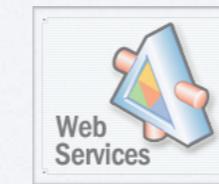




WEB APPLICATION DEVELOPMENT

<https://github.com/muharihar/workshop-ci-01>



RESTFul
Web Services

Hi, ^_ ^



- Muhammad Hari Suharto
- Nickname: muharihar
- Panggilan: Hari
- SN:
- facebook.com/muharihar
- @muharihar
- skype: mharis.ict

OUTLINE

- CodeIgniter (3.x) Web Application Framework
- Ajax CRUD (JQuery + DataTables)
- Web Services (SOAP, REST)

CODEIGNITER

Part I



PANGKALAN DATA PENDIDIKAN TINGGI DIREKTORAT JENDERAL PENDIDIKAN TINGGI

UGM MAIL PERPUSTAKAAN

PALAWA.UGM
PORTAL AKADEMIK MAHASISWA DAN DOSEN

Home

Selamat datang

Palawa.UGM adalah portal bagi civitas akademik Universitas Gadjah Mada.

Jika mengalami kendala dalam penggunaan Palawa.UGM, silakan hubungi bagian akademik masing-masing unit (Fakultas/Sekolah/Jurusan) atau Direktorat Akademik.

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AktifDownload Terimakasih selamatkapanva...

Project Open Data Dashboard Agencies Validator Converter Help About

About
The Project Open Data Dashboard is a website enabling Federal agencies, industry, and the general public and other stakeholders to view details on how Federal agencies are progressing on implementing M-13-13 Open Data Policy—Managing Information as an Asset.

Metrics
The Project Open Data Dashboard is informed by M-13-13, the Project Open Data Implementation Guide, the Open Data Cross-Agency Priority (CAP) Goal, and the Integrated Data Collection Open Data Process Use, and Impact Questions. The Project Open Dashboard tracks progress in two ways:

1. Quarterly review by OMB staff of Leading Indicators in six categories: Enterprise Data Inventory, Public Data Listing, Public Engagement, Privacy & Security, Human Capital, and Use & Impact. For more information see [Leading Indicators Strategy Rubric](#).
2. Automated metrics determined by a script that analyzes [agency.gov] /data.json, /digitalstrategy.json, and /data files every 24 hours until the end of the quarter when a historic snapshot is generated. For more information see [Documentation](#).

Open Source
The Project Open Data Dashboard is an open source project. Some ways you can contribute are: by reporting bugs, by suggesting new features, by translating content to a new language, by writing or editing documentation, by writing specifications, by writing code and documentation (no pull request is too small: fix typos, add code comments, clean up inconsistent whitespace), by reviewing pull requests, and by closing issues. Before contributing, we encourage you to read our CONTRIBUTING guide, our LICENSE, and our README.

Resources and Tools
To support Federal agency implementation of M-13-13 and success the following resources and tools have been provided:

- * [Project Open Data Metadata Schema Validator](#) – Conform your Federal (or Non-federal) data.json is validate against the current Project Open Data Metadata Schema.
- * [Project Open Data Converter](#) - Transform CSV files into JSON as defined by the Project Open Data Metadata Schema.
- * [Legacy Data.gov Export API](#) - Export legacy data from Data.gov as a Project Open Data Schema JSON or CSV file. Note: This tool was designed for agencies that used to log directly into Data.gov to maintain their datasets.
- * [Project Open Data Changelog](#) - Compare your new data.json file to the data.json metadata currently cached on Data.gov.

For additional resources and tools see: [Project Open Data](#) and [Project Open Data on GitHub](#).
You can help [edit this page on GitHub](#).

Fork me on Github <http://labs.data.gov/dashboard/offices> Sign in with GitHub

CodeIgniter

CodeIgniter Rocks

CodeIgniter is a powerful PHP framework with a very small footprint, built for developers who need a simple and elegant toolkit to create full-featured web applications.

Star 11,175 Fork 5,759 Follow 18.5K followers

Download The latest is Version 3.0.3

Read the Manual Clear documentation

View the Forums Get Support & Discuss Things

On GitHub Fix Bugs or Add Features

&

Bootstrap Getting started CSS Components JavaScript Customize Themes Expo Blog

B

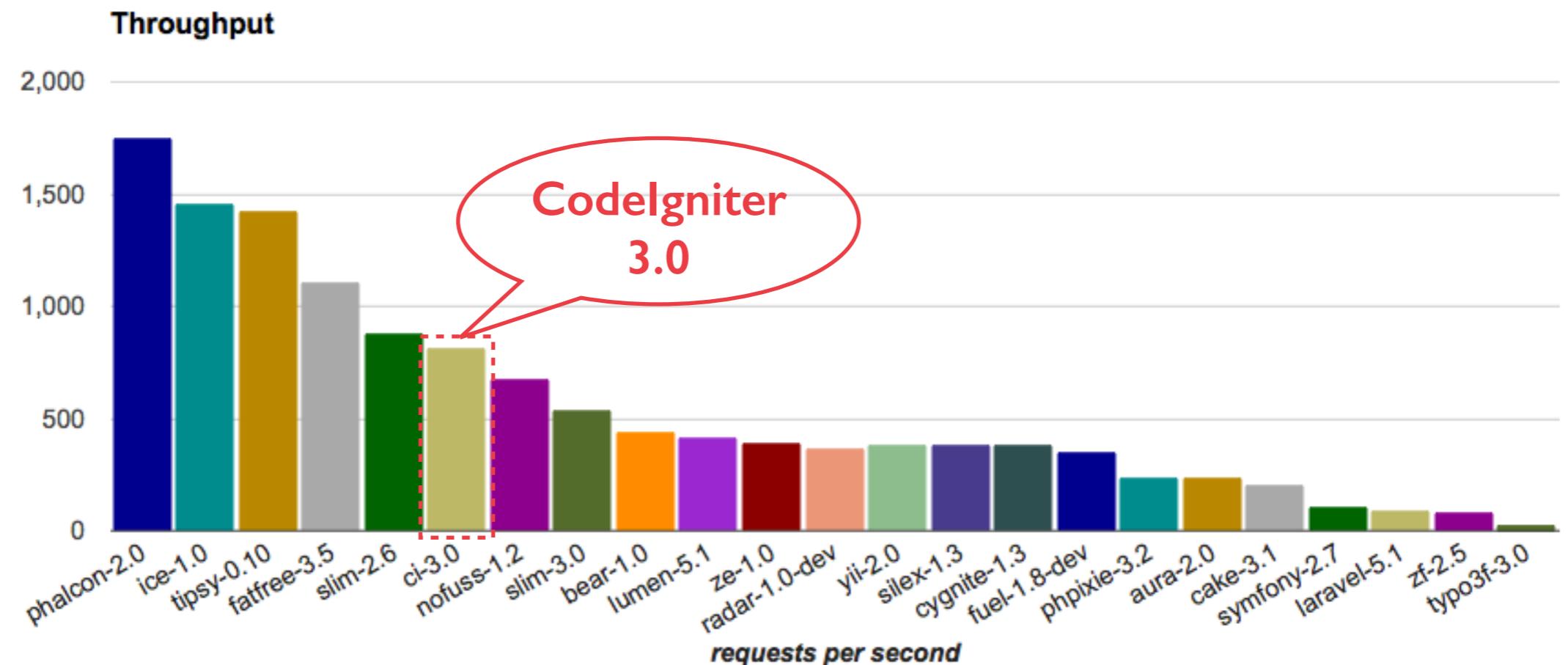
Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web.

