## File: /Users/kh.kim/Documents/AIChat/.DS\_Store

[binary]

# File: /Users/kh.kim/Documents/AlChat/app/config.py

```
1 import os
2 from redis import Redis
3 from urllib.parse import urlparse
4 import logging
5
6 #
7 logging.basicConfig(level=logging.DEBUG)
8 logger = logging.getLogger__name__)
9
10 redis_url = os_getenv('UPSTASH_REDIS_URL') # UPSTASH_REDIS_URL
11
12 if redis_url;
13 url = urlparse(redis_url)
14 logger.debug(f"Parsed Redis_URL: {url}")
15 redis_client = Redis_(
16 host_url.hostname,
17 port=url.port.
18 password_url.password,
19 sal_url.scheme == 'rediss',
20 ssl_cert_regs-None,
21 decode_responses=True
22 )
23 else:
24 redis_client = None
25 logger.warning("No Redis_URL provided")
26
27 def test_redis_connection():
28 if redis_client is None:
29 print("No Redis_URL provided")
30 return False
31 try:
32 redis_client.ping()
33 print("Successfully connected to Redis")
34 logger.info("Successfully connected to Redis")
35 return True
36 except_Exception as e:
37 print(f"Failed to connect to Redis: {e}")
38 logger.error(f"Failed to connect to Redis: {e}")
39 return False
```

## File: /Users/kh.kim/Documents/AIChat/app/\_\_init\_\_.py

```
1 from .main import app
2
3 def create_app():
4    return app
```

## File: /Users/kh.kim/Documents/AlChat/app/utils/\_\_init\_\_.py

1 [binary

## File: /Users/kh.kim/Documents/AlChat/app/utils/helpers.py

1 [binary]

# File: /Users/kh.kim/Documents/AlChat/app/models/user.py

```
1 from typing import Literal, Optional
2
3 from pydantic import BaseModel, EmailStr, Field
4
5
6 class UserBase (BaseModel):
7 email: EmailStr
8 nickname: str = Field(..., min_length=2, max_length=50)
9 is_admin: bool = False
10
11 class UserCreate (UserBase):
12 password: str = Field(..., min_length=8)
13
14 class UserUpdate (BaseModel):
15 nickname: Optional[str] = Field(None, min_length=2, max_length=50)
16 profile image_url: Optional[str] = None
17 is_admin: Optional[bool] = None
18
19 class SocialLoginData (BaseModel):
20 provider: Literal ("google", "kakao")
21
22 class UserInDB (UserBase):
23 id: str
24 hashed password: str
25 login type: str = "email"
26 profile_image_url: Optional[str] = None
27
28 class UserProfile(UserBase):
29 id: str
30 profile_image_url: Optional[str]
31 login_type: str
32
33 class Config:
34 from_attributes = True
35
36 class Token (BaseModel):
37 access_token: str
38 token_type: str
39 do class TokenDaseModel):
41 email: Optional[str] = None
```

File: /Users/kh.kim/Documents/AIChat/app/models/relationship.py

```
from datetime import datetime, timezone
from enum import Enum
from typing import Optional
4 5 from pydantic import BaseModel 6
                  ss RelationshipType (Enum):
ENEMY = "enemy"
RIVAL = "rival"
STRANGER = "stranger"
ACQUAINTANCE = "acquaintance"
FRIEND = "friend"
CLOSE FRIEND = "close_friend"
LOVER = "lover"
SPOUSE = "spouse"
8 class
9 EN
10
11
12
14
15
16
17
18 class
                                         CharacterInteractionBase(BaseModel)
                  user_CharacterInteractionBase(BaseModel):
user_id: str
character_id: str
affinity: float = 0
relationship_type: RelationshipType = RelationshipType.STRANGER
nickname: Optional|str| = None
last_interaction: datetime = datetime.now(timezone.utc)
interaction_count: int = 0
conversation_memory: int = 0
learning_rate: float = 0.0
custom_traits: dict = {}
conversation_history: dict = {}

20
21
24
25
26
27
28
ss UserCharacterInteractionUpdate (BaseModel):
affinity: Optional [float] = None
relationship_type: Optional RelationshipType] = None
nickname: Optional Istr] = None
last_interaction: Optional [datetime] = None
interaction count: Optional [int] = None
conversation_memory: Optional[int] = None
learning_rate: Optional [float] = None
custom_traits: Optional [dict] = None
conversation_history: Optional [dict] = None
33
34 class
35 a
36 r
37 n
38 1
39 i
 40
41
44
45
                                          CharacterInteractionInDB(UserCharacterInteractionBase)
46
47
48
49
                    class Config:
   orm mode = True
50
```

#### File: /Users/kh.kim/Documents/AIChat/app/models/conversation.py

## File: /Users/kh.kim/Documents/AIChat/app/models/\_\_init\_\_.py

1 [binary]

# File: /Users/kh.kim/Documents/AIChat/app/models/scenario.py

```
1 # # models/scenario.py
2
3 # from pydantic import BaseModel
4 # from typing import List, Optional
5 # from enum import Enum
6 # from datetime import datetime
7
8 # class ScenarioTriggerType(Enum):
9 # """ """
10 # AFFINITY = "affinity" #
11 # TIME = "time" #
12 # EVENT = "event" #
13
14 # class ScenarioStep(BaseModel):
15 # """ """
10 # image_url: Optional[str] = None # URL ()
19
20 # class Scenario(BaseModel):
21 # """ """
22 # id: str
23 # character_id: str
24 # title: str
25 # description: str
26 # trigger_type: ScenarioTriggerType
27 # trigger_value: float # : 60 7
28 # steps: List(ScenarioStep)
29 # created at: datetime
30 # updated_at: datetime
31
32 # class ScenarioProgress(BaseModel):
33 # """ """
34 # id: str
35 # user_id: str
36 # scenario_id: str
37 # current_step: int
38 # started_at: datetime
39 # completed_at: Optional[fatetime] = None
40 # is_completed_id: foot = False
41
42 # class ScenarioCreate(BaseModel):
43 # """ """
44 # character_id: str
45 # title: str
46 # description: str
47 # trigger_value: float
48 # started_at: fatetime
49 # steps. List(ScenarioStep)
50
51 # class ScenarioCreate(BaseModel):
52 # """ """
53 # ittle: optional[str] = None
54 # description: str
55 # trigger_value: float
65 # trigger_type: ScenarioTriggerType
66 # trigger_value: float
67 # description: Optional[str] = None
68 # description: Optional[str] = None
69 # description: Optional[str] = None
60 # steps: Coptional[str] = None
61 # steps: Coptional[str] = None
62 # steps: Coptional[str] = None
63 # steps: Coptional[str] = None
64 # description: Optional[str] = None
65 # trigger_value: Optional[str] = None
66 # trigger_value: Optional[str] = None
67 # steps: Coptional[str] = None
```

File: /Users/kh.kim/Documents/AIChat/app/models/character.py

```
import uuid
from datetime import datetime
from typing import Dict, List, Optional
                     from pydantic import BaseModel, Field
                     class LocalizedContent (BaseModel):
    ko: Optional|str| = Field(None, description="Korean content")
    en: Optional|str| = Field(None, description="English content")
    ja: Optional|str| = Field(None, description="Japanese content")
 11
12
                                                                                                     nfig:
a = 'forbid' # This prevents additional fields
 13
14
15
                                                                        extra =
 16
17
18
                   class LanguageProficiency(BaseModel):
    language_code: str
    proficiency: str
    preference_order: int = Field(ge=1)
 19
 20
21
                   class PersonalityTrait(BaseModel):
    trait: str
    score: float = Field(ge=0.0, le=1.0)
 24
25
                     class Interest(BaseModel):
   topic: str
   level: str
 26
27
28
29
                level: str

level: str

class CharacterRase(BaseModel):
    version: str
    names: LocalizedContent
    gender: str
    age: int = Field(ge=0, le=150)
    personality traits: List |PersonalityTrait|
    interests: List |Interest|
    occupation: LocalizedContent
    background: LocalizedContent
    appearance seed: str
    appearance description: LocalizedContent
    relationship status: Optional|str| = None
    languages: List |LanguageProficiency|
    conversation style: LocalizedContent
    communication preferences: Dict|str, str|
    backstory: LocalizedContent
    goals: LocalizedContent
    quirks: LocalizedContent
    quirks: LocalizedContent
    emotional_intelligence: float = Field(ge=0.0, le=1.0)
    cultural sensitivity: float = Field(ge=0.0, le=1.0)
    relationship progression pace: str
    conflict resolution style: str
    interaction_prompts: Dict|str, LocalizedContent|
    character_prompt: str
    response generation parameters: Dict|str, float|
    is_public: bool = False

class CharacterCreate(CharacterBase):
 30
31
32
33
34
35
36
37
38
39
40
41
42
43
 44
45
46
47
48
49
class CharacterCreate (CharacterBase) :
              | Sample | S
                      class CharacterInDB(CharacterBase)
                                               id: uuid.UUID
creator_id: str
created_at: datetime
updated_at: datetime
                                                                         from_attributes = True
                     class CharacterProfile(CharacterBase):
   id: uuid.UUID
   creator_id: str
                                                                         from_attributes = True
```

