Lecture # 16

CSC336 Web Technologies

Credit Hours: 3(2, 1)

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Flight Booking System

flights > urls.py

```
from django.urls import path
from . import views

urlpatterns = [
    path("", views.index, name="index"),
    path("<int:flight_id>", views.flight, name="flight"),
    path("<int:flight_id>/book", views.book, name="book")
    ]
```

flights > views.py

```
from django.http import HttpResponseRedirect
from django.urls import reverse
def book(request, flight id):
    if request.method == "POST":
        flight = Flight.objects.get(pk=flight id)
        passenger =
Passenger.objects.get(pk=int(request.POST["passenger"]))
        passenger.flights.add(flight)
        return HttpResponseRedirect(reverse("flight",
args=(flight.id,)))
```

flights > templates > flights > flight.html

```
No Passenger.
       {% endfor %}
   <h2>Add Passenger</h2>
   <form action="{% url 'book' flight.id %}" method="POST">
       {% csrf_token %}
       <select name="passenger">
       </select>
   </form>
   <a href="{% url 'index' %}">Back to Flight List.</a>
{% endblock %}
```

flights > views.py

```
def flight(request, flight_id):
    flight = Flight.objects.get(pk=flight_id)
    return render(request, "flights/flight.html", {
        "flight": flight,
        "passengers": flight.passengers.all(),
        "non_passengers": Passenger.objects.exclude(flights=flight).all()
})
```

flights > templates > flights > flight.html

```
<h2>Add Passenger</h2>
    <form action="{% url 'book' flight.id %}" method="POST">
        {% csrf_token %}
        <select name="passenger">
            {% for passenger in non_passengers %}
                <option value="{{ passenger.id }}">{{ passenger }}</option>
            {% empty %}
                <option value="-1">No Passenger available</option>
            {% endfor %}
        </select>
        <input type="submit">
   </form>
    <a href="{% url 'index' %}">Back to Flight List.</a>
{% endblock %}
```

flights > admin.py

```
# Register your models here.
class FlightAdmin(admin.ModelAdmin):
    list_display = ("id", "origin", "destination", "duration")
admin.site.register(Airport)
admin.site.register(Flight, FlightAdmin)
admin.site.register(Passenger)
```

http://localhost:8000/admin/

flights > admin.py

```
# Register your models here.
class FlightAdmin(admin.ModelAdmin):
    list display = ("id", "origin", "destination", "duration")
class PassengerAdmin(admin.ModelAdmin):
    filter horizontal = ("flights",)
admin.site.register(Airport)
admin.site.register(Flight, FlightAdmin)
admin.site.register(Passenger, PassengerAdmin)
```

http://localhost:8000/admin/

Login System

>python manage.py startapp users

airline > settings.py

```
INSTALLED APPS = [
    'flights',
    'users',
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
```

airline > urls.py

```
from django.contrib import admin
from django.urls import path
from django.urls.conf import include
urlpatterns = [
    path('admin/', admin.site.urls),
    path('flights/', include("flights.urls")),
    path('users/', include("users.urls"))
```

users > urls.py

```
from django.urls import path
from . import views
urlpatterns = [
    path("", views.index, name="index"),
    path("login", views.login view, name="login"),
    path("logout", views.logout view, name="logout"),
```

```
users > views.py
from django.http import HttpResponseRedirect
from django.urls import reverse
# Create your views here.
def index(request):
   if not request.user.is authenticated:
       return HttpResponseRedirect(reverse("login"))
def login view(request):
   return render(request, "users/login.html")
def logout view(request):
    pass
```