Download Bootstrap

Currently v3.3.6

PHP Framework Benchmark

Hello World Benchmark

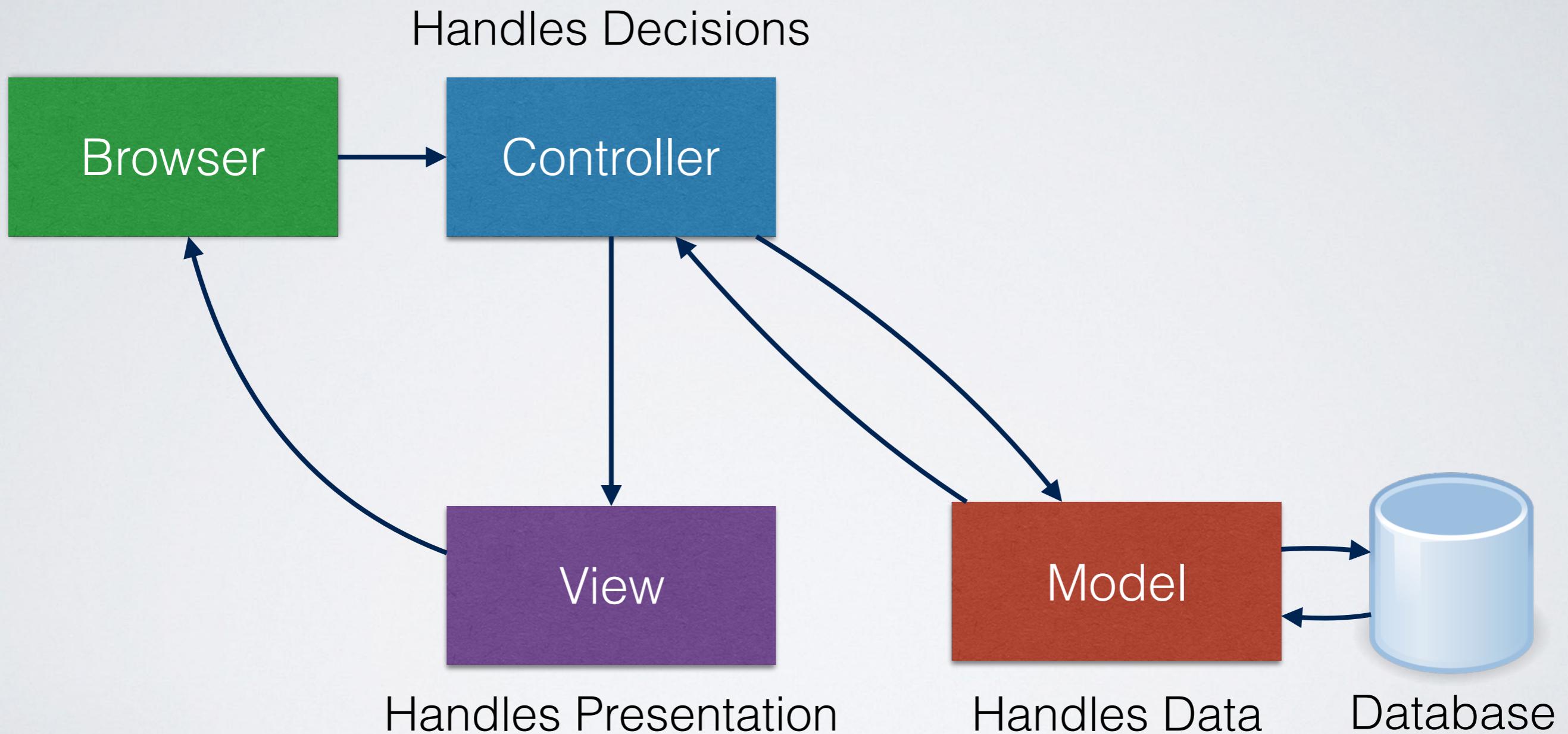


<https://github.com/kenjis/php-framework-benchmark>

M-V-C

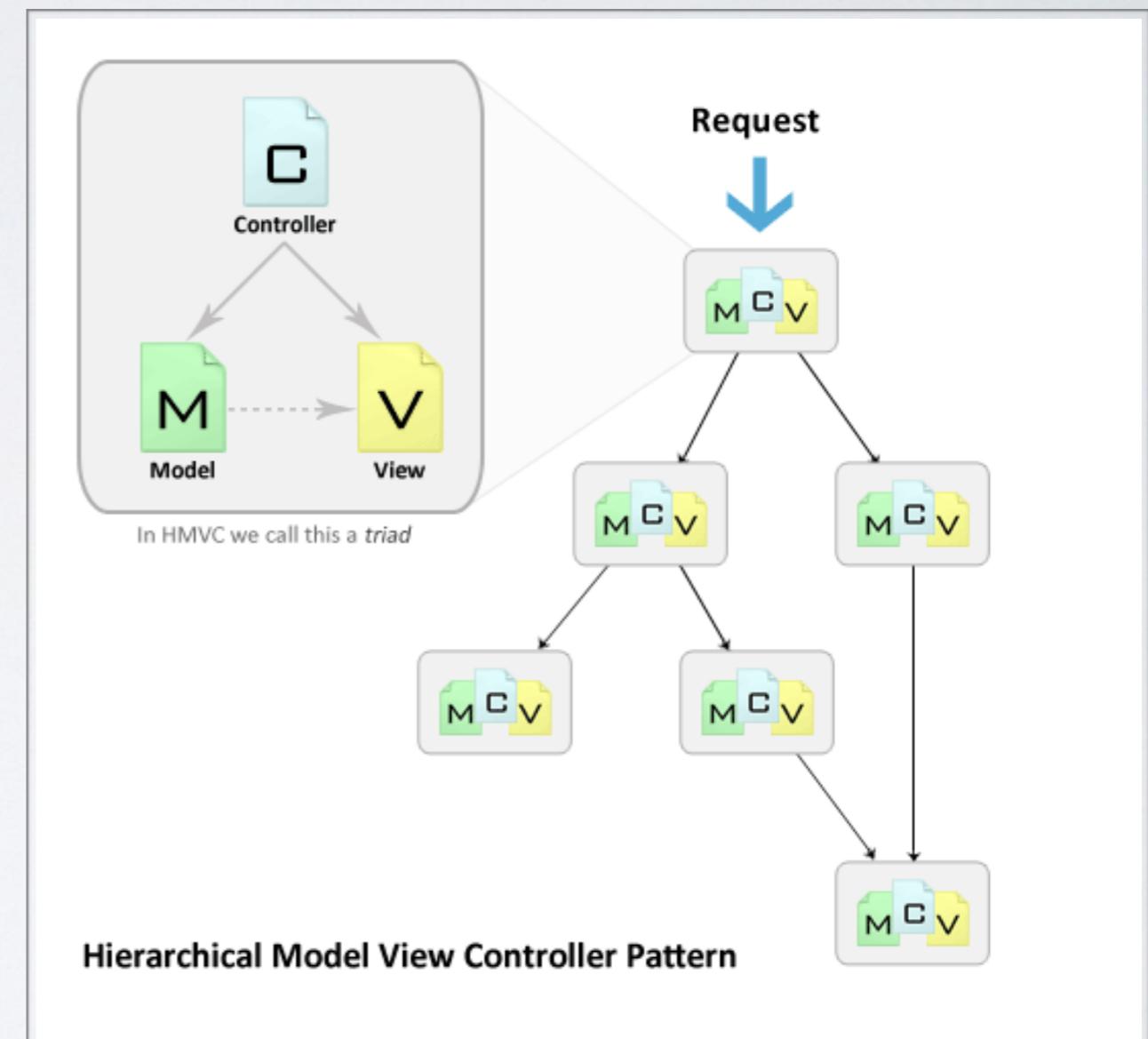
- Model : Handles Data
- View : Handles Presentation
- Controller : Handles Decisions

