(lean Architecture

Architectural Patterns

A general, reusable solution to a Commonly

Ocurring problem in software architecture given

within a given context

Tier 1 Presentation

Tier 2 Business Logic

Tier 3 Data Access Layer

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Clear Architecture Presentation Infrastructure 7 DB

Application

Domain

The Presentation Layer

Gym Management · Contracts Gymmanagement · API

Requests / Responses Controllers

The Application hayer

- Execution the application's use cases

- Fetch domain objects

- Manipulate domain objects

Generally a bunch of Services

CORS Pattern - Split Reads from Writes

Commands - Change States ie Crease Subscription

Guerics - healt States ie Get Subscription

Gyms Write Service

Gyms Pead Service

Mediater Pottern to reduce Coupling
Mediate nuget package

Add Mediate function with Dependency Injection

file allows for easy dependency injection

Do not throw exceptions for expected errors

Error Or Luser > Gesuser (Guid id = default)

if (12 == defau. +)

return terror. Volidoher ("Id is required");
return new Vear (None: "Blok");

error Or User. Smitch First (

VSER =7 (onsole. Write Line (User. neme)

Error =7 (onsole. Write Line (orror. Pescription))

Repositor - Illusia- of in memory dasa

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Allows us to have rollback in a Command Handler

Intrastructure Layer

Interactions with other services (was

(lients, messers bruters, etc)

Interactions with underlying mechine

(system clock, files, etc)

Identity Concerns

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Domais Driver Design

Break up complex designs into smaller chints

Domain Models contain properties + behavior

Anemic - expose data relies en externi co-prime

Rich - expose only specific set of methods

- private tields and properties

Domain Layer

Start here ideally - handle business losic

- Petining domain models

- Betining domain errors

- Executing Business Logic

- Knforcing Business Rules

Domain Layer Errors

Requested action violetes a business rule, Unexpressed manipulation or domain objects.

Application Layer Errors

Domain Objects Connot be ford, Usen is unauthorized Involid data, Convert DLE and PLE errors to PLE

Presentation Layer Errors

Request Data is smalled, action abosit exist usen not Authenticated, Convert DLE/ALE errors to PLES