OllamaNet Entity Relationship Diagram

Permissions
- id : string «PK»

name : string
resource : string
action : string
description : string

Roles
- id : string «PK»

name : string
normalized_name : string
description : string

Users
- id : string «PK»

username : string
email : string
password_hash : string
email_confirmed : boolean
phone_number : string
phone_confirmed : boolean
two_factor_enabled : boolean
lockout_end : datetime
lockout_enabled : boolean
access_failed_count : int
created_at : datetime
updated_at : datetime
last_login_at : datetime

Folders
- id : string «PK»

name : string
user_id : string «FK»
parent_id : string «FK»
created_at : datetime
updated_at : datetime

parent

AIModels
- id : string «PK»

name : string
description : string
status : enum
size : bigint
context_length : int
parameter_count : bigint
quantization_level : string
base_model : string
model_format : string
created_at : datetime
updated_at : datetime

Tags
- id : string «PK»

name : string
category : string
description : string

RolePermissions
- role_id : string «PK» «FK»
- permission_id : string «PK» «FK»

Role-based access control
for authorization

UserRoles
- user_id : string «PK» «FK»
- role_id : string «PK» «FK»

Documents
- id : string «PK»

name : string
content_type : string
size : bigint
user_id : string «FK»
uploaded_at : datetime
processed_at : datetime
status : enum
storage_path : string

RefreshTokens
- token : string «PK»

user_id : string «FK»
expiry_date : datetime
created_by_ip : string
revoked_at : datetime
replaced_by_token : string
reason_revoked : string

Central identity entity
used across all services

Conversations
- id : string «PK»

title : string
user_id : string «FK»
model_id : string «FK»
created_at : datetime
updated_at : datetime
folder_id : string «FK»
is_archived : boolean
last_message_at : datetime

ModelConfigurations
- id : string «PK»

model_id : string «FK»
default_temperature : float
default_top_p : float
default_top_k : int
max_output_tokens : int
default_system_prompt : string

Shared between AdminService,
ExploreService, and
ConversationService

ModelTags
- model_id : string «PK» «FK»
- tag_id : string «PK» «FK»

DocumentChunks
- id : string «PK»

document_id : string «FK»
content : text
chunk_index : int
embedding : binary
embedding_model_id : string

DocumentMetadata
- document_id : string «PK» «FK»

author : string
created_at : datetime
modified_at : datetime
page_count : int
title : string
keywords : json
custom : json

Represents uploaded files
for RAG functionality

Notes
- id : string «PK»

content : text
user_id : string «FK»
conversation_id : string «FK»
created_at : datetime
updated_at : datetime

Messages
- id : string «PK»

conversation_id : string «FK»
role : enum
content : text
created_at : datetime
token_count : int
metadata : json

Core entity in the
Conversation domain

Feedback
- id : string «PK»

message_id : string «FK»
rating : int
comment : string
created_at : datetime
user_id : string «FK»

OllamaNet Entity Relationship Diagram

This diagram shows the database entities and their relationships
across all bounded contexts in the OllamaNet platform:

- Authentication entities (users, roles, permissions)
- Model entities (AI models, configurations, tags)
- Conversation entities (conversations, messages, feedback)
- Document entities (documents, chunks, metadata)

Key features:
- Shared database with logical separation by domain
- Foreign key relationships between entities
- Support for hierarchical structures (folders)
- Metadata storage for various entity types

All entities are stored in a single SQL Server database
with Entity Framework Core for data access.