Main Models:

//We will use the build-in User model, the username will be andrew id and you can set your own
// password, the verification letter will be send to your andrew email.
User

// A profile is respect to a user, which holds more information
Class Profile(models.Model):
        user = models.OneToOneField(User)
        favorites = models.ManyToManyField(User)
        first_name = models.CharField(max_length=20, default="", blank=True)
        last_name = models.CharField(max_length=20, default="", blank=True)
        dob = models.DateField()
        phone = models.CharField(max_length=20, default="", blank=True)
        address = models.CharField(max_length=100, default="", blank=True)
        bio = models.TextField(max_length=1000, default="", blank=True)
        image = models.ImageField(upload_to=…, default=…, blank=True)

// One user/profile has one Albums, which contains several albums inside.
// An album is a sound-videos combination
Class Albums(models.Model):
        profile = models.ForeignKey(Profile)
        sounds = models.ManyToManyField(Sound, related_name="albums")

// A sound that has both its content and some videos linked to it, which consists of an album
Class Sound(models.Model):
        videos = models.ManyToManyField(Video, related_name="sounds")
        content = models.FileField()
        name = models.CharField(max_length=42, default='', blank=True)
        latitude=models.charField(max_length=200, default='0', blank=True)
        longitude = models.charField(max_length=200, default='0', blank=True)
        url = models.URLField(max_length=200, default='', blank=True)
        time = models.DateTimeField(auto_now=True)
        image = models.ImageField(upload_to=…, default=…, blank=True)

// A video item
Class Video(models.Model):

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        content = models.FileField()
        name = models.CharField(max_length=42, default='', blank=True)
        latitude=models.charField(max_length=200, default='0', blank=True)
        longitude = models.charField(max_length=200, default='0', blank=True)
        url = models.URLField(max_length=200, default='', blank=True)
        time = models.DateTimeField(auto_now=True)
        image = models.ImageField(upload_to=…, default=…, blank=True)


// A comment is respect to an album, which is a sound-videos combinations
Class Comment(models.Model):
        album = models.OneToOneField(Sound, related_name="comment")
        message = models.TextField(max_length=200)
        time = models.DateTimeField(auto_now=True)


// Some recommendation to the user. Name is the type of the recommendation, content is some
// string that we can analyze to give the recommendation, eg, all videos that the user has visited.
Class Recommendation(models.Model):
        user = models.ForeignKey(User)
        name = models.CharField(max_length=42, default='', blank=True)
        content = models.CharField(default='', blank=True)


// A separated model consists of some news or ads that we may use to display on the screen
Class News(models.Model):
        name = models.CharField(max_length=42, default='', blank=True)
        content = models.CharField(default='', blank=True)
        image = models.ImageField(upload_to=…, default=…, blank=True)
```