Introduction to Object-relation mapping

Fundamental Database Systems 2017

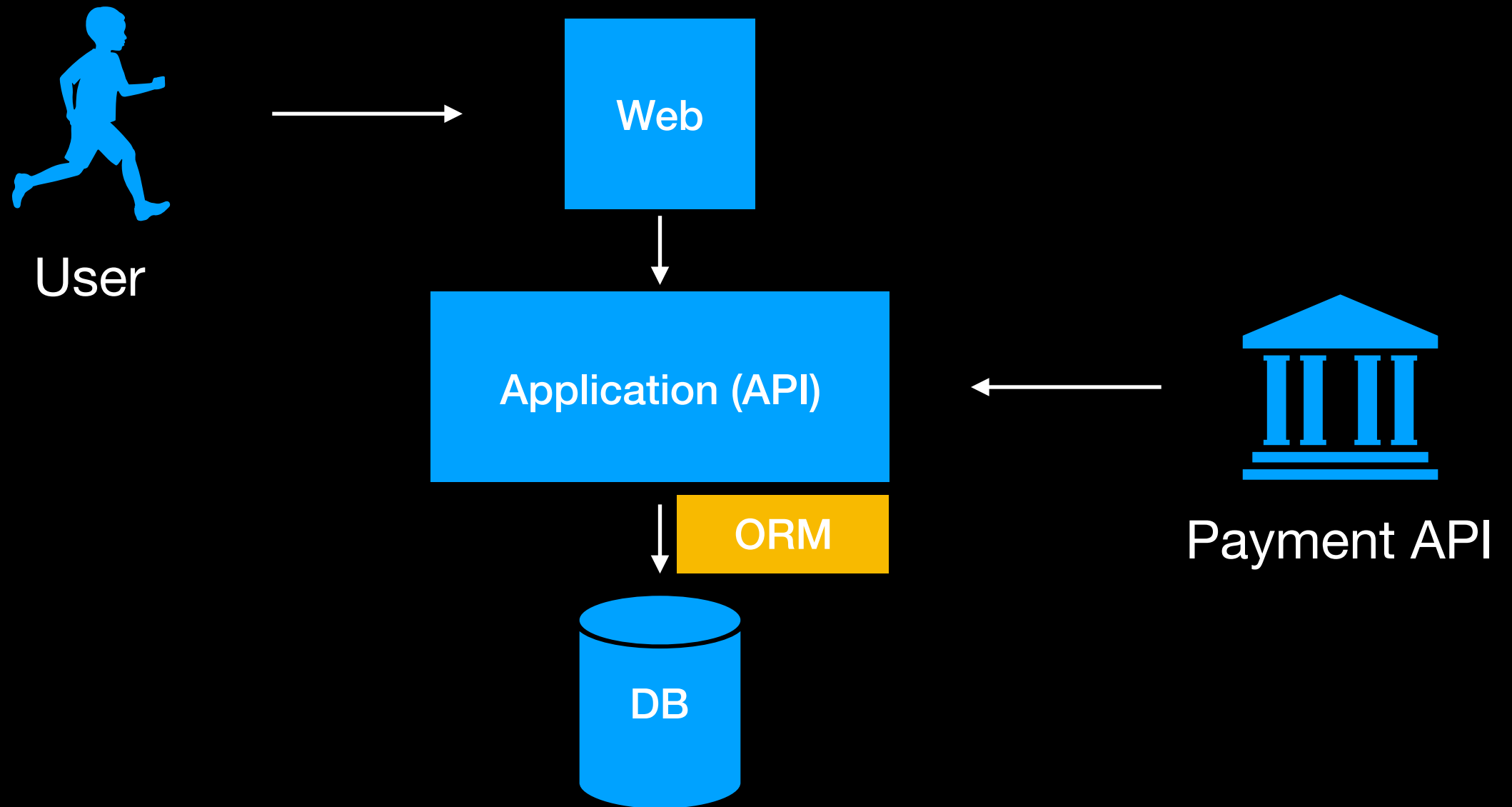Titipat <ttpsvb@gmail.com>

Let's talk about definition

- The **Object-oriented** is an approach that let you manipulate data in databases by **mapping** its **relations** and represent as **Model**.

