

Karlstad University
College of Computing Science and Engineering
Department of Information Science

COMP 1223

Web Development Fundamentals

Assignment #3

Due Date: Friday, April 9th, 11:59 pm

Weight: 15% of Final Grade

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COMP1223 Assignment 3

Assignment Type: Individual Assignment

Due Date: Friday, April 9th, 11:59 pm (-10% deduction for each day late)

Weight: 15% of Final Grade

Introduction

In this assignment (Assignment 3), you will be assuming the role of an employer, who is looking to advertise and hire a new graduate for your company (feel free invent a mock company).

In order to announce the job vacancy within your organization, you have decided to create a **single-page website**, that employs a **Flexbox Layout** and contains the following **6** sections/components:

- 1. Header and Navigation**
 - Contains 5 bookmarks to the other section of the page
 - Aesthetically pleasing header containing:
 - i. Company logo and/or background image.
 - ii. Company title using Google Font of your choice
- 2. About**
 - Contains a greeting and a short description and history of the company
 - Displays company images and/or business-oriented images, using image-rollover
- 3. Description of the Position**
 - Contains a description of the job, team, department that accompanies the position
 - Must display a job-related or business-oriented image, using the image-mapping technique
- 4. Responsibility and Duties**
 - Itemizes the Responsibilities and Duties of the position using HTML 5 Tables
- 5. Essential Qualifications, Assets, Working Conditions**
 - Itemizes the Essential Qualifications, Applicant Assets (Nice-to-Have), and Working Conditions of the position using (nested) HTML 5 Tables
- 6. Application Form**
 - An HTML form, that allows the applicant to provide information regarding their personal details, in addition to the added ability to upload their resume.

Please note each section requires you to author content (job descriptions, company names, qualifications etc..). Your creativity here is welcome, as the resultant web page produced, will dramatically be reflected in both the quality and quantity of content you invent.

Learning Outcomes and Objectives

After conducting this assignment students will be able to:

- Utilize HTML5 and CSS3 to create a unique web page
- Document and comment your HTML and CSS code
- Use effective web design in creating web pages.
- Demonstrate knowledge in CSS and HTML5 semantics.
- Learn to enhance a webpage using flexbox
- Include and apply Google Fonts
- Include logos/image into a website
- Create HTML forms and utilize build-in browser validation
- Utilize image rollover and image mapping with CSS
- Follow instructions and pay close attention to project requirements.

Section 1: Header and Navigation Section

Requirements: The header and navigation section must meet the following requirements at a **minimum**:

- Contains five (5) bookmarks to the following sections of your page:
 - I. About Section
 - II. Job Description
 - III. Responsibilities and Duties
 - IV. Essential Qualifications
 - V. Application Form
- Company Logo and/or Background Image
- Google Font for Company Name

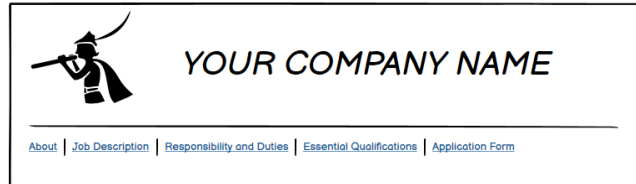


Figure 1: Header and Navigation Mockup

Section 2: About Section

Requirements: The About section of your website should meet the following requirements at a **minimum**:

- Must utilize the Google font of your choice
- Must describe the company, origin, history, business – Please feel free to create a mock history etc...
- Must display company images and/or business-oriented images, using **image-rollover**.

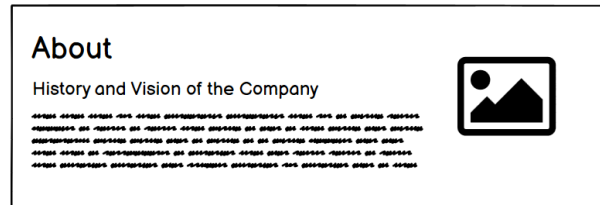


Figure 2: Mock About Section

Section 3: Job Description Section

Requirements: The Job Description section of your website should meet the following requirements at a **minimum**:

- Must utilize the Google font of your choice
- Must describe the job position you are posting for – Please feel free to create a mock job, job description etc...
- Must display a job-related or business-oriented image, using the **image-mapping** technique to apply all possible client image mapping shapes to your choice of the image that must be hosted locally.

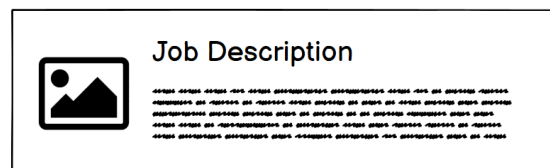


Figure 3: Mock Job Description Section

- All image areas must have a proper title, and when clicked, a related document must open in a new window.

