CIS 4004: Web-Based Information Technology Spring 2011

Web Site Project Overview

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Web Site Project Overview

- This document presents an overview of the web site project for the course.

- In this project you will develop a complete web site whose focus is something in which you are interested.

- The subject of your website is entirely up to you.

- Every page in your web site must contain XHTML that has validated against the Strict DTD and must utilize only CSS that has also passed validation. The footer area of each page on your website (except for the splash page where it might detract from your theme) must include the XHTML and CSS valid icons.

- As additional phases of the project are introduced, specific requirements for each page in your site will be made more explicit. For now we are dealing in generalities.
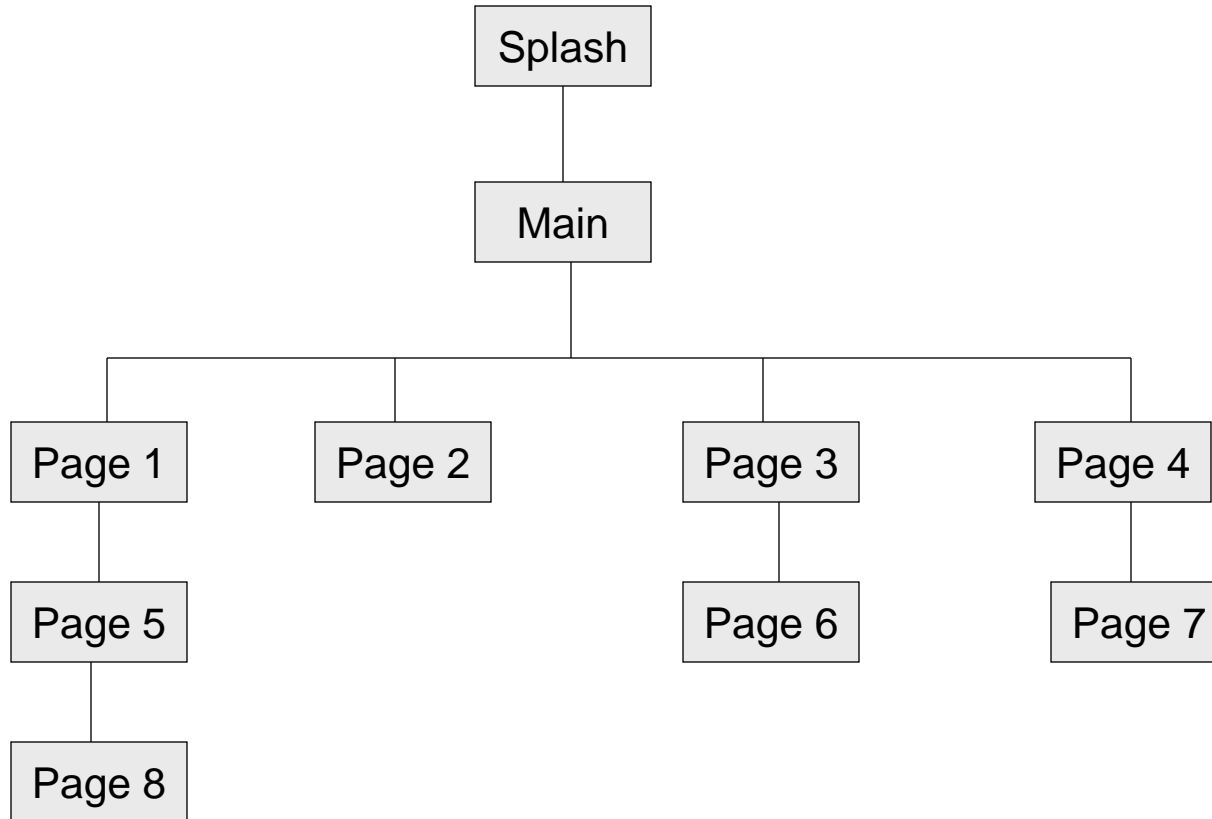
Web Site Project Overview

- Your website should be constructed using an overall hierarchical approach. An example of a hierarchical design is shown on page 4.