M-V-C

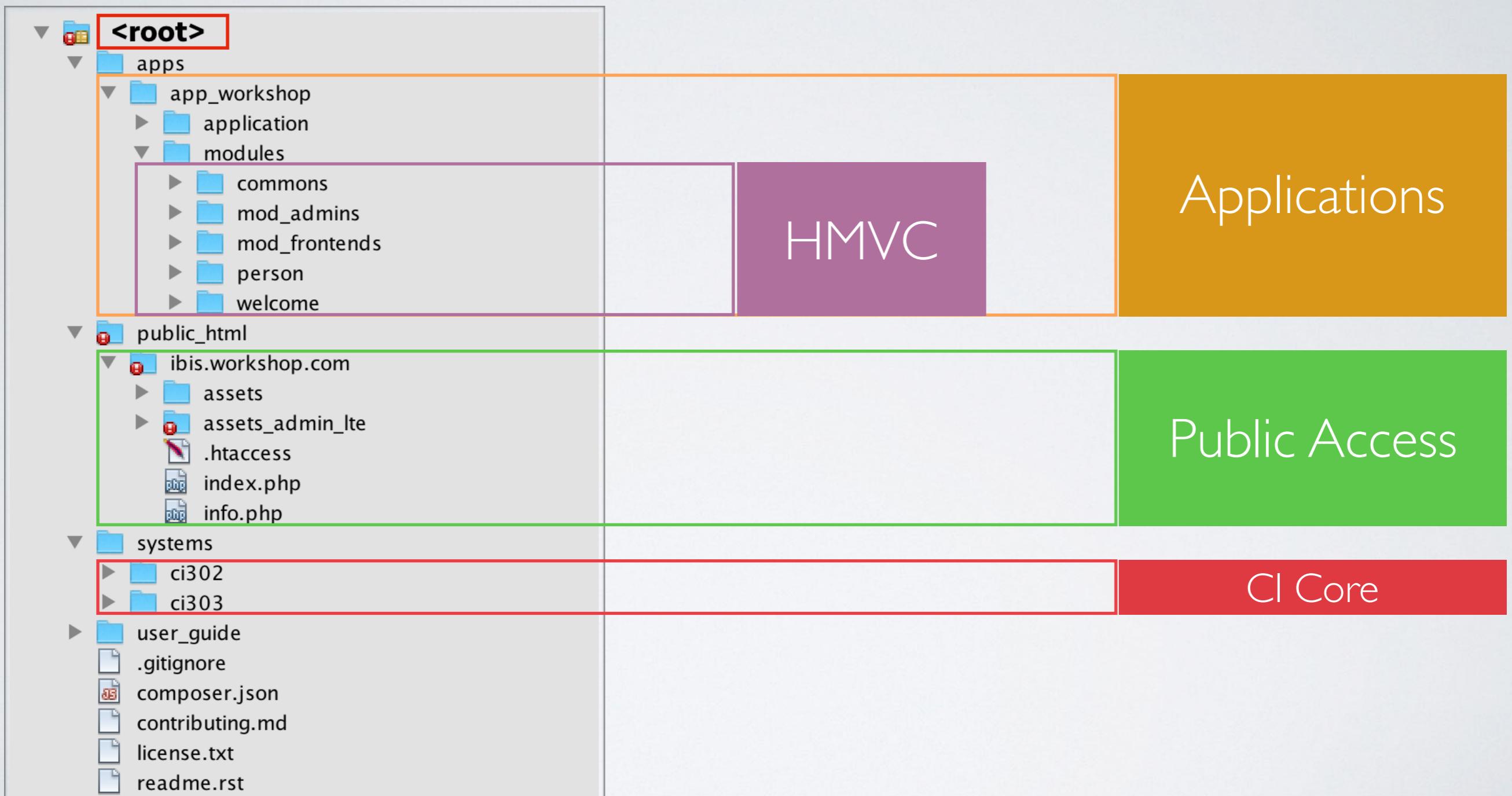


H-M-V-C

- Hierarchical M-V-C
- Manfaat:
 - Modular
 - Mudah di kelola
 - “Reusabilitas”
 - Ekstensibilitas



STRUKTUR CI + HMVC



BOOTSTRAP

AdminLTE
≡
✉ 4
🔔 10
🚩 9
Alexander Pierce
⚙️

 Alexander Pierce

Online

🔍

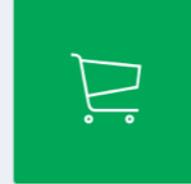
MAIN NAVIGATION

- [Dashboard](#)
- [Dashboard v1](#)
- [Dashboard v2](#)
- [Layout Options](#)
- [Widgets](#)
- [Charts](#)
- [UI Elements](#)
- [Forms](#)
- [Tables](#)
- [Calendar](#)

Dashboard Version 2.0


CPU TRAFFIC
90%

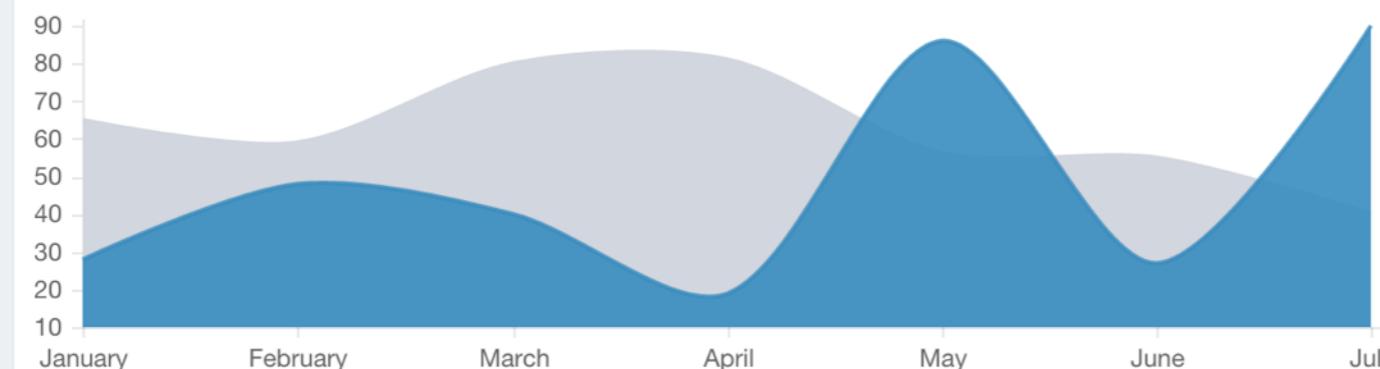

LIKES
41,410


SALES
760


NEW MEMBERS
2,000

Monthly Recap Report

Sales: 1 Jan, 2014 - 30 Jul, 2014



Month	Sales
January	\$35,210.43
February	\$35,210.43
March	\$35,210.43
April	\$35,210.43
May	\$35,210.43
June	\$35,210.43
July	\$35,210.43

Goal Completion

Goal	Completed	Total
Add Products to Cart	160	200
Complete Purchase	310	400
Visit Premium Page	480	800
Send Inquiries	250	500

▲ 17%
\$35,210.43
TOTAL REVENUE

▼ 0%
\$10,390.90
TOTAL COST

▲ 20%
\$24,813.53
TOTAL PROFIT

▼ 18%
1200
GOAL COMPLETIONS

<https://almsaeedstudio.com/preview>

||

Workshop: Web Application Development

ACTION

- **Codelgniter (versi 3.0.3 dan versi 3.0.4)**
 - <https://github.com/bcit-ci/CodeIgniter/releases>
- **HMVC (untuk CI versi 3.x)**
 - <https://bitbucket.org/wiredesignz/codeigniter-modular-extensions-hmvc/downloads>
- **AdminLTE (versi 2.3.0, Bootstrap 3.3.5, jQuery 2.1.4)**
 - <https://almsaeedstudio.com/>

AJAX CRUD

Part 2





Ajax CRUD with Bootstrap modals and Datatables with Server side Validation



Person Data

[+ Add Person](#)[⟳ Reload](#)

Show 10 entries

Search:

First Name	Last Name	Gender	Address	Date of Birth	Action
Quinn	Flynn	male	Edinburgh	1977-03-24	Edit Delete
Tatyana	Fitzpatrick	male	London	1989-01-01	Edit Delete
John	Doe	male	Kansas	1972-11-02	Edit Delete
Garrett	Winters	male	Tokyo	1988-09-02	Edit Delete
Airi	Satou	female	Tokyo	1964-03-04	Edit Delete

