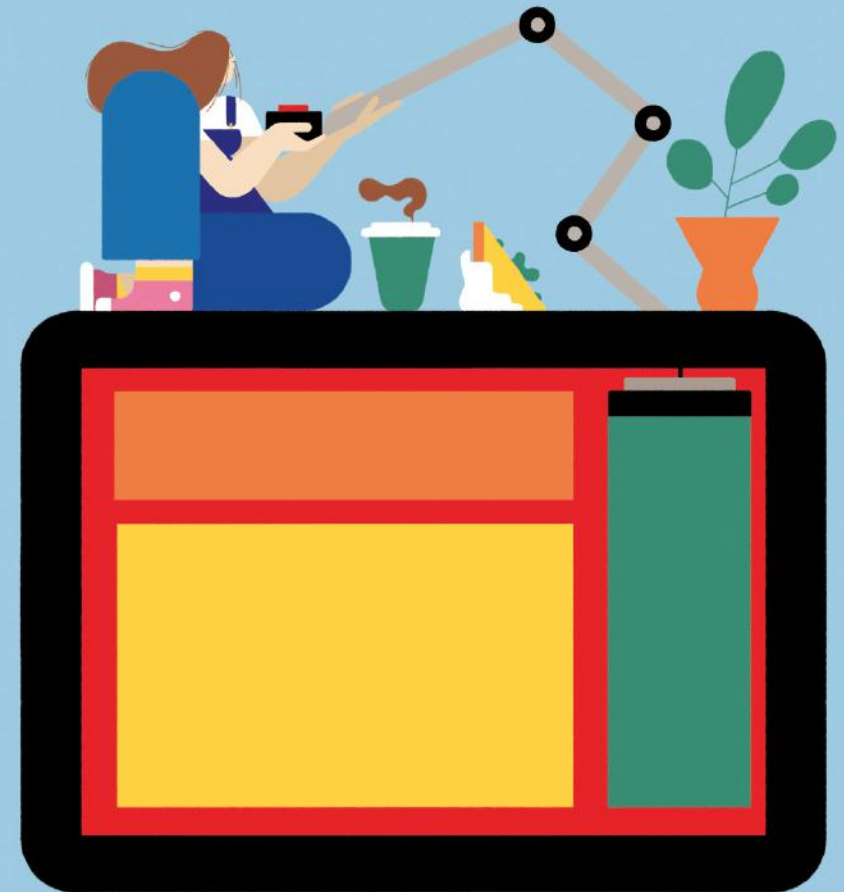
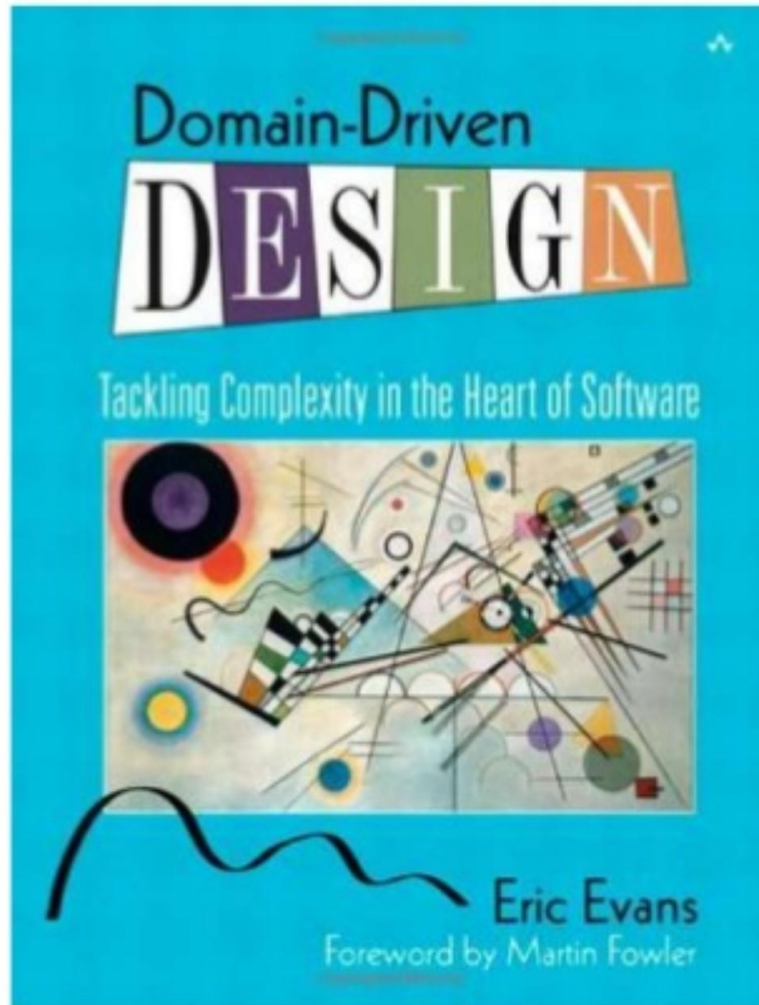