- Depending on the content/purpose of your site, some underlying pages might use a linear design, if so, your overall design might appear more like the example shown on page 5. For example if you are providing a tutorial of some sort.

- You must have a minimum of 10 total pages on your web site (counting the splash and main pages.)

- You should style the site so that several different pages utilize the same theme and thus share CSS from an external style sheet.

- You should indicate (at a high level) what the basic content of each page will be in your storyboard.
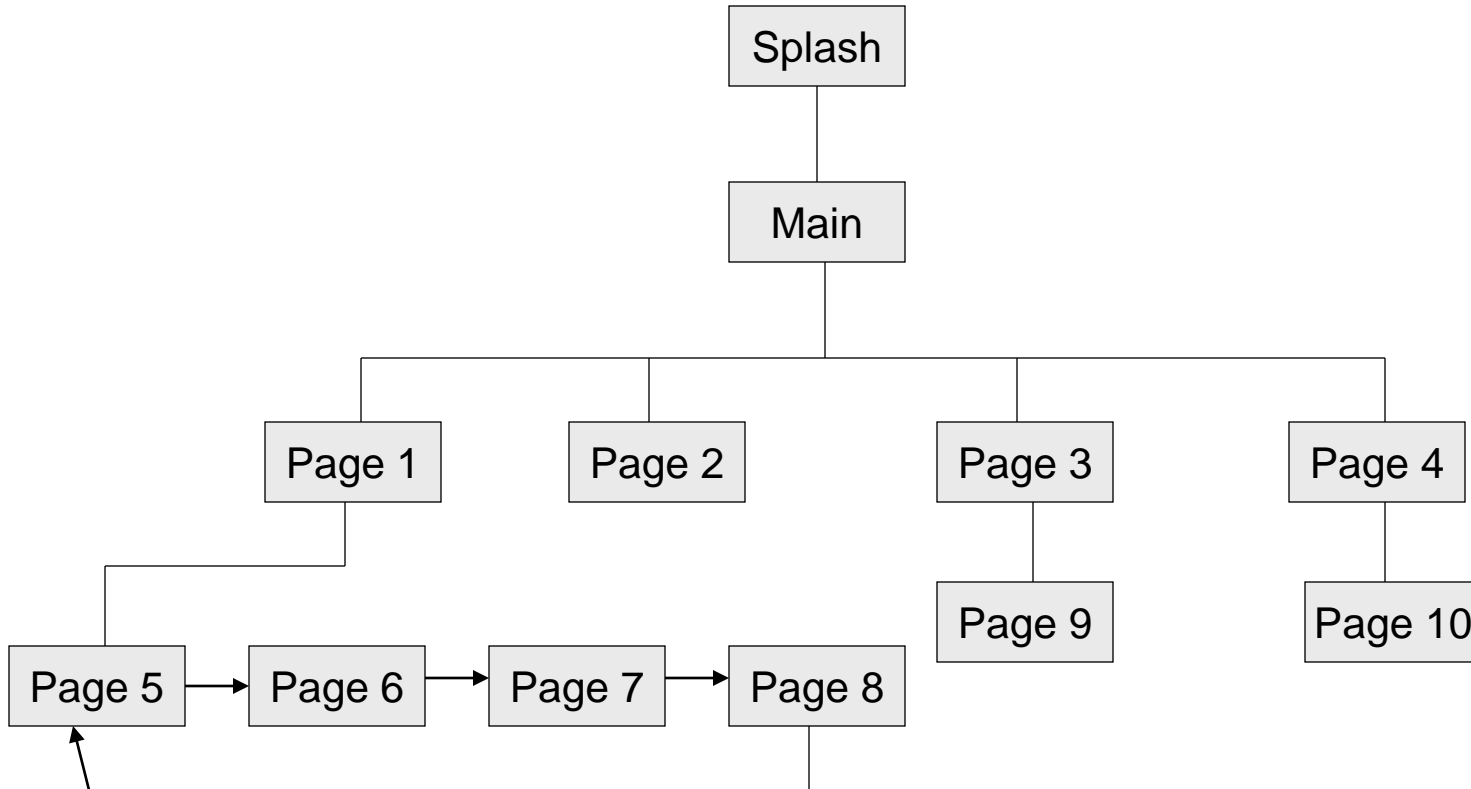
Web Site Project Overview