Showing 1 to 5 of 5 entries

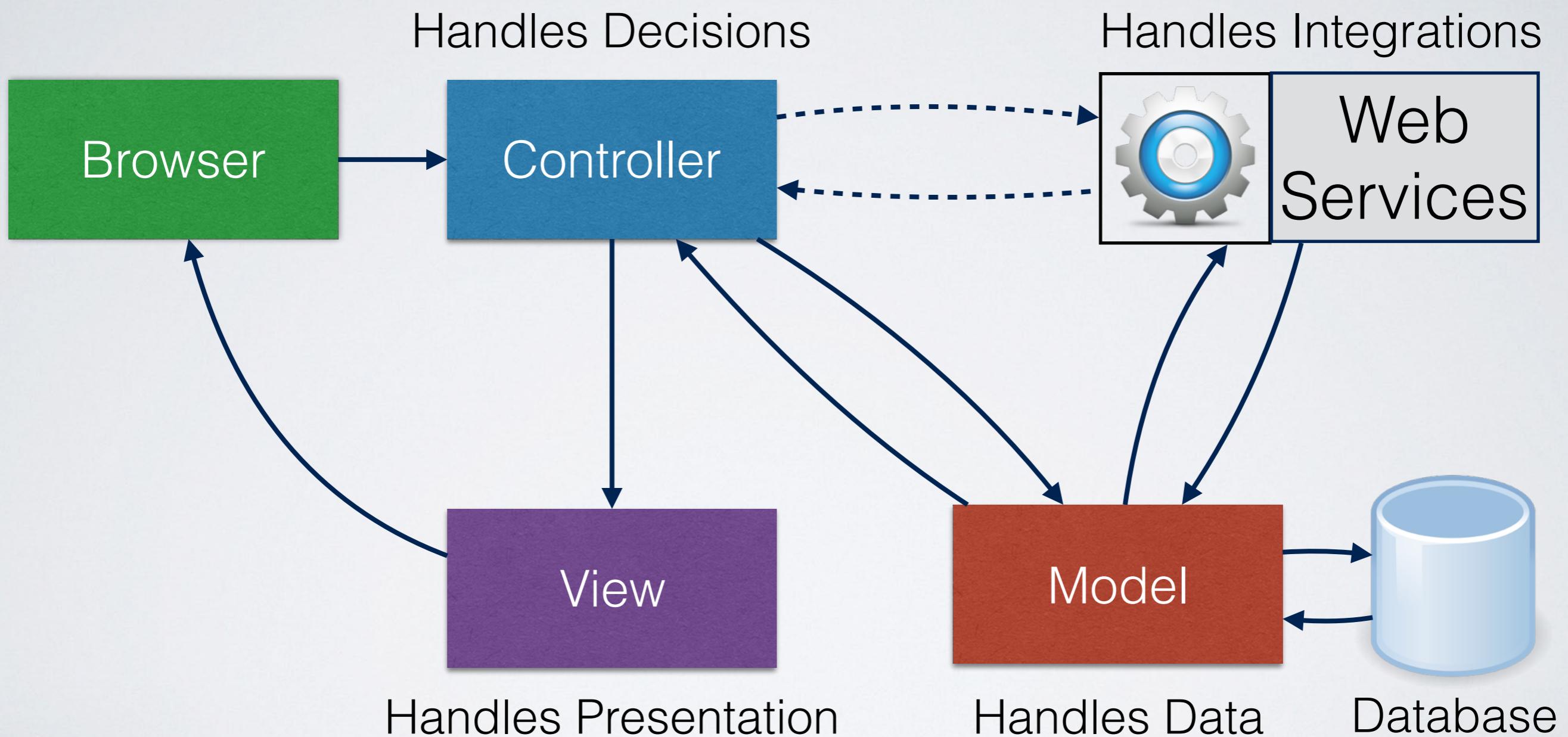
[Previous](#) [1](#) [Next](#)