File: /Users/kh.kim/Documents/AIChat/app/main.py

```
1 import logging
2 import os
3 import sys
4 from contextlib import asynccontextmanager
5 from fastapi import FastAPI, Request 7 from fastapi middleware.cors import CORSMiddleware 8 from supabase import Client, create_client 9
 10 import redis
11
2 from app.config import redis client
13 from app.routes.characters import router as characters_router
14 from app.routes.conversations import router as conversations_router
15 from app.routes.users import router as users_router
16 # from app.routes.scenarios import router as scenarios_router
17 from app.services.auth_service import router as auth_router
18
 19 sys.path.append(os.path.dirname(os.path.dirname(os.path.abspath(__file__))))
 20 Ogging basicConfig (level=logging INFO) 22 logger = logging getLogger (__name__) 23
 24 @asynccontextmanager
              ynccontextmanager
nc def lifespan(app: FastAPI):
logger.info("Application is starting up")
from app.config import test_redis_connection, redis_client
 26
27
28
29
             if test_redis_connection():
    logger.info("Successfully connected to Redis")
else:
 30
31
32
33
34
35
36
37
38
39
                       e:
logger.warning("Continuing without Redis connection")
             if redis_client:
    redis_client.close()
    logger.info("Redis_connection_closed")
logger.info("Application_is_shutting_down"
 41 app = FastAPI(debug=True, lifespan=lifespan)
 42 da app.add middleware |
44 CORSMiddleware,
45 allow_origins= ""*" |, #
46 allow_oredentials=True,
47 allow_methods= ["*" |,
48 allow_headers= ["*" |,
55

56 supabase: Client = create_client(supabase_url, supabase_key)

57 app.state.supabase = supabase
  50
59 @app.middleware("http")
             op.middleware("http")

mc def log_requests(request: Request, call_next):
logger.info(f"Request path: {request.url.path}")
response = await call_next(request)
logger.info(f"Response status code: {response.status_code}")
return response
65
66 app.include_router(users_router)
67 app.include_router(characters_router)
68 app.include router(characters_router)
69 # app.include_router(scenarios_router)
70 app.include_router(auth_router, prefix="/auth")
71
72 Bapp.get("/")
73 async def root():
74 return ("message": "Hello World")
75
 75
76 if __name__ == "__main__":
77 import uvicorn
            port = int (os.environ.get("PORT", 8000))
uvicorn.run("app.main:app", host="0.0.0.0", port-port, reload=True
```

File: /Users/kh.kim/Documents/AlChat/app/routes/scenarios.py

```
3 # from fastapi import APIRouter, HTTPException, Depends
4 # from typing import List
5 # from app.models.scenario import ScenarioCreate, ScenarioUpdate, Scenario, ScenarioProgress
6 # from app.services import scenario service
7 # from app.models.user import UserProfile as User
8 # from app.dependencies import get_current_user
9
10 # vonce.
  10 # router = APIRouter()
 11
2 # @router.post("/scenarios", response model=Scenario)
13 # async def create_scenario(scenario: ScenarioCreate, current_user: User = Depends(get_current_user)):
14 # """
  15 #
16 #
                       return await scenario service.create scenario(scenario)
 -
19 # @router.get("/scenarios/(scenario_id)", response_model=Scenario)
20 # async def get_scenario(scenario_id: str, current_user: User = Depends(get_current_user)):
21 # """
 23 #
                       scenario = await scenario_service.get_scenario(scenario_id)
if not scenario:
 24 #
  25 #
                     11 NOL Scenafic:
    raise HTTPException(status_code=404, detail="Scenario not found")
return scenario
 26 #
 28
29 # @router.put("/scenarios/(scenario_id)", response_model=Scenario)
30 # async def update_scenario(scenario_id: str, scenario_update: ScenarioUpdate, current_user: User = Depends(get_current_user)):
31 # """
  32 #
33 #
                     updated_scenario = await scenario_service.update_scenario(scenario_id, scenario_update)
if not updated scenario:
    raise HTTPException(status_code=404, detail="Scenario not found")
return updated_scenario
  34 #
35 #
  36 #
 38 @router.delete("/scenarios/{scenario_id}", response_model=bool)
40 # async def delete_scenario(scenario_id: str, current_user: User = Depends(get_current_user)):
41 # """
 42 # 43 #
 44 #
                       deleted = await scenario_service.delete_scenario(scenario_id)
if not deleted:
                      raise HTTPException(status_code=404, detail="Scenario not found") return True
  46 #
40 # @router.post("/scenarios/{scenario_id}/start", response_model=ScenarioProgress)
50 # async def start_scenario(scenario_id: str, current_user: User = Depends(get_current_user)):
51 # """
 52 #
53 #
54 #
55 #
56 #
57 #
58 #
59
                     progress = await scenario_service.start_scenario(str(current_user.id), scenario_id)
  return progress
except ValueError as e:
  raise HTTPException(status_code=400, detail=str(e))
00 # @router.post("/scenarios/{scenario_id}/progress", response_model=ScenarioProgress)
61 # async def progress_scenario(scenario_id: str, current_user: User = Depends(get_current_user)):
62 # """
 63 #
64 #
65 #
66 #
                                   progress = await scenario_service.progress_scenario(str(current_user.id), scenario_id)
                       return progress
except ValueError as e:
    raise HTTPException(status_code=400, detail=str(e))
 109 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 
 75 #
76 #
77 #
78 #
                       scenario = await scenario_service.check_scenario_trigger(str(current_user.id), character_id) if not scenario:
    raise HTTPException(status_code=404, detail="No scenario triggered") return scenario
 81 # @router.get("/scenarios", response_model=List[Scenario])
82 # async def list_scenarios(character_id: str, current_user: User = Depends(get_current_user)):
83 # """
 84 #
85 #
86 #
87 #
                       scenarios = await scenario_service.get_all_scenarios_for_character(character_id)
return scenarios
 oo 89 # @router.get("/scenarios/{scenario_id})/progress", response_model=ScenarioProgress)
90 # async def get_scenario_progress(scenario_id: str, current_user: User = Depends(get_current_user)):
91 # """
                       progress = await scenario_service.get_scenario_progress(str(current_user.id), scenario_id)
if not progress:
    raise HTTPException(status_code=404, detail="Scenario progress not found")
return progress
```

File: /Users/kh.kim/Documents/AlChat/app/routes/users.py

```
1 from typing import List
    from fastapi import APIRouter, Depends, HTTPException, Request
from fastapi.responses import JSONResponse
from pydantic import BaseModel
   from app.models.user import UserBase, UserCreate, UserProfile, UserUpdate
from app.services.auth_service import
(auth_callback, get_current_user,
get_linked_accounts, get_user_profile,
login_user, logout_user, process_token,
register_user, social_login,
update_user_profile]
 14 router = APIRouter()
 16 @router.post("/register")
17 async def register(user: UserCreate):
            18
19
20
21
22
23
23
24 class UserBase(BaseModel):
25 email: str
26 password: str
26
27
      @router.post("/login")
async def login(user: UserBase)
           rac def login(user, oscillater)
try:
result = login user(user.email, user.password)
return result =
except Exception as e:
    raise HTTPException(status_code=401, detail=str(e))
30
31
 32
33
34
35
      @router.post("/social-login/{provider}")
async def social_login_route(provider: str, request: Request)
36
37
38
39
           try:
    response = social_login(provider, request)
    return JSONResponse(content=response)
except HTTPException as e:
    return JSONResponse(content=("detail": e_detail), status_code=e_status_code)
 40
41
42
43
43 | Touter.get("/auth/callback")
45 async def auth_callback_route(request: Request):
46 | return await auth_callback(request)
46
47
      @router.post("/process_token")
async def process_token_route(token_data: dict)
 48
           rocess_token_-----
try:
    response = await process_token(token_data)
    return JSONResponse(content=response)
except HTTPException as e:
    return JSONResponse(content=["detail": e_detail", status_code=e.status_code)
50
51
59
60 @router.put("/profile", response_model=UserProfile)
61 async def update_profile(user_update: UserUpdate, user=Depends(get_current_user)):
62 return await update_user_profile(user_update, user)
 63

64 "router.post("/logout")

65 async def logout(user-Depends(get_current_user)):

66 return await logout_user()
67
68 |router.get("/linked-accounts", response_model-List[str])
69 async def linked_accounts(user-Depends(get_current_user))
70     return await get_linked_accounts(user)
```

# File: /Users/kh.kim/Documents/AIChat/app/routes/\_\_init\_\_.py

1 [binary]

