

Critical Information Arch-303 Online Learning Environment

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414

Graphic organizers and the level of students' performance and self-efficacy in an online learning environment

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Abstract- Graphic organizers are research-based learning materials and approaches that help students understand a challenging subject. This study aims to see how graphic organizers influence students' performance and self-efficacy in the subject Science, Technology, and Society (STS) in an online setting. It was conducted at Quezon City University (QCU) in the first semester of Academic Year 2021-2022. It used a quasi-experimental study design technique known as the Pretest-Posttest Design. The results demonstrate that participants in the treatment group performed better than those in the control group. After obtaining lessons and learning using various graphic organizers, the subjects in the control group improved their degree of self-efficacy. The study concludes that graphic organizers seemed to influence students' performance and level of self-efficacy in STS. Teachers should use visual organizers to help students enhance their academic accomplishment and self-efficacy, particularly in an online learning setting.

Index Terms- Graphic organizers, Online learning environment, Students' performance, Self-efficacy, Science, Technology, and Society (STS)

1. INTRODUCTION

The COVID-19 pandemic caused a sudden shift in learning mode from face-to-face learning to online and distant learning. There are studies that have been conducted in the past about the usefulness of online courses (Boykin, et al. 2019; Kwon, Shin, & Park, 2018; Ponce, et al. 2018). However, most of these concentrate on comparing traditional classrooms to online classrooms (Boykin, et al. 2019; Kwon, Shin, & Park, 2018; Ponce, et al. 2018), but little research on what effective instructional learning materials and activities are suitable for this kind of learning environment to ensure the promotion of student satisfaction and academic achievement.

According to Kurniawan et al. (2018), when appropriate instructional learning materials are chosen and incorporated into

each lesson, students' performance improves. Furthermore, studies support the claim that relevant and appropriate instructional learning materials do improve students' performances because they directly support the presenting and gathering of facts, principles, and concepts in class (Kaku & Arthur, 2020; Nja et al. 2020; Tasciold & Arcilla, Jr., 2020). In addition, the use of appropriate instructional learning materials, whether in a regular face-to-face class (Kaku & Arthur, 2020) or in an online learning space (Yilmaz & Korur, 2021), helps the learners to establish schemas that extend their working memory so that they can understand and learn more difficult information (Chairilysha & Kumia, 2018). And lastly, with the use of suitable instructional learning materials, students become more engaged and motivated to learn, according to Nasir, Prastowo, and Riwiyani (2018). As a result, in order to have the greatest impact, such materials must be carefully planned, selected, organized, refined, and used in a course (Garzon-Diaz, 2021).

Research-based learning materials and strategies that help students learn complex content (Kurniawan & Zufriady, 2019). It is a non-linguistic, visual tool that enables the learner to connect new information to their existing knowledge and see how concepts relate to each other and fit in, which in turn makes them recall information easily (Kurniawan & Zufriady, 2019).

The spatial arrangements of graphic organizers allow the students to identify the missing information or absent connections in one's strategic thinking (Ellis, 2015). According to Conditorio (2010), graphic organizers facilitate student comprehension of science content by showing the interrelatedness of ideas; providing visual cues to help students process the information; and allowing students to direct their own learning by keeping graphic organizers open to interpretation and independent thinking. In fact, dozens of empirical studies were conducted to verify the efficacy of such organizers, and some of these studies asserted their viability for teaching science subjects (Atomatofa, 2013; Chang, & Liu, 2014; Dexter, Park, & Hughes, 2011; Omondi, Keraro, & Anditi, 2018; Wachanga, Arimba, & Mbugua, 2013). It is found that these organizers help the students visualize the abstract ideas, divide the writing tasks into smaller palatable parts, and monitor

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Salesforce Certified B2C Commerce Architect Sample Questions (Q40-Q45):

NEW QUESTION # 40

An Architect has been approached by the Business with a request to create a custom product finder. The finder would initially be available on only one site, and would eventually be extended to be available on all sites the Business maintains. There is a requirement that these writings are also available to be used in a Job context for export to other systems.

Each site will have a different category available for use by the product finder.

Where should the Architect store the custom settings for use on both the storefront and in a job context?

- A. Custom Object with a Site Scope
- B. Jobs Framework parameters
- **C. Custom Object with an Organizational Scope**
- D. Category custom attributes

Answer: C

Explanation:

To manage custom settings for a product finder that needs to be accessible both on the storefront and in a job context, storing these settings in a Custom Object with an Organizational Scope is most appropriate. This allows the settings to be centralized and accessible across different sites and job contexts, ensuring consistency and reusability of the configurations:

* Organizational Scope: Enables settings to be shared across multiple sites without duplicating data, maintaining a single source of truth for configurations that affect various parts of the organization.

* Custom Object: Provides the flexibility to define specific attributes and values that are unique to the business requirements of the product finder and other integrations.

NEW QUESTION # 41

A third party survey provider offers both an API endpoint for individual survey data and an SFTP server endpoint that can accept batch survey data. The initial implementation of the integration includes

1. Marking the order as requiring a survey before order placement
2. On the order confirmation page, the survey form is displayed for the customer to fill
3. The data is sent to the survey provider API, and the order is marked as not requiring a survey. Later it was identified that this solution is not fit for purpose as the following issues and additional requirements were identified:
 1. If the API call fails, the corresponding survey data is lost. The Business requires to avoid data loss.
 2. Some customers skipped the form. The Business requires sending a survey email to such customers.
 3. The Order Management System (OMS) uses a non-standard XML parser it did not manage to parse orders with the survey, until the survey attribute was manually removed from the xml.

