Getting Started With MVC

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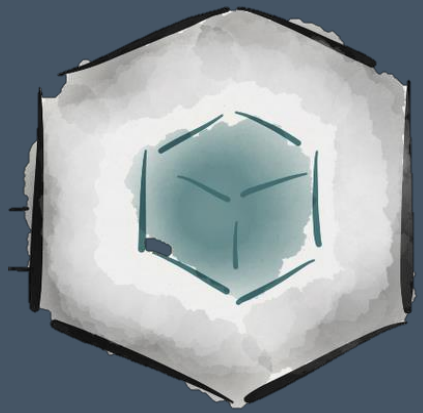
What is MVC?

MODEL

VIEW

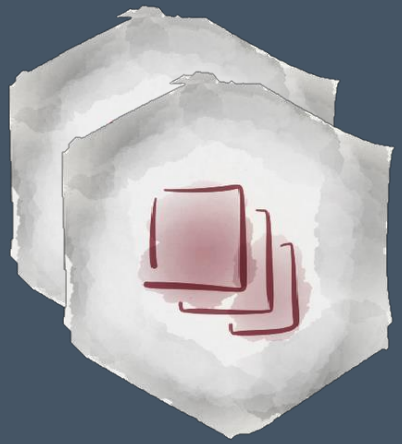


CONTROLLER

Software architecture pattern which separates the model, the user interface and the control of logic into three distinct components

MVC

What does that actually mean?



Many Views

One model

Many Controllers

MVC

Model

Representation of domain data.

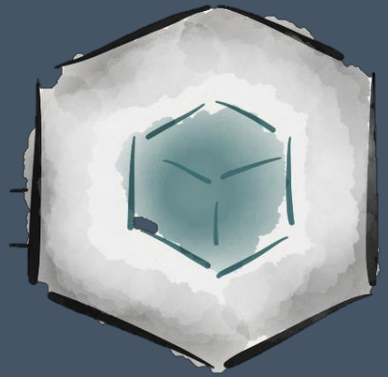
Business logic

Persistence mechanism

View

User Interface

Interaction elements



Controller

Intermediary between Model and View It maps user actions - model actions Select the view and provide information to itself

MVC

Model

C# Model of a Table

UserModel

ID : int
Name : string
Surname : string
BirthDate : datetime

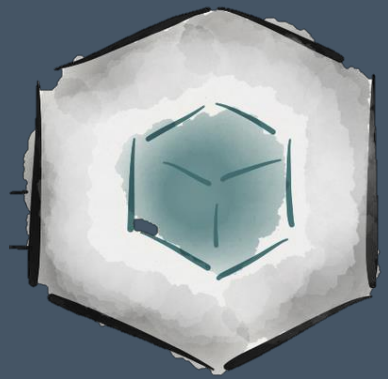
MVC

View

HTML + Razor (with CSS and JS)

