Technology Consulting In The **Community**

CMSs,
Open Source,
Hosted &
Cloud-Based Applications

Content Management Systems

- Fast, easy, lower cost ways to create and maintain information on the web
- Alternatives to build

Types of CMSs

- Portals
- Blogs
- E-commerce
- Intranets / Groupware
- Discussion boards
- Guestbooks
- Mailing lists
- E-learning

- Image galleries
- Wikis
- Calendars
- Customer relationship management (CRM)
- Document workflow management
- Polls and surveys
- Project management

Architecture of a typical CMS

- Programming
  - PHP, PERL, Java, VB.NET, ASP.NET, JavaScript
- Database
  - E.g. MySQL, PostgreSQL, Oracle, SQL Server, MongoDB
- Display
  - HTML, Cascading Style Sheets (CSS)
- Content
  - User generated

CMS Benefits - Features

- Comes with immediate capabilities, e.g.
    - Calendaring
    - Document management
    - Authentication
    - Membership management
    - And other functions from previous slide
- Easy to install
- Easy to update
- External support can be hired for problems

CMS Benefits - Sustainability

Technically simple Frequently updated

- Content
  - Updateable by user organization
  - Without requiring HTML skills
- Display
  - Typically have templates to choose from
  - More customized look can be done once
- Programming / Database
  - Updated regularly by vendor, or FOSS community
  - Specialized help can be hired for only these upgrades

Technically harder Infrequently updated

WordPress

- pcc.palau.edu
- pitt.cisvusa.org
  - Theme from themeforest.com
- sapen.org
- palaufiu.org
- rmibankingcomm.org

Education example

- Moodle - deployed by student consultants:

    (Like Blackboard or Canvas)

    – Local elementary school
    – Cook Islands Ministry of Education

Commercial CMSs

- Benefits of Commercial CMS
  - More consistent help-desk support
- E.g. Atlassian Confluence
    - $$$
    - Used by Facebook, Skype, Microsoft, Adobe, and others.
- E.g. Microsoft Sharepoint
  - Full functioned
  - But a confusing and potentially expensive set of requirements

Levels of hosting service

- Own server
- Web hosting service
- Application hosting
  - I.e. Software as a Service (SaaS)

Own server

- Can run any FOSS or commercial software you like
- Often higher total-cost-of-ownership
- Higher security risk
  - If fall behind with software updates

Hosting service

- Low monthly or yearly fees
  - DreamHost.com – free for 501(c)3 orgs
- No server maintenance required
- Install your own applications
  - Requires expert knowledge to update
- With application installation support
  - Update (mostly) works without expert knowledge

DreamHost 1-Click Installs

DreamHost Install WordPress

Updates <u>within</u> WordPress

WordPress Updates

Last checked on February 6, 2013 at 2:16 am. | Check Again |

Important: before updating, please back up your database and files. For help with updates, visit the Updating WordPress Codex page.

An updated version of WordPress is available.

You can update to WordPress 3.5.1 automatically or download the package and install it manually:

| Update Now | | Download 3.5.1 |

While your site is being updated, it will be in maintenance mode. As soon as your updates are complete, your site will return to normal.

Plugins

The following plugins have new versions available. Check the ones you want to update and then click "Update Plugins".

| Update Plugins |

SaaS (Application hosting)

- Often per-user subscription fees
  - May have entry-level free accounts
- No maintenance fees
- No maintenance expertise required
- They support the application

East Liberty Development Inc.

- Non-profit Community Development Corporation
- Does real estate development
- Needed a way to coordinate project management while rehabilitating multiple properties
- Used hosted solution Ace Project
  - aceproject.com

SalesForce

- Hosted Customer Relationship Management (CRM) application
  - I.e.
    - Keeping track of donors
    - Keeping track of clients or constituents
    - Keeping track of members

- SalesForce Foundation
  - Provides free licenses to qualifying U.S. non-profit organizations
  - So no server, no software, no maintenance needed

- Lock-in risk:
  - currently expected to be free forever.
  - All data can be exported as a Comma Separated Value (CSV) file

G Suite for Nonprofits

- http://google.com/nonprofits
- Features
  - Gmail
  - Google Calendar
  - Google Drive
  - Google Docs / Sheets
  - Google Ads
- Free

Wix / Squarespace

- Web site design, editing, and management as a service.
- E.g. tcingc.org