## File: /Users/kh.kim/Documents/AlChat/app/routes/characters.pv

```
1 from typing import List
    from fastapi import APIRouter, Depends, Query
    from app.models.conversation import (ConversationCreate, ConversationProfile, ConversationUpdate, MessageCreate,
7 MessageProfile)
8 from app.models.relationship import (RelationshipType
                                                                              UserCharacterInteractionUpdate
9 UserCharacterInteractionUpdat
10 from app.models.user import UserProfile as User
11 from app.services.auth service import get_current_user
12 from app.services.conversation_service import ConversationService
 13
14 router = APIRouter()
15 conversation_service = ConversationService()
 16
16 "couter.post("/conversations", response_model=ConversationProfile)
18 async def create_conversation_route|conversation: ConversationCreate, current_user: User = Depends(get_current_user)):
19     return await conversation_service.create_conversation(conversation, current_user)
Depends (get current user) ) :
@router.get("/conversations", response_model=List(ConversationProfile)
async def list_conversations_route(current_user: User = Depends(get_cu
return_await_conversation_service.list_conversations(current_user)
                                                                                                                                            current user))
 36
37
      @router.post("/conversations/(conversation_id)/messages", response_model=MessageProfile)
async_def_create_message_route(conversation_id: str, message: MessageCreate, current_user: User = Depend
return_await_conversation_service.create_message_and_respond(conversation_id, message, current_user)
                                                                                                                                                                                                      Depends (get current user) ) :
 40
      #router.get("/conversations/(conversation_id)/messages", response_model=List(MessageProfile)
async_def list_messages_route(conversation_id: str, current_user: User = Depends(get_current_return_await_conversation_service.list_messages(conversation_id, current_user)
 44
      @router.get("/conversations/(conversation_id)/messages/{message_id}", response_model=MessageProfile)
async def get_message_route(conversation_id: str, message_id: str, current_user: User = Depends(get_
return await conversation_service.get_message(message_id, current_user)
 46
                                                                                                                                                                                   Depends (get current user) :
 48
             iter.post("/conversations/(conversation_id)/summarize")
no def summarize conversation_route(conversation_id) str, current_user; User = Depends(get_current_user));
summary = await_conversation_service.summarize_conversation(conversation_id, current_user)
return ("summary": summary)
 50
      @router.get("/conversations/{conversation_id}/similar-messages")
async def get_similar_messages_route(
   conversation_id: str,
   message_content: str = Query(..., description="Content of the message to find similar ones"),
   top_k: int = Query(5, description="Number of similar messages to return"),
   current_user: User = Depends(get_current_user)
};
55
56
57
58
59
            similar\_messages - await\_conversation\_service.get\_similar\_messages(conversation\_id,\_message\_content,\_top\_k) \\ return $\ ^*similar\_messages": similar\_messages)$
 61
      "router.get("/conversations/{conversation_id}/message-count")
async def get_message_count_route(conversation_id: str, current_user: User = Depends(get_current_user)):
    count = await conversation_service.get_message_count(conversation_id)
    return ("message_count": count)
 66
67
68
      @router.put("/conversations/{conversation_id}/nickname")
             iter.put("/conversations/(conversation_____
to def update nickname route(
conversation_id: str,
nickname: str = Query(..., description="New nickname for the user"),
convers user: User = Depends(get_current_user)
71
72
73
74
75
76
77
78
79
            conversation = await conversation_service.get_conversation(conversation_id, current_user)
await conversation_service.relationship_service.update_interaction(
    str(conversation.character_id),
    str(current_user).id),
    UserCharacterInteractionUpdate(nickname=nickname)
      @router.put("/conversations/(conversation_id)/relationship-type")
async def update_relationship_type_route(
    conversation_id: str,
    relationship_type; RelationshipType,
    current_user: User = Depends(get_current_user)
                    versation = await conversation service.get_conversation(conversation_id, current_user)
it conversation_service.relationship_service.update_interaction(
    str(conversation.character_id),
    str(current_user.id),
             conversation
90
91
92
93
94
95
96
                     relationship type
```

File: /Users/kh.kim/Documents/AlChat/app/services/ai\_service.py

```
1 import asyncio
2 import os
3 from typing import Any, Dict, List
4 from dotenv import load_dotenv
          load dotenv()
 9 import openai
10 from pinecone import Pinecone, ServerlessSpec
 13 class
                          def __init__(self):
    openai.api_key = os.environ.get('OPENAI_API_KEY')
 14
15
16
17
18
                                          # FINECONE
self.pc = Pinecone(api key=os.environ.get("PINECONE API KEY"))
 20
21
                                         index_name = os.environ.get("PINECONE_INDEX_NAME"
 22
23
24
25
26
27
28
29
                                         self.index = self.pc.Index(index_name)
                          def vectorize_text(self, text: str) -> List[float];
                                        response = openai.Embedding.create(
input=text,
model="text-embedding-ada-002"
                                         embedding = response['data'][0]['embedding']
return embedding
                          def store_vector(self, id: str, vector: List[float], metadata: Dict[str, Any]):
                                         self.index.upsert(vectors=[(id, vector, metadata)])
                          async def store vector async(self, id: str, vector: List[float], metadata: Dict[str, Any]):
                                           # run_in_executor
await asyncio.get_event_loop().run_in_executor(
    None, self.store_vector, id, vector, metadata
                          \texttt{def search\_similar\_vectors} (\texttt{self}, \ \texttt{vector}: \ \texttt{List}[\texttt{float}], \ \texttt{conversation\_id}: \ \texttt{str}, \ \texttt{top\_k}: \ \texttt{int} = 5) \ \Rightarrow \ \texttt{List}[\texttt{Dict}[\texttt{str}, \ \texttt{Any}]]: \\ \texttt{list}[\texttt{loat}] (\texttt{loat}) (
                                        results = self,index.query(
    vector-vector,
    top_k-top_k,
    include_metadata=True,
    filter=["conversation_id": conversation_id]
                                         return results['matches']
                          async def generate_response(self, context: str) -> str:
                                                AI
                                          # TODO: AI
# AI API .
return f"AI response based on context: {context[:50]}..." #
```

