'orders/orderlist.html', context)
```

```
def record_order(request, id):
      record the order
   order = get_object_or_404(Order, id=id)
   date_create = datetime.now().date()
   order.time = date_create
   order.status = 'record'
   order.save()
   bk = Order.objects.get(id=id)
   'ثــت' = bk.status
   bk.save()
   order_item = order.order_item
   for item in order_item.book.all():
       book = Book.objects.filter(title=item)
       invent = int(book[0].inventory) - 1
       book.update(inventory=invent)
   context = {'status': bk.status, 'order': bk.books, 'prices': bk.total_price, 'time': bk.time}
   ords = Order_items.objects.all()
   ids = ords.values_list('pk', flat=True)
   bk = Order_items.objects.get(id=ids[0])
   bk.delete()
   return render(request, 'orders/finalrecord.html', context)
```