WEB SERVICES

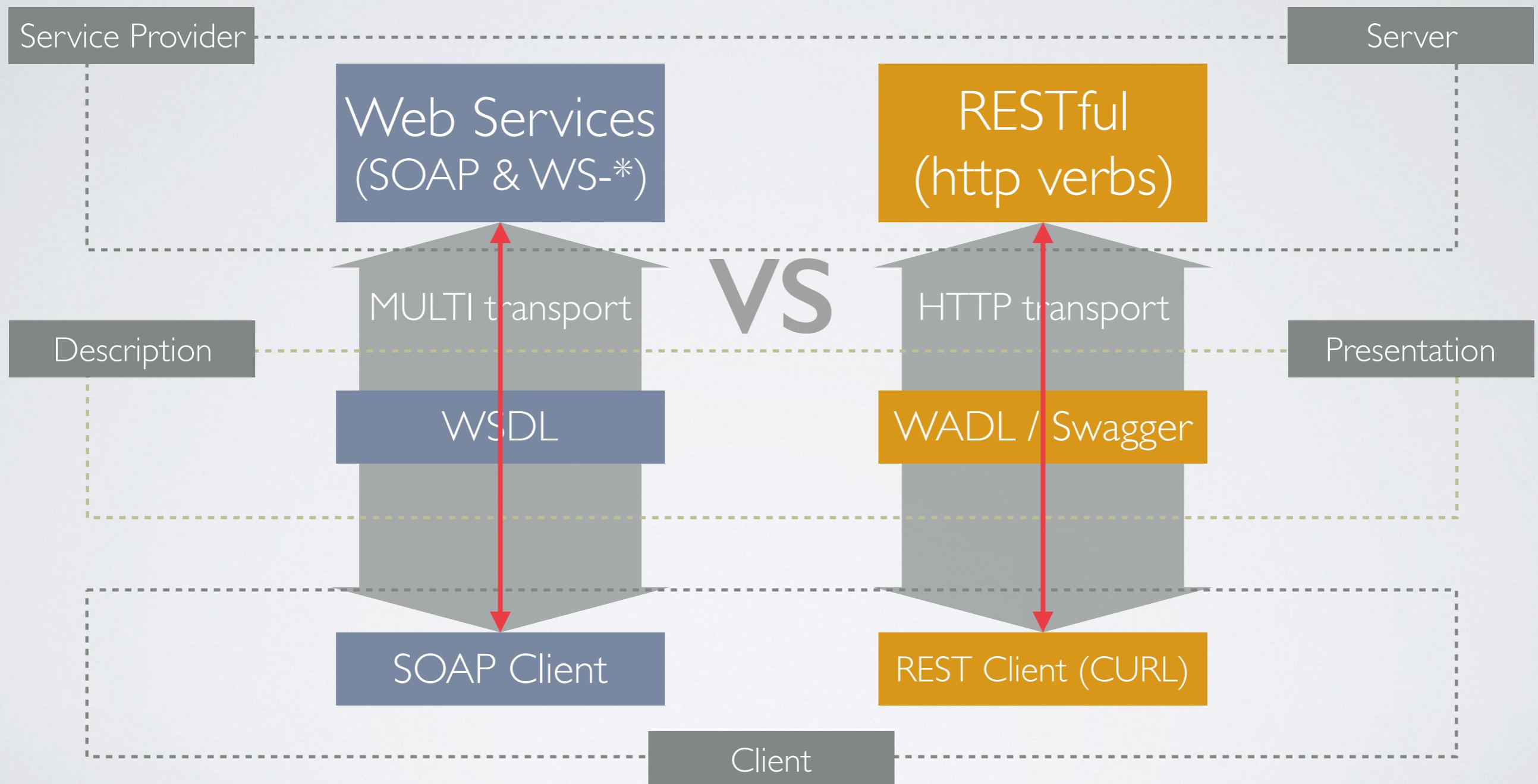
Part 3



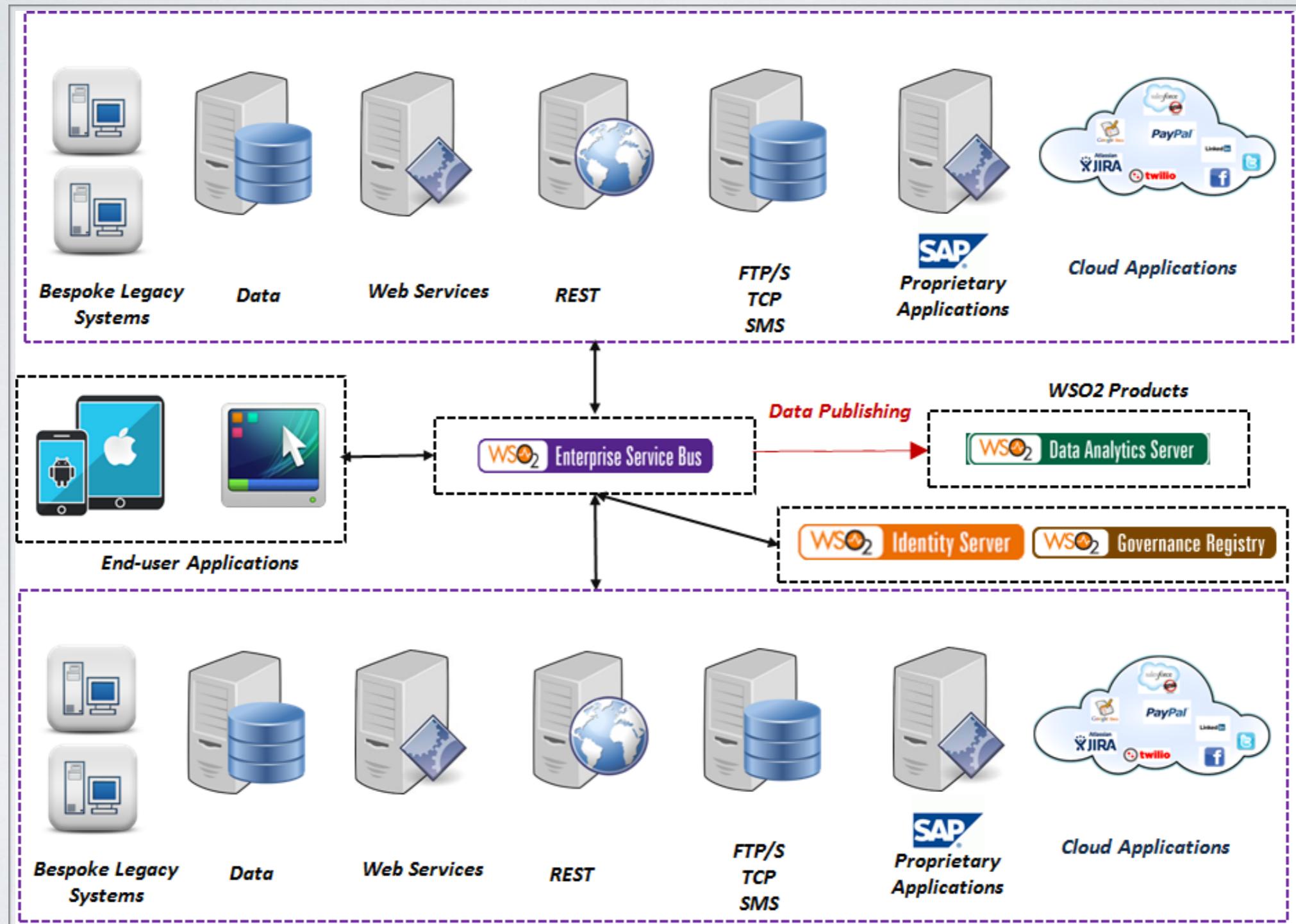
M-V-C + INTEGRATION



