

1 Überblick

asada **bfarmer** asd

Version Control: thomas2019pragmatic (data1)

- Daten Integration per Kommandozeilenbefehl
- Darstellung der Daten
- Generieren von ConceptMaps
- Beispiel-Anwendung: Virtuelle Patienten

Symfony – Warum? Potencier (2022)

Composer ?

PHP Verwendung W3Techs

Programming Languages Harmful Janssens et al. (2017)

Model-View-Controller (Voorhees, 2020, Seite 176f)

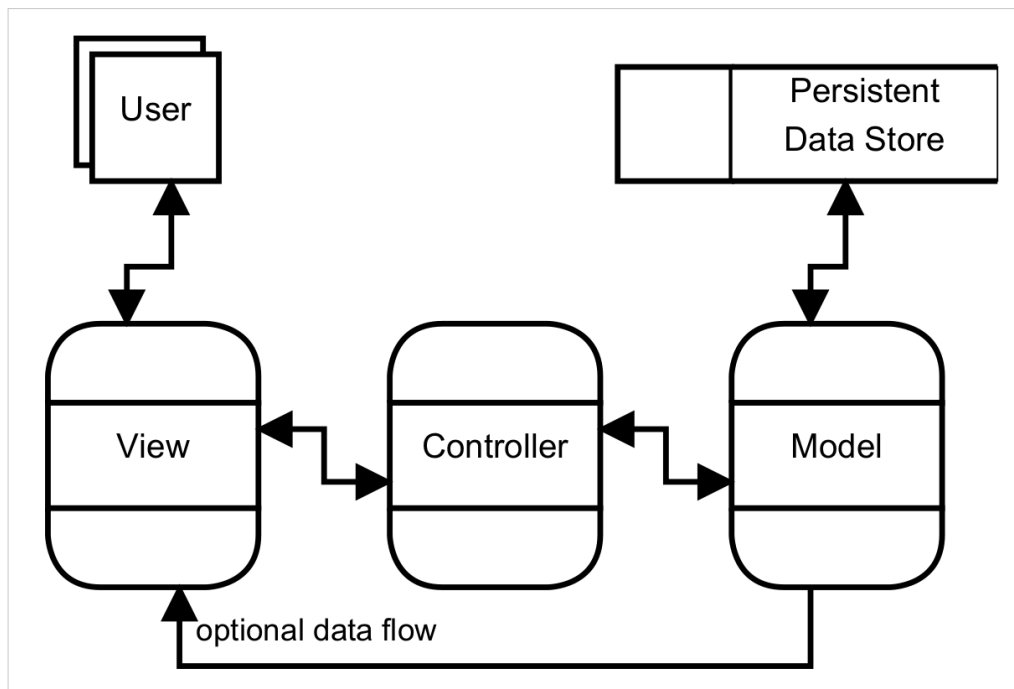


Abbildung 1: (Voorhees, 2020, Seite 177)

Abstraction and Decoupling – Orthogonality: thomas2019pragmatic

Symfony Potencier (2022)

Dependency Injection Seemann and van Deursen (2019)

1.1 Symfony Komponenten

Console (Symfony, a, Console Commands)

Http Foundation: Request, Response, StreamedResponse (Symfony, b, The HttpFoundation Component)

HttpClientInterface – Download (Symfony, c, HTTP Client)

File System (Symfony, d, The Filesystem Component)

UUID (Symfony, e, The UID Component)

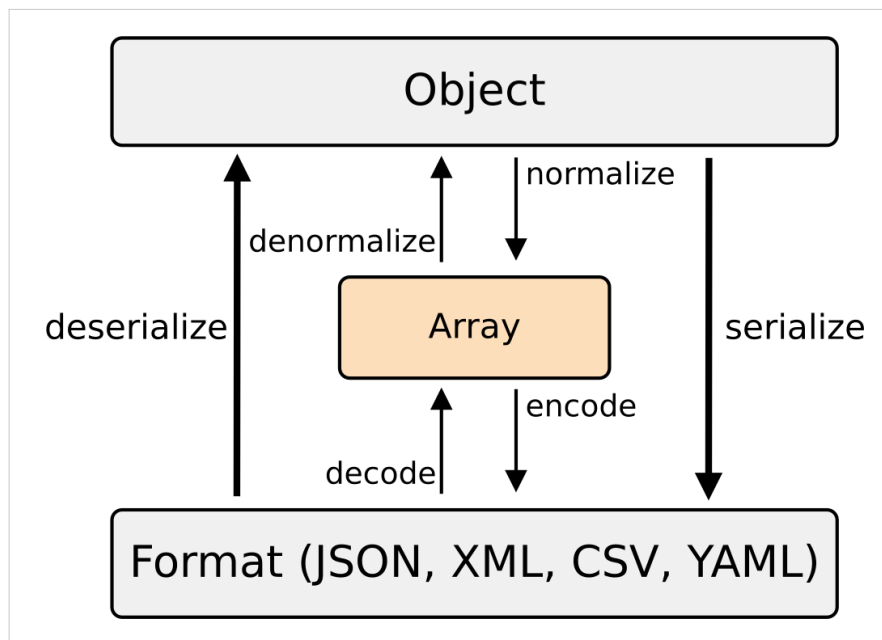
Controller – Routing (Symfony, f, Controller)

Serializer: XML, CSV, JSON, SQL-Insert (Symfony, g, The Serializer Component)

Database (Symfony, h, Databases and the Doctrine ORM)

Templates (Symfony, i, Creating and Using Templates)

Twig Twig



2 Aufbau des bfarmer -Projekts

2.1 Views

Templates für HTML-Code.