## File: /Users/kh.kim/Documents/AIChat/app/services/auth\_service.py

```
nc def get_current_user(credentials: HTTPAuthorizationCredentials = Depends(security)) token = credentials.credentials
         \begin{array}{c} 41\\ 42\\ 44\\ 45\\ 61\\ 55\\ 55\\ 55\\ 60\\ 61\\ 66\\ 66\\ 67\\ 71\\ 72\\ 77\\ 77\\ 79\\ 81\\ 82\\ \end{array}
                                 response = supabase.auth.get_user(token)
                                       sponse = supabase autn.get user:toxen)
response and response.user:

# is admin
user data = supabase.table("users").select("is_admin").eq("id", response.user.id).single().execute()
is_admin = user_data.data.get('is_admin', False) if_user_data.data_else False
return User(id_response.user.id, email=response.user.email, is_adminis_admin) # is_admin
ise_HTTPException(status_code=401, detail="Invalid authentication_credentials")
                                  ppt Exception as e:
raise HTTPException(status_code=401, detail=f"Invalid authentication credentials: {str(e)}")
                def register user(email: str, password: str, nickname: str)
                                auth_response = supabase.auth.sign_up({
   "email": email,
   "password": password
                               if auth_response.user:
    user_data = supabase.table("users").insert((
        "id": auth_response.user.id,
        "email": email.,
        "nickname": nickname,
        "login_type": "email",
        "is_admin": False #
}).execute()
                                        logger.info(f"User data insert response: {user_data}")
                                                "message": "User registered successfully",
"user_id": auth_response.user.id
                        eise:
	raise HTTPException(status_code=400, detail="Registration failed")
except Exception as e:
	logger.error(f"Registration error: {str(e)}")
	raise HTTPException(status_code=400, detail=str(e))
         83
84
85
86
87
88
                def login user (email: str, password: str)
                                /:
logger.info(f"Attempting login for email: {email}")
auth response = supabase.auth.sign_in_with_password(("email": email, "password": password))
logger.info(f"Auth_response: {auth_response}")
         89
90
91
92
93
94
95
96
97
98
99
                                 if auth_response.user and auth_response.session
                                         else:
    logger.error("Login failed: User or session not found in auth response")
    raise HTTPException(status_code=401, detail="Invalid credentials")

except Exception as e:
    logger.error(f"Login error: (str(e))")
    if "Invalid login credentials" in str(e):
        raise HTTPException(status_code=401, detail="Invalid email or password")
    elif "Email not confirmed" in str(e):
        raise HTTPException(status_code=401, detail="Email not confirmed. Please check your email for verification link.")
    else:
        raise HTTPException(status_code=401, detail="Email not confirmed. Please check your email for verification link.")
         101
102
         103
104
         105
106
                                          raise HTTPException(status_code=401, detail="Login failed. Please try again.")
         107
108
         109 def social login(provider: str, request: Request)
         110
                                :
callback_url = "http://localhost:8000/auth/callback"
logger.info(f"Callback URL: {callback_url}")
auth_response = supabase.auth.sign_in_with_oauth({
    "provider": provider,
    "options": {
        "redirect = to": callback_url
         111
112
         113
114
         115
116
         117
118
         119
120
                                logger.info(f"Auth response: {auth_response}")
if hasattr(auth_response, 'url'):
                                       hasattr(auth_response, 'url'):
return ("url": auth response.url)
         123
                                           raise HTTPException(status code=400, detail="OAuth initialization failed")
         124
                        raise HTTPException(status_code +00, -00-1)
raise HTTPException(status_code=400, detail=f"Social login error: {str(e)}")
         126
         127
128
         129
         130 async def auth callback(request: Request)
                       try:
logger.debug("Auth callback hit")
code = request.query_params.get('code')
error = request.query_params.get('error')
logger.debug(f"Received code: {code}, error: {error}")
         133
134
         135
                                  # URL
         137
138
                                 html_content
<html>
<body>
<script>
         139
140
         141
         143
144
145
"""
return HTMLResponse(content=html_content)
spt Exception as e:
logger.exception(f"Error in auth callback: {str(e)}")
raise HTTPException(status_code=400, detail=f"Error processing authentication: {str(e)}")
```

```
logger.debug(f"Received code: {code}, error: {error}")
                          " URL HTML html_content = """ <html> <hc^2
                         181 #
182 #
                                                 if (!access_token) {
   document.body.innerHTML = '<hl>Error: No access token found</hl>';
   return;
 185 |
186 |
                                                 fetch('/process token', {
  method: 'POST',
  headers: {
    'Content-Type': 'application/json',
 190 #
191 #
 192
193 #
194 #
195 #
196 #
                                                         body: JSON.stringify({access_token: access_token}),
                                                               response => {
  (!response.ok) {
   return response.json().then(err => {
        throw new Error(err.detail || 'Unknown error occurred');
   });
 198
 199
 200
 201
                                                         return response.json();
 202
                                                 })
.then(data => {
    if (data.message && data.user_id) {
        document.body.innerHTML = `<hl>% (data.message)</hl>User ID: $(data.user_id)';
        setTimeout() => {
            window.location.href = '/';
        }, 2000); // Redirect back to the original page after 3 seconds
        l else {
 204
 205
 206
 208
 209
                                                         } else {
throw new Error('Invalid response data');
 210 #
211 #
 212
                                                 })
.catch((error) => {
   console.error('Error:', error);
   document.body.innerHTML = '<hl>Error occurred during authentication</hl>' + error.message + '';
});
 214 #
216#
                                          }
window.onload = sendTokenToServer;
 220 #
221 #
                                  </script>
<hl>Processing authentication...</hl>
                          </body>
 222
224 #
225 #
                          return HTMLResponse(content=html content)
                  226 #
228 #
 229
231 async def process token (token data: dict):
                     access_token = token_data.get('access_token')
if not access_token:
    raise HTTPException(status_code=400, detail="Access token not provided")
233
234
236
237
238
                       user = supabase.auth.get user(access token)
239
240
                      if not user or not user.user:
    raise HTTPException(status code=400, detail="User information not found"
241
242
                      user_id = user.user.id
user_email = user.user.email
243
244
245
246
                      # user_data = supabase.table("users").select("*").eq("id", user_id).execute()
logger.debug(f"User_data: {user_data}")
247
248
249
250
                      if user data.data:
 251
252
                              #
message = f"Successfully logged in."
logger.debug(f"Existing user logged in: {user_id}")
 253
254
 255
256
                                    v user = {
    "id": user_id,
    "email": user_email,
    "nickname": f"User_{user_id[:8]}",
    "login_type": "social",
    "is_admin": False #
 257
258
 259
 260
261
                             ]
insert_result = supabase.table("users").insert(new_user).execute()
logger.debug(f"Insert_result: {insert_result)"}
if not insert_result.data:
    raise HTTPException(status_code-500, detail="Failed to create new user")
message = f"New user successfully created."
logger.debug(f"New user created: (user_id)")
263
264
265
 266
267
268
269
270
271
272
                      response_data = {
    "message": message,
    "user_id": user_id
272 "user_id": user_id
273 |
274 logger.debug(f"Returning response: {response_data}")
275 return response_data
276
277 except Exception as e:
278 logger.exception(f"Detailed error in process_token: {str(e)}
279 raise HTTPException(status_code=400, detail=f"Error process
280
281 async def get_user_profile(user: User = Depends(get_current_user)):
290 rry/
              nc def get_user_profile(user. ose. _____
try:
    logger.debug(f"Fetching profile for user ID: {user.id}")
    user_data = supabase.table("users").select("**").eq("id", user.id) single().execute()
    if user_data.data:
        logger.debug(f"User data retrieved: {user_data.data}")
        # is_admin
        return (**user_data.data, "is_admin": user.is_admin)
        else:
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
                              e:
logger.error("User profile not found")
raise HTTPException(status_code=404, detail="User profile not found"
              raise HTTPException(status_code=404, detail="user
except Exception as e:
  logger.error(f"Error fetching user profile: {str(e)}")
  raise HTTPException(status_code=400, detail=str(e))
        async def update_user_profile(user_update, user):
    try:
        update_data = user_update.dict(exclude_unset=True)
        user_data = supabase.table("users").update(update_data).eq("id", user.id).execute()
        if user_data and user_data.get("data"):
```

```
101 return user_data["data"][0]
102 else:
103 raise HTTPException(status_code=404, detail="User profile not found")
104 except Exception as e:
105 raise HTTPException(status_code=400, detail=str(e))
106 raise HTTPException(status_code=400, detail=str(e))
107 async def logout_user():
108 try:
109 supabase auth.sign_out()
110 return ("message": "Logout successful")
111 except Exception as e:
112 raise HTTPException(status_code=400, detail=str(e))
113 async def get_linked_accounts(user):
115 try:
116 user_data = supabase.table("users").select("login_type").eq("id", user.id).execute()
117 if user_data and user_data_get("data");
118 return [user_data["data"][0]['login_type']]
119 else:
120 return [
121 except Exception as e:
122 raise HTTPException(status_code=400, detail=str(e))
```

#### File: /Users/kh.kim/Documents/AIChat/app/services/chat\_service.py

1 [binary]

