Notes – Cat’s Creations Wordpress Site

**Your First Web Development Project**

***The Checklist***

You are about to embark upon your first web development project. Congratulations! This article will present a checklist of items that you will need to ensure the successful completion of the project. Every project is different. Some items may not apply, while others may be missing. Hopefully, I’ll cover all of the most important things.

Without any further delay, here is the checklist:

☐Understanding the project’s purpose

***Understanding the project’s purpose***

When engaging a new client, it is important to understand what they intend to launch and, most importantly, for what reasons. You should ask them who the intended audience is and, whenever a feature is described, think about that feature from the perspective of the audience. Remembering who the audience is will help you develop a site that is usable, informative and accessible. If you are not clear on how or why a requested feature benefits that audience, you should clarify the matter with your client. You may discover that the project is targeted towards two or more distinct audiences. If you have clarity on this matter, it will help you to organize the site’s features so that each audience can easily access what matters most to them.

☐Make a site map

***Make a Site Map***

A well-organized web site makes each feature easily locatable. When organizing the site, think about all of the web pages that can be accessed. Some pages will be accessed by clicking a link, others by clicking a button, while others may be accessed via a menu navigation.

It helps to create a graphical diagram of the web site to help the stakeholders visualize how it is laid out. The first accessible page of the web page — sometimes referred to as the **landing page** — would be represented as the top- most destination of the web site (Figure 1 – sample site map).

The **back pages** are all of the web pages accessible beyond the *landing page*. If the project makes use of a **responsive design**, test the template on a few mobile devices to verify that it renders as expected.

The site map does not specify all of the navigation. It only itemizes the organization of individual pages. It is perfectly normal to provide for multiple entry points to any single destination web page.

☐Are you working with a designer?

***Working with a Designer***

If you are working with a designer, the site map can be a tool to help everyone decide on the aesthetics for each of the web pages. However, you may be one of the rare professionals who is capable of doing the design work, in addition to the web programming. You should work with the client in developing a mock-up for

the *landing page* the *back pages*

It is quite possible to have more than one design for two or more of the *back pages*. Design a mockup for the *landing page* and a representative mockup for each of the *back pages* that requires one. Each mock up should be approved by the client before any significant programming begins. Small changes are possible later, but dramatic design changes can be costly.

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As each mockup is completed, consider maintaining it in a **version control system** (or **VCS**), like **git**. When the mockups are approved, have each design converted into a template consisting of HTML and CSS. The templates should also be maintained in the VCS. When web development begins, the templates can be used as the starting point for each web page (Figure 2 – Create templates for each web page.).

**Search Engine Optimization**

Search engine optimization is expected by many clients. This will ensure that their new web site has maximum web exposure. SEO can consist of:

optimizing web site markup

use of online ad campaign management promotion strategies

If you are not the designer, work with the designer to ensure that your web programming is compatible with the SEO activity that the designer is coordinating with the client. It is important to be aware that many hosting services offer SEO features that assist with the site’s promotion.

**☐Complete the front page design**

\*FAQ page

**☐Complete the back page design**

☐Search engine optimization (SEO)

☐Where is the site hosted? (self-hosted or hosting service)

***Site Hosting***

Determine where the web site will be hosted. In general, it will be hosted in-house with the client, or by a hosting service. It is important to obtain the login information to access the server where the web site will be running from. There may also be additional servers involved such as a database server. Make sure that you are able to log on to each server, should you need to do work on them.

If you are developing for a new project, make sure that the hosting platform supports the technologies you intend to use. When your client is evaluating web hosts, you should be involved in the selection process to ensure that the software stack you need is supported. If some of the technologies required are not pre-installed, determine if the client’s hosting package includes the option of installing what is missing. It is important to recognize that on many shared hosting plans, the hosting service may restrict modifications that could potentially impact other customers’ web sites.

☐Database

**Databases**

When working with client databases, you should avoid modifying the production database until you are absolutely sure that the desired changes have been tested successfully. This includes schema changes, as well as modifications to database records. It is preferable that you have access to a development database to work with. If it is not accessible, speak with your client about having a copy of the production database created to use for development purposes.

☐Upkeep of site content

**Site Maintenance**

After the project is completed, there will still be databases to back up, software upgrades and patches to install, and other administrative chores that will be necessary. It is essential that the site is hosted in-house or elsewhere, you and your client must be clear on who will be performing these tasks. Hosting services often provide these services.

However, it depends on the hosting service that is subscribed to. Sometimes, the hosting services requires the customer to perform all backups. You do not want is to experience a database crash, and discover that no backup exists.

It is also important to know who is listed as the technical contact for domain names. When a renewal is needed, the hosting service is only authorized to speak with the contacts on record.

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**Know Your Support Team**

It takes many people to keep a web site running and the Web development of a site is just the beginning. It is important to have a point of contact for the internal data center team, or the technical support team from a third party vendor. This person will be able to respond to any matter requiring their assistance. For customer-facing challenges, know who from your client picks up the phone or answers their email. If you are willing to partner with these people, they will partner with you.

☐Software licenses

***Software Licenses***

Software licenses are assets that are maintained by the client. Many third party software libraries require a license and it is useful to know who maintains them. New software purchases should be done by the client. They will want to maintain ownership after the project is over, or if you end up leaving the project.

