OllamaNet Bounded Contexts and Service Mappings

Provides identity services
for all other contexts

AuthService

Authentication & Identity Context

C User
- Id: string
- Username: string
- Email: string
- PasswordHash: string
- Roles: List<Role>

C Role
- Id: string
- Name: string
- Permissions: List<Permission>

C Permission
- Id: string
- Name: string
- Resource: string
- Action: string

C RefreshToken
- Token: string
- ExpiryDate: DateTime
- IsRevoked: bool

User identity translation

AdminService

Administration Context

C AdminUser
- Id: string
- Username: string
- Email: string

C AIModel
- Id: string
- Name: string
- Description: string
- Status: ModelStatus
- Configuration: ModelConfig

C ModelConfig
- Parameters: Dictionary<string, object>
- DefaultPrompt: string
- MaxTokens: int

C SystemSetting
- Key: string
- Value: string
- Description: string

Model definitions

Manages platform configuration
and model administration

ExploreService

Model Discovery Context

C Model
- Id: string
- Name: string
- Description: string
- Size: long
- Tags: List<Tag>
- ContextLength: int

C Tag
- Id: string
- Name: string
- Category: string

C ModelSearchResult
- Models: List<Model>
- TotalCount: int
- FilteredCount: int

User identity translation

Model selection

Model configurations

Enables model discovery
and metadata browsing

ConversationService

Conversation Context

C Conversation
- Id: string
- Title: string
- CreatedAt: DateTime
- UpdatedAt: DateTime
- UserId: string
- FolderId: string?
- Messages: List<Message>

C Message
- Id: string
- Content: string
- Role: MessageRole
- CreatedAt: DateTime
- ConversationId: string

C Folder
- Id: string
- Name: string
- UserId: string
- ParentId: string?

C Note
- Id: string
- Content: string
- ConversationId: string

Document Context

C DocumentChunk
- Id: string
- Content: string
- Embedding: float[]
- DocumentId: string

C Document
- Id: string
- Name: string
- ContentType: string
- Size: long
- UserId: string
- UploadedAt: DateTime
- Chunks: List<DocumentChunk>

Document references

Manages user conversations
and document processing

Generation requests

Embedding generation

InferenceService

Inference Context

C InferenceRequest
- Model: string
- Prompt: string
- Parameters: ModelParameters
- Stream: bool

C InferenceResponse
- ModelId: string
- Content: string
- FinishReason: string
- TokensUsed: int

C ModelParameters
- Temperature: float
- TopP: float
- TopK: int
- MaxTokens: int
- Stop: string[]

Provides AI model inference
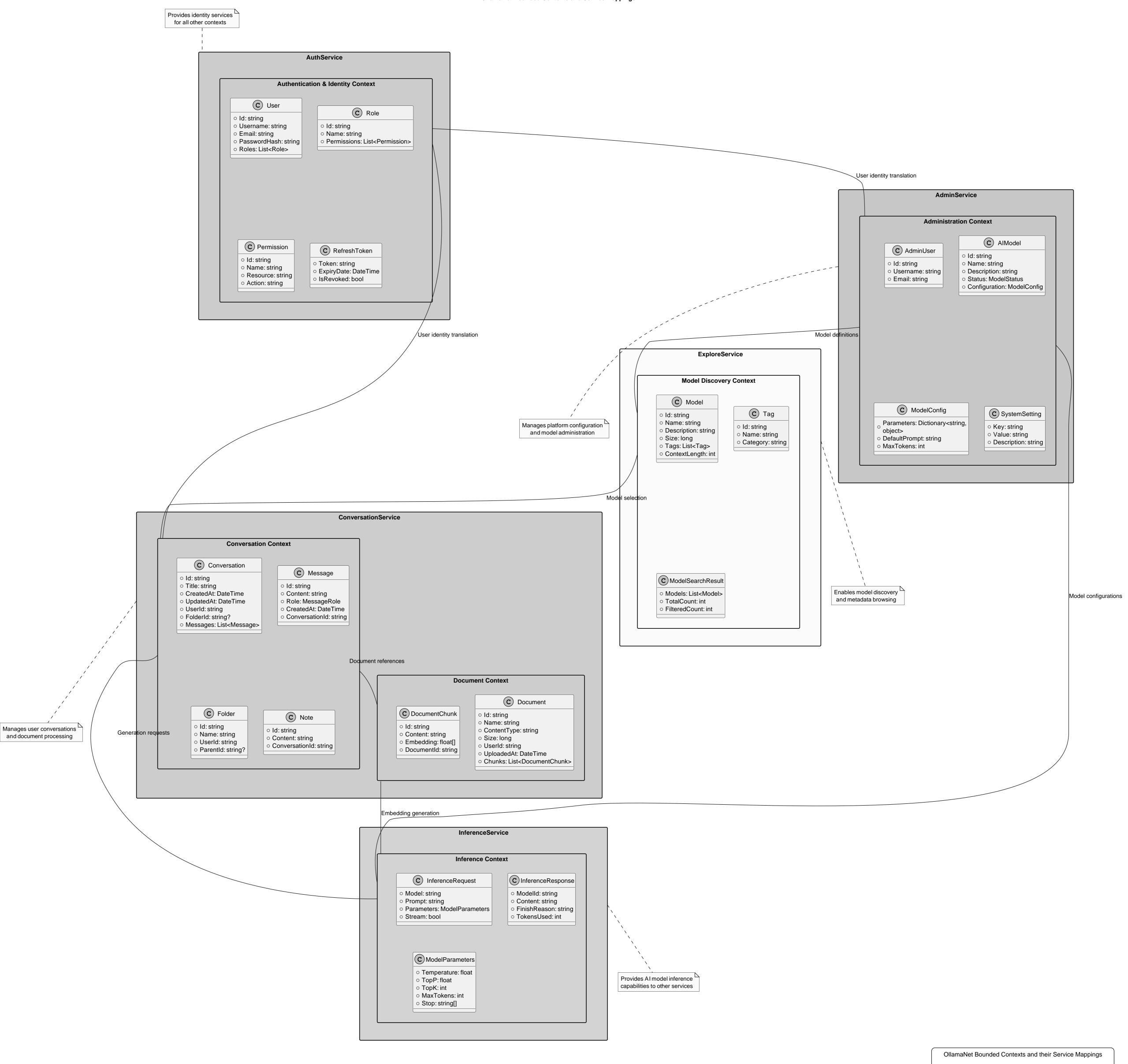capabilities to other services

OllamaNet Bounded Contexts and their Service Mappings

This diagram shows:
- Domain entities within each bounded context
- Service ownership of bounded contexts
- Key attributes of domain entities
- Relationships between bounded contexts

Each service is responsible for one or more bounded contexts:
- AuthService: Authentication & Identity Context
- AdminService: Administration Context
- ExploreService: Model Discovery Context
- ConversationService: Conversation Context, Document Context
- InferenceService: Inference Context

Lines between contexts represent domain model translations
across service boundaries.