Web Development Hexagonal Architecture



Domain Driven Design

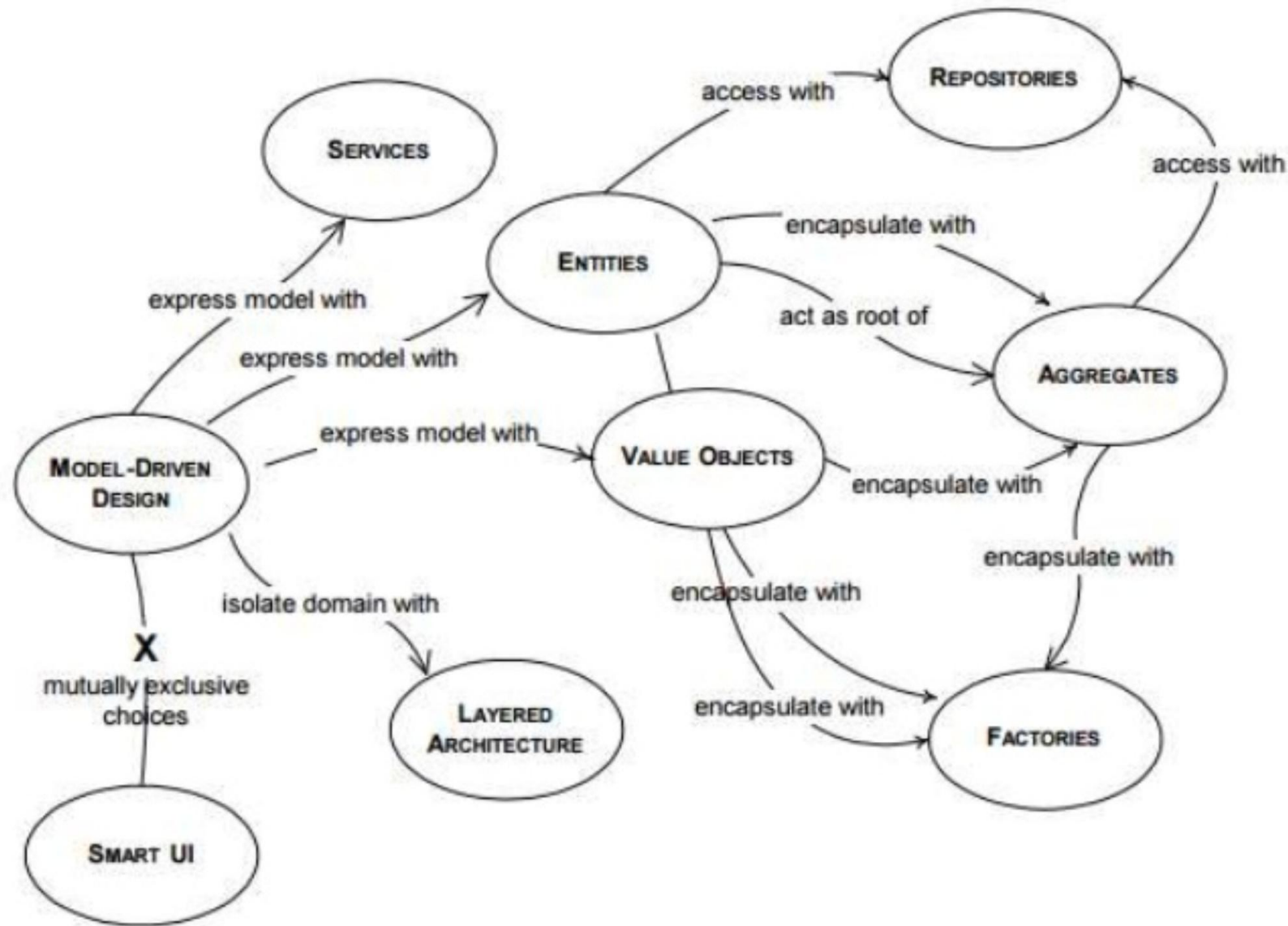


Expectations