Pros and cons

- No need to repeat same SQL script.

- Data type abstraction.

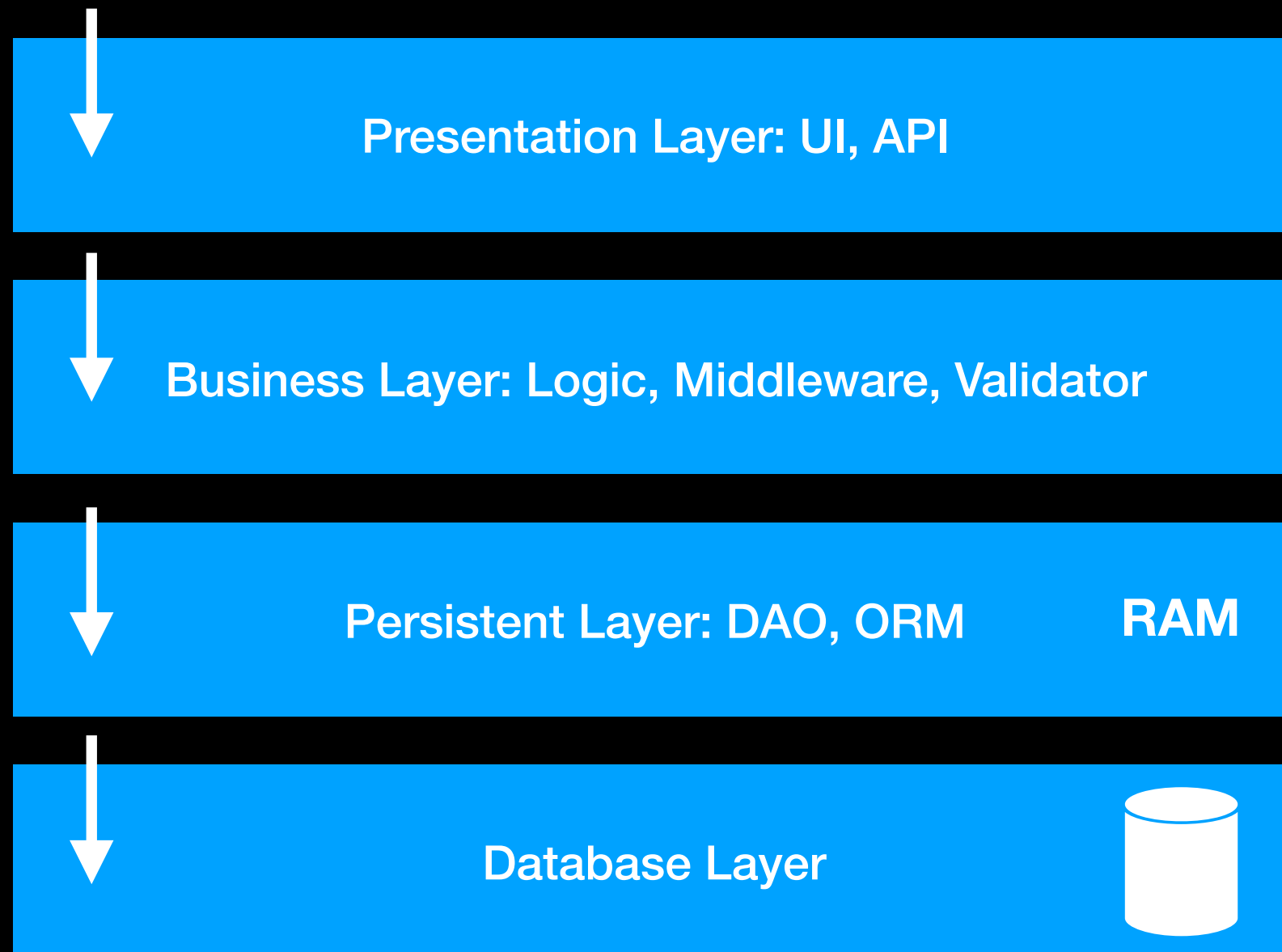- Model relationships.

