Takharrujy Platform

Enumerations

ProjectStatus
- Draft
- Approved
- Completed

TaskStatus
- Pending
- InProgress
- Completed

Priority
- Low
- Medium
- High

DeliverableType
- Proposal
- Report
- Code
- Presentation

NotificationType
- Deadline
- Feedback
- Update

Controllers

- «Controller» ProjectController
- «Controller» TaskController
- «Controller» AIAssistantController
- «Controller» DeliverableController
- «Controller» NotificationController
- «Controller» FeedbackController
- «Controller» CommunicationController
- «Controller» UserController

Handles requests → Services

Services

- «Service» ProjectService
- «Service» TaskService
- «Service» AIAssistantService
- «Service» DeliverableService
- «Service» NotificationService
- «Service» FeedbackService
- «Service» CommunicationService
- «Service» UserService

Accesses data → Repositories
Business logic → Domain

Repositories

- «Repository» ProjectRepository
- «Repository» TaskRepository
- «Repository» AIAssistantRepository
- «Repository» DeliverableRepository
- «Repository» NotificationRepository
- «Repository» FeedbackRepository
- «Repository» CommunicationRepository
- «Repository» UserRepository

Domain

«Domain» Project
- id: int
- title: String
- description: String
- deadline: Date
- status: ProjectStatus (Draft, Approved, Completed)

«Domain» Notification
- id: int
- message: String
- isRead: boolean
- type: NotificationType (Deadline, Feedback, Update)

«Domain» Task
- id: int
- title: String
- description: String
- deadline: Date
- status: TaskStatus (Pending, InProgress, Completed)
- priority: Priority (Low, Medium, High)

«Domain» Team

«Domain» Feedback
- id: int
- comment: String
- rating: int
- date: Date

«Domain» Deliverable
- id: int
- fileUrl: String
- uploadDate: Date
- type: DeliverableType (Proposal, Report, Code, Presentation)

«Domain» User
- id: int
- name: String
- email: String
- university: String
- role: Role (Student, Supervisor, Admin)

«Domain» Message
- id: int
- content: String
- senderId: int
- receiverId: int
- timestamp: DateTime

Relationships
- Project **Has** Task (1 — many)
- Project **Has** Team (1 — 1)
- Project **Has** Feedback (1 — 1)
- Project **Has** Deliverable (1 — many)
- Team **Contains** User (1 — many)
- Task **Assigned to** User (1 — 1)
- User **Sends** Message (1 — many)
- User **Receives** Message (1 — many)