



Web Engineering (Part 1)

What, Why, The Process, Arch.

Dr. Omar Hammad



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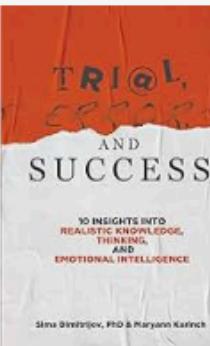
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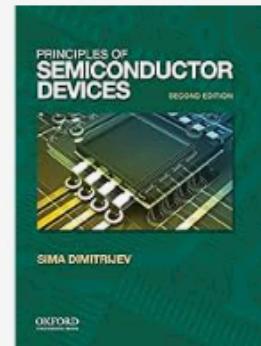
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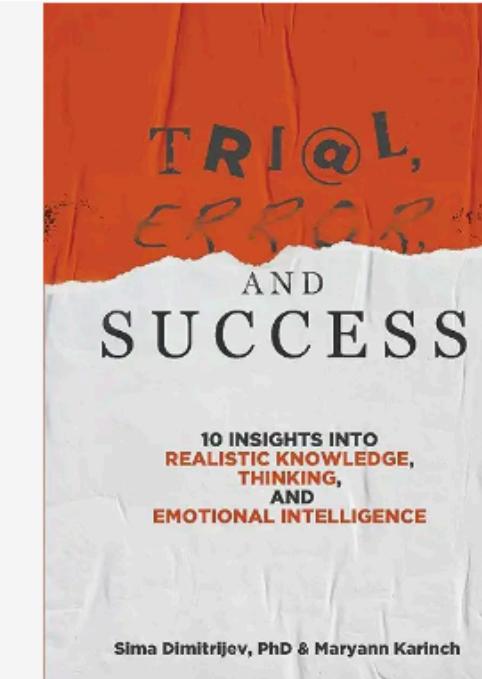
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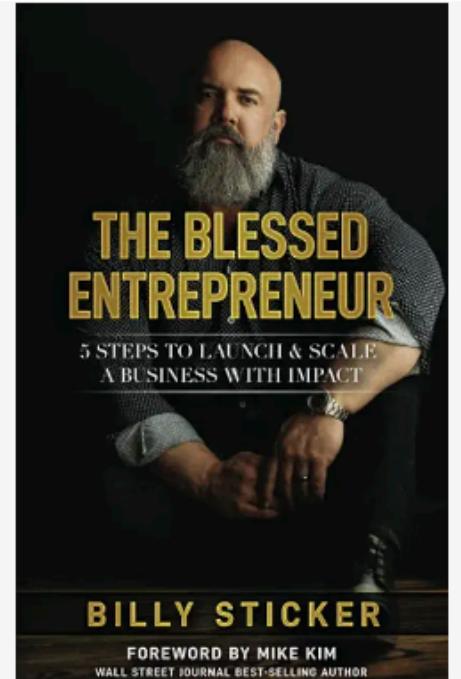
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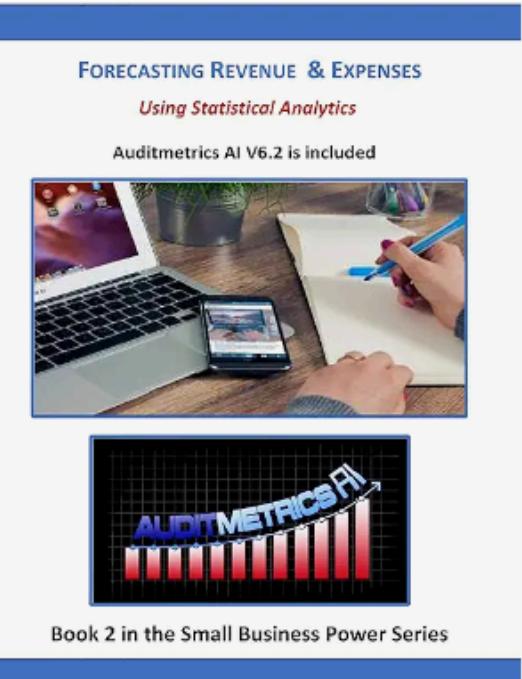
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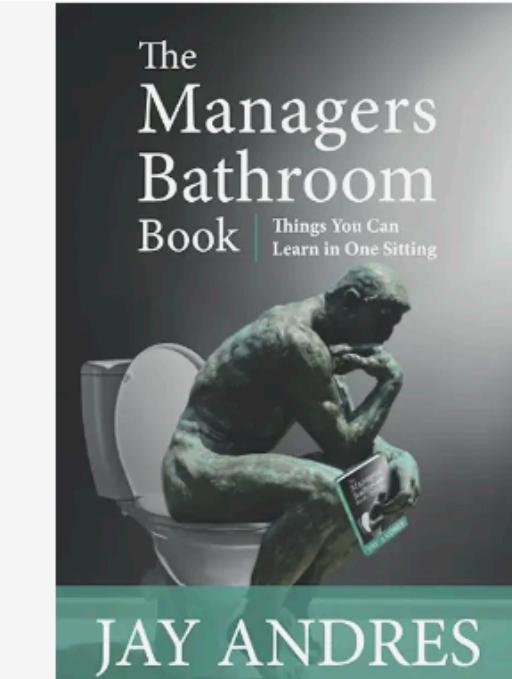
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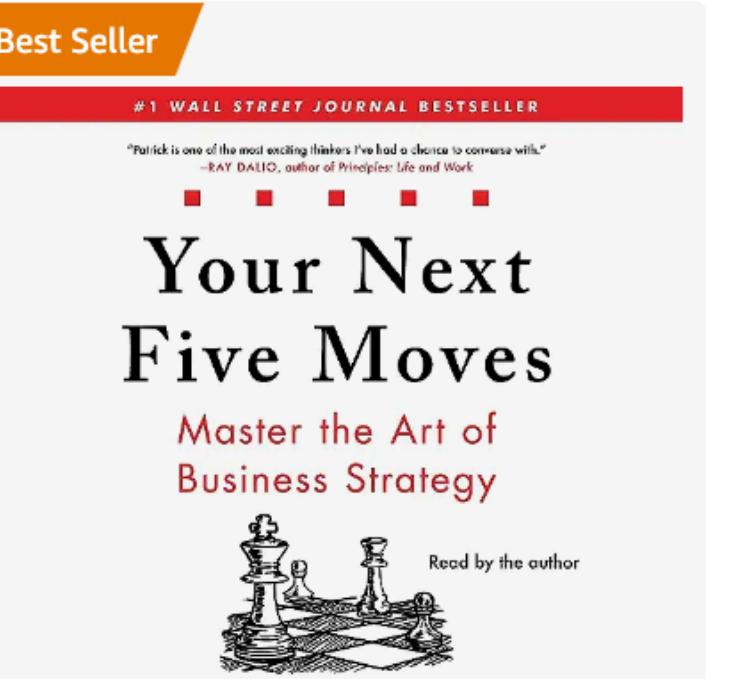
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⚡ GPT-3.5