WEB SERVICES

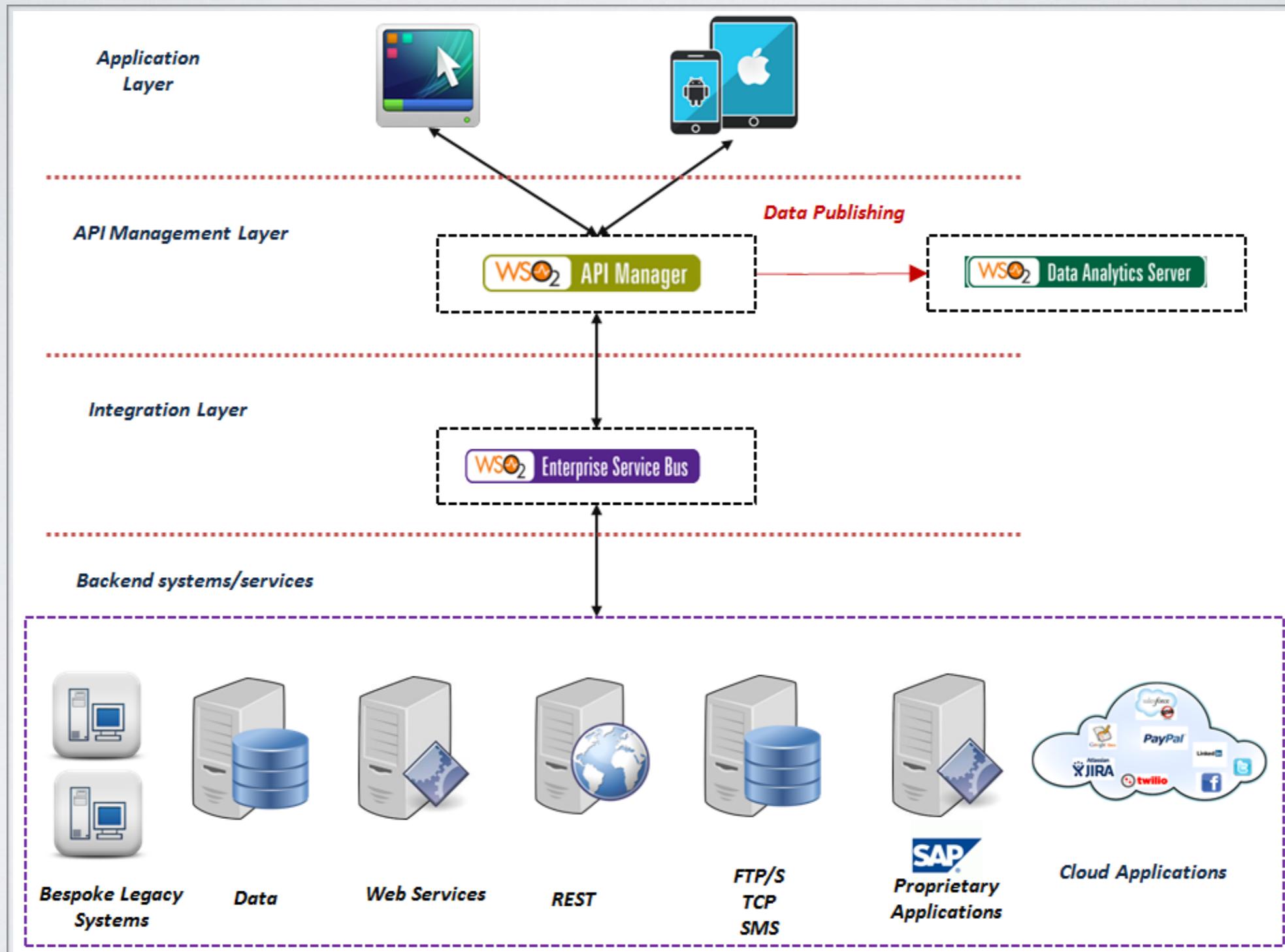


SAMPLE: ESB - ENTERPRISE INTEGRATION PATTERN