Section 4: Responsibility and Duties Section

Requirements: The Responsibility and Duties section of your website should meet the following requirements at a **minimum**:

- Must utilize the Google font of your choice
- Must describe responsibility and duties associated with the job position, for example, the duties the applicant would be expected to fulfil if hired.
- You will need to construct a HTML table in this section to tabulate this information.
- Your table should employ the following:
 - i. CSS attributes, width, cellpadding, cellspacing, alignment, border, bgcolor
 - ii. The table should have a minimum of two columns, and a minimum of 7 rows.
 - iii. The first row should be utilized for the table column headings
 - iv. The usage of colspan, rowspan and cell alignment (vertical and horizontal) should also be utilized
- The content in the table should be related to the topic of the responsibilities and duties of the vacant job that needs to be filled.

Responsibility and Duties	

Figure 4: Mock Responsibilities and Duties

Section 5: Essential Qualifications, Assets, Working Conditions

Requirements: The Essential Qualifications section of your website should meet the following requirements at a **minimum**:

- Must utilize the Google font of your choice
- Must describe the work conditions (heavy lifting, on-call 24hrs, etc...), Assets (also known as nice-to-haves... for example, fluent in multiple languages etc...) and Essential Qualifications (Bachelor's Degree, 5 years' experience etc..) of the position you are posting for.
- The details for this section (Essential Qualifications, Assets, and Working conditions) must also be done utilizing HTML tables.
- Specifically, you will require three (3) tables
 - i. Parent Table 1: **(1) row x (2) columns** - each column will house a table nested within
 - ii. Left (inner) nested table: **(2) rows X (2) columns**
 - iii. Right (inner) nested table: **(3) rows x (2) columns**
- the inner left nested table will have a caption appearing at the top | use css to set caption position.
- the inner right nested table will have a caption appearing at the bottom | use css to set caption position.
- both inner nested tables will have borders
- Once again, the content/text within the cells must relate to the topic of Essential Qualifications, Assets or Working Conditions.

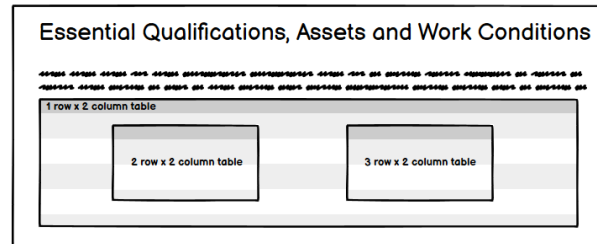
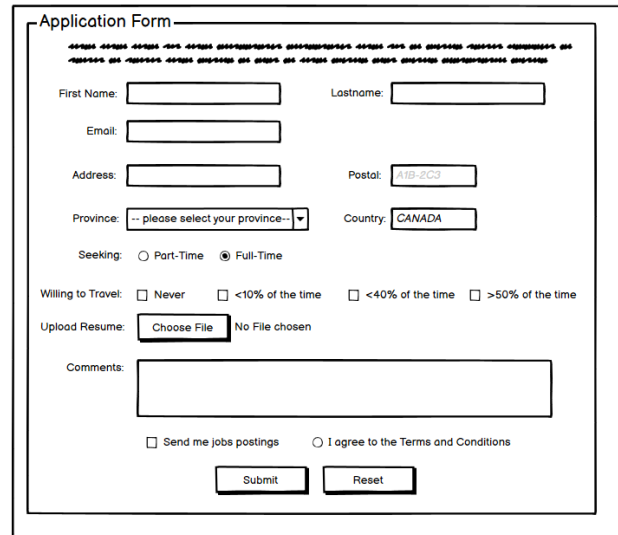


Figure 5: Mock Job Description Section

Section 6: Application Form

Requirements: The Application Form section of your website should meet the following requirements at a **minimum**:

- For the Sixth section of you web page, you need to create an application form, a form for the applicants to submit their information.
- The form must have the following fields:
 - i. First Name (textbox, mandatory)
 - ii. Last Name (textbox, mandatory)
 - iii. Email (textbox, mandatory, valid email)
 - iv. Address (textbox, mandatory)
 - v. Postal Code (mandatory, placeholder)
 - vi. Province (combo box)
 - vii. Country (readonly, set to “Canada”)
 - viii. Seeking (radio, default “Full-Time”)
 - ix. Willing to Travel (checkbox, optional)
 - x. Upload Resume (accept only MS Word or pdf)
 - xi. Comments (text area, optional)
 - xii. Send Job Postings (optional)
 - xiii. Terms & Conditions (mandatory)