🌟 GPT-4

ChatGPT PLUS

Create a workout plan
for resistance training

Recommend activities
for a team-building day with remote employees

Explain this code:
"cat config.yaml | awk NF"

Compare design principles
for mobile apps and desktop software

Send a message



ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT September 25 Version](#)



Discussion

What are the attributes of
Web Applications?

Network intensiveness

Concurrency

Diversity

Unpredictable load

Performance

Data driven

Content sensitive

Continuous evolution

Immediacy

Availability

Security

Aesthetics

Integration

Web Engineering

>> High-Quality Web Applications

Scrum Kanban XP Lean WebE ...

Agile Processes

Scrum

Kanban

XP

Lean

WebE ...



agile

/'adʒəl/

adjective

1. able to move quickly and easily.

"Ruth was remarkably agile and light on her feet"

Similar:

nimble

lithe

spry

supple

limber

sprightly

acrobatic



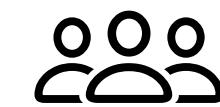
2. relating to or denoting a method of project management, used especially for software development, that is characterized by the division of tasks into short phases of work and frequent reassessment and adaptation of plans.

"agile methods replace high-level design with frequent redesign"

Agile is a mindset ..



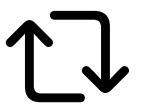
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satisfaction