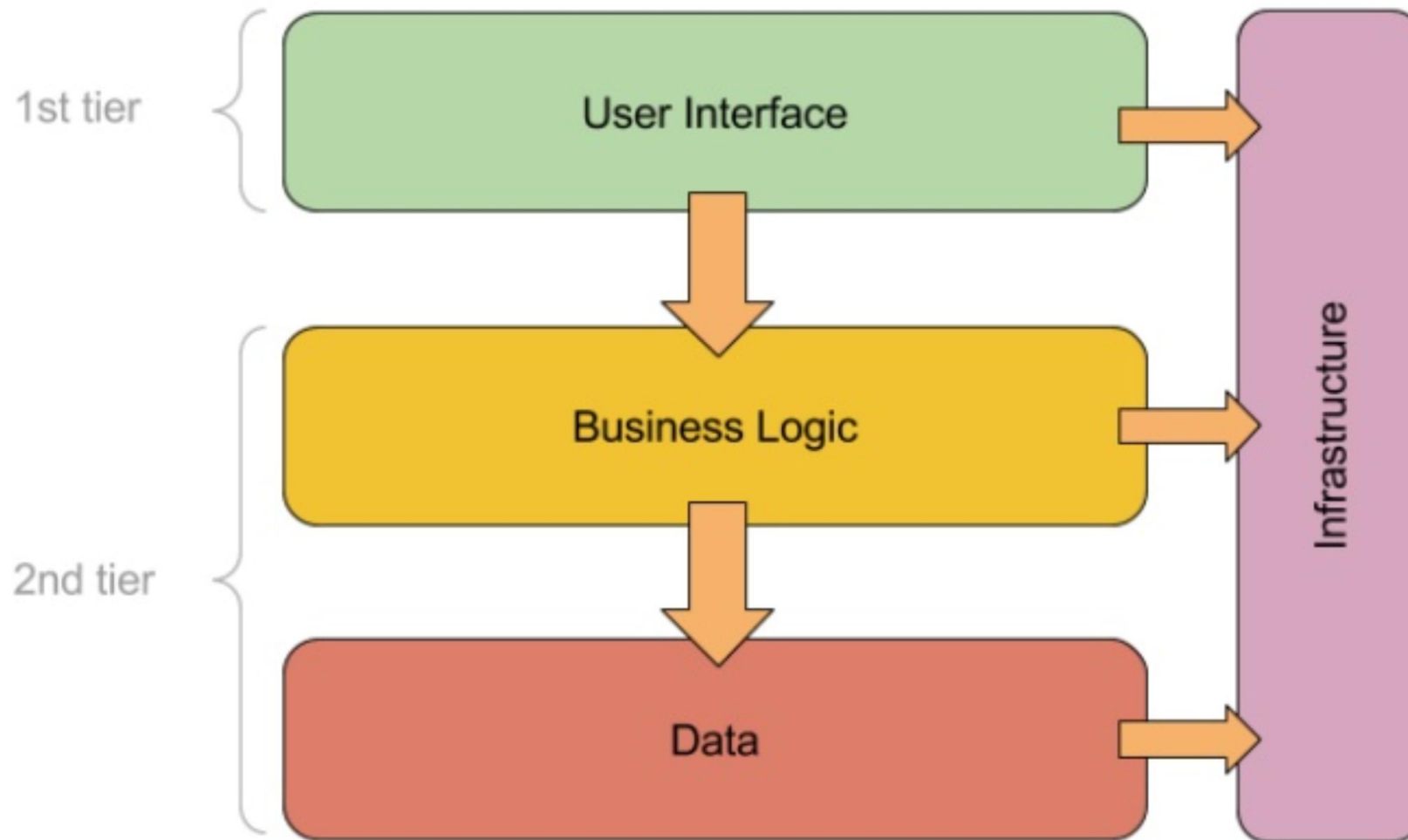
Reality



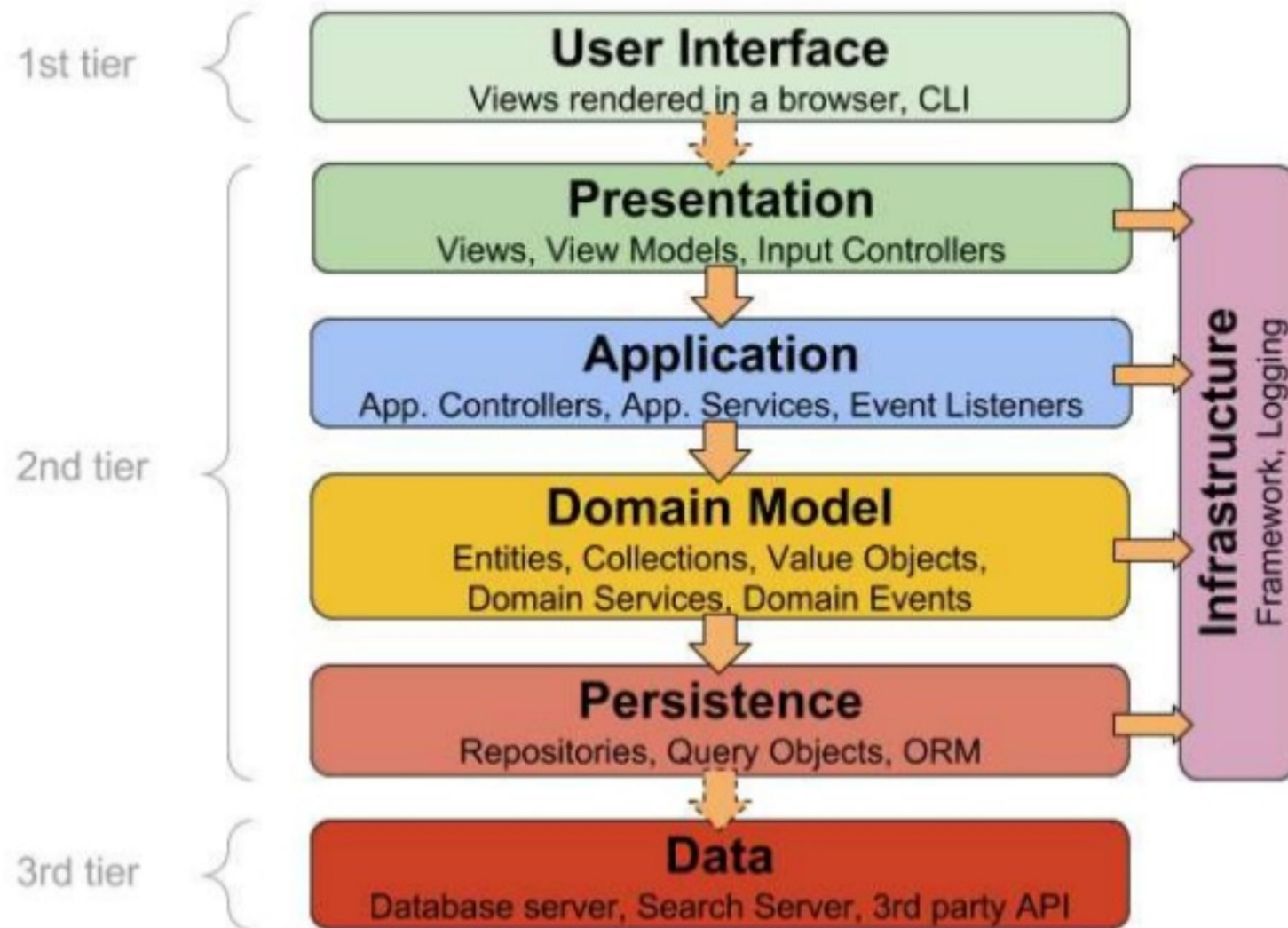
Everything is simple!