The image shows a mock application form titled "Application Form". It contains the following fields and controls:

- First Name:
- Lastname:
- Email:
- Address:
- Postal:
- Province:
- Country:
- Seeking: ☐ Part-Time ☒ Full-Time
- Willing to Travel: ☐ Never ☐ <10% of the time ☐ <40% of the time ☐ >50% of the time
- Upload Resume: No File chosen
- Comments:
- ☐ Send me jobs postings ☐ I agree to the Terms and Conditions
-

Figure 6: Mock Application Form

Submission Guidelines

- Upload folder: **public_html/comp1223/assignments/assignment3**
- Submit your marking request via my.gblearn.com
- Your design should be welcoming for visitors (easy to read and navigate)
- The page represents a valid HTML5 page
- CSS must be utilized to format your page
- All filenames must be lowercase
- Your HTML and CSS must be validated, in order to do that, you must add the following line of code to each of your HTML pages, right before the `</body>` tag.

```
<script src=https://my.gblearn.com/js/loadscript.js></script>
```



This page was last modified on .

Important Design Guidelines

- You are **NOT** permitted to use any JavaScript or HTML frameworks to complete this assignment
- **Write Standards-Compliant Markup**
We must pay close attention when writing HTML and be sure to nest and close all elements correctly, use IDs and classes appropriately, and always validate our code.
- **Make Use of Semantic Elements**
Deciding which elements to use to describe different content may be difficult, but these elements are the backbone of semantics.
- **Use the Proper Document Structure**
Be sure to use the proper document structure, including the `<!DOCTYPE html>` doctype, and the `<html>`, `<head>`, and `<body>` elements.
- **Keep the Syntax Organized (Style Guide and Coding Conventions)**
 - Use Correct HTML5 doctype
 - Use Lower Case Element Names
 - Do not use spaces/uppercase as part of your file/folder name
 - Use dash or camelCase to name your files and folders
 - Use Lower Case Attribute Names
 - Quote Attribute Values
 - Image Attributes. Always add an **alt** attribute and enter meaningful values. Define image width and height.
 - Must use a relative path to reference/link to files (i.e. other pages, images, CSS files) within your GBLearn account.
 - **Blank Lines and Indentation**
 - For readability, add blank lines to separate large or logical code blocks.
 - For readability, add two spaces of indentation.
 - Do not use unnecessary blank lines and indentation.
 - Meta Data: provide a meaningful title, meta description, and keywords. Don't forget the character encoding
 - Include necessary comments in your HTML and CSS.
 - **Style Sheet Rules**

- Place the opening bracket on the same line as the selector
- Use one space before the opening bracket
- Use two spaces of indentation
- Use semicolon after each property-value pair, including the last
- Only use quotes around values if the value contains spaces
- Place the closing bracket on a new line, without leading spaces
- Avoid lines over 80 characters

Marking Rubric

Description	Marks
Section 1	12
• 5 x Bookmarks	4
• Logo and/or Background Image	4
• Company Name (Google Font)	4
Section 2	12
• Title, Content (company history, origin, business) – Google Font	4
• Company images and/or Business oriented images – Image Rollover	8
Section 3	12
• Content (Title, Job Description and details) – Google Font	4
• Job related and/or business-oriented image using image-mapping	8
Section 4	12
• Content (Title, Responsibilities and Duties) – Google Font	4
• HTML5 Table (min - 7 rows x 2 columns)	2
• Table properties (width, cellpadding, cellspacing, alignment, border, bgcolor)	5
• Table column headings (1 st row)	2
• Table colspan, rowspan, cell alignment (vertical and horizontal) utilized	2
Section 5	12
• Content (Title, Essential Qualifications) – Google Font	4
• Parent table (1 row x 2 columns)	2
• Inner left nested table (2 rows x 2 columns) with captions and border	3
• Inner right nested table (3 rows x 2 columns) with captions and border	3
Section 6	18
• First Name, Last Name, Address (textbox, mandatory)	2
• Email (textbox, mandatory, email format)	2
• Postal Code (textbox, mandatory, placeholder)	2
• Province (combo box)	2
• Country (readonly, set to “Canada”)	2
• Seeking (radio, default set to “Full Time”)	2
• Willing to Travel (checkbox, optional)	2
• Upload resume (MS Word or pdf)	2
• Comments, Send Posting, Terms and Conditions	2
Navigation	6
Store images in a separate folder	2
CSS style in an external file	2
Use the Flexbox Layout for the page	10
Structure the page using semantic elements.	2
Total	100
Invalid HTML	-50
Missing validation script	-50
Late assignment 10% per day to a maximum of 7 days, including weekends. <script src=https://my.gblearn.com/js/loadscript.js></script>	