

DEVELOPING WEBSITE FOR TEACHING DIGITAL TOOLS IN ARCHITECTURE AND CREATIVE TECHNOLOGY PROGRAMS

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Highlights: This study would discuss the development of a website used to teach digital tools for architecture and creative technology programs. The websites that had been developed would allow lecturers to manage student learning progress and assignment submissions in a single unified database to focus on giving the best feedback to the students.

Keywords: web application in education, online learning, website development, teaching materials, database in teaching and learning

Introduction

Online learning has become the primary means for teaching during the Covid-19 pandemic. Lecturers are forced to use web-based technologies to prepare materials and communicating with students in their respective courses. Tools such as Learning Management System (LMS) and authoring are used tremendously in various university courses to manage and prepare the teaching and learning activities (Abdulrahaman et al., 2020). This study will explore the use of websites and web-based technologies in enhancing the experience of teaching and learning activities in the context of digital tools for architecture and creative technology programs. We want to highlight the method used in designing the system needed and any consideration we need to use to achieve the objective and goals of teaching and learning activities. We also outline the web tools that can be used and how they can be integrated with the developed website (Cook & Dupras, 2004). Findings from the website's usability would allow us to learn the limitation, opportunities and potential of such methodology in teaching digital tools for architecture and creative technolog for architecture and creative technology. Implications are discussed, and such activities' ability to enhance the student experience while learning digital tools is analysed.

Content

1. Description

The websites that had been developed would allow lecturers to manage student learning progress and assignment submissions in a single unified database to focus on giving the best feedback to the students. The website also would allow faster sharing of teaching materials to the students, especially lecture notes and software tutorials (Schindler et al., 2017). The main requirement for the website are:

- To provide teaching materials and customised software tutorials for students.
- Provide a place for students to submit their assignment progress and final artwork.
- The progress submitted needs to be given feedback. Therefore, the website also would provide feedback pages for each progress the students submitted.

2. Background

The courses involve SGA2343 Computer-Aided Design, SGD2373 Design Communication 2 and CFT1093 Computer and Arts. These courses are heavily focused on software to create design and artworks digitally. Moreover, students need to be given feedback as soon as they submit their progress. As these courses are hands-on, the student consistently needs to get guidance from the lecturer.

3. Why are they important?

Previously a lot had been done to address the need for a proper dashboard or place for all materials in the online teaching and learning experience. However, the need for faster sharing on how to use software and other digital tools and a place to collect students' work progress and become a "one-stop centre" for all the materials makes developing this website an excellent experience in teaching and learning.



4. Advantages

- Allow faster sharing between students and lecturers
- Allow faster tracking on student progress
- Provide a unified database for all activities and course needs.

References

Abdulrahaman, M. D., Faruk, N., Oloyede, A. A., Surajudeen-Bakinde, N. T., Olawoyin, L. A., Mejabi, O. V., Imam-Fulani, Y. O., Fahm, A. O., & Azeez, A. L. (2020). Multimedia Tools In The Teaching And Learning Processes: A Systematic Review. Heliyon, 6(11), E05312. Https://Doi.Org/10.1016/J.Heliyon.2020.E05312

Cook, D. A., & Dupras, D. M. (2004). A Practical Guide To Developing Effective Web-Based Learning. Journal Of General Internal Medicine, 19(6), 698–707. Https://Doi.Org/10.1111/J.1525-1497.2004.30029.X

Schindler, L.A., Burkholder, G.J., Morad, O.A. _Et Al._ Computer-Based Technology And Student Engagement: A Critical Review Of The Literature. Int J Educ Technol High Educ 14, 25 (2017). <u>https://Doi.org/10.1186/S41239-017-0063-0</u>