Layered architecture for kids



More serious view



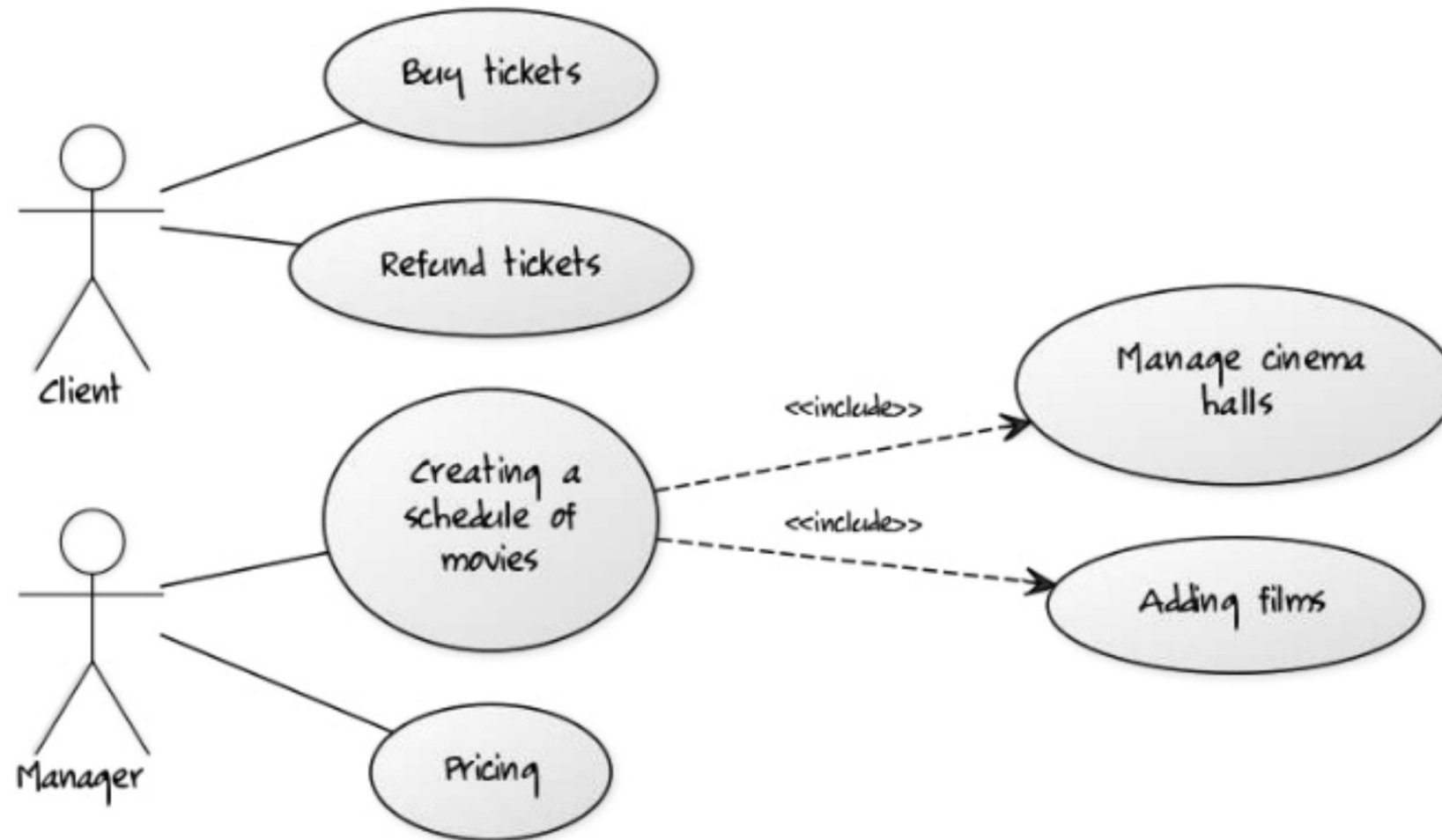
Help Dasha to find business logic

Clip slide

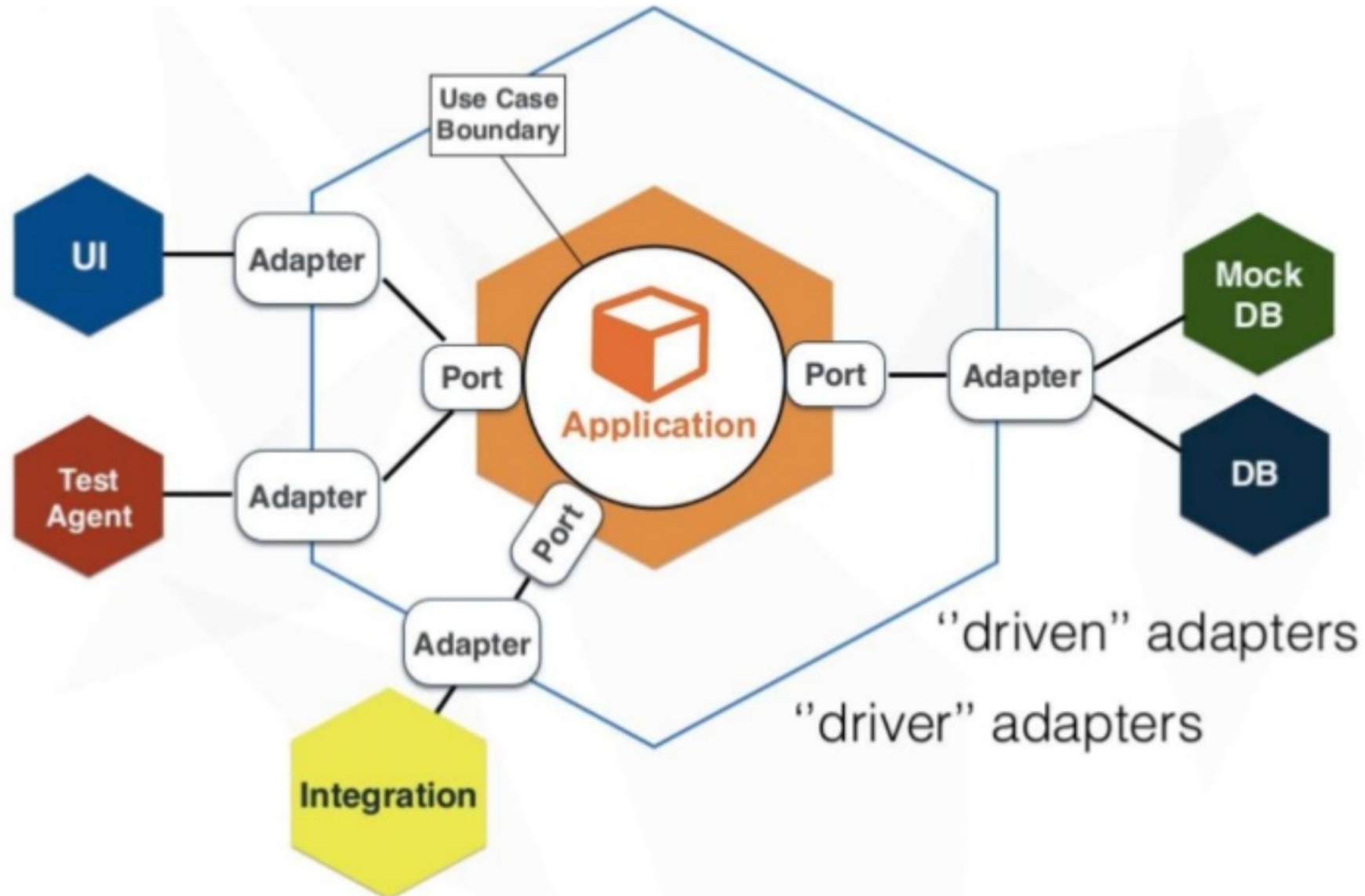


Everything should be Use Case driven

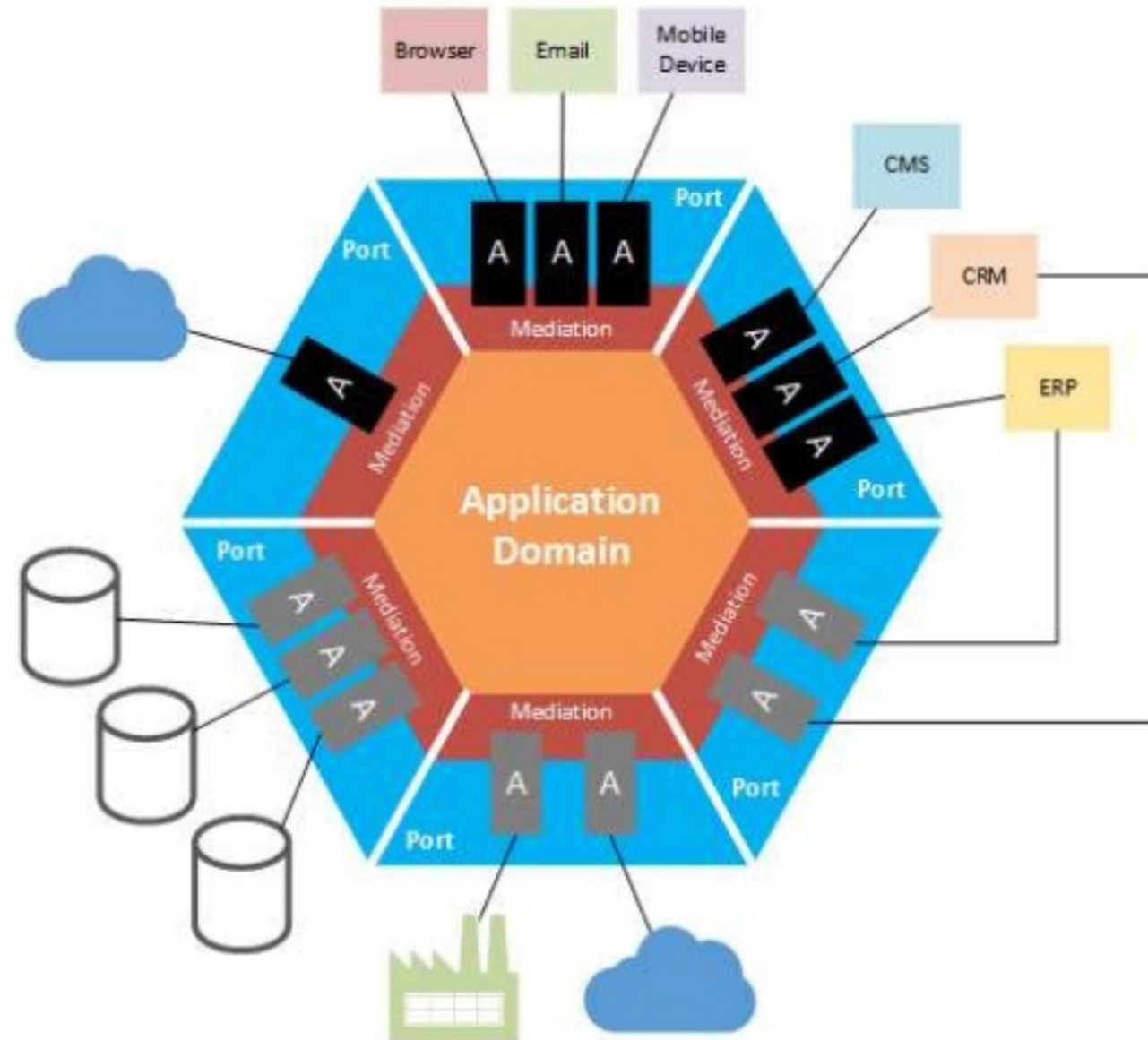
Clip slide

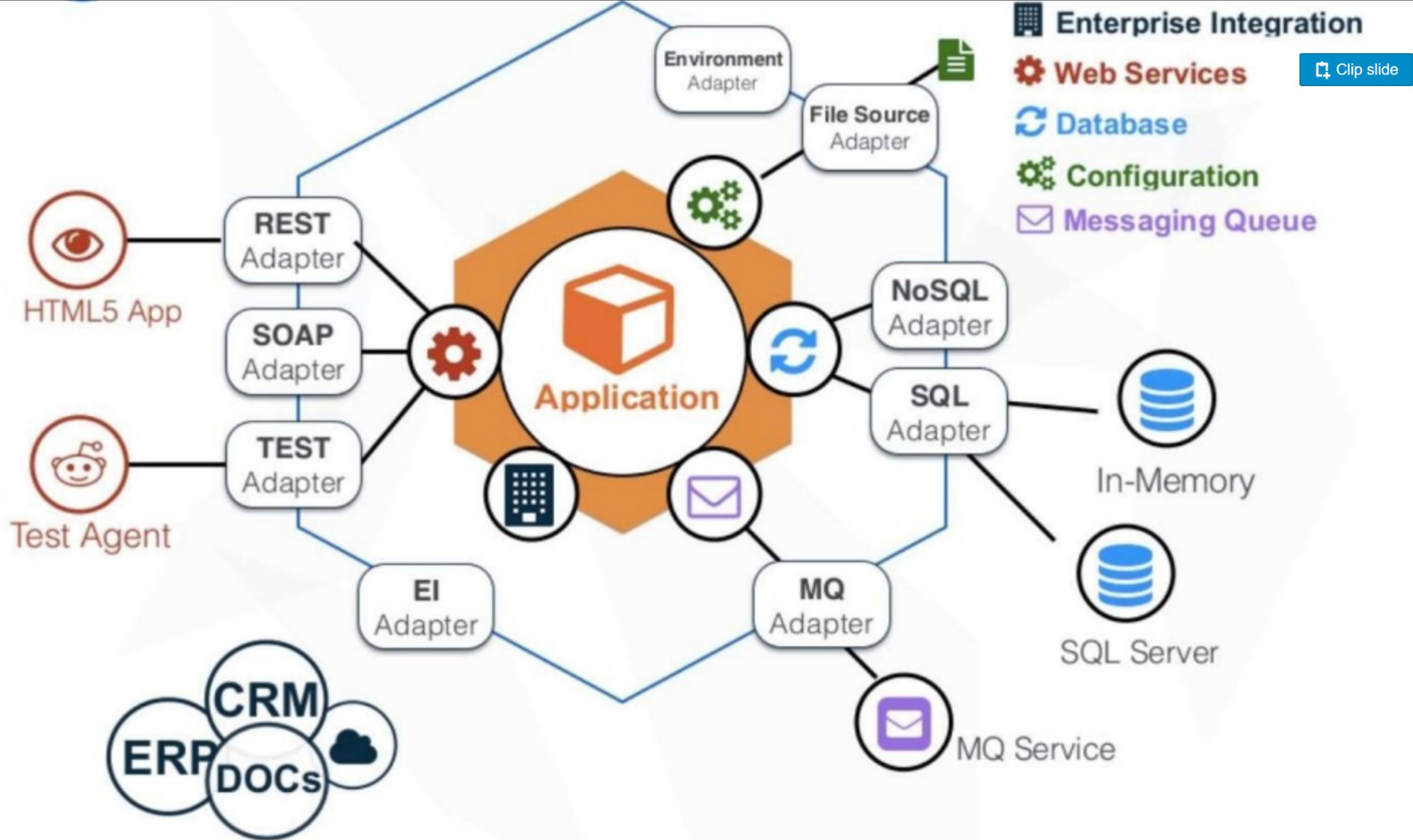


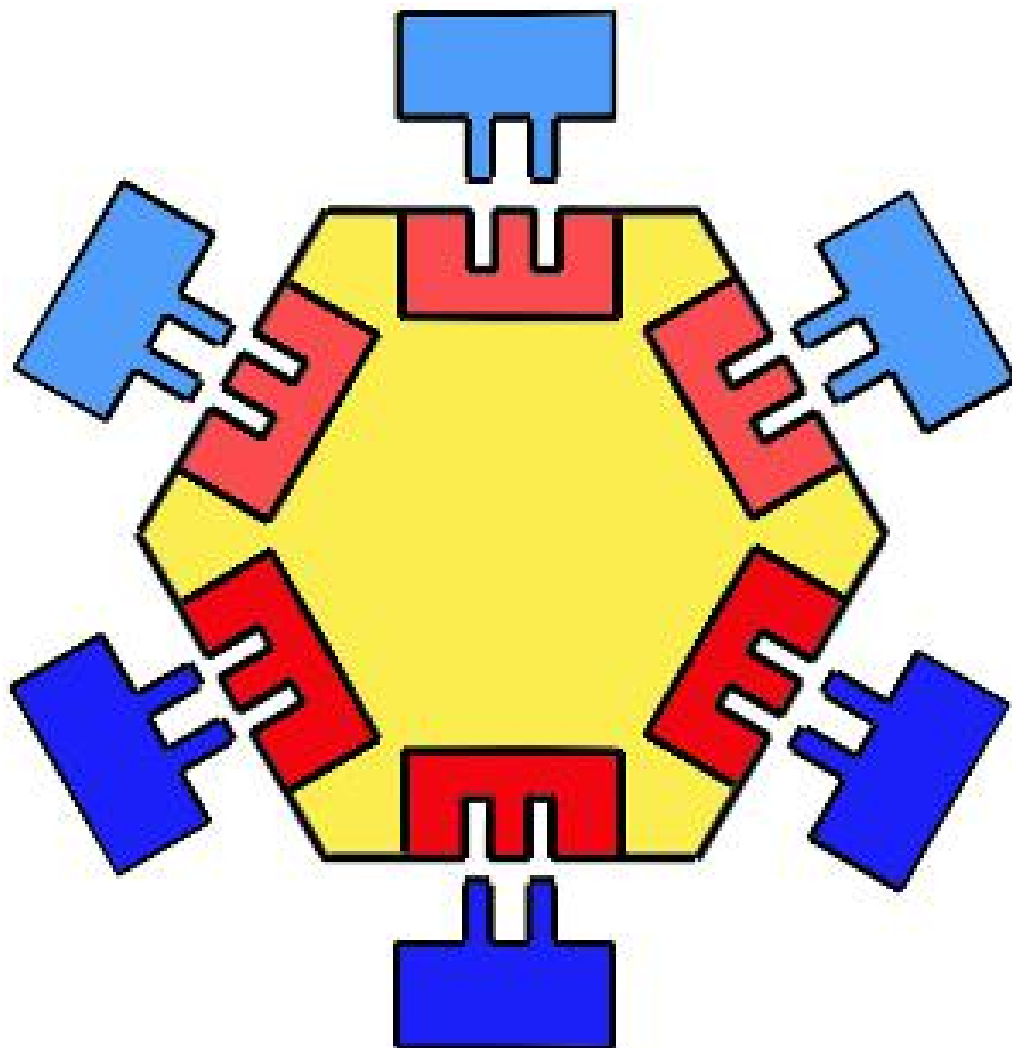
Alternative world



Ports and adapters thinking







yellow: core logic
light red: primary ports
