



# Content Management System

## ADA Compliance Sustainability

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<https://cms.ctahr.hawaii.edu>

# CONTENT MANAGEMENT SYSTEM (CMS)

- \*Enterprise Content Management (ECM)
- \*Web Content Management (WCM)



# ENTERPRISE CONTENT MANAGEMENT

An Enterprise software application  
or a set of programs

Creation, Security, Flow and Retention  
of digital content or digital assets

Documents, Images, Videos,  
Information stored in databases



# DIGITAL ASSETS

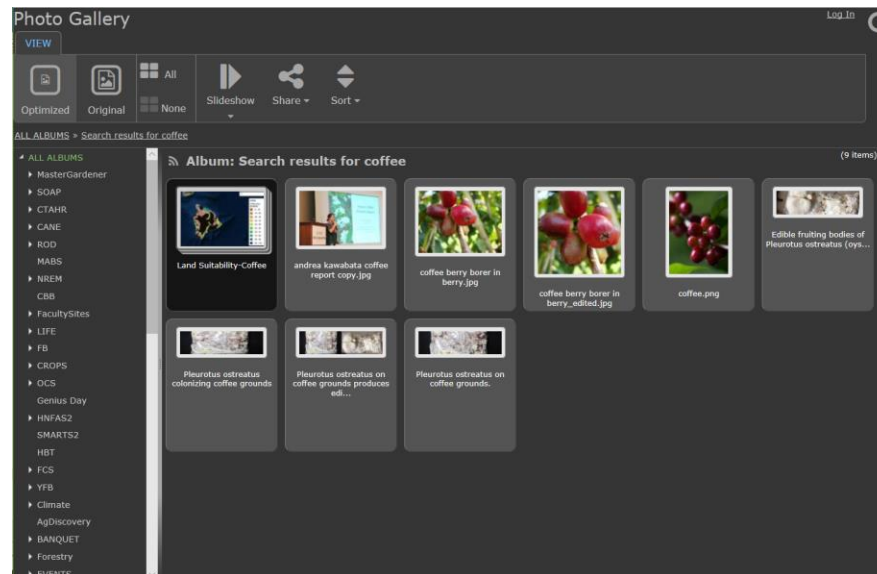
## Media Server

Repository of Photos, Videos, Documents

<https://gms.ctahr.hawaii.edu/photo.aspx>

<https://gms.ctahr.hawaii.edu/video.aspx>

<https://gms.ctahr.hawaii.edu/doc.aspx>



# DIGITAL ASSETS

## Database Server

REPOSITORY OF INFORMATION

DYNAMIC WEB PAGES

[Faculty/Staff Information](#) [On-line Directory](#)

[Crop Information](#) [Courses](#)

The screenshot shows the 'DEPARTMENT OF Natural Resources and Environmental Management' page. It features a navigation bar with 'HOME + UNDERGRADUATE + GRADUATE + COURSES + PEOPLE ABOUT + URIM + Q'. Below the header, there are links for 'Faculty | Staff | Graduate Assistants | Affiliates' and a search box. The main content area lists faculty members: 'Carlson, Kimberly' (Assistant Professor), 'Chan, Catherine' (Professor & Chair), and 'Cole, Rebecca'. Each entry includes contact information and a brief description of their 'Special Skills and Knowledge'.

The screenshot shows the 'Fruits' database page. It features a 'View Various Fruits' link and a 'Select a Fruit below:' dropdown menu with options: 'Indian Mulberry', '\*\*Morinda Citrifolia L.', 'Jaboticaba', '\*\*Myrciaria cauliflora', 'Lychee', '\*\*Litchi Chinensis', 'Papaya', '\*\*Carica papaya L.', 'Pawpaw', and '\*\*Carica papaya L.'. The page is titled 'Fruits' and includes a section for 'Jaboticaba, Brazil grape tree' with details on its family, genus, and species. It also lists 'ENVIRONMENTAL FACTORS' such as 'Climate', 'Elevation', and 'Soil'. A table with tabs for 'Cultural Prac', 'Harvesting', 'Pests', and 'Diseases' is present. The 'Varieties & Cultivars' section lists 'Myrciaria cauliflora cultivars include 'Paulista', 'Rajada', 'Roxa', 'Ponhema', 'Mineira', 'Branca', 'Sabara', precoce, hibrida, 'Ascuda', pingo de mel, (Brazil) younghans, 'Sabara', and 'J1' (Australia)'. The 'Fertilizer' section states that in Hawaii, 8-8-8 or 6-6-6 has been applied quarterly. The 'Cultivation' section describes the tree's growth and fruiting habits. There are two images: one of a hand holding a Jaboticaba fruit and another of a Jaboticaba tree. The page also includes an 'ALBUM' section.

