Since past few years, there is new way of developing software applications using MicroServices Architecture.

So, what is that OLD software architecture we used before MicroServices?

And, what are the disadvantages of it that lead to shift our focus to MicroServices?

Monolithic Architecture

Concept

Objectives

1. What is a monolithic?

2. What is a monolithic architecture?

3. Advantages & Disadvantages

4. The major challenge

monolithic
mɒnəˈlɪθɪk/Submit
adjective

1. formed of a single large block of stone.
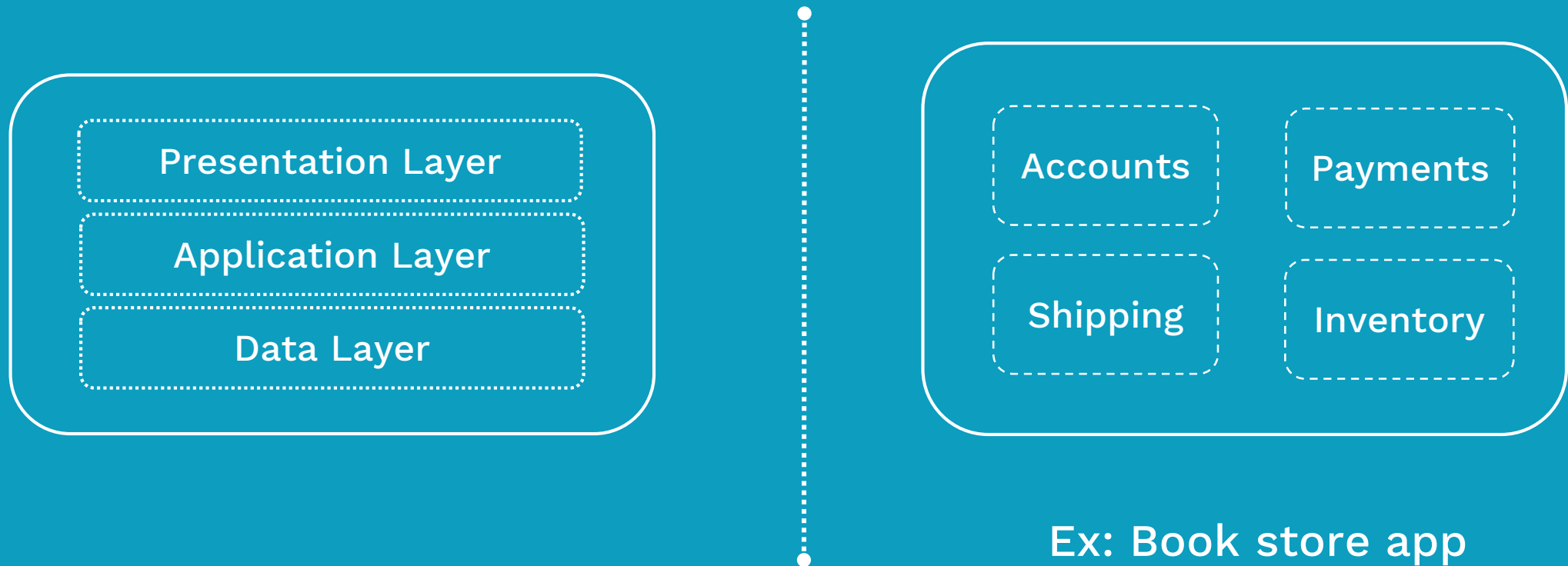"later Byzantine columns were monolithic and usually made of marble"

2. (of an organization or system) large, powerful, indivisible, and slow to change.
"rejecting any move towards a monolithic European superstate"
synonyms: inflexible, rigid, unbending, unchanging, intractable, immovable, impenetrable, fossilized, hidebound; More

Monolithic Architecture - Overview

- Self contained - packaged & deployed as single unit

- Three tiered application architecture

| Presentation Layer |
| Application Layer |
| Data Layer |

| Accounts | Payments |
| Shipping | Inventory |

Ex: Book store app

Advantages

- Single unit of deployment

- IDE Support

Disadvantages

- Often very large

- Technology dependency on initial decision

- Implemented using single development stack

- Frequent deployments are not practical.

- Need to scale entire application stack

The Big Problem

Internet

Scalability & Flexibility ⬇

Summary

1. What is a monolithic?

2. What is a monolithic architecture?

3. Advantages & Disadvantages

4. The major challenge

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Coming up...

MicroServices