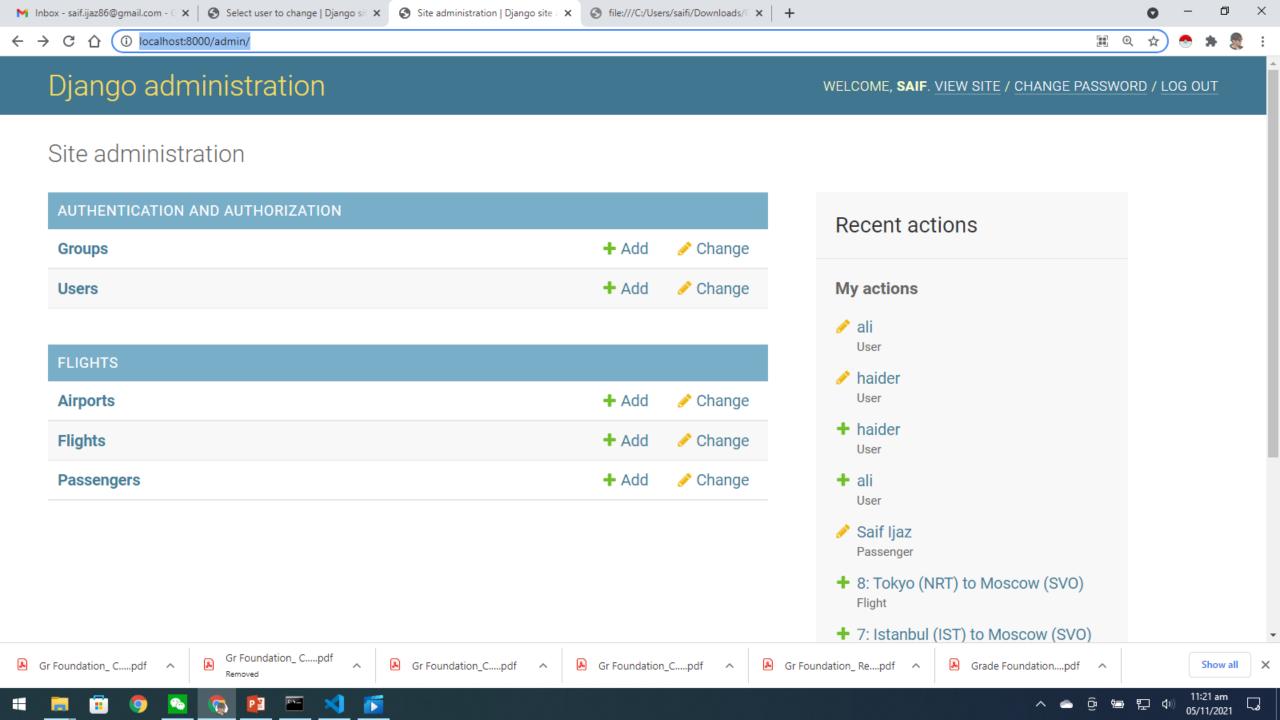
users > templates > users > layout.html

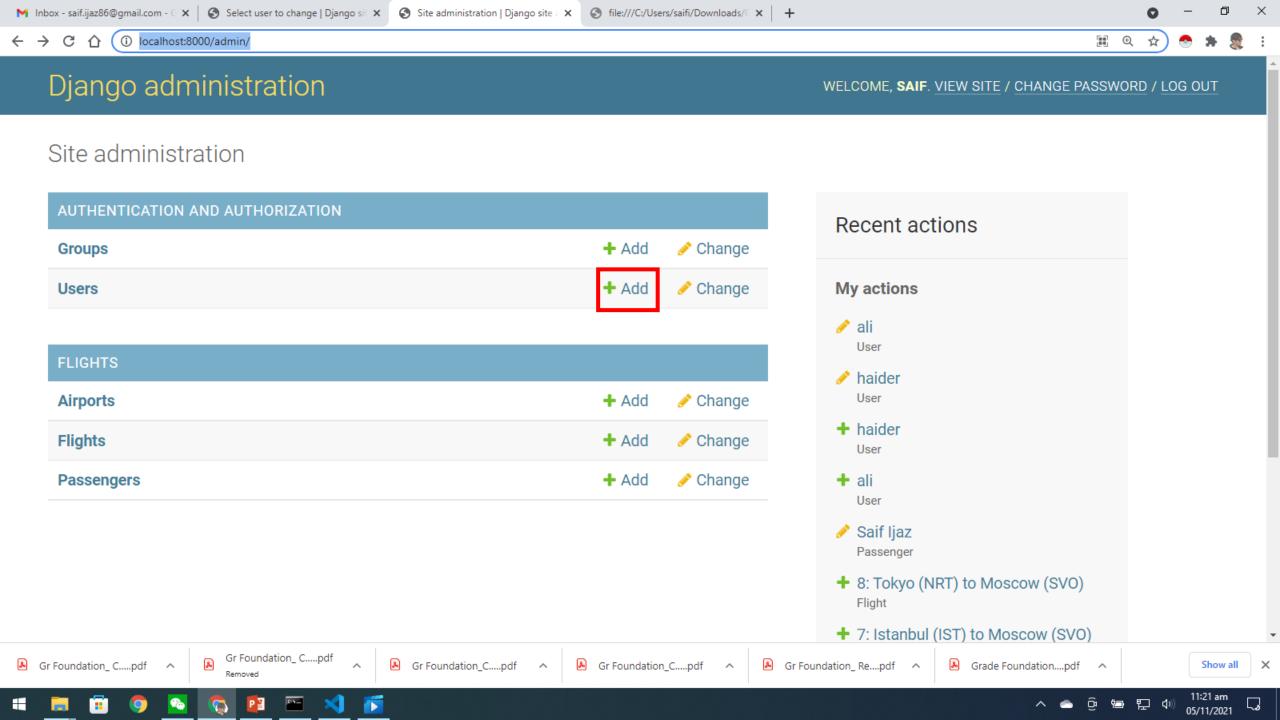
```
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Users</title>
    </head>
    <body>
        {% block body %}
        {% endblock %}
    </body>
</html>
```

