Web Environment

Product Choices

- WordPress-SharePoint
- .net
- Drupal
- Joomla
- **Atlasion**

Additional Items for Portal

Web Hosting Services

Domain (name)@woodbufalo.ca or gc.ca

FTP Access or Server

Secure Site Environment

SharePoint Server if desired.

Note:

WordPress is a good choice for development *prebuilt themes* are very affordable. Starting about \$90,00 dollars u.s. The company owns a large potion of the development world Generaly upgrade migrations are questionable to fair results, not manditory but if you upgrade could be a problem. Works well with SharePoint. .net is a good choice complicated but secure.

UX Stage

Users - Who, When, Why, Type of Use, Level of Access,

Site Access		Portal Access	
1	Delta Institute	X	Full Content add
2	Community	X	Partial Content add
3	WBNP	X	Partial Metrics, Analytics
4	SEA	X	Full Metrics Analytics
5	Scientific	X	Full Data Content add, edit, Delete?
6	Federal/Provincial	X	?

Types of Content

Historical, Spiritual, Cultural, Social, Housing, Special Events Shared Content. Earth Sciences - Hydrology, Atmospherics, Air Quality, Forestry Management Types of Information - PDF, Wordfiles, Images, Spreadsheets, Graphs, Meta data Animal, Fish, Fowl - Migrations, Populations

UI Stage Navigation Main Content Area **Portal Access**

Core User interface Languages.

Basic Bootstrap Wordpress Theme

- PHP/HTML 5 Markup
- Javascript
- 4 CSS, LESS, SASS
- 5 PHP controls for special behaviour.

Could haves:

Python Geomapping Java complex algorithms Angular inner applications React development speed Redeux simular to React

Browser dependant for products and OS

Cloud Services

AWS

Google

Action Plan

Delta Institute

Wood Buffalo

Location Types (B)

