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Does Software Engineering Principles Apply to Leadership?

How rising technical leaders have to adapt to new roles

What are Software Engineering Principles?

- Best Practices for how to design and code Software.

What is Leadership?

- "Capacity to translate vision into reality"
  ~ Warren Bennis

- "Art of getting someone else to do something you want done because he wants to do it."
  ~ Dwight D. Eisenhower

Do Good Habits in Programming
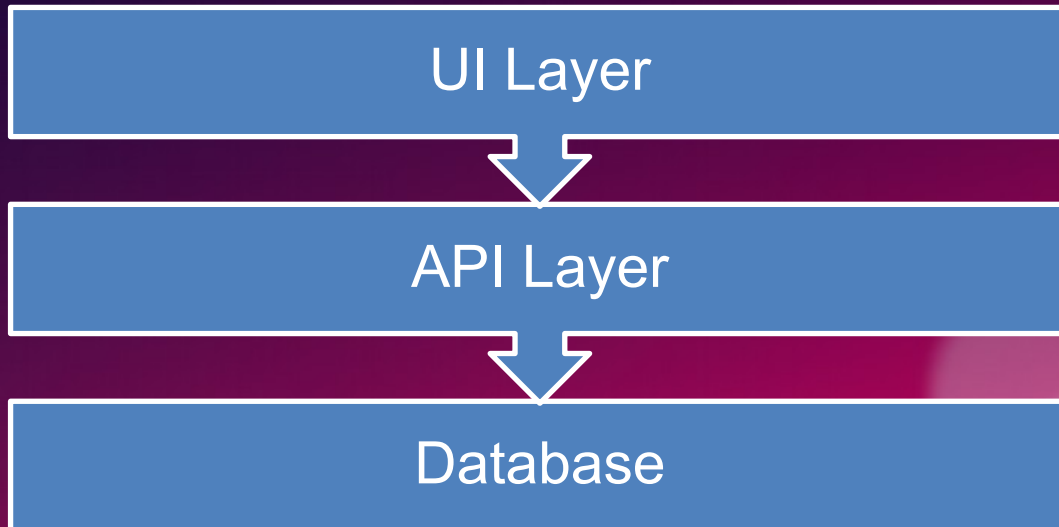
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Good Habits in Leadership?

DRY

- Don't Repeat Yourself

- Code should be reused, not copied

Separation of Concerns

- Code is segmented into discrete parts (layers, modules, projects, classes, etc.)

Single Responsibility Principle

- An area should have just one responsibility

https://www.amazon.com/Wenger-16999-Swiss-Knife-Giant/dp/B001DZTJRQ

Open-Closed Principle

- Software "should be open for extension, but closed for modification"

Image by Clker-Free-Vector-Images from Pixabay

Principle of Least Knowledge

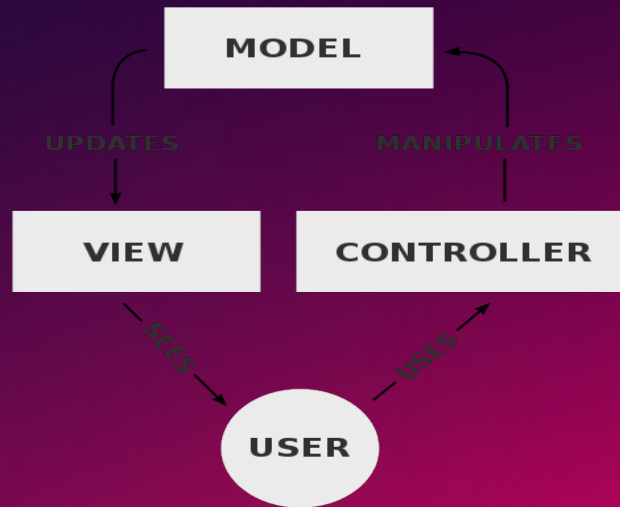- A module should only contain the data it needs, and no more

KISS

- Keep it Simple and Straightforward

Loose Coupling

- A component has little or no knowledge of other components

Fail Fast

- Checking for failure conditions prior to lengthy processing, so the failure can be reported at the beginning, saving processing time

Conclusion

- DO Repeat Yourself but…
- When you repeat yourself, document it
- Embrace and encourage Generalizing Specialists
- Information sharing becomes critical - share as much as possible
- Leadership is less black & white than Software

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