```
1.
pip install django
django-admin startproject myproject
cd myproject
python manage.py startapp chatapp
INSTALLED_APPS = [
  ...
  'chatapp',
]
python manage.py migrate
python manage.py runserver
from django.db import models
class Conversation(models.Model):
  user = models.ForeignKey(User, on_delete=models.CASCADE)
  message = models.TextField()
  timestamp = models.DateTimeField(auto_now_add=True)
  summary = models.TextField(blank=True, null=True) # New field
  def _str_(self):
    return f"Conversation {self.id} with {self.user.username}"
python manage.py makemigrations
python manage.py migrate
pip install openai
import openai
openai.api_key = 'your-openai-api-key'
```

```
def generate_summary(conversation_text):
  response = openai.Completion.create(
    engine="text-davinci-004",
    prompt=f"Summarize the following conversation: {conversation_text}",
    max_tokens=150
  )
  summary = response.choices[0].text.strip()
  return summary
def save_conversation(request):
  if request.method == 'POST':
    message = request.POST['message']
    conversation = Conversation(user=request.user, message=message)
    conversation.summary = generate_summary(message)
    conversation.save()
    return redirect('conversation_detail', conversation_id=conversation.id)
from django.contrib import admin
from .models import Conversation
class ConversationAdmin(admin.ModelAdmin):
  list_display = ('user', 'message', 'timestamp', 'summary')
admin.site.register(Conversation, ConversationAdmin)
```

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2.
pip install psycopg2-binary
DATABASES = {
  'default': {
    'ENGINE': 'django.db.backends.postgresql',
    'NAME': 'mydatabase',
    'USER': 'mydatabaseuser',
    'PASSWORD': 'mypassword',
    'HOST': 'localhost',
    'PORT': '5432',
  }
}
sudo -u postgres psql
CREATE DATABASE mydatabase;
CREATE USER mydatabaseuser WITH PASSWORD 'mypassword';
ALTER ROLE mydatabaseuser SET client_encoding TO 'utf8';
ALTER ROLE mydatabaseuser SET default_transaction_isolation TO 'read committed';
ALTER ROLE mydatabaseuser SET timezone TO 'UTC';
GRANT ALL PRIVILEGES ON DATABASE mydatabase TO mydatabaseuser;
\q
python manage.py dumpdata > db.json
python manage.py migrate
python manage.py loaddata db.json
import datetime
from django.core.management.base import BaseCommand
from chatapp.models import Conversation
class Command(BaseCommand):
  help = 'Delete conversations older than a specified number of days'
```

```
def add_arguments(self, parser):
    parser.add_argument('days', type=int, help='Number of days to retain conversations')
  def handle(self, *args, **kwargs):
    days = kwargs['days']
    cutoff_date = datetime.datetime.now() - datetime.timedelta(days=days)
    old_conversations = Conversation.objects.filter(timestamp__lt=cutoff_date)
    count = old_conversations.count()
    old_conversations.delete()
    self.stdout.write(f'Deleted {count} conversations older than {days} days')
pip install django-crontab
INSTALLED_APPS = [
  'django_crontab',
CRONJOBS = [
  ('0 0 * * 0', 'django.core.management.call_command', ['cleanup_conversations', '30'])
]
python manage.py crontab add
```