

Introduction to Object-relation mapping

Fundamental Database Systems 2017

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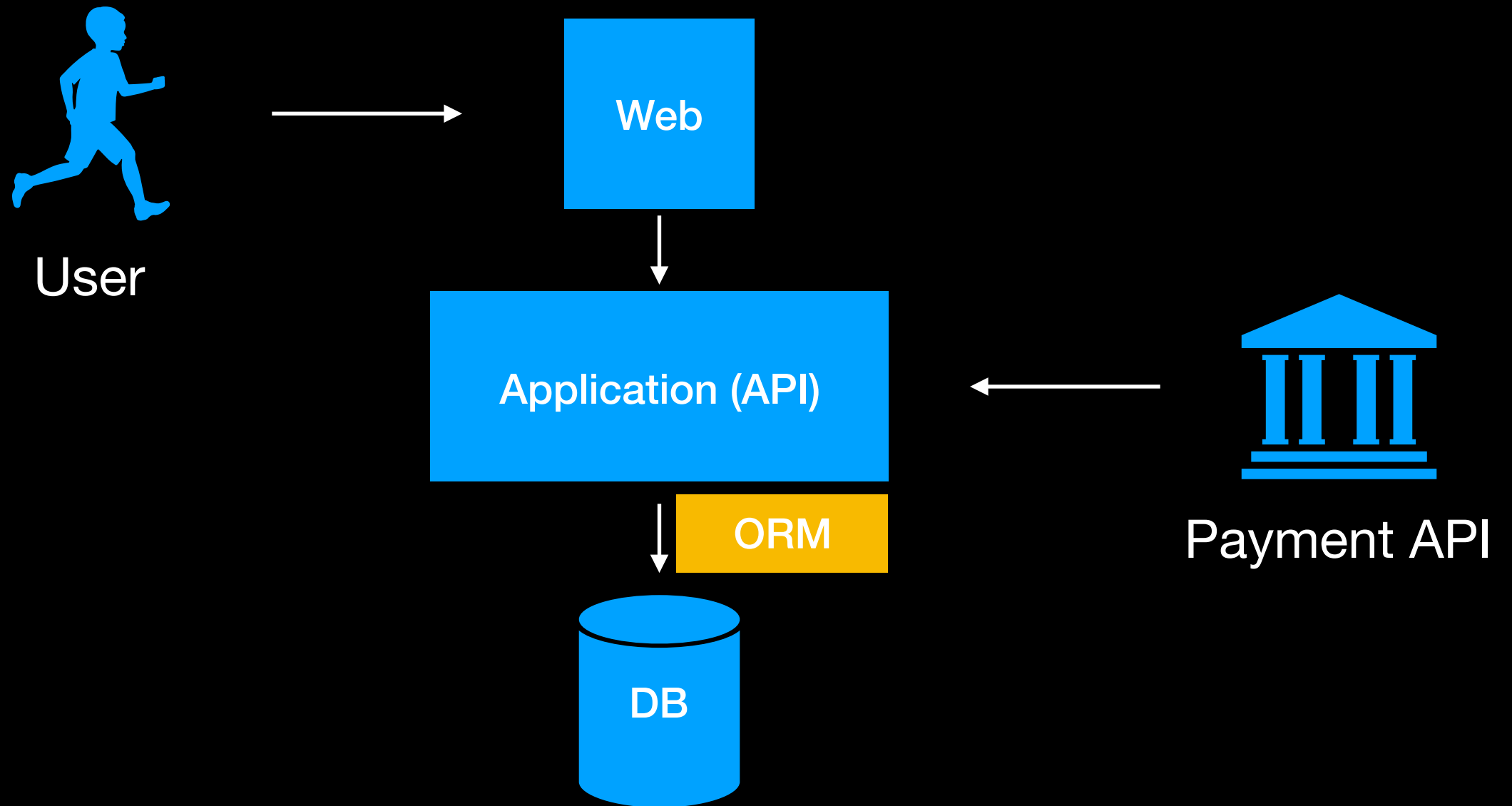
Let's talk about definition

- Object-oriented approach that let you manipulate data in database by mapping it's relations and attributes.
- Each table will represented as Model.

