



# Webshop Pencil

BTI7054 Web programming

Fabian Affolter

*affof1@bfh.ch*

January 18, 2014



- 1 Summary
- 2 Technologies
- 3 Features
- 4 Lessons learnt
- 5 Various

# Summary I



- Twitter Bootstrap
- Savant3
- PDF/JSON export
- Openstreetmap
- Openweathermap

# Summary II



- Email
- Message Queuing Telemetry Transport (MQTT)
- Sphinx for documentation
- Ansible for deployment

# Server



The web server was running in an LX container on a Linux host.

- Operating system: Fedora 20
- Kernel: 3.12.5-302.fc20.x86\_64
- LXC 0.9.0 & libvirt 1.1.3.2

# Services



- Lighttpd: 1.4.32
- PHP: 5.5.7
- MariaDB: 5.5.34
- Postfix: 2.10.2
- Mosquitto: 1.2.3



## gettext

- very popular in the open source world and OpenI18N standard
- optimized for speed
- translations are separated from the content

# PDF



## FPDF

- Sorry, are we back in 1999?
- easy to waste plenty of time while creating a page
- very unflexible



# Templating



## Savant3

- easy to implement
- very limited
- only used for a simple pages



## Openstreetmap and OpenWeatherMap

- no registration, no API key
- nice alternative to other services
- done by people for people

# MQTT messaging



## Mosquitto

- Alternative logging or monitoring system
- Wide range of possible applications
- Consumers can subscribe to specific topics



## Sphinx

- reStructuredText is easy to learn
- various output formats (html, latex, ePub, etc.)
- git hook for [readthedocs.org](https://readthedocs.org)



## Ansible and LXC

- a fast way to deploy the complete website
- LXC needs less resources than a full vm
- needs some additional steps to setup
- during development it's faster to edit the file directly

# Features

(acc. task numbers in project\_v05.pdf)



- 1.1 - 1.4: see documentation
- 2.1 - 2.2: see documentation
- 3.1 - 3.2: see documentation
- 4.2: see scripts/menu.php or scripts/page-elements.php
- 4.3: see products.php
- 5.1: see scripts/
- 5.2: hmmm, probably not done
- 5.3: see l10n.php (gettext is used)
- 6.1: is now add to cart
- 6.2: see l10n.php or billing.php
- 6.3: see billing.php (data is not proceed)
- 6.4: see billing.php (not complete)
- 6.5: done at various places
- 7.1: see tables.php (delete entry in db)
- 7.2: not done
- 7.3: see index.php/login.php
- 8.1: see index.php
- 8.2: replaced scripts/shoppingCart.php
- 8.3: see admin.php
- 9.1: see scripts/shoppingCart.php
- 9.2: see scripts/Product.php
- 10.1: see documentation
- 10.2: see documentation
- 10.3: see documentation
- 10.4: see tables.php
- 11.1: see about.php or documentation
- 12.1: not done, replaced with some JSON stuff
- 12.2: see overview-products.php
- 12.3: see terms.php (Savant3 template)
- 12.4: see product.php and billing.php

# Servers



- SELinux needs some additional treating
- the misuse of Ansible works fine
- a lot of components needs to work together

# PHP/Javascript/SQL/etc



- hotchpotch of languages/syntax
- old meets young
- less is often more



# Resources



- Git repository:  
<https://github.com/fabaff/ch.bfh.bti7054.w2013.p.shop>
- Documentation:  
<https://shop.rtf.d.org/>

# The last words...



- Author: Fabian Affolter
- License: BSD

This presentation is licensed under a Creative Commons  
Attribution-ShareAlike 3.0 Unported License.