Introduction to IT: ITWS 1100

Final Quiz: April 25, 2022

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 Detailed and in be in Your Own Words, and use proper grammar

There are 3 main questions on this test. Make sure you complete all sections of both.

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

As per our normal – create an issue and a branch for this quiz called quiz3

Place all quiz specific documents including this one under your iit folder in a folder named

quiz3

Copy the contents of the quiz 3 assignment file – which you just extracted to see this file – into your quiz3 folder

Save this document as *yourRCSID-yourName*-S22Quiz3.docx

Create a readme file and discuss any relevant information about the lab, include at least:

your GitHub id, Repo name, and Discord handle.

When finished with the quiz, after pushing to GitHub, zip your iit folder into a file named

*yourRCSID-yourName*-S22Quiz3.zip

Submit it to LMS

Commit your changes as instructed below and push to GitHub

*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.*

Remember to save as you go,

Good luck!

1. HTML, CSS, JavaScript, jQuery, PHP, and then some … (3 parts - 60 Points, 45 min)

In lab 3 you built a simple website using (primarily) static HTML. In Quiz 2, you enhanced your website with jQuery and jQueryUI. In Lab 9 you modified your projects page to read from a JSON file using jQuery and AJAX.

Now I want you to prepare to repurpose your websites again. This time, I want you to prepare to build them using data stored in your DBMS and setup your pages using PHP. (You should refer to lab 10 and to the in-class exercise on PHP)

**Note**: You do not need to execute any code in either SQL or PHP although it is an excellent way to check your work.

1. SQL – In the file named quiz3.sql, which is placed in the provided resources folder, enter the commands to: (20 points, 15 minutes)
   1. Create a database named, *iitQuiz3*
   2. Create a table named, *myProjects*
      1. Make sure you have a primary key which will autoincrement
      2. Create the fields necessary to store your project menu information – no data beyond what you stored in lab 9 is needed
   3. Insert data into your table containing the information necessary to match your project data from lab 9

Text

Description automatically generated

1. PHP – Write the **PHP code** to do the following: (add it inline below) (20 points, 15 minutes)
   1. Check to see if the page was requested by a GET or POST (and explain how this works)

> This page is requesting for POST method; POST is HTTP method which was designed to send data on server from client’s interface. The HTTP POST method requests the web server accept the data enclosed in the body of the POST message.

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* 1. Connect to your SQL Database (and explain your choice)

>Text

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Here we can connect our website with sql database with a single query

* 1. Select the relevant fields from your table in order of your projects (only include the field that would be shown on screen)
     + - Those fields are first name, last name, and date of birth.
  2. Insert new records into your table using a prepared statement (include all the necessary lines of code)

$insQuery = "insert into myprojects (`firstName`,`LastName`,`date`) values(?,?,?)";

$statement = $db->prepare($insQuery

$statement->bind\_param("sss",$lastNameForDb,$firstNamesForDb,$dobForDb);

$statement->execute();

1. Using index.php (included and from the PHP examples), explain in your own words: (be thorough and explicit) (20 points, 15 minutes)
   1. Summarize what this page does
      1. This page will first make connection with database.
      2. Then executes html tags.
      3. Show form of actor and list of actors already in database.
      4. If someone fill the form and hit submit, then inputted data will be store into PHP variables using post method.
      5. We will execute prepare function to store that data in variables to our database.
   2. When and how is the form data being validated? Why is it being done this way?

Form validation is done by using JavaScript because it will easier way to check either form is filled properly or not. Using this is faster because this operation is performed in the client-side and checks the validation.

* 1. What resource is being called when the form is submitted?

The resource that is been called when the form is submitted is Resources of form validation

* 1. How does the page on the server-side receive/utilize the data entered into the form on the client-side?

The page on the server side receive data from the form using post method. POST is HTTP method which was designed to send data on server from client’s interface.

1. SkySpecs and WhatsApp Cases: (20 points, 10 minutes)
   1. Referencing the video we watched from Danny Ellis, which strategy did he state SkySpecs ultimately decided to pursue? (5 points)

SkySpecs ultimately decided to go with the breath strategy because it was a way for them to continue the work they were doing as well as serving new customers in a new industry. The breath strategy was chosen because SkySpecs believed they could offer new tools and information to their already clients and build up on the relationship they already had.

* 1. Describe SkySpecs reasoning for making this decision. (5 points)

One of the main reasoning behind SkySpecs decision to go with the depth strategy was the easy area of growth for them. SkySpecs started as a drone company but because of the tools and infrastructure they had built like the Horizon software. Horizon gave them the ability to grow from a drone company to a company that provides renewable asset management to other companies.

* 1. Per the in-class discussion, what is the current biggest threat to the wind energy industry in the US (and by association, the SkySpecs business model)? (10 points)

According to the in-class discussion the biggest threat to the wind energy industry is the removal of Government funded subsidies and loan. The main reasons for growth for the wind industry was the constant financial support that was provided by the government. This influx of money lead to a lot of growth because there was a flow of money being used to invest, study, and grow altogether. However, that is about to change very soon because President Joe Biden didn’t include the wind energy industry or sector in his proposed spending bill for 2020. According to energy.gov, “The U.S. Department of Energy (DOE)has allocated $104 million in fiscal year 2020 (FY20) funds for wind energy technologies.” If these funds are removed from the wind energy industry, it is more likely to collapse. This would affect the skySpecs business model because if the government removes funding from the wind turbine industry, farmers and landowners are no longer incentivized to invest or give up their land for wind turbine usage. T

1. Product Management: (20 points, 10 minutes)

Per the Guest Lecture:

* 1. What are KPRs and what are they used for? (10 points)

KPIs in product management are specialized and specific activities or tasks that deal with the product, customers, and the overall process of bringing a product to the market for sale. KPI is basically the pipeline or chain of conduct in a company. Product managers must work hand in hand with the workers, designers and create a product that will satisfy the need of the customers.

KPI are product indicators that are used to measure a product performance and usage in the market. They are used to understand and check if a certain product or servicing is reaching its goal and to see if customers love it.

* 1. What are 2 of the 4 most important traits of a great PMs? Describe them and include why they are important (10 points)

Two of the most important traits needed to be a great PM is that he or she must be curious as well as the ability to be empathetic to the pleas and needs of their clients.

Curiosity is having the strong desire to learn or know something because he or she wants to gain that knowledge and use it to grow or improve.

Curiosity is needed in the daily life of a PM because curiosity is one of the best drivers for learning, advancement, and new achievement. If a PM is incredibly curious, he or she can move outside of their comfort or familiar zone and help they grow. A curious PM can explore and find new niches where the company could use as a steppingstone for growth. A curious PM is always looking for ways to grow, fix know issues and strive to prevent unknow issues that might pop up any day. The tech field is an ever evolving one and if a PM isn’t curious enough to learn outside of their comfort zone they will be left in the past as the industry will grow out of their need because they weren’t curious enough to learn new strategies.

Another important trait of a PM is the ability to be empathetic. This to me is the most important aspect of being a PM. A product manager job is to not only ensure that good product is made, but they also need to make sure that the customers are satisfied with the product they are paying for. If a PM isn’t empathetic enough, he or she wouldn’t be able to connect with their users or customers and this might lead to them making decisions that are out of touch from what their customers might need.