Small
teams



Minimal
Documentation



Incremental
Delivery



Overall
Simplicity

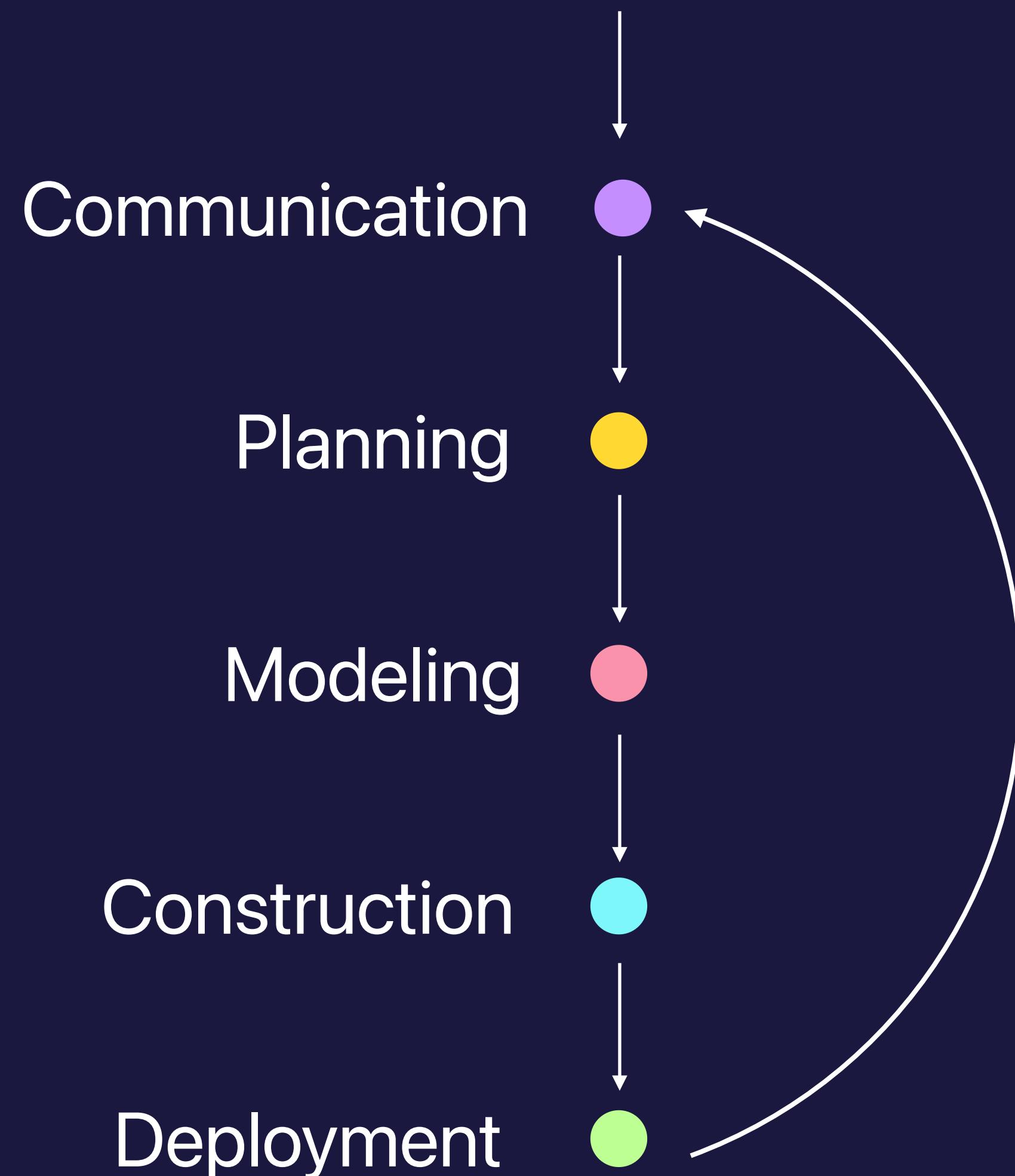


Discussion

Why go with agile?