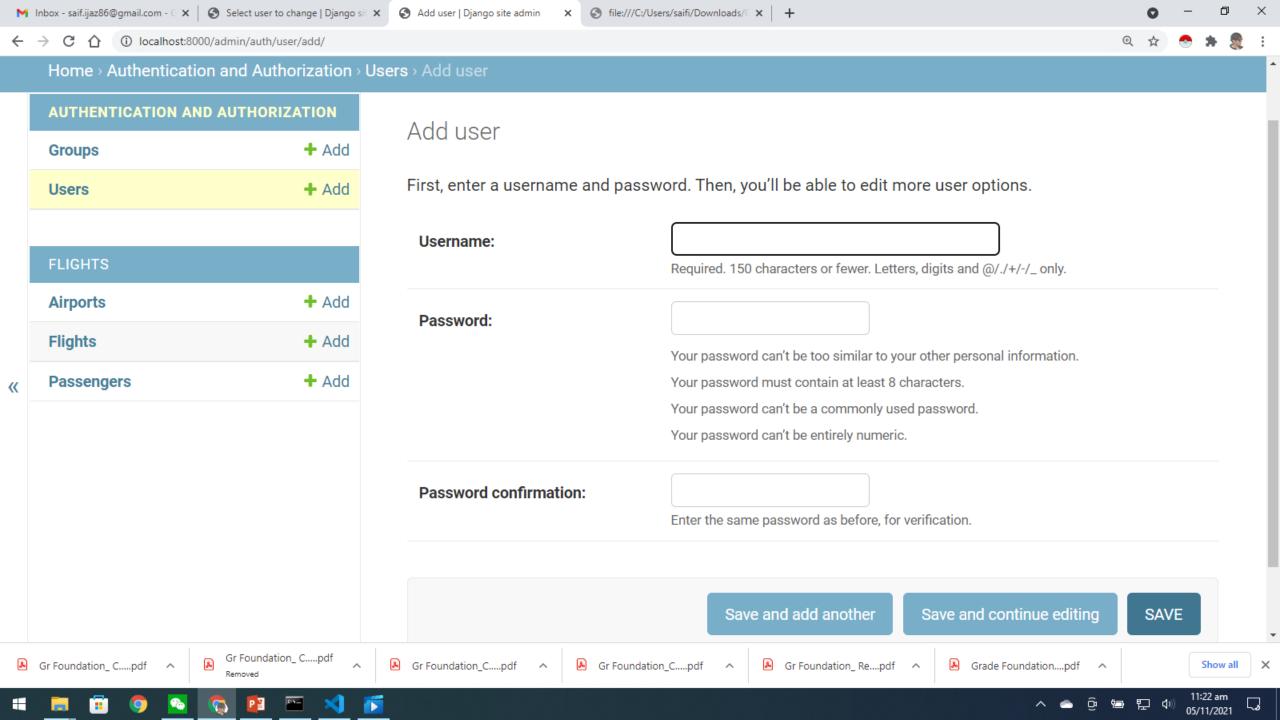
users > templates > users > login.html

```
{% extends "users/layout.html" %}
{% block body %}
   <form action="{% url 'login' %}" method="post">
        {% csrf token %}
        <input type="text" name="username" placeholder="Username">
        <input type="password" name="password" placeholder="Password">
        <input type="submit" value="Login">
   </form>
{% endblock %}
```

