Introduction to ITWS

Place your name on the top of this document in the header

Enter your answers directly into this document (unless instructed otherwise)

All answers should be in be in Your Own Words, and use proper grammar

There are multiple questions on this test. Make sure you complete them all.

Make sure your answers use an alternative font and/or color – (not black or red)

Create a branch for this quiz called quiz2 and switch to that branch

Create a folder, somewhere under the root of your website (iit) for this quiz called quiz2

Save this document into that folder as *yourName*-*yourRCSID-F24*Quiz2.docx

Create a readme file in the same folder and discuss any relevant information about the lab.

(Include at least; your GitHub id, Repo name, Azure homepage link, and Discord handle.)

Place all quiz other specific documents (if any) in the same folder

Commit your changes as instructed below and push to GitHub

DO NOT create a pull request or merge your changes

NOTE: You are not to discuss this quiz with anyone. You are not to reference old (previous semester) submissions for ‘help’ or guidance. You may not solicit or receive help online or in-person. You may reference online resources, and you may use the notes from this class, but all work must be your own and you must figure out the solutions on your own. Do not us AI to answer these questions – you may use it for assistance – however if you do, you must state explicitly what you asked and what was returned in your readme files.

1. Technology (coding): (40 points, 30 minutes)
   1. Create a JSON file containing a collection with an array containing 10 names. (10 points)

Done in repo

* 1. Using JavaScript and jQuery, write the code/files necessary to (20 points)
     1. Display a form on the screen which will display a submit button
     2. When the user clicks submit, the form should display the names in an ordered list.
     3. Bind an event to the names, so that when the user clicks on a name, an alert will pop up with the name clicked (10 points)

Done in repo\*check readme

1. Technology (description) (20 points, 15 minutes): Web Development
   1. What is a CDN and how do we use them in this class? Be Specific and give 2 examples used in class (5 points)

A CDN or Content Delivery Network is a group of servers that speeds up the usability of web content by externally storing large data libraries instead of making a web page browser download it. We use them in class my storing libraries like jQuery and our atom feeds. For example, we linked an external jQuery CDN instead of storing it locally from which we accessed certain methods from its library.

jQuery example:

<head>

   <title>ITWS1100 Lab 6 : jQuery</title>

   <meta charset="UTF-8" >

   <meta name= viewport content="width=device-width, initial-scale=1.0" >

**<script src="https://code.jquery.com/jquery-3.7.1.js">**

   </script>

   <script src="lab6.js"></script>

   <link rel="stylesheet" href="../../Resources/site.css" type="text/css" >

</head>

Atom example:

?xml version="1.0" encoding="UTF-8"?>

**<feed xmlns="http://www.w3.org/2005/Atom">**

* 1. Explain the difference between relative and absolute links as it relates to our websites & severs. Explain how we use these links and where we use one over the other. Use examples that we covered in class and from your own personal implementations. (5 points)

Relative Linking points to another page location from the current page location; it is a reference relative to the calling document. Absolute linking is link that contains the complete, unique, address of a file or website, this means that it can be accessed from any location on the web server. We use relative links when linking to pages within the same website: while it is more flexible it can be difficult to manage when changing the IA of the website. We use absolute links for items in another website such as images, CDN’s or google fonts. I use relative links to link between certain pages in my site such as the home page and the lab page(ex1) while I use absolute linking for items like the google font API which is on another site(ex2)

Ex1:

<div class="prjtLabsContent">

<a href="../labs/lab01/lab1landing.html">Lab 1 - Basic Setup</a>

<a href="../labs/lab02/revisa-ariellerevis-resume.html">Lab 2 - Resume</a>

<a href="../labs/lab03/lab3landing.html">Lab 3 - Portfolio</a>

<a href="../labs/lab04/lab4landing.html">Lab 4 - XML</a>

<a href="../labs/lab05/lab5landing.html">Lab 5 - Javascript</a>

<a href="../labs/lab06/lab6landing.html">Lab 6 - jQuery</a>

</div>

Ex2:

 <style>@import url('https://fonts.googleapis.com/css2?family=Lora:ital,wght@0,400..700;1,400..700&display=swap');</style>

* 1. What is meant by the following – be specific as to the meaning and steps
     1. Create a development branch (2 points)

Creating a development branch refers to created a copy of the current part of the main branch and working on it separately. Any changes you make to your development branch is not saved to the main branch. This is used to test out any changes you want to make to your site without making changes to its current state.

* + 1. Stage (2 points)

Once you have made your edits to your developmental branch you stage your edits. The staging areas is where files are added before committing the file, essentially, you are saving the file. Any edits you don’t stage will not be saved when moving to production. You push these saved changes up to GitHub from your local machine

* + 1. Move to production (2 points)

Moving to production means you push your changes up to GitHub. At this stage all your changes in the development branch have been staged(saved) and ready to be committed to the main branch. All of these changes pushed up to GitHub are now pulled into the online GitHub repository and merged with the main branch.

* + 1. Deploy (4 points)

In the deploy section you are now able to push the edits from GitHub and pull them down into your web servers, deploying them. This means that all the changes you made that were pushed up to git hub are now the same on your webserver. For this you would also need to make sure that the webserver is running, i.e. starting Azure

1. Web Science/HCI (20 points, 15 min) (Explain in detail)
   1. According to the Lecture by Dr. Erickson, what is Web Science? Why is it important? (10 points)

According to Dr. Erickson, Web Science is the process of designing things in a very large space and the study of the World Wide Web. It is important to understand web science because it is evolving at such a large-scale structure and involves the interplay between social and computer science. Additionally, web science concepts can be used to spread awareness and information due to its ever-growing properties. Web science is the way that users receive information which is vital for things like health care or economic information. By understanding how and why users receive certain things we can better maintain and spread credible information.

* 1. What is the Gutenberg method? Where and why do we use it. (5 points)

The Gutenberg method or diagram is a way of formatting your web interface in order to glean the most user interaction. The top left corner is the most optimal area so the most important information goes there. From there the human eye goes in subsequent Z formation to the Top-Right to the bottom left to the bottom right, getting less and less interactive. As you continue down this diagram it is important to put the most important information in the high-eye traffic areas such as top left,right and bottom right, while putting less emphasis on less looked at areas like bottom left.

* 1. What is Figma and how do we use it? How did you use in in class and how did you use it for your projects? Be specific) (5 points)

Figma is a web design tool that allowed us to design our user interfaces for web applications. In class, we used this to create the UI for SPARKER app. We created user personas along with our UI designs in order to better understand how users would enter and interact with our applications. We also used this for our group projects to mockup our designs for our own web applications. We created thorough plans and user personas to understand how our website would look and how users would interact with it.

1. Case 1 – Job Co. (20 points, 10 minutes) (Explain in detail)
   1. What is a digital transformation?

At JOB Co. Fonz hired Duarte to drive a digital information that involved creating new business opportunities by honing in on and developing JOB Co’s technology. Currently, JOB Co. had a very manual approach to its business and they wanted to transfer their current methodologies and business practices to an online approach.

* 1. What is the difference between Agile and Waterfall

A waterfall approach, or a sequential approach restricts each step of the development process until the previous one is completed while an agile approach is a cyclical approach that takes on manageable tasks without worrying about the full picture.

* 1. Which did you choose if any for your group project and why? Be specific.

I would choose an agile approach for our project because there are so many technical aspects to our project that if we spent all of our time on a certain stage only to later find out it was obsolete or unnecessary later on it would not only be inefficient but not possible with our time constraints.