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                        ┌──────────┐
                        │  Splash  │
                        └────┬─────┘
                             │
                        ┌────┴─────┐
                        │   Main   │
                        └────┬─────┘
                             │
      ┌──────────────┬───────┴───────┬──────────────┐
┌──────────┐  ┌──────────┐    ┌──────────┐   ┌──────────┐
│  Page 1  │  │  Page 2  │    │  Page 3  │   │  Page 4  │
└────┬─────┘  └──────────┘    └────┬─────┘   └────┬─────┘
     │                             │              │
┌────┴─────┐                 ┌─────┴────┐   ┌─────┴────┐
│  Page 5  │                 │  Page 6  │   │  Page 7  │
└────┬─────┘                 └──────────┘   └──────────┘
     │
┌────┴─────┐
│  Page 8  │
└──────────┘
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An Example Web Site Design
Using A Hierarchical Approach

Web Site Project Overview

```
                        ┌─────────┐
                        │ Splash  │
                        └────┬────┘
                             │
                        ┌────┴────┐
                        │  Main   │
                        └────┬────┘
                             │
        ┌───────────┬────────┴────────┬───────────┐
   ┌─────────┐ ┌─────────┐      ┌─────────┐  ┌─────────┐
   │ Page 1  │ │ Page 2  │      │ Page 3  │  │ Page 4  │
   └────┬────┘ └─────────┘      └────┬────┘  └────┬────┘
        │                           │            │
                                ┌─────────┐  ┌─────────┐
                                │ Page 9  │  │ Page 10 │
                                └─────────┘  └─────────┘

┌─────────┐   ┌─────────┐   ┌─────────┐   ┌─────────┐
│ Page 5  │──▶│ Page 6  │──▶│ Page 7  │──▶│ Page 8  │
└─────────┘   └─────────┘   └─────────┘   └─────────┘
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An Example Web Site Design
Using A Hierarchical Approach
With Embedded Linear Design

Web Site Project Overview

- One of your pages (not the splash or main page) should be a page that explains why you created this web site. Why is the subject important to you. What was the motivation for this site/topic. (Because it was required to pass CIS 4004 is not the reason!)

- This page should also indicate what you aim to accomplish with this web site. For example, is its purpose to educate visitors about something or is it designed to allow you to express something that you are passionate about.

- As you progress further into the project, we'll set the content for one of the pages to be a form that visitors will fill out to email you responses to questions that you will ask them. This will be a form-handling page.

Web Site Project Overview

- One of the pages in the site will be utilized primarily for images, audio and/or video. We've already examined how to incorporate these items into web pages using the Strict DTD and have them successfully validate.

- At least one of the pages (in addition to the form-handling page) will include some sort of interactive capability for which you will utilize JavaScript.

- We may also do some basic work with Flash and if so, we'll incorporate this into your website in some manner.

- Right now you do not need to finalize any of the content pages – this will occur as the project advances. However, you do want to give serious consideration to the amount and type of content that you will ultimately be adding to your website.

Web Site Project Overview

- Phase 1 of the project – described in another document, will consist of designing the overall site and constructing the splash page only.

- Phase 2 of the project – described in another document, will consist of creating the main page and several of the underlying subpages. The specific requirements for each page will be described in this document. Some of the individual pages will use two-column layouts, and others will use three-column layouts. The template files for these layouts are already on the course website and you should be familiar with their markup and styling so that you can adapt them to your site as needed.

- Phase 3 of the project – described in another document, will consist of adding some advanced XHTML/CSS and JavaScript techniques, some of which, we have not yet covered.