- **base**
Grundvorlage für alle Seiten, also zum Beispiel <head> mit Imports für Stylesheets, Javascript und <body>.
- **index**
b
- **codes**
c
- **conceptmap**
d
- **modal**
e

- patients
f
- search_code
g
- umsteiger
h
- umsteiger_icons
i
- umsteiger_search
j
- umsteiger_search_recursion
k
- umsteiger_search_result
l

2.2 Utility

- Constants
Enthält globale Konstanten und statische Funktionen, die keine Instanziierung einer Klasse benötigen, um zum Beispiel eindeutige Namen für die SQL-Tabellen zu generieren.
- SqlInsertEncoder
b
- TwigExtension
Erweiterung der Twig-Template Engine, um externe Kode-Links und

2.3 Repositories

- BfarmRepository
a
- ConfigRepository
b
- DatabaseRepository
c
- PatientsRepository
d

2.4 Controllers

- AdminController
a
- CodesController
b
- ConceptMapController
c

- DimdiController
d
- IndexController
e
- PatientsController
f
- UmsteigerController
g
- UmsteigerSearchController
h

2.5 Services

- ClientService
a
- ConceptMapService
b
- DataService
c
- PatientsService
d
- SetupService
e
- UmsteigerService
f

2.6 Commands

- BfarmerCommand
a
- TestCommand
b

3 Backend

3.1 Setup-XML

3.2 Konsole

3.3 Datenbank / MySQL / Doctrine

Database must have collation utf8mb4_unicode_ci

4 Frontend

4.1 Webpack / Node.js

Webpack ?, NPM ?, Node.js ?

webpack is a static module bundler for modern JavaScript applications

4.2 Bootstrap

Bootstrap

Layout, Nav-Tabs, Modal, Icons

4.3 SCSS

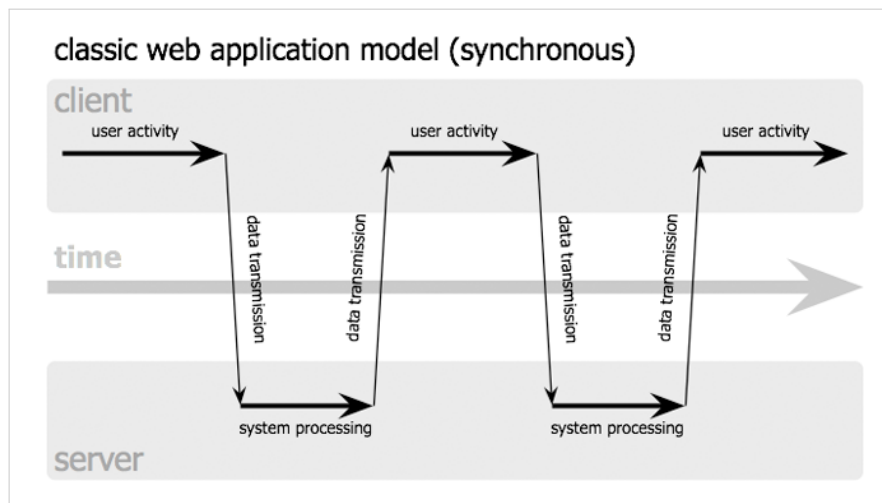
SASS ? : Einfachere Syntax, Variablen, Funktionen

4.4 Tooltips

Popper ?

5 AJAX

AJAX Garrett (2005)



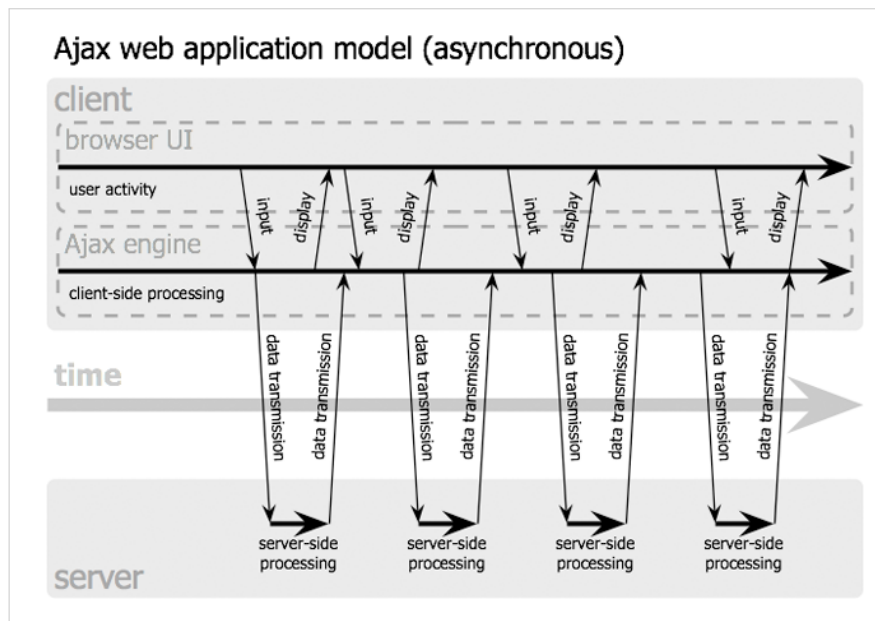


Abbildung 2: Garrett (2005)

Modal

BfArM/Dimdi Links – Neuer Tab muss geöffnet werden bevor Skripte ausgeführt werden.

CSS Flexbox Coyier

5.1 Anonyme Funktionen

Callback

Zum Schreiben der ConceptMap

Data-Preprocessing

InsertEncoder

<https://dev.mysql.com/doc/refman/en/insert-optimization.html>

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