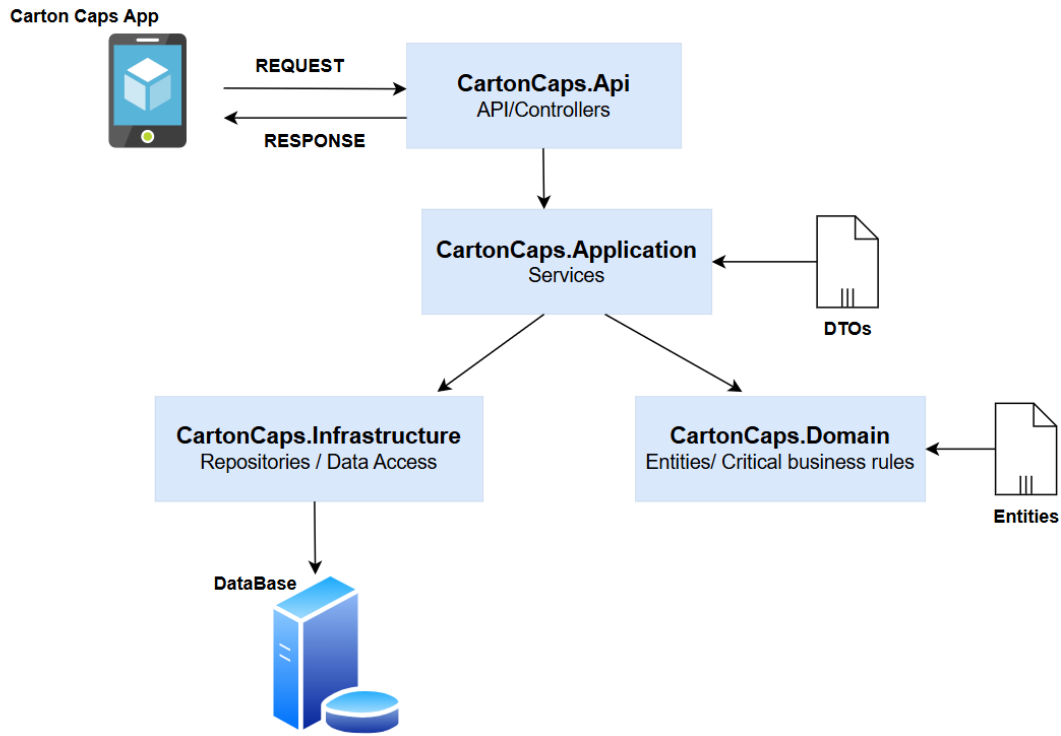


Architecture



Details:

- Client: Sends HTTP requests to the API.
- **CartonCaps.Api:** Controller (API):
 - Exposes the endpoints to the client.
 - Receives the request and its parameters.
 - Delegates business operations to the Application layer (no business logic is placed in controllers)
 - Returns standardized responses (success, errors, status codes).
- **CartonCaps.Application:**
 - Contains the service Layer.
 - Coordinates operations between Domain (entities and rules) and Infrastructure (data persistence)
 - Does not handle database responsibility, delegates to repositories.
 - Uses DTOs to communicate with controllers.
 - Maps DTOs ↔ Entities using AutoMapper (or manual mapping when appropriate).

➤ **CartonCaps.Domain:**

- Defines the core business Entities.
- Ensures the integrity of the business model.
- Applies critical business rules.

➤ **CartonCaps.Infrastructure:**

- Centralizes data access responsibility.
- Contains Repositories that interact with the database using Entity Framework (or in this case mock data).
- Only works with Data Models, and Receives Entities, never with DTOs