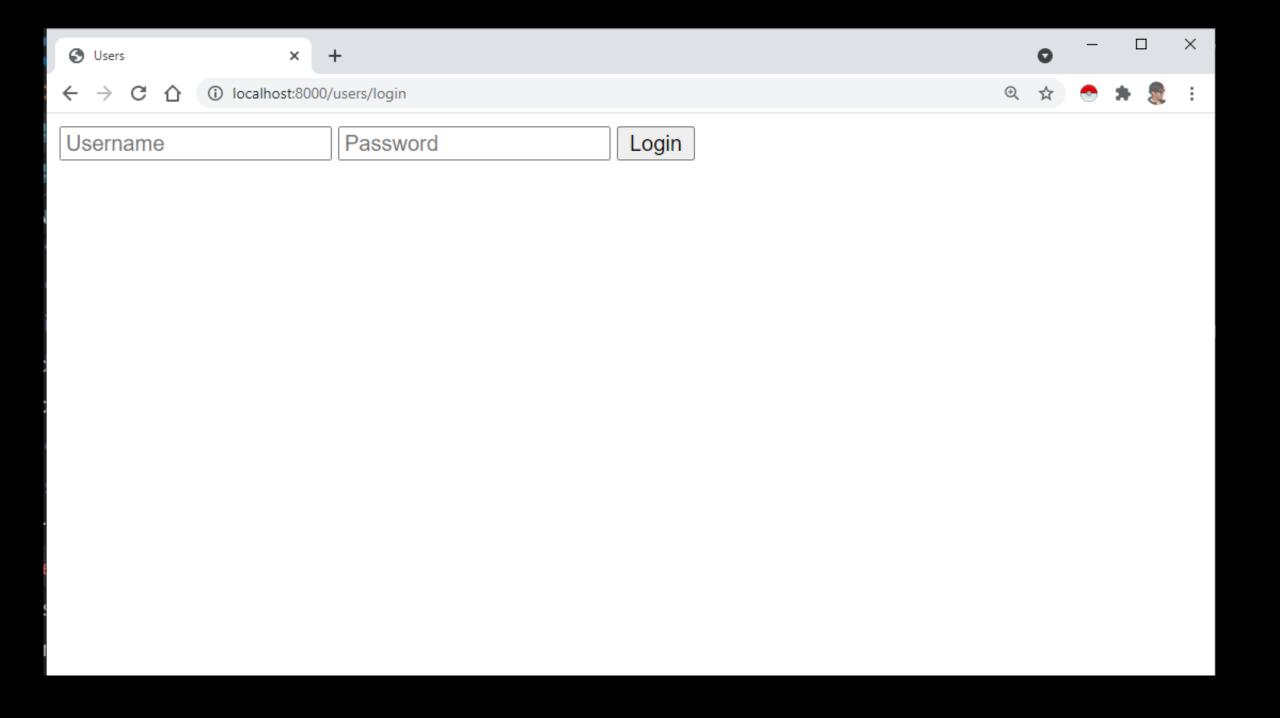
- >python manage.py runserver
- http://localhost:8000/admin/







http://localhost:8000/users/login



users > views.py

return render(request, "users/login.html")

```
def login view(request):
   if request.method == "POST":
        username = request.POST["username"]
        password = request.POST["password"]
        user=authenticate(request, username=username, password=password)
        if user is not None:
            login(request, user)
            return HttpResponseRedirect(reverse("index"))
        else:
            return render(request, "users/login.html", {
                "message": "Invalid credentials."
            })
```

users > templates > users > login.html

```
{% extends "users/layout.html" %}
{% block body %}
    {% if message %}
        <div>{{ message }}</div>
    {% endif %}
    <form action="{% url 'login' %}" method="post">
        {% csrf_token %}
        <input type="text" name="username" placeholder="Username">
        <input type="password" name="password" placeholder="Password">
        <input type="submit" value="Login">
    </form>
{% endblock %}
```

