

# Course Notes: Modern Web Development with Perl

Ambassadors Hotel – 11/12<sup>th</sup> February 2016

## Schedule

9:15 – 09:45	Registration & Refreshments
09:45	Tutorial starts
11:15	Tea, coffee & biscuit
13:00	Lunch
14:00	Tutorial starts
15:30	Tea, coffee & biscuits
17:00 (approx)	End of tutorial

## Course Tutor

Your course tutor will be Dave Cross of Magnum Solutions. Please email him if you have any further questions – [dave@mag-sol.com](mailto:dave@mag-sol.com).

## Practical Exercises

This course will include practical exercises. In order to take part in these exercises, you will need to bring a laptop. We will supply power points and a wireless network.

The course is not at all operating system specific.

## Software

You will need the following software installed on your laptop:

- Perl  
A recent Perl (5.10 or higher) is required. Mac and Linux laptops will almost certainly have Perl installed already. For Windows users, we recommend installing Strawberry Perl from <http://strawberryperl.com/>
- Text Editor  
Perl programs are best edited in a text editor like emacs or vim. Both of these editors are available for most platforms. Other editors are available. If you have no preference then you might consider trying Padre from <http://padre.perlide.org/>
- Web Server  
For the deployment examples, you will need a web server installed on your laptop. We recommend that you install Apache (<https://httpd.apache.org/>) and it will also be useful to have nginx (<https://www.nginx.com/>) available.
- Database  
One session covers building web services based on a database, so you will need a database system installed on your laptop. The examples will be using MySQL, but SQLite or PostgreSQL will also work perfectly well

During the course there will be limited time to install and configure this software, so please ensure that it is all installed and that you know how to use it before arriving at the course.

## ***Perl Libraries***

In addition to the libraries included with the standard Perl distribution, we will be covering a few other Perl modules. These are:

- CGI
- Plack
- Template Toolkit
- Dancer2
- Plack::Middleware::Debug
- Plack::Debugger
- HTTP::Request::Common
- CGI::Emulate::PSGI
- CGI::PSGI
- DBI
- DBD::\*
- DBIx::Class
- DBIx::Class::Schema::Loader
- Dancer2::Plugin::DBIC
- Dancer2::Plugin::REST
- Web::Machine
- WebAPI::DBIC
- Catalyst::Runtime
- Catalyst::Devel
- Catalyst::Manual
- Catalyst::View::TT
- Catalyst::Plugin::AutoCRUD

In order to participate in all of the practical sessions, you will need to have these modules installed. Many Linux distributions will have pre-built packages for these modules. Alternatively, you can install them using `cpan` or `cpanminus`.

For the database exercises you will also need the database driver that matches the database that you have installed. For example, if you are using MySQL then you will need `DBD::mysql`. Please ask if you have any further questions on this.

I look forward to seeing you on February 11<sup>th</sup>.