light blue: primary adapters
dark red: secondary ports
dark blue: secondary adapters

A **port** is an entry point, provided by the core logic. It defines a set of functions.

Primary ports are the main API of the application. They are called by the primary adapters that form the user side of the application. Examples of primary ports are functions that allow you to change objects, attributes, and relations in the core logic.

Secondary ports are the interfaces for the secondary adapters. They are called by the core logic. An example of a secondary port is an interface to store single objects. This interface simply specifies that an object be created, retrieved, updated, and deleted. It tells you nothing about the way the object is stored.

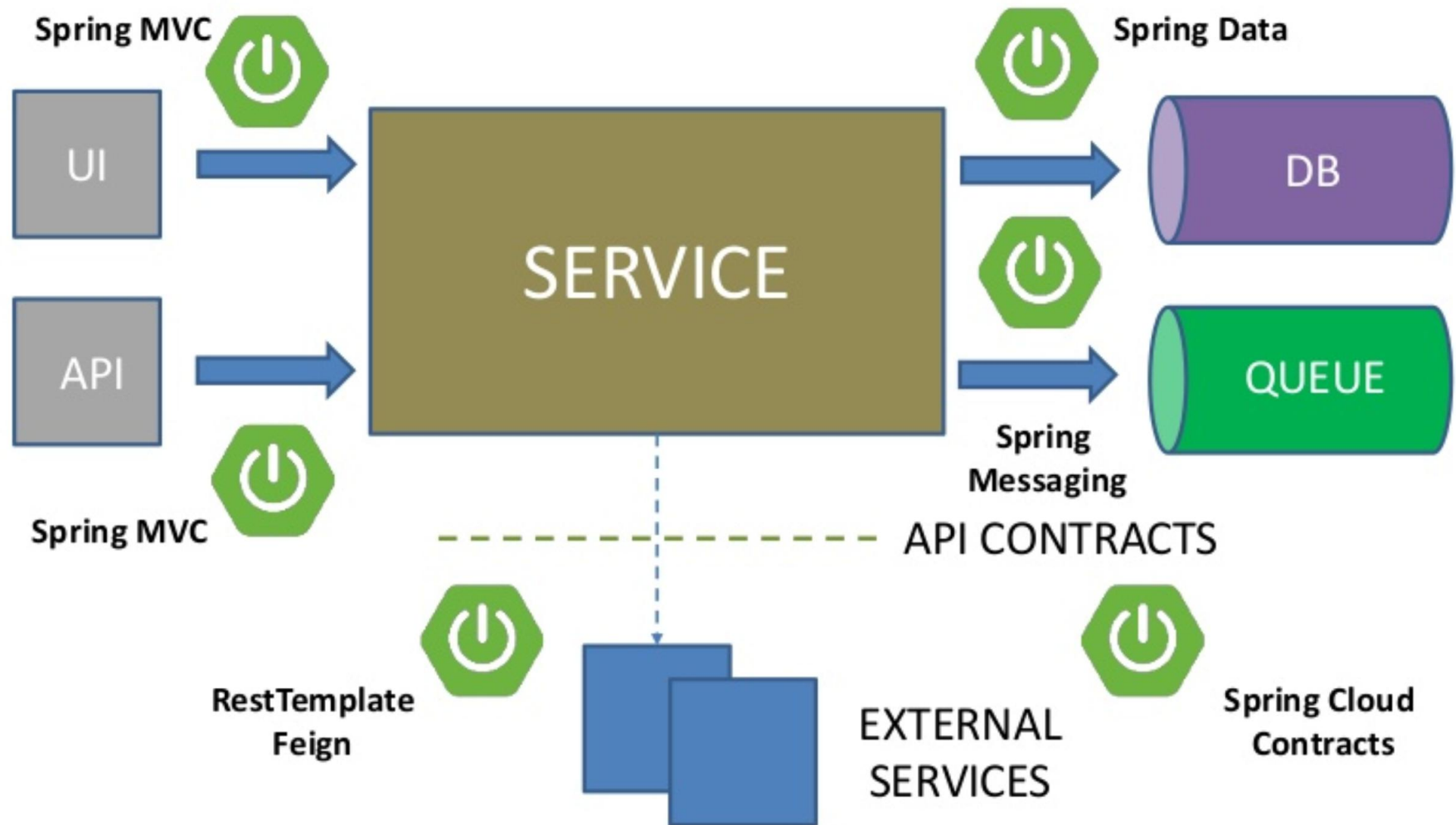
An **adapter** is a bridge between the application and the service that is needed by the application. It fits a specific port.

