MightyTyV.com

See how Perl, Catalyst and CPAN made it easy for two people to build an award-winning website in four weeks.
Who are we?

Leo Lapworth

Léon Brocard
What is MighTyV?
What is MighTyV?
How did it start?
It almost didn’t
Monday 25th July

BBC Announce the BBC Backstage competition

Deadline 5th of September
July/Aug

Leon and Leo have a life
So not entering competition
Okay, so Leon did TV::Anytime
Wednesday 31st Aug

BBC Announce extension to competition
New deadline 3rd Oct
We start coding in Braga
What was our aim?

Usable
Personal
Integrate

Feeds
Win
Sunday 4th Sept

First import of BBC & Bleb data (Class::DBI)

Catalyst

Basic search

To-do list
Creating a Catalyst project

> perl -MCPAN -e 'install Bundle::Catalyst'
> catalyst.pl Braga
> cd Braga
> ./script/braga_server.pl

You now have a running Catalyst server

Check into version control system (svk)
Wednesday 7th Sept

User system

use Catalyst::Plugin::Authentication::CDBI
Saturday 10th Sept

IMDB ratings and link
‘what’s on now’ search
‘films this week’ search
RSS (XML::RSS)
Wednesday 14th Sept

Add channel logos
(Image::Imlib2)

Today’s TV schedule
Monday 12th Sept

Tooltips on ‘Today’s TV’

Auto-complete on the search (HTML::Prototype)
Tuesday 13th Sept

Add user ratings
Wednesday 14th Sept

Series page
Genre Tag cloud (HTML::TagCloud)
Tags for series
Most popular tags tag cloud
Thursday 15th Sept

Rating for Series

Redesign database schema (watch out for this...)

‘your schedule’ (DateTime, DateTime::Span, DateTime::SpanSet).

Your schedule

Programs you want to record:

<table>
<thead>
<tr>
<th>Time</th>
<th>Program Title</th>
<th>Description</th>
<th>Record Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Today 19th 16:00</td>
<td>Monk</td>
<td>Mr Monk and the Game Show: Monk is invited to spend a week with Trudy's father...</td>
<td>Do not record</td>
</tr>
<tr>
<td>Today 19th 17:10</td>
<td>The F Word</td>
<td>The topical nine-part weekly food show hosted by Gordon Ramsay, aided an...</td>
<td>Do not record</td>
</tr>
<tr>
<td>Today 19th 21:10</td>
<td>CSI: Crime Scene Investigation</td>
<td>A connection is found between two very different cases...</td>
<td>Do not record</td>
</tr>
<tr>
<td>Today 19th 22:10</td>
<td>Law &amp; Order: Special Victims Unit</td>
<td>A mother asks for Benson and Stabler's help in finding...</td>
<td>Do not record</td>
</tr>
<tr>
<td>Today 19th 23:25</td>
<td>Stark Raving Mad</td>
<td>Ben McGewen is heavily in debt and under pressure from a crime...</td>
<td>Do not record</td>
</tr>
<tr>
<td>Today 19th 23:50</td>
<td>Jamie's Great Escape</td>
<td>Jamie Oliver is travelling across Italy to learn more about the country...</td>
<td>Do not record</td>
</tr>
<tr>
<td>Tomorrow 20th 16:45</td>
<td>The View from River Cottage</td>
<td>Hugh Fearnley-Whittingstall continues his retrospective as...</td>
<td>Do not record</td>
</tr>
<tr>
<td>Tomorrow 20th 17:20</td>
<td>The F Word</td>
<td>The topical nine-part weekly food show hosted by Gordon Ramsay, aided an...</td>
<td>Do not record</td>
</tr>
<tr>
<td>Tomorrow 20th 17:50</td>
<td>Bremer, Bird and Fortune</td>
<td>His master's voices, Rory Bremner and Messrs Bird and Fortune...</td>
<td>Do not record</td>
</tr>
<tr>
<td>Tomorrow 20th 21:00</td>
<td>Egypt</td>
<td>The Temple of the Sands: The amazing adventures of the 19th century explorer...</td>
<td>Do not record</td>
</tr>
</tbody>
</table>
Saturday 17th Sept

Clashes

Recommendations

(Search::ContextGraph)

Your recommendations

Based on program genre and tags - most-recommended programs are listed first.