Pros and cons

- No need to repeat same SQL script.
- Data type abstraction.
- Model relationships.
- Fatigue response.
- Setup overhead.

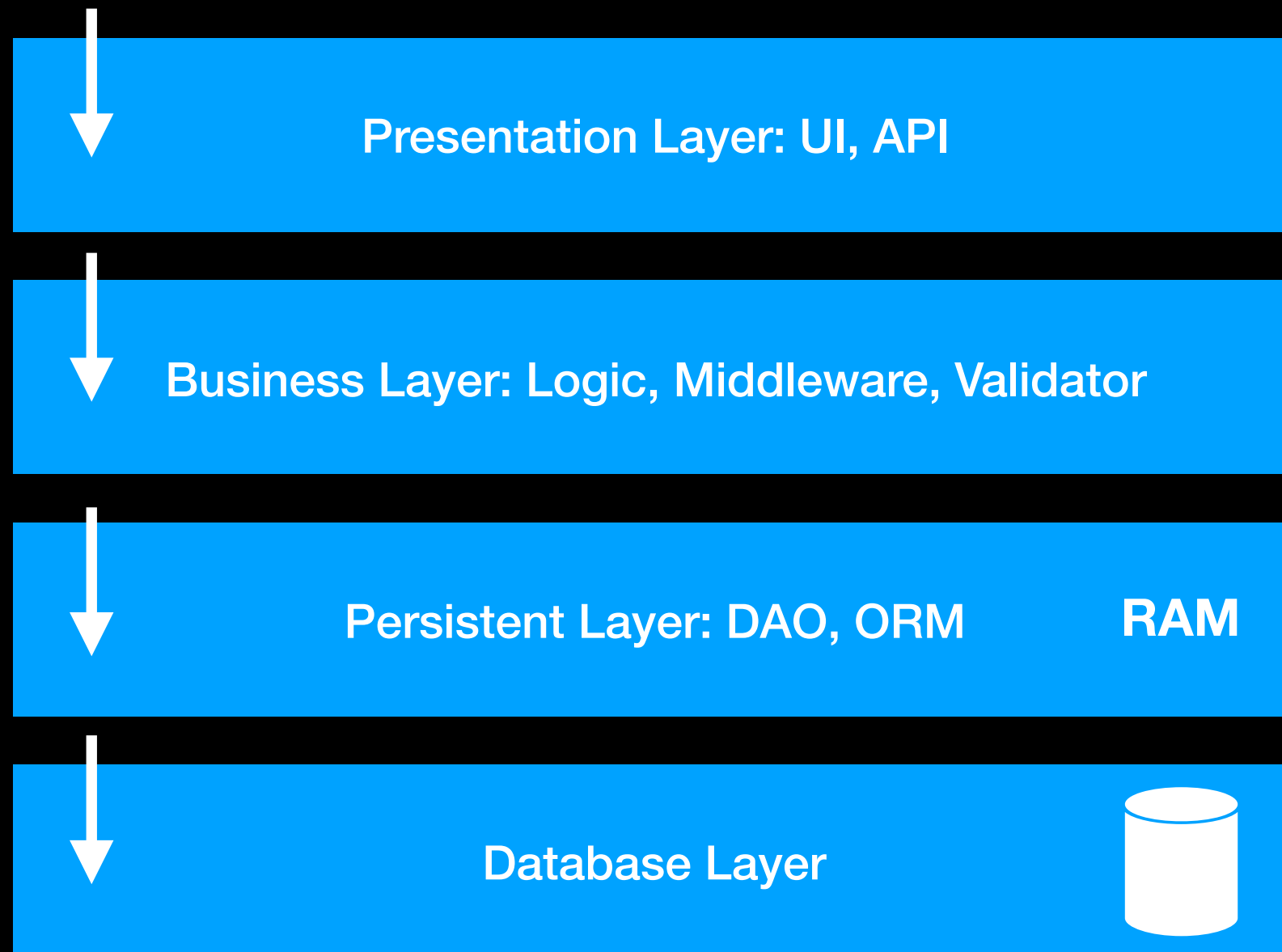
CMU Marathon 2017



3-tiers architecture

Enterprise

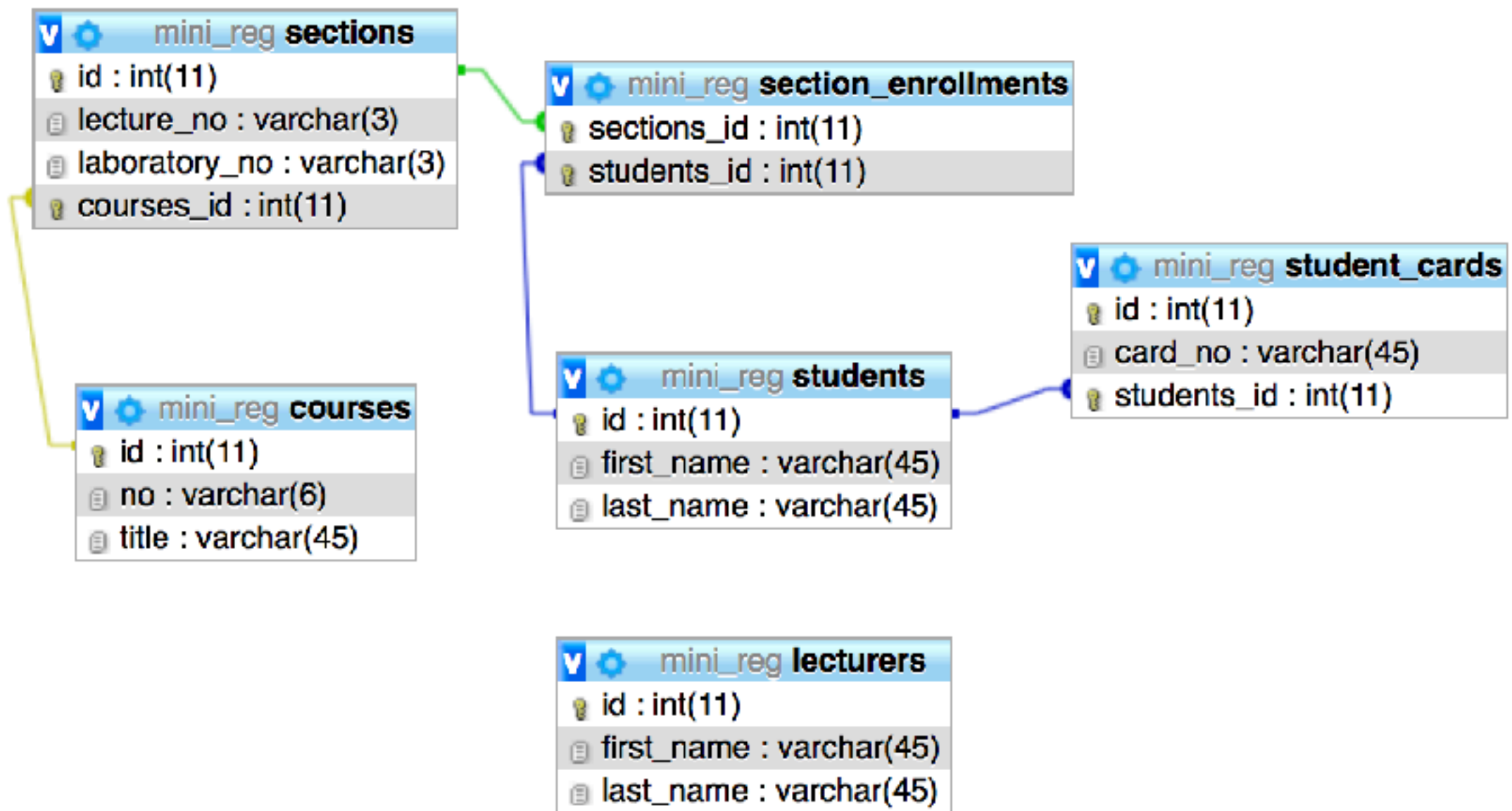
Request



DAO: Data Access Object

E.g. Java EE

Mini REG



References

- Eloquent: Getting Started <https://laravel.com/docs/5.5/eloquent>
- Software architecture patterns <https://www.oreilly.com/ideas/software-architecture-patterns/page/2/layered-architecture>