#### File: /Users/kh.kim/Documents/AIChat/app/services/conversation\_service.py

```
import logging import os from datetime import datetime, timezone from typing import Dict, List
       import tiktoken
from fastapi import APIRouter, HTTPException
from langchain core.prompts import PromptTemplate
from langchain core.runnables import RunnableSequence
from langchain core.documents import Document
from langchain.memory import ConversationBurfferWindowMemory
from langchain.core.documents import Document
from langchain.memory import ConversationBurfferWindowMemory
from langchain.core.messages import AIMessage. HumanMessage
from langchain.chains.summarize import load_summarize_chain
from langchain.chains import LIMCMain
from supabase import Client, create_client
11
12
13
14
15
16
17
18
       from app.config import redis_client
from app.models.conversation import
                                                                               21
                                                                                                    UserCharacterInteractionInDE
                                                                                                    UserCharacterInteractionUpdate
       from app.models.user import UserProfile as User from app.models.user import UserProfile as User from app.services.ai_service import ATService from app.services.relationship_service import RelationshipService
26
28
30
31
       router = APIRouter()
       logging.basicConfig(level=logging.DEBUG)
logger = logging.getLogger(__name__)
       supabase_url = os.getenv("SUPABASE_URL")
supabase_key = os.getenv("SUPABASE_KEY")
if not supabase_url or not supabase_key:
    raise ValueError:"SUPABASE_URL and SUPABASE_KEY must be set in .env file")
36
37
38
39
       supabase: Client = create client(supabase url, supabase key
       class ConversationContextManager: #
   def __init_ (self, window_size: int = 10): # window_size:
        self.memory - ConversationBufferWindowMemory(k-window_size) #
        self.relationship_info = () #
        self.current_scenario = None #
43
44
45
46
47
48
49
                 def add_message(self, role: str, content: str): # role:    , content:
    if role == 'human':
\begin{array}{c} 5015235455665896061235545556666666667712777778981828888999123495 \end{array}
                           it role == 'human':
    self.memory.chat_memory.add_message(HumanMessage(content-content))
elif role == 'ai':
                                     self.memory.chat_memory.add_message(AIMessage(content=content))
                 def get_conversation_history(self) -> List[Dict[str, str]]:
    return [("role": msg.type, "content": msg.content) for msg in self.memory.chat_memory.messages
                 def update_relationship_info(self, affinity: float, interaction_count: int):
    self.relationship_info update({
        "affinity": affinity,
        "interaction_count": interaction_count
                 \label{eq:continuous} \begin{array}{ll} \texttt{def set\_current\_scenario}(\texttt{self}, \ \texttt{scenario}: \ \texttt{Dict}[\texttt{str}, \ \texttt{any}]): \\ \texttt{self\_current\_scenario} = \texttt{scenario} \end{array}
                 def get_formatted_context(self) -> str:
    context = (
                                   itext = {
  "conversation_history": self.get_conversation_history(),
  "relationship_info": self.relationship_info,
  "current_scenario": self.current_scenario
                           return json.dumps(context, ensure ascii=False, indent=2)
                 def clear_context(self):
    self.memory.clear()
    self.relationship_info = { }
    self.current_scenario = None
        class ConversationService:
    def __init__ (self):
        self.context manager = ConversationContextManager()
        self.llm = OpenAI (temperature=0)  # OpenAI
        self.summarize_chain = load_summarize_chain(self.llm, chain_type="map_reduce")
        self.ai_service = AIService()
                           self relationship_service = RelationshipService()
self.llm = ChatOpenAI(temperature=0.7)
self.prompt_template = PromptTemplate(
   input_variables=["context", "recent_messages", "summary", "similar_messages", "affinity", "nickname"],
   template="""
AI . :
```

```
: {recent_messages}
: {summary}
: {similar_messages}
(): {affinity}
: {nickname}
self.llm_chain = LLMChain(llm=self.llm, prompt=self.prompt_template)
                 self.relationship_service = RelationshipService()
self.llm = ChatOpenAI(temperature=0.7)
self.affinity_prompt = PromptTemplate(
    input_variables=["summary"],
    template="""
                 self.affinity_chain = LLMChain(llm=self.llm, prompt=self.affinity_prompt)
                 self.redis_client = redis_client
           async def summarize_conversation(self, conversation_id: str, current_user: User) -> str
                 messages = await self.list_messages(conversation_id, current_user)
                  recent_messages = messages[-10:]
                      Document

cs = [Document(page_content-msg.content)] for msg in recent_messages
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
                  "
summary = self.summarize_chain.run(docs)
                  await self.save summary(conversation id, summary)
                 # AI
affinity_change = await self.calculate_affinity_change(summary)
                 "
conversation = await self.get_conversation(conversation_id, current_user)
await self.relationship_service.update_affinity(str(conversation.character_id), str(current_user.id), affinity_change
152
153
154
155
156
157
158
159
           async def save_summary(self, conversation_id: str, summary: str):
                 try:
# Supabase
160
161
                        "Supulase = supabase.table("conversation_summaries").insert({
    "conversation_id": conversation_id,
    "summary": summary,
    "created_at": datetime.now(timezone.utc).isoformat()
162
163
164
165
                        ) execute (
166
167
                if not response data:
    raise HTTPException(status_code=400, detail="Failed to save summary")
except Exception as e:
    logger.error(f%Error saving summary: {str(e)}")
    raise HTTPException(status_code=400, detail=str(e))
168
169
170
171
172
173
           async def create_message_and_respond(self, conversation_id: str, message: MessageCreate, current_user: User) -> MessageProfile created_message = await_self.create_message(conversation_id, message, current_user)
174
175
176
177
                 if message.sender == "user":
178
179
                       conversation = await self.get_conversation(conversation_id, current_user)
ai_response = await self.generate_ai_response(conversation_id, str(current_user.id), str(conversation.character_id))
180
181
                        ai_message = MessageCreate(sender="character", content=ai_response)
await self.create_message(conversation_id, ai_message, current_user
182
183
                return created message
184
185
           async def create_conversation(self, conversation: ConversationCreate, current_user: User) -> ConversationProfile
try:
186
187
                       :
conversation_data = conversation.model_dump()
conversation_data['user_id'] = str(current_user.id)
conversation_data['character_id'] = str(conversation.character_id)
188
189
190
191
                       response = supabase.table("conversations").insert(conversation_data).execute()
192
193
194
195
196
197
                       if response data:
                       self.context manager.clear_context()
return ConversationProfile(**response.data[0])
else:
                 else:
    raise HTTPException(status_code=400, detail="Failed to create conversation")
except Exception as e:
    logger.error(f"Error creating conversation: {str(e)}")
198
199
200
201
202
203
204
                        logger.error(f"Error creating conversation: {str(e)}")
raise HTTPException(status_code=400, detail=str(e))
           async def get_conversation(self, conversation_id: str, current_user: User) -> ConversationProfile
# Redis
205
206
207
208
                 # Redis
cached_conversation = self.redis_client.get(f"conversation:{conversation_id}")
if cached_conversation:
    conversation = json.loads(cached_conversation)
    if conversation['user_id'] == current_user.id:
        return ConversationProfile("conversation)
209
210
211
212
213
214
215
216
217
218
                 # Redis
                        response = supabase.table("conversations").select("*").eq("id", conversation id).execute()
                             # NewIns
self.redis_client.setex(f"conversation:{conversation_id}", 3600, json.dumps(conversation)) # 1
return ConversationProfile(*"conversation)
                                     raise HTTPException(status_code=403, detail="You don't have permission to access this conversation")
                                raise HTTPException(status_code=404, detail="Conversation not found")
                 except Exception as e
```

```
226
227
228
229
                         \label{logger} \begin{array}{l} logger.error\,(f"Error\ getting\ conversation:\ \{str(e)\,\}"\\ raise\ HTTPException\,(status\_code=400,\ detail=str(e)\,) \end{array}
            async def update_conversation(self, conversation_id: str, conversation: ConversationUpdate, current_user: User) -> ConversationProfile
23023122233322342235223623722382240224122422432244522552556257225625722592600
                         :
existing_conversation = await self.get_conversation(conversation_id, current_user)
if existing_conversation.user_id != current_user.id:
    raise HTTPException(status_code=403, detail="You don't have permission to update this conversation")
                         update_data = conversation.model_dump(exclude_unset=True)
                        response = supabase.table("conversations").update(update_data).eq("id", conversation_id).execute()
if response.data:
    return ConversationProfile(**response.data[0])
else:
raise HTTPException(status_code=400, detail="Failed to update conversation")
                         ept Exception as e:
logger.errorif"Error updating conversation: {str(e)}")
raise HTTPException(status_code=400, detail=str(e))
           async def delete_conversation(self, conversation_id: str, current_user: User):
    try:
                         :
existing_conversation = await self.get_conversation(conversation_id, current_user)
if existing_conversation.user_id != current_user.id:
    raise HTTPException(status_code=403, detail="You don't have permission to delete this conversation")
                         response = supabase.table("conversations").delete().eq("id", conversation_id).execute()
                  if not response data:
    raise HTTPException(status_code=400, detail="Failed to delete conversation"
except Exception as e:
    logger.error(f"Error deleting conversation: {str(e)}")
    raise HTTPException(status_code=400, detail=str(e))
             \frac{\text{Sin}(G)}{\text{conversations}} (\text{self, current\_user: User}) \rightarrow \text{List}(\text{ConversationProfile}) : \\ \text{try:} 
                         response = supabase.table("conversations").select("*").eq("user_id", current_user.id).execute()
261
262
263
264
265
266
                         if response data
                 if response.data:
    return [ConversationProfile(**conversation) for conversation in response.data]
else:
    return []
except Exception as e:
    logger.error(f"Error listing conversations: {str(e)}")
    raise HTTPException(status_code=400, detail=str(e))
267
268
269
270
271
272
273
274
275
            async def create message(self, conversation id: str, message: MessageCreate, current user: User) -> MessageProfile
                         await self.get conversation(conversation id, current user
                         message_data = message.model_dump()
message_data['conversation_id'] = conversation_id
276
277
278
                         self.context manager.add message("human" if message.sender == "user" else "ai", message.content)
280
281
                         "message_count = await self.get_message_count(conversation_id)
282
                         # 10
if message_count % 10 == 0;
await self.summarize_conversation(conversation_id, current_user)
283
284
285
286
                         # vector = self.ai_service.vectorize_text(message.content)
message data('embedding') = vector
287
288
289
290
291
                         # Supabase ()
response = supabase.table("messages").insert(message_data).execute()
292
293
294
295
                                created message = MessageProfile(**response.data[0])
296
297
298
299
                                300
301
                                await self.ai_service.store_vector_async(
   id=str(created_message.id),
302
304
                                       vector=vector,
metadata={
306
307
308
309
                                            .adata={
  "conversation_id": conversation_id,
  "content": message.content,
  "created_at": created_message.created_at.isoformat()
310
311
312
                         return created_message else:
                  raise HTTPException(status_code=400, detail="Failed to create message")
except Exception as e:
314
315
316
317
318
                         logger.error(f"Error creating message: {str(e)}")
raise HTTPException(status_code=400, detail=str(e))
319
320
321
322
            async_def get_similar_messages(self, conversation_id: str, message_content: str, top_k: int = 5) -> List(MessageProfile)
323
324
325
326
327
328
                   vector = self.ai_service.vectorize_text(message_content)
similar_vectors = self.ai_service.search_similar_vectors(vector, conversation_id, top_k)
329
330
331
332
333
334
                  similar_messages = []
for match in similar_vectors:
    message_id = match!'id'|
    message = await self.get_message(message_id, None)  # None .
    similar_messages.append(message)
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
353
                  return similar_messages
            async_def get_message_count(self, conversation_id: str) -> int:
                 try:
    response = supabase.table("messages").select("id", count="exact").eq("conversation_id", conversation_id).execute()
    return response.count
except Exception as e:
    logger.error(f"Error getting message count: {str(e)}")
    raise HTTPException(status_code=400, detail=str(e))
```

```
await self.get_conversation(conversation_id, current_user)
                       response = supabase.table("messages").select("*").eq("conversation_id", conversation_id).order("created_at").execute()
                       if response data: return [MessageProfile[**message] for message in response data]
                r return [MesageProfile(**message) for message i
else:
    return []
except Exception as e:
    logger error(f"Error listing messages: {str(e)}")
    raise HTTPException(status_code=400, detail=str(e))
           async def get_message(self, message_id: str, current_user: User) -> MessageProfile: try:
                       response = supabase.table("messages").select("*").eq("id", message_id).execute() if response.data:
                              response.data:
message = response.data[0]
conversation = await self.get_conversation(message['conversation_id'], current_user)
if conversation.user_id != current_user.id:
    raise HTTPException(istatus_code=403, detail="You don't have permission to access this message"
return MessageProfile(**message)
                else:
    raise HTTPException(status_code=404, detail="Message not found"
except Exception as e:
    logger.error(ETError getting message: {str!e|}")
    raise HTTPException(status_code=400, detail=str(e))
           async def update_relationship(self, user_id: str, character_id: str, affinity: float, interaction_count: int):
    try:
                        self.context_manager.update_relationship_info(affinity, interaction_count
                 #
except Exception as e:
logger.error(f"Error updating relationship: {str(e)}")
raise HTTPException(status_code=400, detail=str(e))
           async def set_scenario(self, scenario_id: str):
try:
                try:
    scenario = await self.get_scenario_from_db(scenario_id)
    self.context manager.set_current_scenario(scenario)
except Exception as e:
    logger.error(f"Brror setting scenario: {str(e)}")
    raise HTTPException(status_code=400, detail=str(e))
401
           async def get scenario from db(self, scenario id: str):
402
403
404
405
406
407
408
409
                 r :
response = supabase.table("scenarios").select("*").eq("id", scenario_id).execute()
if response.data:
    return response.data[0]
                        raise HTTPException(status code=404, detail="Scenario not found")
           async def g
                      def get_conversation_summary(self, conversation_id: str) -> str:
410
411
                 # Redis
cached_summary = self.redis_client.get(f"conversation_summary:{conversation_id}")
if cached_summary:
412
413
                        return cached summary
414
415
                 # Redis
416
417
                        response = supabase.table("conversation_summaries").select("summary").eq("conversation_id", conversation_id).order("created_at", ascending=False).lim if response.data:
418
419
                              summary = response.data[0]['summary']
# Redis
420
421
                              self.redis_client.setex(f"conversation_summary:{conversation_id}", 3600, summary) # 1
422
423
424
425
                 return " ."
except Exception as e:
logger.error(f"Error getting conversation summary: {str(e)}")
426
427
428
429
           async def get_recent_messages(self, conversation_id; str, limit; int) -> List[MessageProfile]
# Redis
430
431
                 # Redis
cached_messages = self.redis_client.lrange(f"recent_messages:{conversation_id}", 0, limit - 1)
if cached_messages and len(cached_messages) == limit:
    return (MessageProfile(**json.loads(msg)) for msg in cached_messages)
432
434
                 # Redis
436
                      response = supabase.table("messages").select("*").eq("conversation_id", conversation_id).order("created_at", ascending=False).limit(limit).execute() messages = [MessageProfile(**msg) for msg in response.data][::-1]
438
439
                       # Redis
440
                       for msg in messages
441
                       self.redis_client.lpush(f"recent_messages:{conversation_id}", json.dumps(msg.model_dump()))
self.redis_client.ltrim(f"recent_messages:{conversation_id}", 0, limit - 1)
442
444
445
                        return messages
446
447
                        ept Exception as e:
logger.error(f"Error getting recent messages: {str(e)}")
448
449
450
451
           async def get_relationship(self, character_id: str, user_id: str) -> UserCharacterInteractionInDB:
    try:
452
453
454
455
456
457
                        return await self.relationship_service.get_interaction(character_id, user_id)
                 except HTTPException
                        new_relationship = UserCharacterInteractionCreate(character_id=character_id, user_id=user_id)
return await self.relationship_service.create_interaction(new_relationship)
458
           async def generate_ai_response(self, conversation_id: str, user_id: str, character_id: str) -> str: try:
459
460
                       :
recent_messages = await self.get_recent_messages(conversation_id, 10)
summary = await self.get_conversation_summary(conversation_id)
similar_messages = await self.get_similar_messages(conversation_id, recent_messages[-1].content, 3)
relationship = await self.relationship_service.get_interaction(user_id, character_id)
affinity_level = self.relationship_service.get_affinity_level(relationship.affinity)
461
462
463
464
465
466
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468
469
471
472
473
474
475
476
477
                        * self.context_manager.update_relationship_info(relationship.affinity, relationship.interaction_count) self.context_manager.add_message("human", recent_messages[-1].content)
                        context = self.context_manager.get_formatted_context()
                        #
encoding = tiktoken.encoding_for_model("gpt-3.5-turbo")
max_tokens = 4096  # GPT-3.5-turbo
prompt_tokens = len(encoding_encode(context))
available_tokens = max_tokens - prompt_tokens - 100  #
                        prompt template = PromptTemplate(
   input_variables=["recent_messages", "summary", "similar_messages", "affinity_level", "relationship_type", "nickname"),
                              template=""
```

```
: {summary}
: {similar_messages}
: {affinity_level}
: {relationship_type}
: {nickname}
ChatOpenAI(temperature=0.7, max_tokens=available_tokens)
hain = LLMChain(llm=1lm, prompt=prompt_template)
                             llm_chain
                                                    = 11m_chain.run
                                    context.
recent_messages.self.format_messages(recent_messages),
summary.simmary,
similar_messages.self.format_messages(similar_messages)
affinity_level-affinity_level,
relationship_type-relationship.relationship_type.value,
nickname=relationship_nickname or ""
                            # AI
self.context_manager.add_message("ai", ai_response)
                     return ai_response
except Exception as e:
logger.error[f"Error generating AI response: {str(e)}")
return
             def format_messages(self, messages: List[MessageProfile]) -> str:
    return "\n".join([f"{msg.sender}: {msg.content}" for msg in r
             async def update affinity(self, conversation id: str, user id: str, character id: str, message content: str)
                     # affinity change = self.calculate affinity change(message content)
                     relationship = await self.relationship\_service.get\_relationship(user\_id, character\_id) \\ new\_affinity = max(-100, min(100, relationship.affinity + affinity\_change))
530
531
                     await self.relationship_service.update_relationship(
                         user_id,
character_id,
UserCharacter_id,
UserCharacterInteractionUpdate(affinity=new_affinity, last_interaction=datetime.datetime.now(timezone.utc))
532
533
534
535
536
537
538
539
                 sync def calculate_affinity_change(self, summary: str) -> float:
    affinity_change_str = await self.affinity_chain.arun(summary-summary)
    try:
        affinity_change = float(affinity_change_str.strip())
        return max(-5, min(5, affinity_change))  # -5 5
    except ValueError:
        return 0 #
540
541
542
543
544
545 #
            ConversationService
```