<table>
<thead>
<tr>
<th>Time</th>
<th>Channel</th>
<th>Program</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>19:00</td>
<td>ITV</td>
<td>UFO</td>
<td>A Siamese cat brings sinister drama to the life of a Shado pilot. Drama, starring Ed Bishop and Georg...</td>
</tr>
<tr>
<td>21:40</td>
<td>C4</td>
<td>Carrie and Barry</td>
<td>Casualties: Carrie and Barry are in a car accident and recover in hospital. Carrie pieces t...</td>
</tr>
<tr>
<td>20:00</td>
<td>C4</td>
<td>Carrie and Barry</td>
<td>Casualties: Carrie and Barry are in a car accident and recover in hospital. Carrie pieces t...</td>
</tr>
<tr>
<td>23:05</td>
<td>ITV</td>
<td>Timecop</td>
<td>Logan travels to 1956 Hollywood to prevent the murder of an actress destined to be the mother o...</td>
</tr>
<tr>
<td>19:00</td>
<td>C4</td>
<td>American Dad</td>
<td>Roger Codger: Stan invites his boss over for dinner, but the Smith family fears getting cau...</td>
</tr>
<tr>
<td>23:25</td>
<td>C4</td>
<td>3rd Rock from the Sun</td>
<td>Mary finds out about Dick and Jennifer, just as he's losing interest in pursuing the ...</td>
</tr>
<tr>
<td>17:30</td>
<td>C4</td>
<td>Don't Watch That, Watch This</td>
<td>2/6. More comedy from the Don't Watch That, Watch This look-a-likes. Ge...</td>
</tr>
<tr>
<td></td>
<td>C4</td>
<td>Friends</td>
<td>Phoebe and Rachel suspect Chandler of cheating on Monica.</td>
</tr>
</tbody>
</table>
Sunday 18th Sept

Redesign database schema

Add series for EVERY program
Monday 19th Sept

Add EyeTV integration (Mac::EyeTV)

Redesign database schema... yes... again
Tuesday 20th Sept

Customise channel list (using AJAX)
More RSS

Choose your channels

Drag from ‘All channels’ to ‘Your channels’, or from ‘Your channels’ to the trash to remove them.
Reorder them here if you want

<table>
<thead>
<tr>
<th>Your channels:</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="BBC ONE" /></td>
</tr>
<tr>
<td><img src="image" alt="five" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>All channels:</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="ITV1" /></td>
</tr>
</tbody>
</table>
Wednesday 21st Sept

Add iCal (Data::ICal::DateTime) and JSON (JSON) support

Wow, now almost everything had RSS and JSON support
Thursday 22nd Sept

Users can add their own photo

Timezones (the clocks were about to change)
Saturday 24th Sept

Add auto-complete for tagging
Monday 26th Sept

Delete tags
External Javascript schedule
Fix bugs (reported by our test users)
Tuesday 27th Sept

Start Blog

Order your channels (AJAX)
Thursday 29th Sept

Gmail snippets

Fix bugs (reported by our test users)
Friday 30th Sept

Add tag with spaces
“new york” (Text::Tags::Parser)
Monday 3rd Oct

Entered our entry to the competition

And then rested
Thursday 13th Oct

Now rested...

Add More 4 (new TV channel)
Wednesday 26th Oct

BBC announce that we won

BACKSTAGE BLOG

Backstage competition winners announced

A while back now we asked you to submit ideas to rethink how to present TV and Radio listings using the TV anytime data and other relevant feeds.

The response was magnificent and thanks again to everyone who took the time and effort to submit entries. But on to the bit you really want:

The winners of the first Backstage competition are...

Leon Brocard and Leo Lapworth for
http://www.mightyv.com/
Monday 7th Nov

Added ITV 4

Highlighted recorded programs
What we learned

Spend a bit of time upfront designing your database.

Imports are hard and take a long, long, long time to get right

Data is *always* bad, make *no* assumptions

Focus on what the user wants

Priorities..
CPAN Modules

- Catalyst
- Catalyst::View::TT
- Catalyst::Plugin::Authentication::CDBI
- Catalyst::Plugin::FillInForm
- Catalyst::Plugin::FormValidator
- Catalyst::Plugin::Prototype
- Catalyst::Plugin::Session::FastMmap
- Catalyst::Plugin::Static
- Catalyst::Plugin::SubRequest
- Class::DBI
- DBD::mysql
- DBI
- Data::ICal::DateTime
- DateTime
- DateTime::Duration
- DateTime::Format::ISO8601
- DateTime::Format::MySQL
- DateTime::Span
- DateTime::SpanSet
- Digest::MD5
- Email::Valid
- Encode
- HTML::Prototype
- HTML::TagCloud
- Image::Imlib2
- JSON
- List::MoreUtils
- LWP::Simple
- Lingua::EN::Numbers::Ordinate
- Mac::EyeTV
- Net::DNS
- SQL::Abstract
- Search::ContextGraph
- Template
- Template::Plugin::Cycle
- Test::WWW::Mechanize::Catalyst
- Text::ASCIITable
- Text::Tags::Parser
- XML::RSS
Questions?

http://www.mighTyV.com/