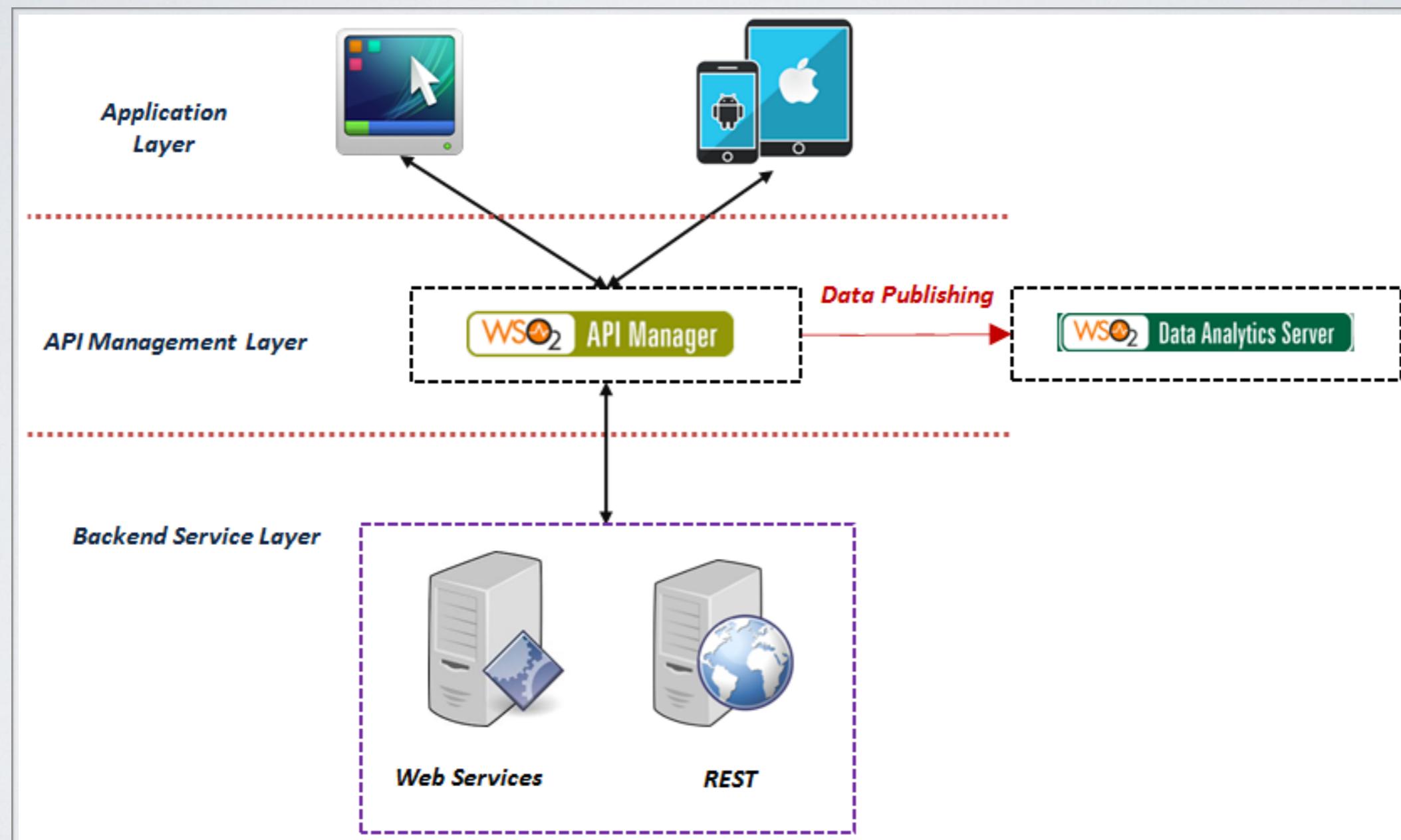
<http://dakshithar.blogspot.co.id/2015/09/wso2-api-manager-vs-wso2-esb-should-api.html>

