

AutoMapper

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Kind: Service

Source: Pams/API/Pams.API/Pams.API.csproj (line 1)

Part of: Pams

NuGet package dependency

AutoMapper is a NuGet package dependency in the Pams.API project for mapping data between object types. It supports converting domain entities into API DTOs and mapping incoming request models into application models.

Diagram

```
sequenceDiagram
    participant Client
    participant API as Pams.API
    participant Mapper as AutoMapper
    participant Domain as Domain Model

    Client->>API: Send request DTO
    API->>Mapper: Map request DTO to domain model
    Mapper->>Domain: Create mapped model
    Domain-->>API: Return domain result
    API->>Mapper: Map domain result to response DTO
    Mapper-->>API: Return response DTO
    API-->>Client: Send API response
```

Usage

```
type CreatePatientRequest = {
    name: string;
};

async function createPatient(request: CreatePatientRequest) {
```

```
const response = await fetch("/api/patients", {
  method: "POST",
  headers: {
    "Content-Type": "application/json",
  },
  body: JSON.stringify(request),
});

if (!response.ok) {
  throw new Error("Patient request failed");
}

return response.json();
}
```

AI Coding Instructions

- Define AutoMapper profiles in Pams.API or the application layer where source and destination models are known.
- Map API request and response DTOs instead of exposing domain entities directly from controllers.
- Register AutoMapper profiles with dependency injection during API startup.
- Keep mapping rules explicit when property names or value types differ between models.
- Add tests for mappings that include nested objects, renamed properties, or custom conversions.