# Django Models: Post and Rating

from django.db import models  
from django.conf import settings  
from django.db.models import Avg  
  
class Post(models.Model):  
 author = models.ForeignKey(  
 settings.AUTH\_USER\_MODEL,  
 on\_delete=models.CASCADE,  
 related\_name='posts'  
 )  
 first\_name = models.CharField(  
 max\_length=100,  
 verbose\_name="Ім'я"  
 )  
 last\_name = models.CharField(  
 max\_length=100,  
 verbose\_name="Прізвище"  
 )  
 phone\_number = models.CharField(  
 max\_length=20,  
 verbose\_name="Номер телефону",  
 blank=True,  
 null=True  
 )  
 email = models.EmailField(  
 verbose\_name="Email",  
 blank=True,  
 null=True  
 )  
 preparation\_levels = models.CharField(  
 max\_length=255,  
 verbose\_name="Підготовка до класів"  
 )  
 price\_per\_hour = models.DecimalField(  
 max\_digits=10,  
 decimal\_places=2,  
 verbose\_name="Вартість заняття (₴/год)"  
 )  
 photo = models.ImageField(  
 upload\_to='post\_photos/',  
 verbose\_name="Фото профілю"  
 )  
 about = models.TextField(  
 blank=True,  
 verbose\_name="Про себе"  
 )  
 calendar = models.TextField(  
 blank=True,  
 verbose\_name="Календар"  
 )  
 created\_at = models.DateTimeField(  
 auto\_now\_add=True  
 )  
 subjects = models.CharField(  
 max\_length=255,  
 verbose\_name="Предмети",  
 default=""  
 )  
 rating = models.FloatField(  
 default=0.0,  
 verbose\_name="Середній рейтинг"  
 )  
 rating\_count = models.IntegerField(  
 default=0,  
 verbose\_name="Кількість оцінок"  
 )  
  
 def update\_rating(self):  
 avg\_rating = self.ratings.aggregate(  
 Avg('score')  
 )['score\_\_avg']  
 self.rating = avg\_rating if avg\_rating else 0  
 self.rating\_count = self.ratings.count()  
 self.save()  
  
 def \_\_str\_\_(self):  
 return f"{self.first\_name} {self.last\_name} - {self.preparation\_levels}"  
  
class Rating(models.Model):  
 user = models.ForeignKey(  
 settings.AUTH\_USER\_MODEL,  
 on\_delete=models.CASCADE  
 )  
 post = models.ForeignKey(  
 Post,  
 on\_delete=models.CASCADE,  
 related\_name="ratings"  
 )  
 score = models.IntegerField(  
 verbose\_name="Оцінка"  
 )  
  
 class Meta:  
 unique\_together = ('user', 'post')  
  
 def \_\_str\_\_(self):  
 return f"{self.user.username} - {self.score}"