

Introduction to MVC Framework

Database Laboratory 1/2017

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Recap: ORM

- Use OOP to mapping data relations.
- CRUD
 - Create
 - Read
 - Update
 - Delete

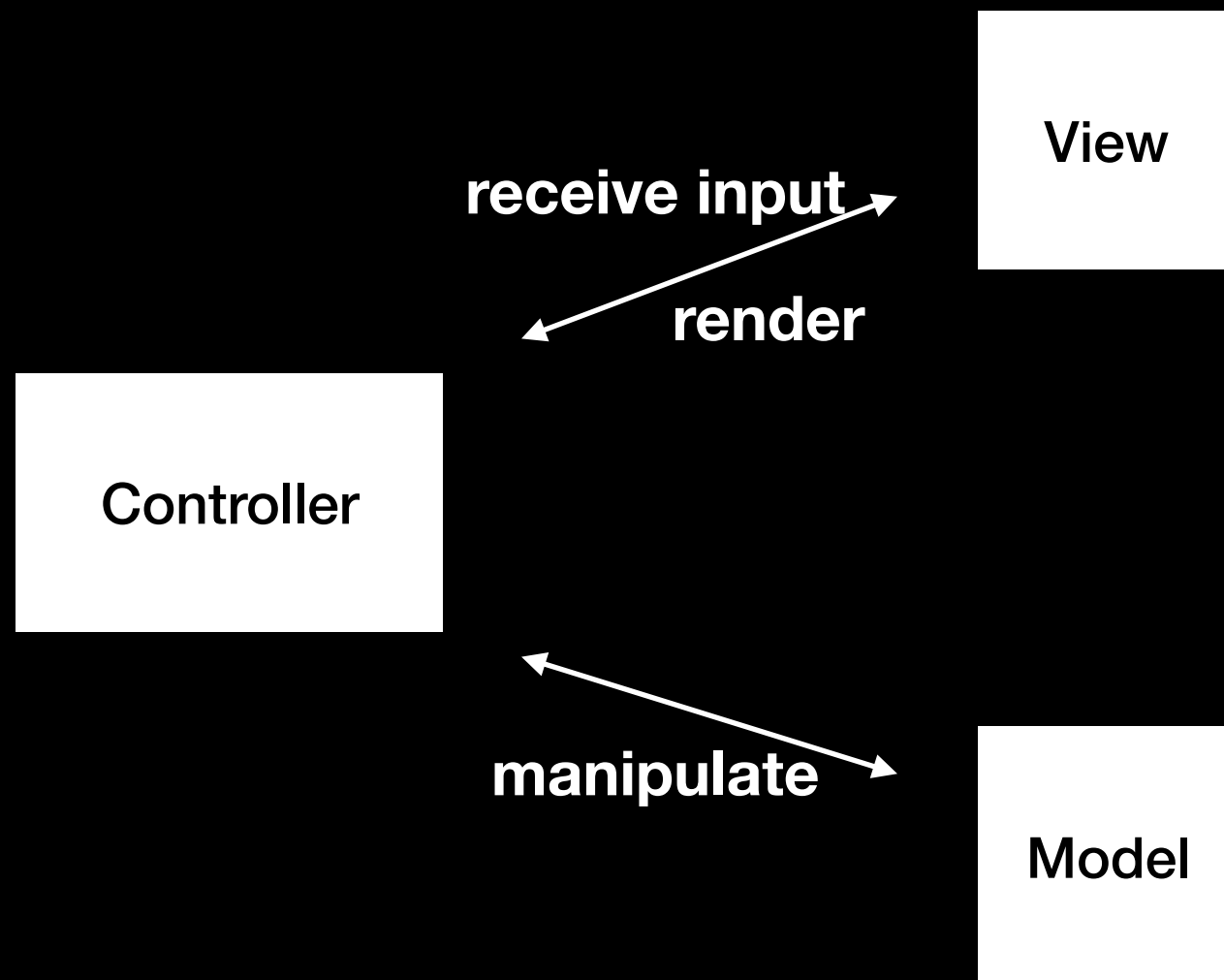
MVC

- It a software architecture design pattern.
- It divides the whole system into 3 components:
 1. Models main component, represented from problem domain
 2. Views interact with users and send input to the controller.
 3. Controllers process tasks when its triggered by any events.

MVC Benefits

- Simultaneous development.
- Can be focus on exact points.
- Maintainable code.
- Code reusable (DRY: Don't repeat yourself)
 - Authentication, authorization middleware.
 - Inheritable template.
 - Model; no more WET (Write everything twice) SQL.

MVC Diagram



Router

- It's an application router. Don't confuse with layer 3-4 router.
- The router will handle every request sent to the framework.
- Router compares REQUEST METHOD and REQUEST PATH with existed ROUTES.
- It's a sequential comparison, like access control list.

Example routing.

- Considering this following routes
 - ANY * - This will catch any routes.
 - GET /posts - will catch <http://localhost/posts> and should return an array of posts
 - GET /posts/1 - will catch a request for post which has id equal to 1
 - POST /posts
 - UPDATE /posts/2
 - DELETE /posts/3

References

- The MVC Loosens and Refocuses Programming -
Learning PHP Design Patterns by William Sanders