A **primary adapter** is a piece of code between the user and the core logic. One adapter could be a unit test function for the core logic. Another could be a controller-like function that interacts both with the graphical user interface and the core logic. The primary adapter calls the API functions of the core logic.

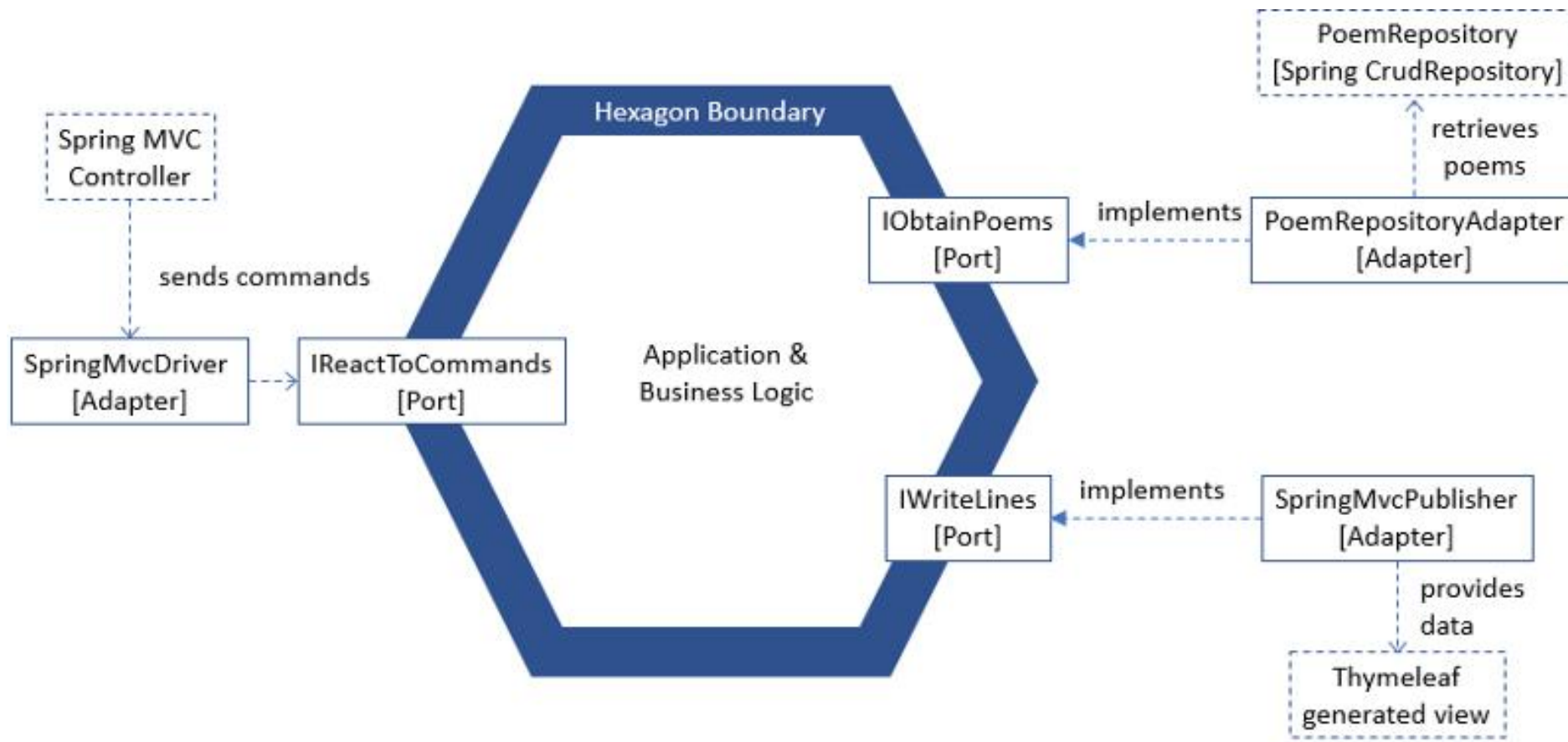
A **secondary adapter** is an implementation of the secondary port (which is an interface). For instance, it can be a small class that converts application storage requests to a given database, and return the results of the database in a format requested by the secondary port. It can also be a mock database object needed to unit tests certain parts of the core logic. The core logic calls the functions of the secondary adapter.