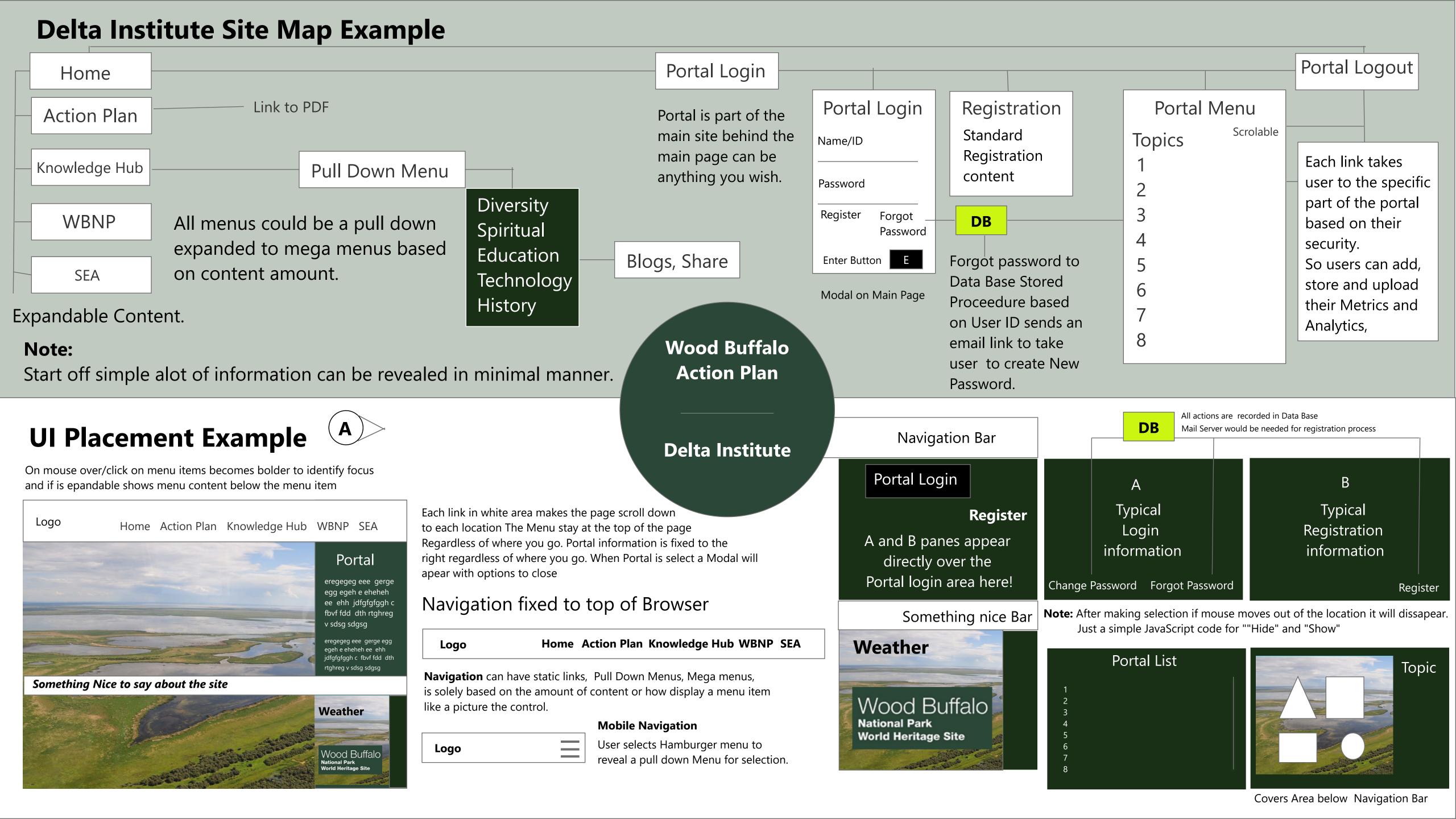


Local

- **Closet Space**
- 2 Band Width
- 3 Server Equipment

Oracle....many others Dell EMC PowerEdge T340 5U Tower Server 1 x Xeon E-2234 8GB 1T B 1TB HDD ATA XDX

- \$1,758.99
- 4 Operating System Apache, Windows, Oracle, Linux
- 5 Software Web Services, Database Sevices FTP, SSL, HTTP etc...
- 6 Backups Onsite tape recording, Off site Service should have both.



Off Site

Note:

Suggested Vendors that will be capable to either do it all or Farm each part out based on SLA.

Vendor controls all aspects of the

Full Stack Development Cycle Delta Institute members
can access it any time to gather metrics update content or
send in change requests based on SLA agreement.
or Vendor adds updates to your web server
and post it on the cloud.

Cloud

Amazon Cloud Services the duplication

Google of the Static location.

Oracle Can do full service based on SLA.

Data Server

SQL Server, Oracle, Mongo DB (works well with PHP)
Licences apply based on usage.

File Server

Main OS File structure.
Search, Backups Tape drives,
Raid Arrays, Robotics, IT member.

Off Site Backup

Backups Tape drives, Raid Arrays, Robotics, IT personel.

OnSite (B)

FTP

MS

WS

All equipment is at the Delta Institute with the following Small IT Department 1-2 people
Web Master 1 person

- 2 UI Web Developers, 2 Database Developers,
- 1- Information Architect, 1- UX Developer
- 1 Content Developer, 1 Technical Writer

File Transfer Protocols

Onsite Webmaster would FTP content to the file server Scientist could update there pages this way as well. Other option a VPN connection to Delta Institute.

Mail Server (exchange)

This would provided by an Internet Provider main vendor in this case Provincial Telus, Shaw? The use of this is comms from all the users Forgot password, Change Password, Register, Special events, Alerts.

Web Server Site Hosting (Domain)

On site Webmaster resposible for Web activities As well as a Database specialist to assist the webmaster.

(name)@WoodBuffallo.ca stored at providers location.