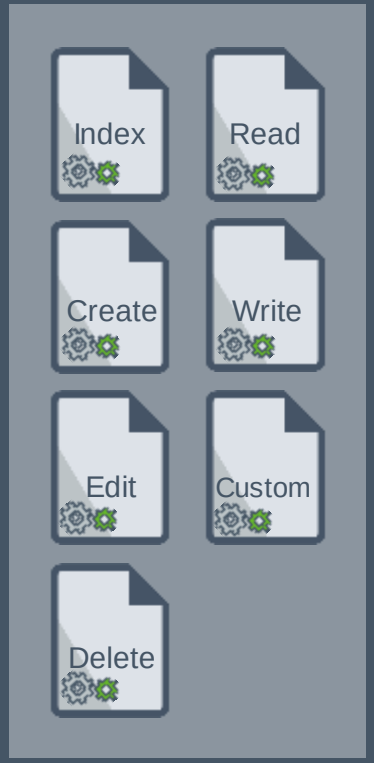
User Interface

MVC

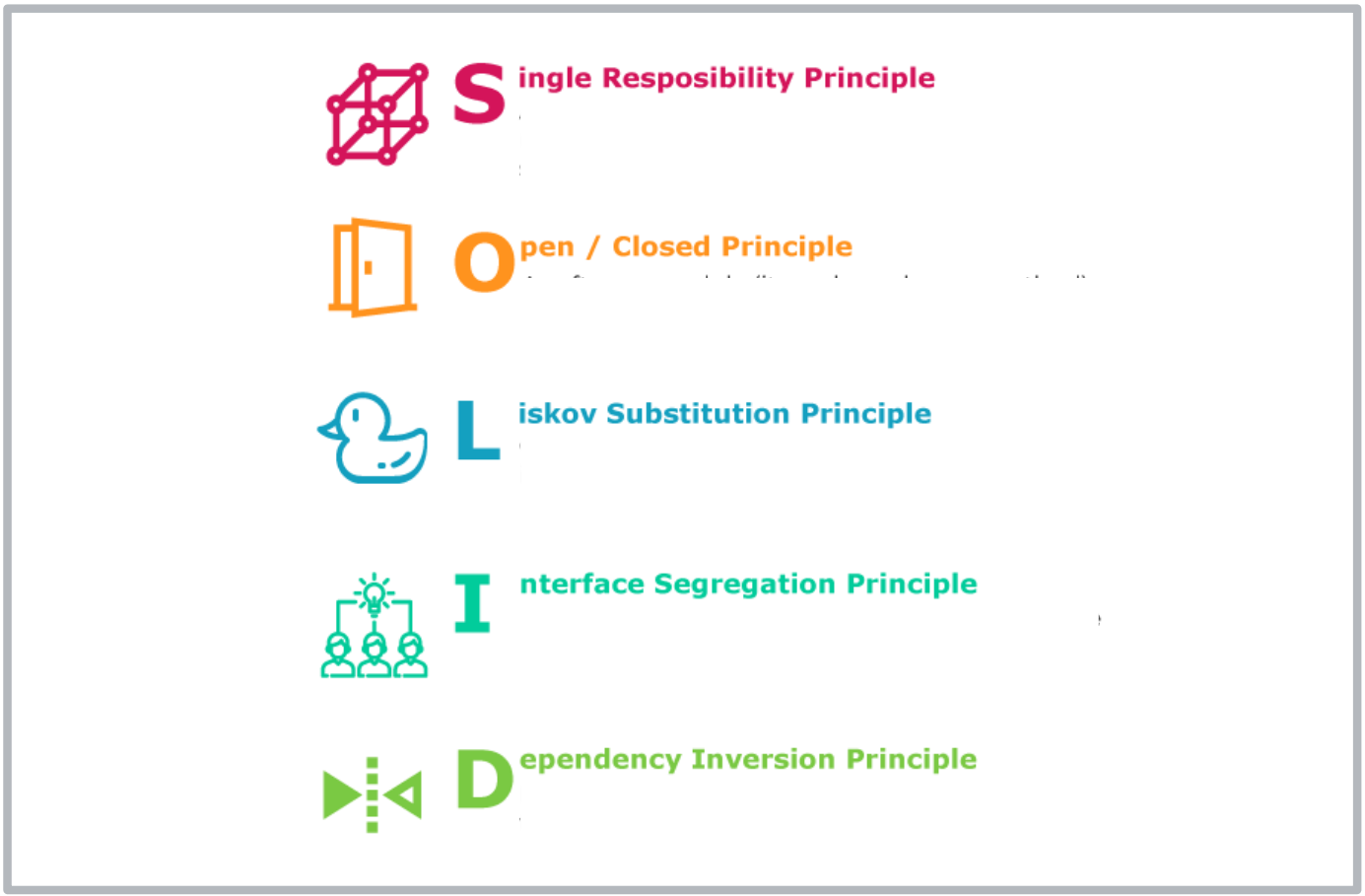


Controller

C# Logic Controller



SOLID Principles

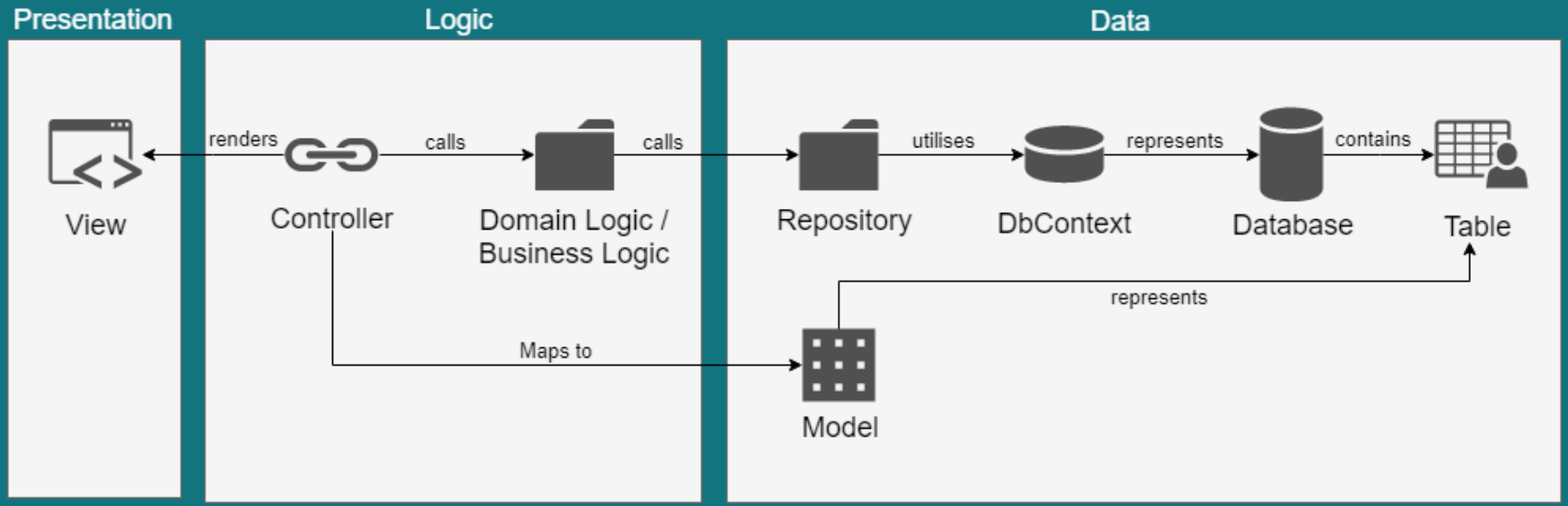


Design Patterns

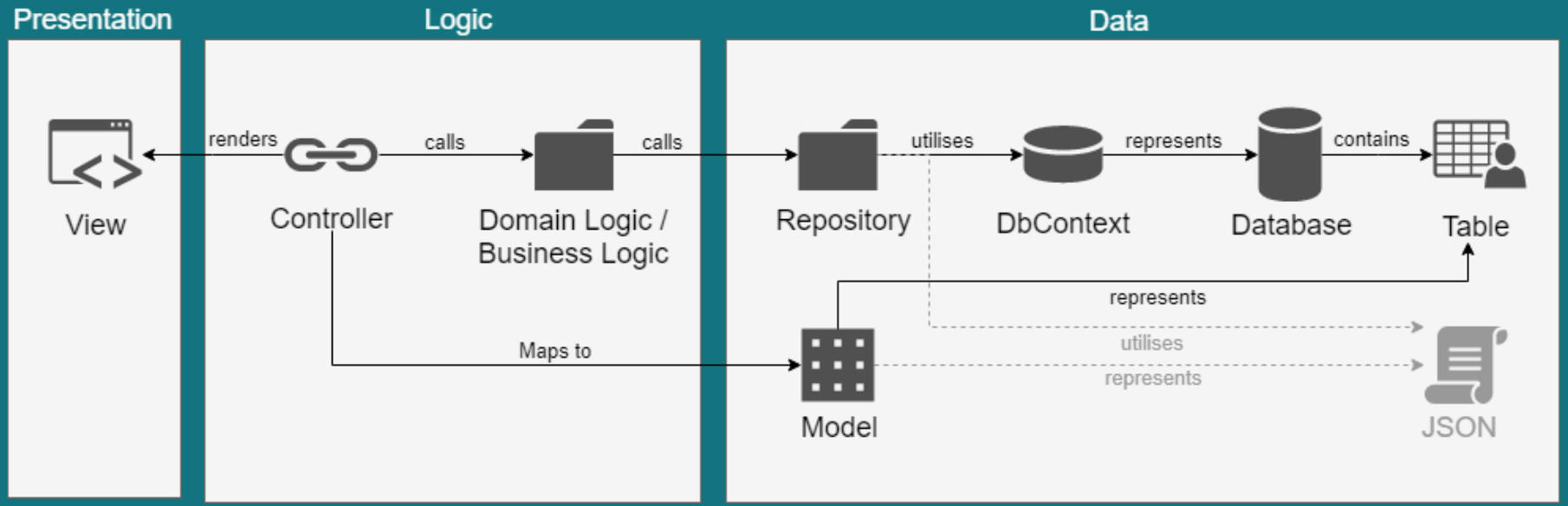
Types of Design Patterns:

- Factory Pattern
- **Singleton Pattern**
- Builder Pattern
- Prototype Pattern
- Adapter Pattern
- Filter Pattern
- Composite Pattern
- Decorator Pattern
- Facade Pattern
- Flyweight Pattern
- Proxy Pattern
- Chain of Responsibility Pattern
- Command Pattern
- Interpreter Pattern
- Iterator Pattern
- Mediator Pattern
- Observer Pattern
- **Repository Pattern**

Repository Pattern



Repository Pattern



What is

LINQ

LINQ (Language Integrated Query) is uniform query syntax in C# and VB.NET to retrieve data from different sources and formats.

What is

ASYNC

Short for asynchronous programming, it refers to the occurrence of events independent of the main program flow.

What is

RAZOR

Razor is an ASP.NET markup syntax used to create dynamic web pages with the C# or VB.NET programming languages.

Other Concepts

What is

EF

Entity Framework is an object-relational mapper (O/RM) that enables .NET developers to work with a database using .NET objects. It eliminates the need for most of the data-access code that developers usually need to write.

That’s All Folks!

Thank you

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