**Change is
the only
constant**



The WebE Process

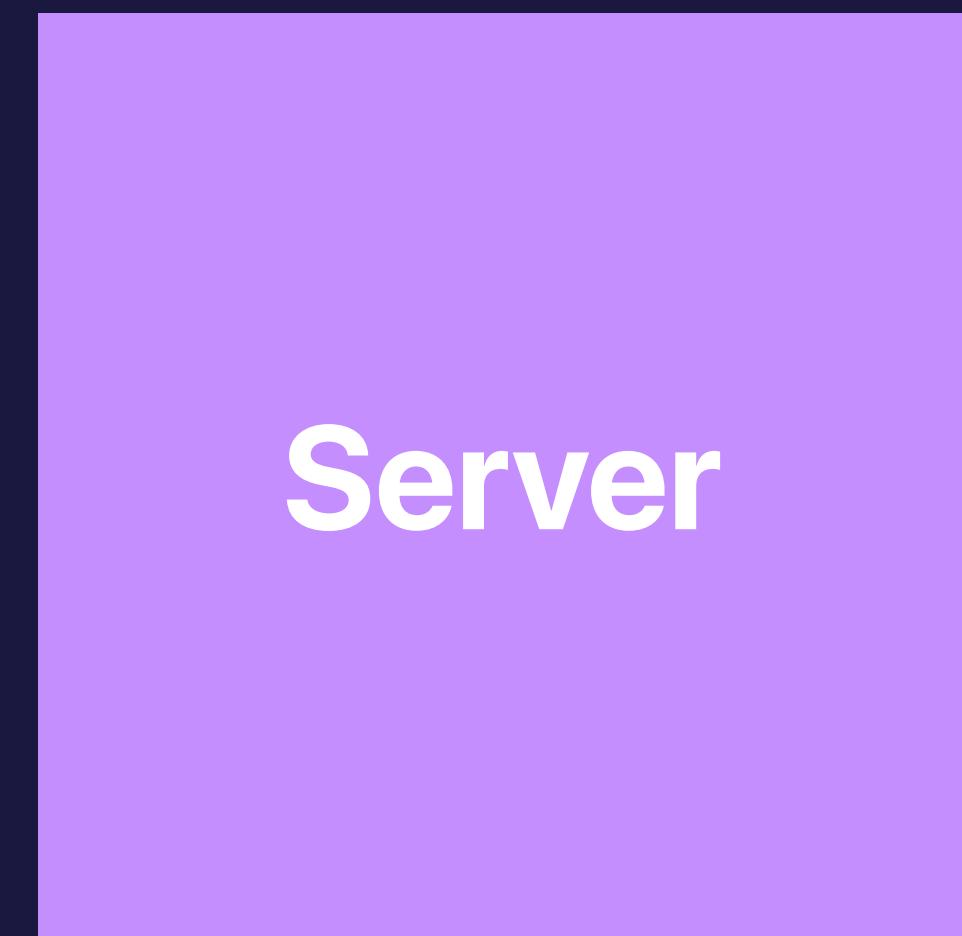
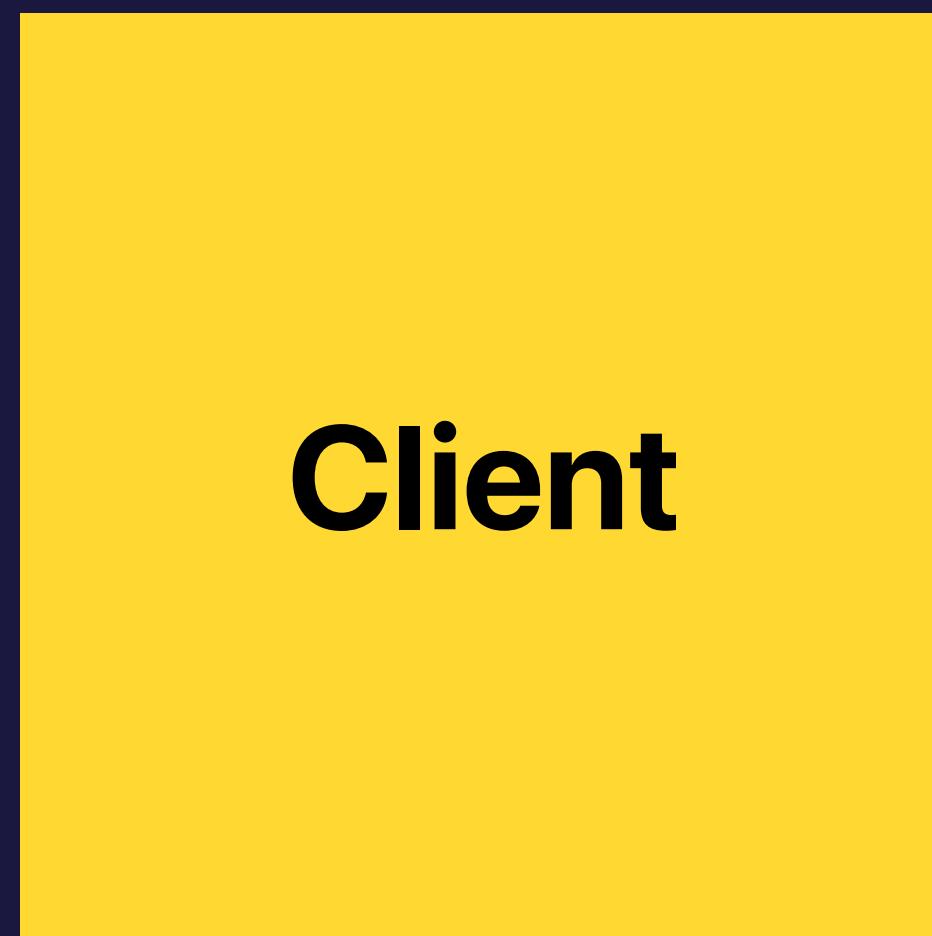
Roger Pressman,
David Lowe



