| django-admin  startproject movie\_booking  cd movie\_booking  django-admin  startapp user\_management  django-admin startapp booking\_system  django-admin startapp admin\_panel |  |
| --- | --- |
| **from django.contrib.auth.models import AbstractUser**  **from django.db import models**  **class CustomUser(AbstractUser):**  **email = models.EmailField(unique=True)** |  |

AUTH\_USER\_MODEL = 'user\_management.CustomUser'

from django import forms

from django.contrib.auth.forms import UserCreationForm

from .models import CustomUser

class CustomUserCreationForm(UserCreationForm):

class Meta:

model = CustomUser

fields = ('username', 'email', 'password1', 'password2')

from django.shortcuts import render, redirect

from django.contrib.auth import login

from .forms import CustomUserCreationForm

def register(request):

if request.method == 'POST':

form = CustomUserCreationForm(request.POST)

if form.is\_valid():

user = form.save()

login(request, user)

return redirect('home')

else:

form = CustomUserCreationForm()

return render(request, 'registration/register.html', {'form': form})

from django.urls import path

from .views import register

urlpatterns = [

path('register/', register, name='register'),

]

from django.contrib import admin

from django.urls import path, include

urlpatterns = [

path('admin/', admin.site.urls),

path('user/', include('user\_management.urls')),

path('accounts/', include('django.contrib.auth.urls')), # for login/logout

]

from django.db import models

class Movie(models.Model):

title = models.CharField(max\_length=255)

description = models.TextField()

class Showtime(models.Model):

movie = models.ForeignKey(Movie, on\_delete=models.CASCADE)

start\_time = models.DateTimeField()

class Seat(models.Model):

showtime = models.ForeignKey(Showtime, on\_delete=models.CASCADE)

number = models.CharField(max\_length=5)

is\_reserved = models.BooleanField(default=False)

class Booking(models.Model):

user = models.ForeignKey('user\_management.CustomUser', on\_delete=models.CASCADE)

showtime = models.ForeignKey(Showtime, on\_delete=models.CASCADE)

seat = models.ForeignKey(Seat, on\_delete=models.CASCADE)

booked\_at = models.DateTimeField(auto\_now\_add=True)

from django.shortcuts import render, get\_object\_or\_404, redirect

from .models import Movie, Showtime, Seat, Booking

from django.contrib.auth.decorators import login\_required

from django.utils import timezone

def movie\_list(request):

movies = Movie.objects.all()

return render(request, 'booking\_system/movie\_list.html', {'movies': movies})

def showtimes(request, movie\_id):

movie = get\_object\_or\_404(Movie, pk=movie\_id)

showtimes = movie.showtime\_set.all()

return render(request, 'booking\_system/showtimes.html', {'movie': movie, 'showtimes': showtimes})

@login\_required

def seat\_selection(request, showtime\_id):

showtime = get\_object\_or\_404(Showtime, pk=showtime\_id)

seats = showtime.seat\_set.all()

return render(request, 'booking\_system/seat\_selection.html', {'showtime': showtime, 'seats': seats})

@login\_required

def book\_seat(request, showtime\_id, seat\_id):

showtime = get\_object\_or\_404(Showtime, pk=showtime\_id)

seat = get\_object\_or\_404(Seat, pk=seat\_id, showtime=showtime)

if seat.is\_reserved:

return redirect('seat\_selection', showtime\_id=showtime.id)

if request.method == 'POST':

seat.is\_reserved = True

seat.save()

booking = Booking.objects.create(

user=request.user,

showtime=showtime,

seat=seat,

booked\_at=timezone.now()

)

return redirect('confirmation', booking\_id=booking.id)

return render(request, 'booking\_system/book\_seat.html', {'showtime': showtime, 'seat': seat})

@login\_required

def booking\_confirmation(request, booking\_id):

booking = get\_object\_or\_404(Booking, pk=booking\_id)

return render(request, 'booking\_system/confirmation.html', {'booking': booking})

from django.urls import path

from .views import movie\_list, showtimes, seat\_selection, book\_seat, booking\_confirmation

urlpatterns = [

path('', movie\_list, name='movie\_list'),

path('showtimes/<int:movie\_id>/', showtimes, name='showtimes'),

path('seat\_selection/<int:showtime\_id>/', seat\_selection, name='seat\_selection'),

path('book\_seat/<int:showtime\_id>/<int:seat\_id>/', book\_seat, name='book\_seat'),

path('confirmation/<int:booking\_id>/', booking\_confirmation, name='confirmation'),

]

from django.contrib import admin

from django.urls import path, include

urlpatterns = [

path('admin/', admin.site.urls),

path('user/', include('user\_management.urls')),

path('accounts/', include('django.contrib.auth.urls')),

path('booking/', include('booking\_system.urls')),

]

from django.contrib import admin

from .models import Movie, Showtime, Seat, Booking

admin.site.register(Movie)

admin.site.register(Showtime)

admin.site.register(Seat)

admin.site.register(Booking)