### File: /Users/kh.kim/Documents/AlChat/app/services/\_\_init\_\_.py

1 [binary]

## File: /Users/kh.kim/Documents/AlChat/app/services/scenario service.py

```
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70
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75
77
78
79
             . (CASCADE ).
             result = await supabase_client.table('scenarios').delete().eq('id', scenario_id).execute()
return len(result.data) > 0
     # async def db_get_scenario_progress(user_id: str, scenario_id: str) -> Optional[ScenarioProgress]:
             result = await supabase_client.table('scenario_progress').select('*').eq('user_id', user_id).eq('scenario_id', scenario_id).execute() if result.data:
                   return ScenarioProgress (**result.data[0])
             return None
     # async def db_update_scenario_progress(progress: ScenarioProgress) -> ScenarioProgress:
             progress_data = progress.model_dump()
result = await supabase_client.table('scenario_progress').upsert(progress_data).execute()
return ScenarioProgress(**result.data[0])
     # async def create_scenario(scenario: ScenarioCreate) -> Scenario:
81
82
          return await db_create_scenario(scenario)
    # async def get_scenario(scenario_id: str) -> Optional[Scenario]:
# """ ID ."""
85
86
87
88
          return await db_get_scenario(scenario_id)
     # async def update_scenario(scenario_id: str, scenario_update: ScenarioUpdate) -> Scenario:
89 # 90 # 91 # 92 93 # 95 # 96 97 # 99 # 100 # 101 #
         return await db_update_scenario(scenario_id, scenario_update)
     # async def delete_scenario(scenario_id: str) -> bool:
          return await db_delete_scenario(scenario_id)
     # async def check_scenario_trigger(user_id: str, character_id: str) -> Optional[Scenario]:
             relationship_service = RelationshipService()
relationship = await relationship_service.get_interaction(user_id, character_id)
102
103 #
 104
             result = await supabase_client.table('scenarios').select('*').eq('character_id', character_id).execute() scenarios = [Scenario(**scenario) for scenario in result.data]
106#
107 #
108
109 #
             # .
async def check scenario(scenario):
   if scenario.trigger_type == "affinity" and relationship.affinity >= scenario.trigger_value:
        return scenario
   return None
110 #
111 #
112
113 #
114
115 #
             checked_scenarios = await asyncio.gather(*[check_scenario(scenario) for scenario in scenarios])
triggered_scenarios = [s for s in checked_scenarios if s is not None]
116#
117
118 #
             return triggered scenarios[0] if triggered scenarios else None
110 # async def start_scenario(user_id: str, scenario_id: str) -> ScenarioProgress:
122 #
123 #
124 #
             scenario = await get_scenario(scenario_id)
if not scenario:
125 #
126 #
                   raise ValueError("Scenario not found")
127 #
128
            progress = ScenarioProgress(
   id=f"(user_id) {scenario_id}",
   user_id=user_id,
   scenario_id=scenario_id,
   current_step=0,
   started_at-datetime.now(),
129 #
130 #
131 #
132 #
133 #
134 #
                  is_completed=False
135 #
136 #
            )
137
138 #
            return await db update scenario progress (progress)
139
140 # async def progress_scenario(user_id: str, scenario_id: str) -> ScenarioProgress:
141
142 #
143 #
             progress = await db_get_scenario_progress(user_id, scenario_id)
if not progress:
    raise ValueError("Scenario progress not found")
145 #
146 #
147 #
 148
             scenario = await get_scenario(scenario_id)
if not scenario:
    raise ValueError("Scenario not found")
149 #
150
151 #
            if progress.current_step < len(scenario.steps) - 1:
    progress.current_step += 1
else:</pre>
153 #
154
155 #
                progress.is_completed = True
progress.completed_at = datetime.now()
156
157 #
158
159 #
             return await db_update_scenario_progress(progress)
160 # async def get_scenario_message(scenario_id: str, step: int) -> str: 162 # """
164 #
165 #
             scenario = await get_scenario(scenario_id)
if not scenario or step >= len(scenario.steps):
    raise ValueError("Invalid scenario or step"
 166 #
167 #
             return scenario.steps[step].content
      async def get_all_scenarios_for_character(character_id: str) -> List[Scenario]:
             """
result = await supabase_client.table('scenarios').select('*, scenario_steps(*)').eq('character_id', character_id).execute()
scenarios = []
for scenario_data in result.data:
    steps = [ScenarioStep(**step) for step in scenario_data.pop('scenario_steps')]
scenarios.append(Scenario(**scenario_data, steps=steps))
return scenarios
 183 # async def bulk_update_scenario_progress(progresses: List[ScenarioProgress]) -> List[ScenarioProgress]:
```

```
187# progress_data = [progress.model_dump() for progress in progresses]
188# result = await supabase_client.table('scenario_progress'_uppert(progress_data).execute()
189# return [ScenarioProgress(**data) for data in result.data]
```