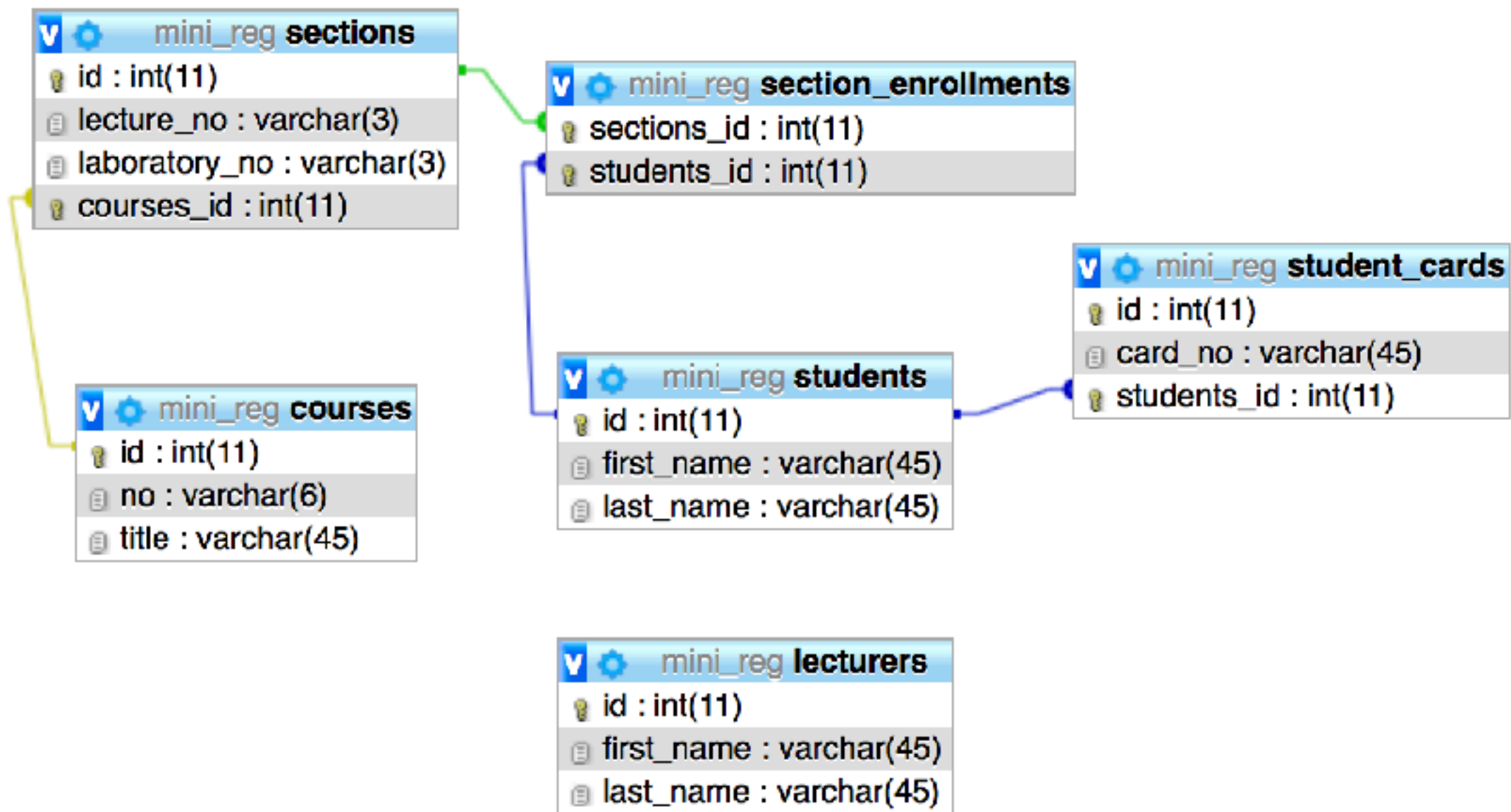- Fatigue response.

- Setup overhead.

CMU Marathon 2017

User → Web → Application (API) → ORM → DB

Payment API → Application (API)

3-tier architecture

Enterprise

Request

Presentation Layer: UI, API

Business Layer: Logic, Middleware, Validator

Persistent Layer: DAO, ORM   **RAM**   DAO: Data Access Object

Database Layer

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