Each service has similar structure

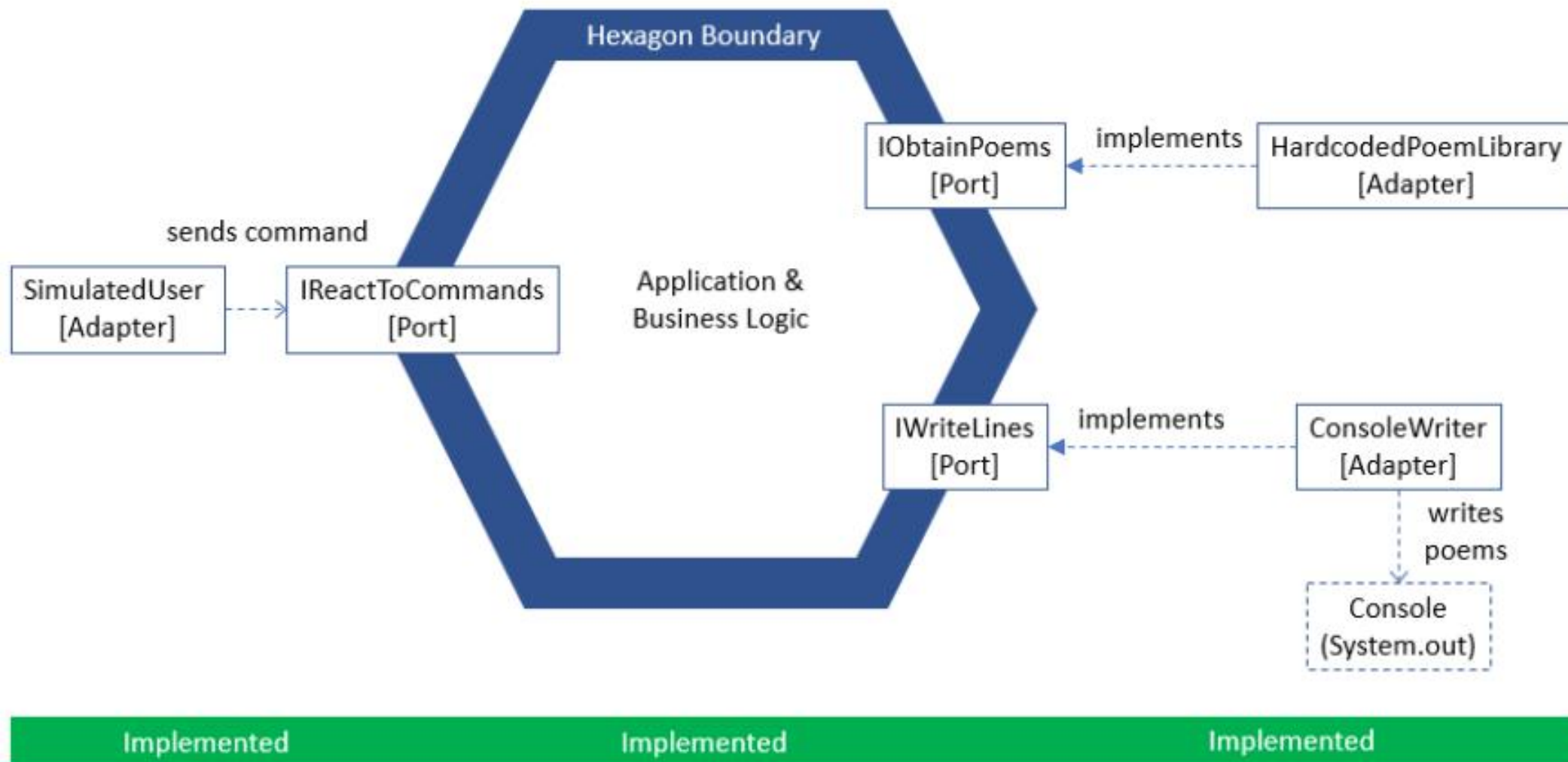
Clip slide

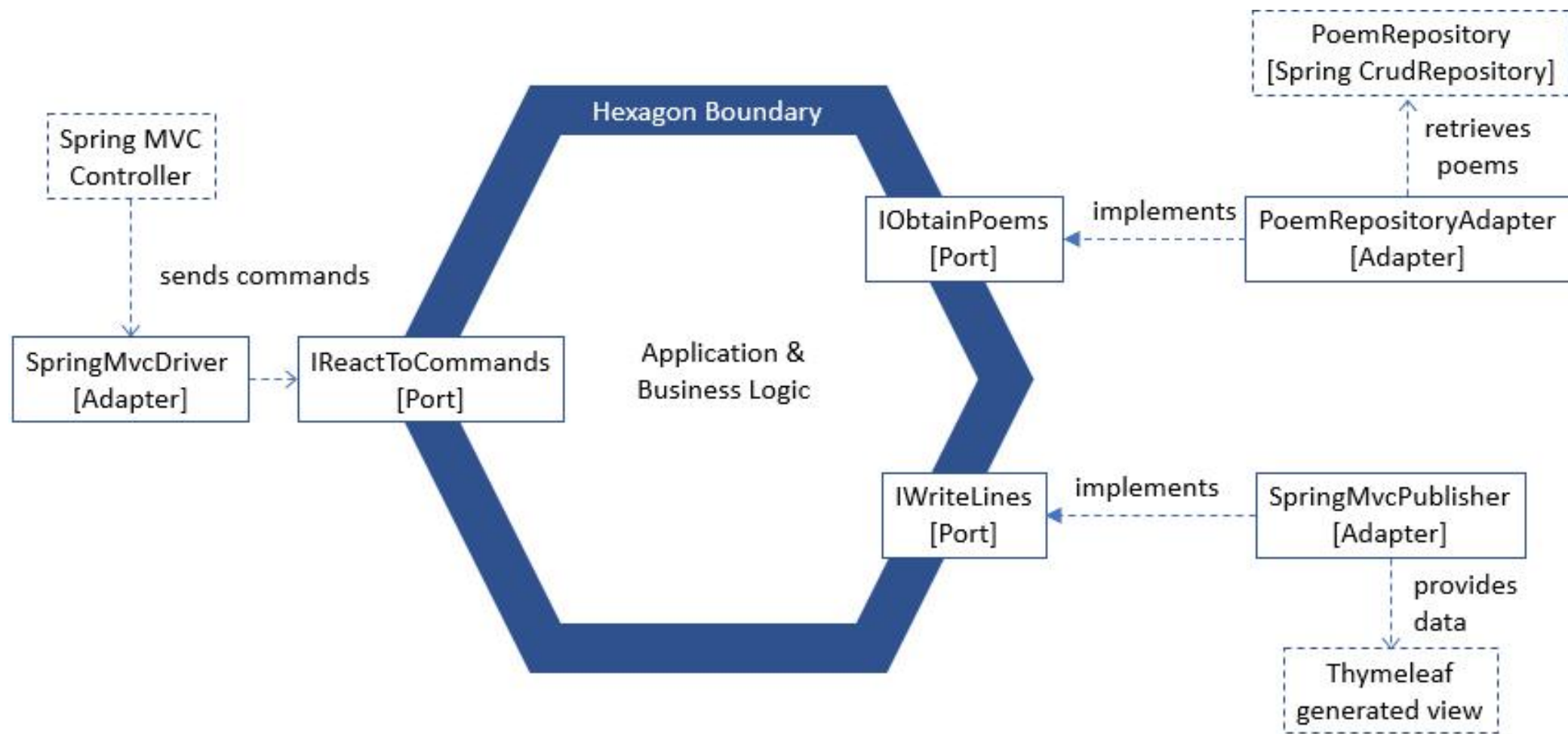


Example



Extracted from: <https://www.freecodecamp.org/news/implementing-a-hexagonal-architecture/>
Code: <https://github.com/bertilmuth/poem-hexagon>





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www.bit.es

Barcelona

C/Almogàvers 123
08018 Barcelona
T +34 933 041 720
info@bit.es

Madrid

Plaza Carlos Trías Bertrán 7
Edificio Sollube 1ª Planta
28020 Madrid
T +34 914 427 703
info@bit.es

Bilbao

C/ San Vicente 8
Edificio Albia I, 6ª Planta
48001 Bilbao
T +34 944 354 982
info@bit.es