How should the Architect address the issues and requirements described above?

- A. Create a custom session attribute when the survey is required. Send to the API endpoint in real-time. On failure, capture the survey data in the session and reprocess, use the session attribute to send emails for the cases when survey was skipped.
- B. Send the survey data to the API endpoint in real-time until the survey data is successfully captured. Instruct the OMS development team to update their XML parser, use the Order survey attribute to send emails for the cases when the survey was skipped.
- C. Create a custom object to store the survey data. Send to the API endpoint using a job. On success, remove the custom object. On failure, send the survey data with API from the next execution of the same job. Use the custom object to send emails for the cases when the survey was skipped.
- **D. Create a custom object when the survey is required. Send to the API endpoint in real-time. On success, remove the object. On failure, capture the survey data in the custom object and later reprocess with a job. Use the custom object to send emails for the cases when survey was skipped.**

Answer: D

Explanation:

This approach addresses all concerns: data retention, reattempt on failure, and follow-up communication. By storing survey data in a custom object, data is preserved even if the API call fails, allowing for reprocessing.

This method also facilitates sending follow-up emails by querying custom objects for surveys that were skipped, ensuring comprehensive coverage and reliability in data handling and customer engagement.

NEW QUESTION # 42

A new dent is moving from their existing ecommerce platform to B2C Commerce. They have an existing service that connects to the Email Marketing System. The endpoint of the service can directly parse the data posted by the customer from the Storefront page for marketing materials subscriptions. it if required that theservice implementation on the B2C Commerce site supports authentication and encoding.

What type should the Architect document this new service as?

- A. HTTP Form
- B. SOAP
- C. HTTP
- D. Generic

Answer: C

Explanation:

For a service that connects to an Email Marketing System where the endpoint can directly parse data posted by the customer from the storefront for marketing material subscriptions, documenting the service as an HTTP service is appropriate. This type of service will likely involve straightforward HTTP requests with authentication and encoding to ensure data integrity and security. The HTTP service type supports these requirements effectively, facilitating secure, reliable data transmission between the storefront and the email marketing system.

NEW QUESTION # 43

The Client currently manages Customers, Inventory, and Product Information with dedicated backend systems as shown In the Systems Diagram below. There is also an external Email Marketing System (EMS) in place.

The EMS needs order data to email recommendations to customers using an existing email campaign. These recommendations should be to only send for products that are in stock. The EMS has no access to the backend systems so this data should come from the Salesforce B2C Commerce site.

Which relationships should be added to the Systems Diagram to complete it and fulfill the chant requirements necessary for the email campaign?

- A. Order and Customer data should be exported from Production. Product and Inventory data should be exported from Staging.
- B. Order, Customer, and Inventory data should be exported from Production. Product data should be exported from staging.
- C. Order andInventory should be exported from Production. Products should be exported from Staging. Customers should be exported from the external Customer Management System.
- D. Order, Customer, and Product data should be exported from Staging. Inventory data should be exported from Production.

Answer: A

Explanation:

In the given scenario, where the Email Marketing System (EMS) requires order data to send product recommendations based on stock availability, it is crucial that the most up-to-date and relevant data is used.

Here's why the chosen data sources are appropriate:

* Order and Customer Data from Production: Since order and customer interactions occur in real- time, exporting this data from the Production environment ensures that the most current information is used for the email marketing campaigns. This accuracy is vital for personalization and timeliness of the communications sent to customers.

* Product and Inventory Data from Staging: Given that the staging environment is typically one step behind production and is used for testing before changes go live, it provides a stable dataset that reflects what is currently live without the risk of including any unvetted changes. This setup is suitable for inventory and product data, which are less susceptible to minute-by-minute changes compared to order data and can be pre-validated before use in marketing efforts.

This configuration helps ensure that the EMS has access to reliable data reflecting current stock levels and product details, which is essential for crafting accurate marketing messages based on product availability.

NEW QUESTION # 44

A company manages its regional operations asseparate businesses. The regional sites (Site A and Site B) operate with:

* Separate realms

- * Deferent code bates
- * Different category navigation menus
- * Frequent updates on category structure

The requirement from the business is to provide hreflang link tags on category pages pointing to the same category on the other regional site. Example MTML for one of these links as displayed on Site A is:

Which solution should the Architect choose while keeping performance in mind?

- A. Create a custom Business Manager module. Ask the business to maintain the hreflang link tags for each regional site in this Business Manager module.
- B. Create additional locales in al realms create a new custom attribute on the category that is localized. Populate the attribute with the other site URLs and use it to display the hreflang tag.
- **C. Create a new custom object type Populate the hreflang mapping for each category and locale in this custom object. Use the custom object to display the hreflang link tag.**
- D. Create a new custom attribute on the Category. Populate the attribute with the other entire site URLs corresponding to locales In JSON Format. Use the attribute to display the hreflang link tag.

Answer: C

Explanation:

For a multi-regional setup with different realms and frequent updates, using a custom object to manage hreflang mappings offers flexibility and scalability. Custom objects can efficiently store URL mappings for each category across different locales, making it easier to manage and update as category structures change.

This method allows for centralized control over hreflang mappings and simplifies maintenance compared to other options which might involve more complex integrations or manual updates.

NEW QUESTION # 45

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