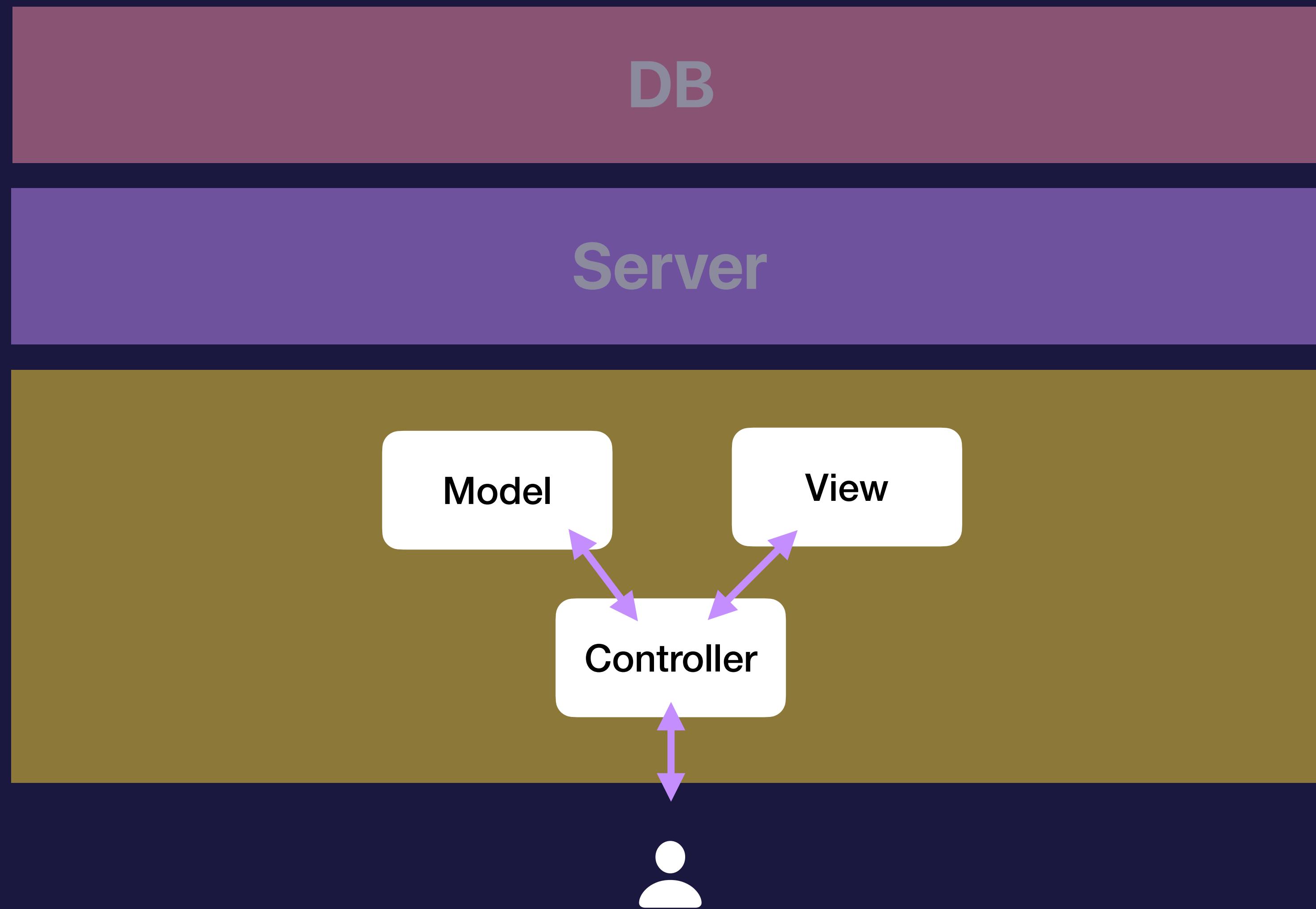
Discussion

What are the different components of a web application?

3-tier Architecture



MVC Architecture





Discussion

Why use MVC & 3-tier ?

Independence

Maintainability

Reusability

Faster Dev



Project Presentations!!!