<https://cms.ctahr.hawaii.edu/nrem/PEOPLE.aspx>

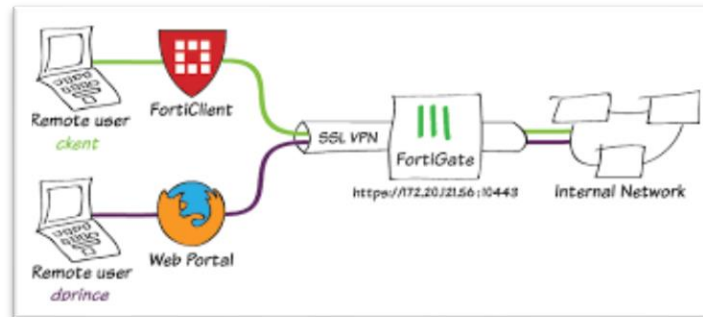


# DIGITAL ASSETS

## File Server

Non-public consumption

Restricted  
Access via encrypted tunnel thru  
Firewall



# WEB CONTENT MANAGEMENT

## Facilitates collaborative website

- Authoring
- Management

DNN Evoq, WordPress, Joomla, Drupal



# DNN EVOQ

## CTAHR's WMS (2010)

- Security is the #1 focus point of platform & on supported modules
- Ability to build complex as well as simple sites; built-in authorizations
- Modules - data across pages & sites easily
  - i.e. news: on [home page](#)
  - news: on [Employees page](#)
  - news: in multiple sites [HNFAS](#)  
[FCS](#)





# DNN EVOQ

Create dynamic web pages access same database with varying presentation to different audiences

The image displays two overlapping screenshots of a web application. The foreground screenshot shows a detailed page for 'Jaboticaba (Brazil Grape Tree)'. It includes a sidebar menu with categories like 'Fruits', 'Vegetables', and 'Native Plants'. The main content area features a title, scientific name, and a table of characteristics and harvest information.

Characteristics	Varieties	Diseases	Insects	Sources
Harvest	Plant Size (average feet)			Up to 25 feet
	Days to Harvest (Lower Limit)			8 years from planting
	Days to Harvest (Upper Limit)			
	Harvest Crop Size (average inches)			0.5-3
	Harvest Crop Size (average lbs)			0.5-3
	Harvest Color			Dark purple/Black
	Soil pH (Lower Limit)			5.5-6.5
	Soil pH (Upper Limit)			5.5-6.5
	Sun/Shade			Full sun
	Dry/Wet Conditions			Full sun

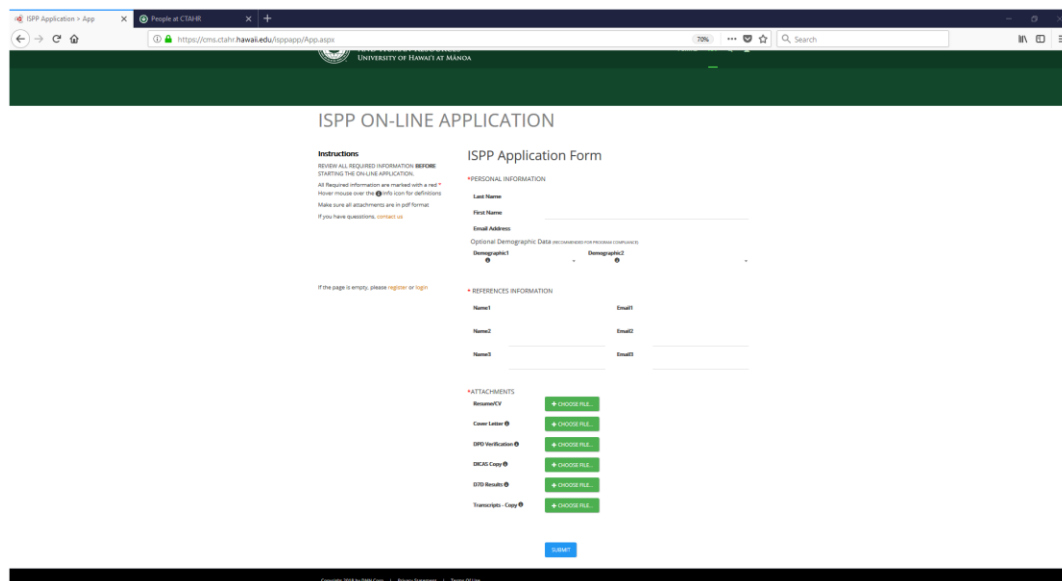
The background screenshot shows a 'Fruits' page with a search bar, a list of fruits, and a detailed view for 'Jaboticaba, Brazil grape tree'. This view includes taxonomic information, environmental factors, and tabs for 'Cultural Prac', 'Harvesting', 'Pests', and 'Diseases'. It also features an 'ALBUM' section with images of the fruit and tree.