SAMPLE: ESB - ENTERPRISE INTEGRATION PATTERN



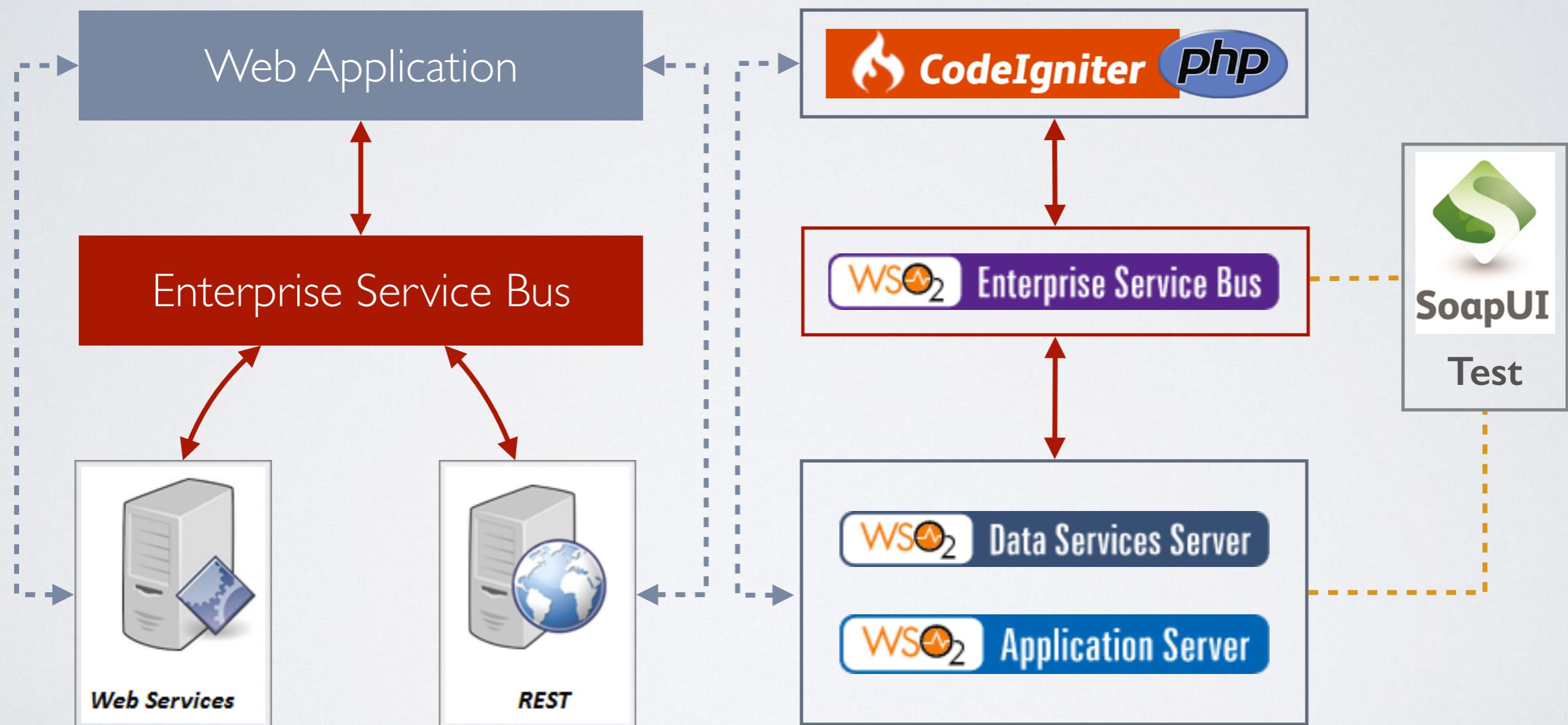
<http://dakshithar.blogspot.co.id/2015/09/wso2-api-manager-vs-wso2-esb-should-api.html>

SAMPLE: API - ENTERPRISE INTEGRATION PATTERN



<http://dakshithar.blogspot.co.id/2015/09/wso2-api-manager-vs-wso2-esb-should-api.html>

WS IN ACTION





Web Application Development Workshop

CodeIgniter

PHP Web Application Framework

More info

H M V C

Hierarchical M-V-C: Modular CI

More info

WebServices

SOAP / RESTful

More info

E S B

Enterprise Integration

More info

8 Des. 2015



Wellcome, Drink!! ^_^

09:00

Presented by: Muhammad **Hari** SuhartoFacebook: facebook.com/muhariharTwitter: [@muharihar](https://twitter.com/@muharihar)

CodeIgniter, Bootstrap & H M V C

09:05

CodeIgniter Versi 3.0.2

Bootstrap: AdminLTE

HMVC: Hierarchical model-view-controller

11 Des. 2015



AJAX CRUD, JQuery & DataTables

09:00

AJAX

JQuery

DataTables

MySQL

14 Des. 2015



Web Services, SOAP, REST & ESB

09:00

Web Services: SOAP & RESTful

Backend SOAP & RESTful: WSO2 Data Services Server

ESB: WSO2 Enterprise Service Bus

TERIMA KASIH

“to Improve is to Change,
to be Perfect is to Change Often”

— Winston Churchill
Former Prime Minister of the UK
(1874-1965)