Software Engineering Lab-5

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Python code:

```
from django.shortcuts import render
from django.http import HttpResponse
from .models import Item, Transaction, Client
from django.shortcuts import render,get object or 404
from django import forms
def index(request):
   items list=Item.objects.all()
   context={
        'items list':items list,
    return render(request, 'index.html', context)
def details(request, item id):
    item=get object or 404(Item,pk=item id)
   clients=Client.objects.all()
   return render(request, 'details.html', {'item':item, 'clients':clients})
def transferitm(request,item id)->None:
   client==Client.objects.get(place=request.POST.get("client"))
   item=Item.objects.ge(pk=item id)
   quantit=request.POST.get("quantity")
   transaction=Transaction(quantity=quantity,item=item,client=client)
    transaction.sav()
   item.quantity=item.quantity-int(quantity)
   item.save()
render(request, 'transferitm.html', { 'transaction':transaction, 'quantity':qu
antity,'item':item,'client':client})
```

```
def returnitm(request,item_id):
    client=Client.objects.get(place=request.POST.get("client"))
    item=Item.objects.get(pk=item_id)
    quantity=request.POST.get("quantity")
    transaction=Transaction(quantity=quantity,item=item,client=client)
    transaction.save()
    item.quantity=item.quantity+int(quantity)
    item.save()
    return
render(request,'returnitm.html',{'transaction':transaction,'quantity':quantity,'item':item,'client':client})
```

Errors caught by mypy:

```
PS C:\Users\student\Desktop\student-management-system-main> py -m mypy "Student Management System.py"
Student Management System.py:1: error: Skipping analyzing "django.shortcuts": module is installed, but missing library stubs or py.typed marker [import]
Student Management System.py:1: note: See https://mypy.readthedocs.io/en/stable/running mypy.html#missing.imports
Student Management System.py:5: error: Skipping analyzing "django.http": module is installed, but missing library stubs or py.typed marker [import]
Student Management System.py:5: error: Skipping analyzing "django": module is installed, but missing library stubs or py.typed marker [import]
Student Management System.py:7: error: Skipping analyzing "django": module is installed, but missing library stubs or py.typed marker [import]
Student Management System.py:26: error: Name "quantity" is not defined [name-defined]
Student Management System.py:28: error: Name "quantity" is not defined [name-defined]
Student Management System.py:38: error: Name "quantity" is not defined [name-defined]
Student Management System.py:38: error: Name "quantity" is not defined [name-defined]
Student Management System.py:38: error: Name "quantity" is not defined [name-defined]
Student Management System.py:39: error: Name "quantity" is not defined [name-defined]
Found 10 errors in 1 file (checked 1 source file)
PS C:\Users\student\Desktop\student-management-system-main>
```

Reducing errors(removing name-defined errors):

```
PS C:\Users\student\Desktop\student-management-system-main> py -m mypy "Student Management System.py": error: Skipping analyzing "django.shortcuts": module is installed, but missing library stubs or py.typed marker [import] student Management System.py:1 note: See <a href="https://mypy.readthedocs.io/en/stable/running_mypy.html#missing_imports">https://mypy.readthedocs.io/en/stable/running_mypy.html#missing_imports</a>
Student Management System.py:2: error: Skipping analyzing "django.http": module is installed, but missing library stubs or py.typed marker [import] student Management System.py:2: error: Skipping analyzing "django": module is installed, but missing library stubs or py.typed marker [import] student Management System.py:2: error: Name "client" is not defined [name-defined] student Management System.py:26: error: Name "client" is not defined [name-defined]
Student Management System.py:30: error: Name "client" is not defined [name-defined]
Found 7 errors in 1 file (checked 1 source file)

PS C:\Users\student\Desktop\student-management-system-main> py -m mypy "Student Management System.py:1: error: Skipping analyzing "django.shortcuts": module is installed, but missing library stubs or py.typed marker [import]
Student Management System.py:1: note: See https://mypy.readthedocs.io/en/stable/running mypy.html#missing_imports
Student Management System.py:2: error: Skipping analyzing "django.http": module is installed, but missing library stubs or py.typed marker [import]
Student Management System.py:2: error: Skipping analyzing "django.http": module is installed, but missing library stubs or py.typed marker [import]
Student Management System.py:2: error: Skipping analyzing "django": module is installed, but missing library stubs or py.typed marker [import]
Student Management System.py:2: error: Skipping analyzing "django": module is installed, but missing library stubs or py.typed marker [import]
Student Management System.py:2: error: Skipping analyzing "django": module is installed, but missing library s
```

Errors resolved:

```
PS C:\Users\student\Desktop\student-management-system-main> py -m mypy "Student Management System.py"
Success: no issues found in 1 source file
```

Final Code without errors:

```
from django.shortcuts import render
from django.http import HttpResponse
from .models import Item, Transaction, Client
from django.shortcuts import render,get object or 404
from django import forms
def index(request):
   items list=Item.objects.all()
   context={
        'items list':items list,
    return render(request, 'index.html', context)
def details(request, item id):
   item=get object or 404(Item, pk=item id)
   clients=Client.objects.all()
    return render(request, 'details.html', {'item':item, 'clients':clients})
def transferitm(request,item id):
   client=Client.objects.get(place=request.POST.get("client"))
   item=Item.objects.get(pk=item id)
   quantity=request.POST.get("quantity")
   transaction=Transaction(quantity=quantity,item=item,client=client)
   transaction.save()
    item.quantity=item.quantity-int(quantity)
   item.save()
render(request, 'transferitm.html',{'transaction':transaction,'quantity':qu
antity,'item':item,'client':client})
def returnitm(request, item id):
   client=Client.objects.get(place=request.POST.get("client"))
    item=Item.objects.get(pk=item id)
   quantity=request.POST.get("quantity")
   transaction=Transaction(quantity=quantity,item=item,client=client)
```

```
transaction.save()
  item.quantity=item.quantity+int(quantity)
  item.save()
  return
render(request, 'returnitm.html', { 'transaction':transaction, 'quantity':quantity, 'item':item, 'client':client})
```