# DNN EVOQ

Generate sites with secure controlled access to

- Forms
- Data collected
- Files uploaded  
(control types of files uploaded)



The screenshot shows a web browser window displaying the 'ISPP ON-LINE APPLICATION' form. The browser's address bar shows the URL 'https://oms.ctahr.hawaii.edu/ispp/ISPPApp.aspx'. The form is titled 'ISPP ON-LINE APPLICATION' and 'ISPP Application Form'. It includes several sections: 'Instructions' with a red asterisk indicating required information, 'PERSONAL INFORMATION' with fields for Last Name, First Name, and Email Address, 'REFERENCES INFORMATION' with three rows for Name and Email, and 'ATTACHMENTS' with a list of documents (Resume/CV, Cover Letter, ISPP Verification, ISPP Copy, ISPP Results, Transcripts - Copy) each with a 'CHOOSE FILE' button. A 'Submit' button is located at the bottom right of the form. The footer of the page contains copyright information: 'Copyright 2018 by ISPP Corp. | Privacy Statement | Terms Of Use'.



# SUPPORT/MAINTENANCE

- Website Hosting, Media/File server access  
CTAHR Faculty/Staff (indiv, project sites)
- Set-up/design - Administrative Units/Depts,  
Extension State-wide programs sites
- WMS ADA compliant  
Periodic spot-checks on hosted sites



# SECTION 508 REFRESH OF REHABILITATION Act of 1973

**Compliance required – Jan 18, 2018**

All public facing UH content must conform to  
Web Content Accessibility Guidelines  
WCAG 2.0 - Level A and Level AA  
([this covers most intranet content also](#))



# GUIDELINES/POLICIES

## WCAG 2.0

### Web Content Accessibility Guidelines

UH Guidelines: <https://www.hawaii.edu/access/ImplementationPriorities>

Resources: <https://www.hawaii.edu/access/resources.html>

18F (Office w/in General Services Admin)

Accessibility Guide <https://accessibility.18f.gov/>

A- CRITICAL <https://accessibility.18f.gov/checklist>

B- Less Critical

C- Minor



# COMPLIANCE RESOURCES

Scanning Tool: <http://wave.webaim.org>

Errors in Styles, Contrast

Images must provide an alt tag or title describing the image

Font size, Color contrast

Videos must be captioned

Captioning Resources: <https://www.Hawaii.edu/access/resources.html>

Do it yourself:

[https://support.google.com/youtube/topic/7296214?hl=en&ref\\_topic=3014331](https://support.google.com/youtube/topic/7296214?hl=en&ref_topic=3014331)

Pay for service: <https://www.rev.com/services>

Pdfs & other documents (creating accessible documents)

<https://www.hawaii.edu/access/docs.html>

[“If you require information in an alternative format, please contact us at: xxx”](#)



# COMPLIANCE RESOURCES

The UH Communications office will host a presentation/demonstration regarding Adobe Acrobat PDF How to test & make pdfs accessible

## **Live Streaming**

The event will be live-streamed for those who can't attend in-person. It will also be posted online at a later date.

<http://www.hawaii.edu/itunesu/video-op-live/?MAPDACL.sdp>

**Friday, Feb 9 / 9:00 – 11:15**

**UH Mānoa in-person sign-in at 8:45**

**ITS Building, Rooms 105A and 105B**



# SUSTAINABILITY

- CMS ADA COMPLIANCY  
Platform/modules
- CMS SECURITY
- COLLABORATION/SHARING OF DATA





# QUESTIONS?