#### File: /Users/kh.kim/Documents/AIChat/app/services/relationship\_service.py

```
import json
import os
from datetime import datetime, timezone
    from fastapi import HTTPException
from supabase import Client, create_client
    from app.config import redis_client
from app.models.relationship import
                                                        (RelationshipType,
UserCharacterInteractionCreate,
UserCharacterInteractionInDB,
UserCharacterInteractionUpdate)
    supabase_url = os.getenv("SUPABASE_URL")
supabase_key = os.getenv("SUPABASE_KEY")
if not supabase_url or not supabase_key:
    raise ValueError("SUPABASE_URL and SUPABASE_KEY must be set in .env file")
supabase: Client = create_client(supabase_url, supabase_key)
    class RelationshipService:
    def __init__(self):
        self.redis_client = redis_client
          async def get_interaction(self, character_id: str, user_id: str) -> UserCharacterInteractionInDB:
    # Redis
                # RedIS
cached_interaction = self.redis_client.get(f"interaction:{character_id}:{user_id}")
if cached_interaction:
    return UserCharacterInteractionInDB(**json.loads(cached_interaction))
                # Redis
self.redis_client.setex(f"interaction:{character_id}:{user_id}", 3600, json.dumps(interaction.model_dump()))  # 1
return interaction
raise HTTPException(status_code=404, detail="Interaction not found")
               def create_interaction(self, interaction: UserCharacterInteractionCreate) => UserCharacterInteractionInDB:
response = supabase.table("user_character_interactions").insert(interaction.model_dump()).execute()
if response.data:
    created_interaction = UserCharacterInteractionInDB(**response.data[0])
    # Redis
                      # Redis
self.redis_client.setex(
    f"interaction:{created_interaction.character_id}:{created_interaction.user_id}",
                           json.dumps(created_interaction.model_dump())
               return created interaction raise HTTPException(status_code-400, detail-"Failed to create interaction")
          # Redis
self.redis_client.setex(f"interaction:{character_id}:{user_id}", 3600, json.dumps(updated_interaction.model_dump()))
return updated_interaction
raise HTTPException(status_code=400, detail="Failed to update interaction")
         # Redis
self.redis_client.setex(f"interaction:{character_id}:{user_id}", 3600, json.dumps(updated_interaction.model_dump()))
          def get_affinity_level(self, affinity: float) -> str:
   if affinity <= -91:
        return " " "</pre>
               elif affinity <= -41
               elif affinity <= -11
               elif affinity <= 10:
               elif affinity <= 40:
               elif affinity <= 60:
               elif affinity <= 70:
               return elif affinity <= 90:
               else:
return " "
          def get_relationship_type(self, affinity: float) -> RelationshipType
if affinity <= -91:
    return RelationshipType.ENEMY</pre>
               return Relations...
elif affinity <= -51:
    return RelationshipType.RIVAL
109
110
               111
               return RelationsHar-1,
elif affinity <= 20:
    return RelationshipType.ACQUAINTANCE
    - 30:
113
114
               return RelationshipType.ACQUAINTANCE
elif affinity (= 30:
return RelationshipType.FRIEND
elif affinity (= 50:
return RelationshipType.CLOSE_FRIEND
elif affinity (= 70:
return RelationshipType.LOVER
elif affinity (= 100:
116
120
121
```

File: /Users/kh.kim/Documents/AIChat/app/services/character\_service.py

```
# services/character service.py
     import os
from typing import List
     from fastapi import APIRouter, HTTPException
from supabase import Client, create_client
     from app.models.character import (CharacterCreate, CharacterProfile,
     from app.models.user import UserProfile as User
 14 router = APIRouter()
     logging.basicConfig(level=logging.DEBUG
logger = logging.getLogger(__name__)
     supabase_url = os.getenv("SUPABASE_URL")
supabase_key = os.getenv("SUPABASE_KEY")
if not supabase_url or not supabase_key;
raise ValueError("SUPABASE_URL and SUPABASE_KEY must be set in .env file")
     supabase: Client = create_client(supabase_url, supabase_key)
def is_admin(user: User) -> bool:
    return user.is_admin
 26
28
 30
31
32
34
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37
38
39
     async def create character(character: CharacterCreate, current user: User) -> CharacterProfile
          try:
    character_data = character.model_dump()
    character_data['creator_id'] = current_user_id
                # Convert LocalizedContent fields to JSON
for field in ['names', 'occupation', 'background', 'appearance_description']
                    40
41
 42
43
                 response = supabase.table("characters").insert(character data).execute()
44
45
                 if response.data:
    return CharacterProfile(**response.data[0])
                else:
raise HTTPException(status_code=400, detail="Failed to create character")
46
47
48
49
          raise HITPException as e:
logger.error(f"Error creating character: {str(e)}"
raise HTTPException(status_code=400, detail=str(e))
50
51
52
53
54
55
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59
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61
62
63
64
65
66
67
68
      \begin{tabular}{lll} async \ def \ get\_character(character\_id: \ str, \ current\_user: \ User) \ -> \ CharacterProfile: \ try: \end{tabular} 
                response = supabase.table("characters").select("*").eq("id", character_id).execute()
if response data:
    character = response.data[0]
if character('creator_id') == current_user(id or is_admin(current_user)):
                             character['creator_id'] == current_user.id or is_admin(current_user):
return CharacterProfile(**character)
                      else
                             raise HTTPException(status_code=403, detail="You don't have permission to access this character")
                else:
                        raise HTTPException(status_code=404, detail="Character not found")
           except Exception as e:
logger.error(f"Error getting character: {str(e)}")
raise HTTPException(status_code=400, detail=str(e)
     async def update character(character id: str, character: CharacterUpdate, current user: User) -> CharacterProfile
                existing character = await get character(character_id, current_user)
if existing character.creator_id != current_user.id and not is_admin(current_user)
raise HTTPException(status_code=403, detail="You don't have permission to upda
update data = character.model dump(exclude unset=True
                # Convert LocalizedContent fields to JSON
for field in ['names', 'occupation', 'background', 'ap
    if field in update_data:
        update_data[field] = update_data[field].dict()
                                                                       'background', 'appearance description']:
                 response = supabase.table("characters").update(update_data).eq("id", character_id).execute() if response.data:
                     response.data:
return CharacterProfile(**response.data[0])
                else
                        . raise HTTPException(status_code=400, detail="Failed to update character")
           async def delete_character(character_id: str, current_user: User):
    try:
                :
existing_character = await get_character(character_id, current_user)
if existing_character.creator_id != current_user.id and not is_admin(current_user):
    raise HTTPException(status_code=403, detail="You don't have permission to delete this character"
                response = supabase.table("characters").delete().eq("id", character_id).execute()
                               sponse.data:
HTTPException(status_code=400, detail="Failed to delete character")
           except Exception as e
logger.error(f"Er
                 logger.error(f"Error deleting character: {str(e)}"
raise HTTPException(status_code=400, detail=str(e)
response = supabase.table("characters").select("*").or_(f"creator_id.eq.{current_user.id},is_public.eq.true").execute()
                if response data:
    return (CharacterProfile(**character) for character in response data
           return []
except Exception as e:
  logger.error(f"Error listing characters: {str(e)}'
  raise HTTPException(status_code=400, detail=str(e)
```