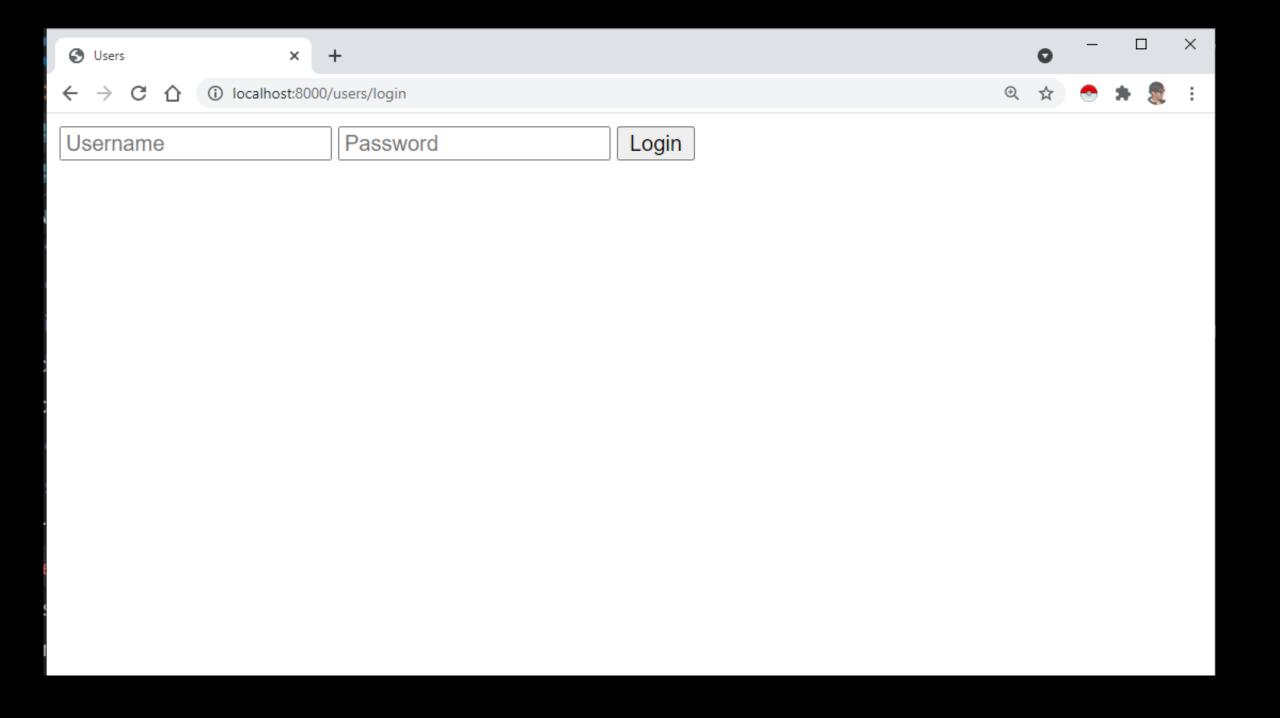
users > views.py

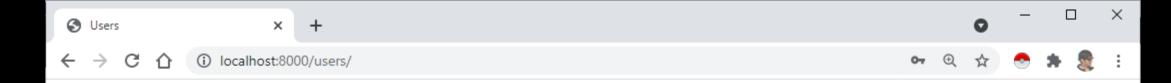
```
# Create your views here.
def index(request):
    if not request.user.is_authenticated:
        return HttpResponseRedirect(reverse("login"))
    return render(request, "users/user.html")
```

users > templates > users > user.html

```
{% extends "users/layout.html" %}
{% block body %}
   <h1>Welcome, {{ request.user.first name }}</h1>
   <l
       Username: {{ request.user.username }}
       Email: {{ request.user.email }}
   {% endblock %}
```

http://localhost:8000/users/login





Welcome, Haider

• Username: haider

• Email: haider@example.com

users > views.py

```
def logout_view(request):
    logout(request)
    return render(request, "users/login.html", {
        "message": "Logged out."
    })
```

users > templates > users > user.html

```
{% extends "users/layout.html" %}
{% block body %}
   <h1>Welcome, {{ request.user.first name }}</h1>
   <l
       Username: {{ request.user.username }}
       Email: {{ request.user.email }}
   <a href="{% url 'logout' %}">Log Out</a>
{% endblock %}
```