☐Does the site feature social networking?

***Social Networking***

If you are considering the integration of popular social networks, it is important to think about how that audience fits in with the service your web project is offering. Social networking fulfills a very specific purpose and should be used in the manner in which it is intended.

**Sharing**

The obvious benefit of integrating social networking into your web site is the ability to share news, commentary and end user activity.

Twitter [https://about.twitter.com/resources/buttons – follow](https://about.twitter.com/resources/buttons%20-%20follow) Facebook <https://developers.facebook.com/docs/plugins/> Google+ [https://developers.google.com/+/web/](https://developers.google.com/%2B/web/)

☐Single sign-on

**Signing On**

If the web site requires a user to log on to access some of the content, think about the tradeoffs between implementing your own sign-on feature and utilizing the sign-on of a social network. You may decide to provide both options. The convenience of plugging in login capability from a social network is something many end users would appreciate.

Social networks, however, have their own privacy policies, so you should familiarize yourself with how these policies affect your end users.

Twitter <https://dev.twitter.com/web/sign-in>

Facebook <https://developers.facebook.com/docs/facebook-login/> Google+ <https://developers.google.com/identity/choose-auth>

☐Integration of updates

☐Is the site conducting e-commerce?

***E-commerce***

**System Requirements**

If your project is for online shopping, the first consideration is the e-commerce solution that you intend to use. Many web hosting services offer e-commerce solutions right out of the box — sometimes multiple options are available. With so many solutions readily available, you will rarely need to design and implement a custom solution.

If your hosting service does not offer e-commerce solutions, or if the site is being hosted in-house, be sure to check the system requirements. You will also need to verify that the e-commerce solution is compatible with your choice of programming language, as well as with the operating system of your server.

☐Choose an e-commerce solution

**Many More Features**

E-commerce solutions can vary widely in their features. You may find tools for marketing and promotions, customer service, reporting, and integration with popular **content management** systems. There are too many solution providers to list and describe in detail. However, you should be aware that there is virtually no reason that you must implement your own e-commerce solution. It might be helpful to test the e-commerce package before fully committing the project to it, by implementing a minimal use case that utilizes each of the major features.

☐Hosting platform compatibility with e-commerce platform

☐Payment processing

**Payments and Fees**

Some solutions integrate payment processing; while others do not. E-commerce solution providers charge different fees, including a monthly fee and a per-transaction fee. Your client should familiarize themselves with these fees and understand the contractual obligations.

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☐Upload product catalog, maintaining inventory

**Product Catalog**

It is also important to examine how the provider sets up and manages the inventory for the online store. The ease-of- use is subjective. If you are considering more than one solution, it might be worthwhile trying out the process for setting up a few items for sale. If your client finds that they need to set up hundreds of items per day, ease-of-use and manageability become important factors. If your client plans to sell on Amazon or eBay, look for solutions that can be integrated with these popular online destinations.

☐Test transactions for each payment type

☐Rollout Day

***Preparing for Rollout***

As your project nears completion, it is important to test the entire visitor experience, end-to-end:

first-time visitors

setting up customer accounts/login signing up/promotional subscriptions returning visitors

login/resetting passwords order status

order histories

updating mailing/shipping/ billing addresses blogging/forums

discussion threads and replies latest news/blog entries photos

geo-tagging shopping

searching for products searching for sale items comparing products viewing lists of products

viewing detailed product information

adding products to the cart and modifying cart contents checkout and payment processing

emailing order confirmations customer service

methods of contact (email, telephone, chat, social media) pre-sale or post-sale questions

order cancellations returns

feedback social media sharing

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The testing must demonstrate a smooth experience. You should remember that testing with a limited number of accounts does not demonstrate how the site will perform when hundreds of customers are accessing the online store at the same time.

When the big day arrives and the web site goes online for the general public, you should be available for any issues that can occur. Things will often go wrong and the important thing is to have a plan in place in case things don’t go smoothly such as:

server busy/timeouts server errors

failed payment processing login issues bounced/returned emails

During the first few days online, you will learn how well the web site is handling traffic. Be prepared to roll with the punches, by working with the both the data center team as well as the vendors in responding to challenges and implementing solutions that scale with the demand. Good luck!

5 THOUGHTS ON “WEB DEVELOPMENT CHECKLIST”

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Araia

on [July 8, 2016 at 7:17 pm](http://learntoprogram.wpengine.com/web-development-checklist/#comment-114656)said:

Thanks for taking it up another notch Mark.

There are a number of things i have been going back and forth on but this really helps organize the process.

Chinaza

on [July 11, 2016 at 4:26 am](http://learntoprogram.wpengine.com/web-development-checklist/#comment-114664)said:

I love this article, quite informative!

KSH7

on [July 11, 2016 at 1:00 pm](http://learntoprogram.wpengine.com/web-development-checklist/#comment-114665)said:

I read the book a couple of years ago and it does shift your thinking about checklists. Great to see it applied

here.

2016.11.05 Saturday

**Understanding the project’s purpose**

The purpose of the project is to provide C’s Creations braiding gallery with a website to help promote the business.

2016.11.18 Friday

**☐Make a site map**

\*general notes

-------Header photo / header needs to be edited. Only partial pic shows up on every page except landing.-------