Main Website and Portal location that commiunicates to the Database

Either On Site or Off Site or in Cloud

Content Management System WordPress

CMS

Firewall

Wood Buffalo

Action Plan

DB

Delta Institute

VPN

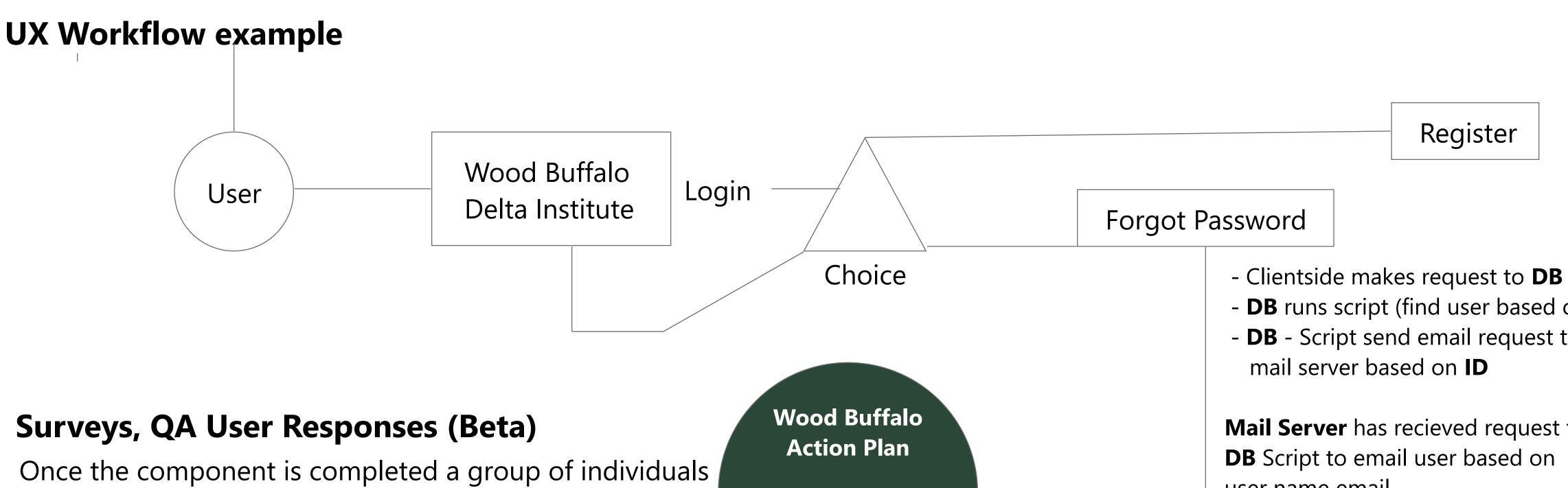
DS

FS

Tape drives

Raid Arrays

This the core **CMS** for managing content images, uploads, Analytics Metrics.
This would part of the file system



Delta Institute

To grade the experience:

Content Clear, Helpful, Layout (pleasing to the eye), Speed, Response time for the Email, Ping to-from server to respond to new password entered. to login to Portal.

Quality Assurance For WCAG Accessibility Bill C-81

are assigned to Review the User Experience.

Must meet 38 compliances for wcag 2.2 should also have keyboard only access and work with a screen reader.

https://www.w3.org/TR/WCAG21/

- **DB** runs script (find user based on **ID**)

- **DB** - Script send email request to mail server based on **ID**

Register

Mail Server has recieved request from **DB** Script to email user based on user name email.

Email contains:

Standard letter head Wood Buffalo credentials with a common statement. Instructions to go to link. Link takes user to the Site with a box above the web site called a Modal Where user makes password change Submits the change Via PHP, JavaScript On submit Pings Server A message appears that the Password has been changed and unlocks the Login button,

Knowledge Hub

Why is Knowledge Base Indispensable in This Day and Age? Knowledge Base Types Characteristics of an Ideal Knowledge Base How to Create a Knowledge Base in Seven Simple Steps

- 1. Know Your Customers
- 2. Develop a Strong Structure
- 3. Write Knowledge Base Articles
- 4. Add Visuals at the Right Places
- 5. Work on Its Searchability & SEO
- 6. Review, Revise, & Publish
- 7. Measure Effectiveness & Improve Performance Knowledge Base Best Practices Knowledge Base Templates & Examples

https://www.proprofs.com/knowledgebase/blog/how-to-create-a-knowledge-base/



Delta Institute







13 Data Centers across four continents for ultimate performance and availability
Customized and Tailored Made VPS Hosting to fit your needs
Scalability: Allows you to quickly add load balancers, firewalls, private networks and apps such as: pfSense, Docker, CPanel,
Drupal, Jenkins, WordPress, Magento, node.JS and many more.
All SSDs with UNLIMITED TRAFFIC. 99.95% Up-Time Guaranteed
Scale across hundreds of servers in seconds
Billing options – Per Month or Per Day
24/7/365 Tech Human Support

Cloud Computing Service Provider

30 Day Free Trial to test the services

Cloud Service providers are vendors which provide Information Technology (IT) as a service over the Internet. Cloud computing is a term which is used for storing and accessing data over the internet. It doesn't store any data on the hard disk of your PC. Cloud companies helps you to access your data from a remote server.

Cloud computing companies services range from full application development platforms to servers, storage, and virtual desktops. Here is a handpicked cloud service providers list. This cloud provider list contains various types of cloud computing services