# File: /Users/kh.kim/Documents/AIChat/requirements.txt

aiohappyeyeballs=2.3.4 aiohttp=3.10.1 aiosignal==1.3.1 annotated-types=0.7.0 anyio=4.4.0 async-timeout=4.0.3 attrs=24.1.0

```
certifi==2024.7.4
  charset-normalizer==3.3.2
click==8.1.7
 click=8.1.7
deprecation=2.1.0
distro=1.9.0
dnspython=2.6.1
email_validator=2.2.0
exceptiongroup=1.2.2
fastapi=0.111.1
fastapi-cli=0.0.5
frozenlist=1.4.1
    gotrue==2.6.1
fastapi==0.111.1
 fastapi=0.111.1 gunicom=22.0.0 h11=0.14.0 h12=4.1.0 hpack=4.0.0 httpcore=1.0.5 httptools=0.6.1 httpx=0.27.0 hyperframe=6.0.1 idna=3.7 Jinja2=3.1.4 isonnatch==1.33
 Jinja2=3.1.4

jsonpatch=1.33

jsonpointer=3.0.0

langchain=0.2.12

langchain-openai=0.1.20

langchain-text-splitters=0.2.2

langsmith=0.1.98

markdown-it-py=3.0.0

MarkupSafe=2.1.5

mduri=0.1.2

multidict=6.0.5
mdurl=-0.1.2
multidict=-0.0.5
numpy=-1.26.4
openai=-1.37.1
orjson=-3.10.6
packaging=-23.2
pinecone=-4.0.0
postgrest=-0.16.9
pydantic_-2.8.2
pydantic_core=-2.20.1
Pygments=-2.18.0
python-dateutil=-2.9.0.post0
python-dotenv=-1.0.1
python-multipart=-0.0.9
 python-dotenV=1.0.1
python-multipart==0.0.9
PyYAML==6.0.1
realtime==1.0.6
redis==5.0.7
regex==2024.7.24
    requests==2.32.3
rich==13.7.1
shellingham==1.5.4
 shellingham=1.5.4
six=1.16.0
sniffio=1.3.1
SQLAlchemy=2.0.32
starlette=0.37.2
storage3=0.7.7
StrEnum=0.4.15
supabase=2.6.0
supafune=0.5.1
tenacity=8.5.0
tiktoken=0.7.0
todm=4.66 5
    tqdm==4.66.5
typer==0.12.3
type==0.12.3
typing_extensions==4.12.2
ujson==5.10.0
urllib3==2.2.2
uvicom==0.27.1
uvloop==0.19.0
watchfiles==0.22.0
websockets==12.0
yarl==1.9.4
```

## File: /Users/kh.kim/Documents/AIChat/Dockerfile

```
# Dockerfile
FROM python:3.9-slim
# 작업 디렉토리 설정
WORKDIR /app
# 종속성 파일 복사 및 설치
COPY requirements.txt requirements.txt
RUN pip install --no-cache-dir -r requirements.txt
# 애플리케이션 코드 복사
COPY ...
# 포트 설정 (Heroku는 기본적으로 $PORT 환경 변수를 사용)
ENV PORT=8000
# 애플리케이션 시작 명령어
CMD uvicorn app.main:app --host 0.0.0.0 --port $PORT
```

# File: /Users/kh.kim/Documents/AIChat/test.html

```
<!-- Registration Form -->
                  <!-- Login Form -->
                  <!-- Login Form -->
<h2>Login Form -->
<h2>Login Form -->
<h2>Login Form">
<input type="text" id="login-email" placeholder="Email" required>
<input type="password" id="login-password" placeholder="Password" required>
<br/>
                  %: Josefal Login/h2>
%utton id="google-login">Login with Google/button id="glthub-login">Login with GitHub/button id="facebook-login">Login with Facebook/buttonid="facebook-login">Login with Facebook/buttonid="facebook-login">Login with Facebook
                  <!-- Logout Button -->
                     %h2>Logout</h2>
%button id="logout-button">Logout</button>
                  <!-- Profile Form -->
                  <button id="get-profile-button">Get Profile</button)</pre>
                       n2>Output</h2>
ore id="output"></pre
                                          apiUrl = 'http://localhost:8000'; // Update with your API base URL
oken = localStorage.getItem('token') || '';
                           document.getElementById('register-form').addEventListener('submit', async (event) => {
                                     ument.getElementById''register-form').addventListener'('suomit', asyn
event.preventDefault();
const email = document.getElementById('register-email').value;
const password = document.getElementById('register-password').value;
const nickname = document.getElementById('register-nickname').value;
const response = await fetch('$[apiUrl]/register', {
    method: 'POST',
                                         OBSt ter;
method: 'POST',
headers: {
    'Content-Type': 'application/json'
                                             body: JSON.stringify({ email, password, nickname })
                                    ));
const data = await response.json();
document.getElementById('output').innerText = JSON.stringify(data, null, 2);
                           document.getElementById('login-form').addEventListener('submit', async (event) => {
                                     ument.getElementById'!login=form').adacVentListenet('suomit', asyn
event.preventDefault();
const email = document.getElementById('login=email').value;
const password = document.getElementById('login=password').value;
const response = await fetch('$(apiUrl)/login', (
method: 'POST',
headers: (
                                             body: JSON.stringify({ email, password })
                                     ));
const data = await response.json();
if (response.ok) {
   token = data.access_token;
   localStorage.setItem('token', token);
                                    document.getElementById('output').innerText = JSON.stringify(data, null, 2);
                          'Authorization': `Bearer $ (token)
                                       const data = await response.json();
                                      token
                                     token = '';
localStorage.removeItem('token');
document.getElementById('output').innerText = JSON.stringify(data, null, 2);
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                           document.getElementById('profile-form').addEventListener('submit', async (event) => {
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                                                         'Content-Type': 'application/json'
'Authorization': `Bearer ${token}`
 112
                                               body: JSON.stringify({ username, email })
                                      1);
const data = await response.json();
document.getElementById('output').innerText = JSON.stringify(data, null, 2);
                           document.getElementById('get-profile-button').addEventListener('click', async () => {
   console.log("Sending GET request to /profile", `Bearer ${token}`);
   const response = await fetch(`${apiUrl}//profile`, {
        method: 'GET',
   }
                                              headers: (
    'Authorization': 'Bearer $[token]
                                      const data = await response.json();
document.getElementById('output').innerText = JSON.stringify(data, null, 2);
                           document.getElementById('google-login').addEventListener('click', async () => {
    localStorage.setItem('original_url', window.location.href);
    const response = await fetch('\( \) {apiUrl\/social-login\/google', {
        method: 'POST',
    }
}
                                         headers: {
    'Content-Type': 'application/json'
                                      const data = await response.json();
```

```
if (data.url) {
    window.location.href = data.url;
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                   window.locatechnite
| else (
| document.getElementById('output').innerText = JSON.stringify(data, null, 2);
             ));
const data = await response.json();
if (data.url) {
    window.location.href = data.url;
} else {
    document.getElementById('output').innerText = JSON.stringify(data, null, 2);
}
             )
));
const data = await response.json();
if (data.url) {
   window.location.href = data.url;
} else (
                        document.getElementById('output').innerText = JSON.stringify(data, null, 2);
```

## File: /Users/kh.kim/Documents/AIChat/requirements-dev.txt

```
-r requirements.txt
awsebcli=3.20.10
eb=0.1.5
h2=4.1.0
importlib-resources=6.4.0
importib-resources:
jaraco.text=3.12.1
keyring=24.3.1
ordered-set=4.1.0
pip-chill=1.0.3
pipreqs=0.5.0
   rapidfuzz==3.9.4
 tomli==2.0.1
```

## File: /Users/kh.kim/Documents/AIChat/.env

SUPABASE URL=https://ufcesffieoelerxmgekv.supabase.co SUPABASE\_KEY=eyJhbGeiOiJIUzI1NilslnR5cCl6lkpXVCJ9.eyJpc3MiOiJzdXBhYmFzZSIsInJIZil6lnVmY2VzZmZpZW9lbGVyeG1nZWt2Iiwicm9sZSI6lmFub24iLCJpYXQiOjE3MjAxODA2M: Mk-uTDUmgW4KEVSU Mk-uTDUmgW4KEVSU
TESTING=True pytest
PINECONE\_API\_KEY=c0ebd048-48f1-47b5-ae28-dcb89ef1f8b5
PINECONE\_ENVIRONMENT=us-east-1
PINECONE\_INDEX\_NAME=ai-dating-simulator
OPENAI\_API\_KEY=sk-proj-IM3W5QMEKH9vHMWfaa1ET3BlbkFJU4BUmhw53qQRFjrdkJ2x
UPSTASH\_REDIS\_REST\_TOKEN=AaFXAQIncDFhYTM5OTkzMjg3YzM0ZjYyYTg0ZTg3MzQ4ZThmZDEyOXAxNDEzMDM
UPSTASH\_REDIS\_REST\_URL=https://cool-toad-41303.upstash.io
UPSTASH\_REDIS\_URL=rediss://:AaFXAQIncDFhYTM5OTkzMjg3YzM0ZjYyYTg0ZTg3MzQ4ZThmZDEyOXAxNDEzMDM@cool-toad-41303.upstash.io:6379

# File: /Users/kh.kim/Documents/AIChat/.code2pdf

:directories

- vscode - static
- tests
- venv - .venv
- .git :files:
- .env.example
- .gitignore README.md
- test redis connection.py - test.html.code2pdf.yaml
- File: /Users/kh.kim/Documents/AIChat/Procfile

web: uvicorn app.main:app --host 0.0.0.0 --port \$PORT