

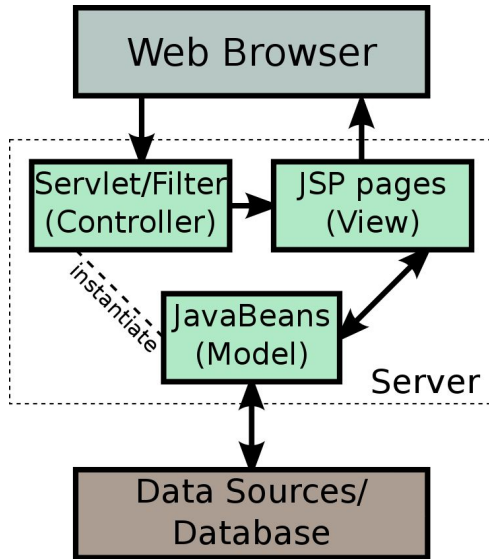
# Action-Domain-Responder

Refining MVC

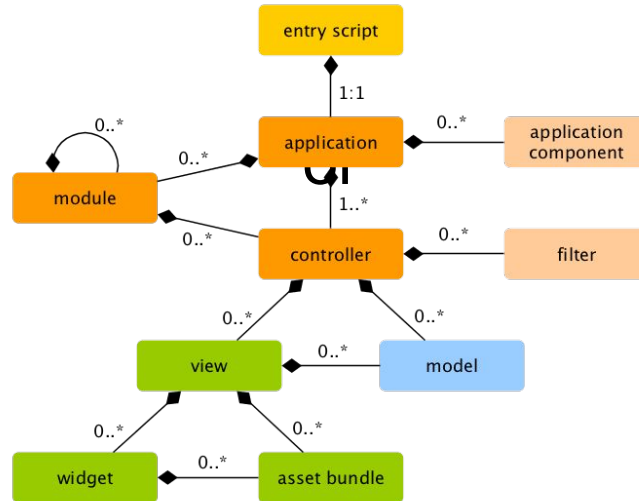
Why refine MVC?

# Which MVC?

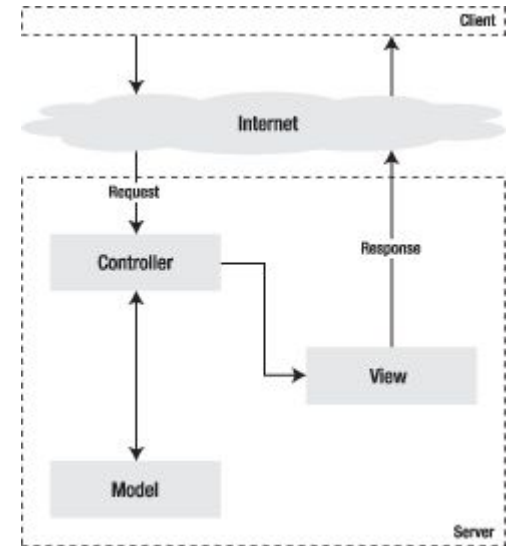
JSP v2



Yii 2



Symfony v1



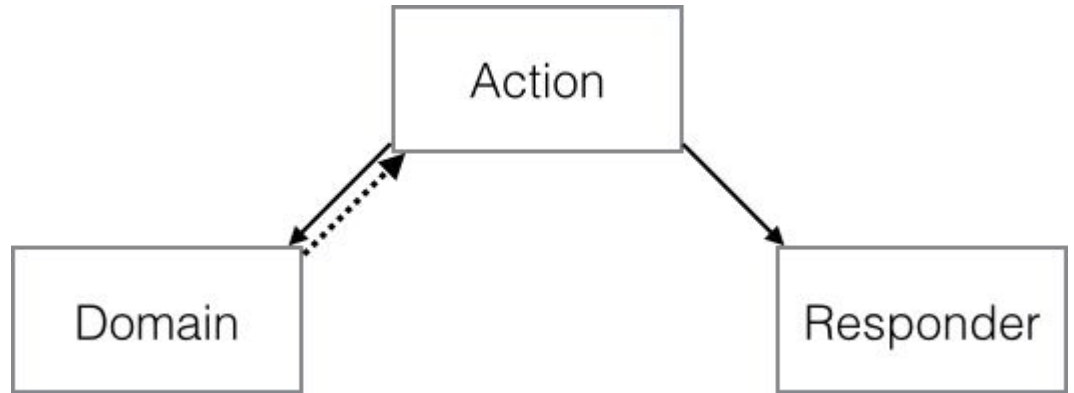
What is ADR?

# The pattern

Action  $\approx$  Controller

Domain  $\approx$  Model

Responder  $\approx$  View



# Responder $\approx$ View

```
class TicketResponder
{
    public function index(Response $response, array $data) : Response
    {
        ...
    }
}
```

- Returns HTTP response
- Domain payload passed in
- Likely to be one class per responder

# Moving away from Views

- More than a templating engine
- Handles all responses - errors and redirects as well as successes
- Handles content negotiation
- No access to Model

# Domain $\approx$ Model

```
class TicketService
{
    public function getTickets() : array
    {
        ...
    }
}
```

- Returns payload as a data structure
- Returns status of operation (not shown here)
- Multi-layered



# Moving away from Models

- More than a database layer
- Models are so last century

# Action $\approx$ Controller

```
$app->get('/tickets', function (Request $request, Response $response) {  
    $tickets = $this->ticket_service->getTickets();  
    return $this->ticket_responder->index(  
        $response,  
        ["tickets" => $tickets]  
    );  
});
```

- Typically would be class of its own
- Minimal logic

# Moving away from Controller

- No longer a catch-all class with many action & supporting methods
- Doesn't get involved with HTTP headers or non-2xx responses
- Doesn't get involved with returning JSON/XML data

# Resources

Details

<https://github.com/pmjones/adr>

Talk

<https://vimeo.com/106771285>

Implementing Slim 'first application' with ADR

<https://www.slimframework.com/docs/cookbook/action-domain-responder.html>

Recap

Questions?