

### **GROUP LABORATORY ACTIVITY 03**

#### **A proposed Web-based course/ program Recommendation platform: retoCourse for assessing Grade 12 Students' Interest, knowledge, and capabilities.**

**Sole Author (DE VERA, Paul Christian H.)**

#### **OLD**

##### **1. Citation**

According to new research assessment dominates students' thinking in higher education and determines what they will focus on in their studies. But since every student is unique in their own way it is important that there is an appropriate methodology to be used when assessing them in order to discover and recognize these characteristics. With that said, generalizing will only lead to lack of understanding towards the academic standards and expectations. In order to improve these assessments to students there are needs of consideration and proper procedure to be made in order to gain a better understanding of learning and better judgment (McConlogue, 2020).

#### **Reference**

McConlogue, T. (2020). Assessment and Feedback in Higher Education: A Guide for Teachers. London, England: UCL Press.

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#### **Reference**

McConlogue, T. (2020). Assessment and Feedback in Higher Education: A

Guide for Teachers. UCL Press.

**Multiple Author (ADRANEDA, Ruby Ruth V.)**

**OLD**

**2. Citation**

According to Mondal, B., Patra, O., Mishra, S., Patra P., (2020), The development of new abilities in students and the educational system is being greatly aided by the online courses. Universities now provide a huge selection of online certificates and courses through open learning platforms on the internet. Because there is no in-person consultation with an expert, students may unintentionally choose inappropriate courses and may not be able to assess how well the courses will fit their needs and save them time and money. This research suggests a machine learning strategy to suggest appropriate courses to learners based on their prior performance and learning history.

**Reference**

Mondal, B., Patra, O., Mishra, S., Patra P. (2020 March 14), A course recommendation system based on grades. IEEE10.1109/ICCSEA49143.2020.9132845

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**Reference**

Mondal, B., Patra, O., Mishra, S., & Patra, P. (2020). A course recommendation system based on grades. IEEE

<https://ieeexplore.ieee.org/abstract/document/9132845/authors#authors>

**OLD**

**3. Citation**

According to Zhang, H., Huang, T., Zhihan, L., Liu, S., Zhou, Z. (2017) Online courses

**Ms. STEPHANIE ROSE T. BASILIO**

Instructor 1, BPSU-CICT

are more available as MOOC platforms become more widely used. Learning effectiveness can be increased by offering effective and suitable course recommendations. The closed educational environment, where the number of courses and users is rather consistent, applies the traditional recommendation system. The recommendation model and algorithm cannot be successfully applied to the MOOC platform.

## **Reference**

Zhang, H., Huang, T., Zhihan, L., Liu, S., Zhou, Z. (2017). MCRS: A course recommendation system for MOOCs. Multimed Tools [doi.org/10.1007/s11042-017-4620-2](https://doi.org/10.1007/s11042-017-4620-2)

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## **Online Reference (CRUZ, Allyssa Q.)**

## **OLD**

### **4. Citation**

A Web Application or Web app is an application program that is stored on a remote server and conveyed via the Internet through a web browser. It can be designed for a wide range of purposes and used by anyone, for a variety of reasons. Webmail, online calculators, and e-commerce stores are examples of commonly used Web applications. Some Web apps can only be accessed through a particular browser, but the majority are accessible regardless of browser ("Web Application (Web App)," 2019).

## **Reference**

Web application (Web app). (2019, August 26). Retrieved from

<https://www.techtarget.com/searchsoftwarequality/definition/Web-application-Web-app>

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### **Reference**

*Web application (Web app)*. (2019, August 26). SearchSoftwareQuality.  
<https://www.techtarget.com/searchsoftwarequality/definition/Web-application-Web-app>

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### **5. Citation**

According to Sachdeva (2021), a recommendation system is a software system that gives specific recommendations to users based on their preferences. These tools may provide the user with decision-making abilities. In addition to that, a recommender system is designed for a specific type of application regarding the components it recommends. Also, its graphical user interface and design are designed according to it. The creation of this recommendation system arose from the idea of individuals relying on others to make decisions in their lives.

### **Reference**

Sachdeva, S. (2021, August 25). Developing A Course Recommender System using Python. Retrieved from  
<https://www.analyticsvidhya.com/blog/2021/08/developing-a-course-recommender-system-using-python/>

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### **Citation**

According to (Sachdeva, 2021), a recommendation system is a software system that gives specific recommendations to users based on their preferences. These tools may provide the user with decision-making abilities. In addition to that, a recommender system is designed for a specific type of application regarding the components it

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### **Online Reference (ADRANEDA, Ruby Ruth V.)**

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#### **6. Citation**

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#### **Citation**

According to (B. Mondal, O. Patra, S. Mishra and P. Patra 2020), Universities now provide a huge selection of online certificates and courses through open learning platforms on the internet. Because there is no in-person consultation with an expert, students may unintentionally choose inappropriate courses and may not be able to assess how well the courses will fit their needs and save them time and money.

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### **Books (DE VERA, Paul Christian H.)**

**Ms. STEPHANIE ROSE T. BASILIO**  
Instructor 1, BPSU-CICT

**OLD**

**7. Citation**

Nkongolo (2017) states that the issue of the course selection in the university can pose a major challenge for students. As they may have to choose between courses restricted to their subject area and optional courses they may be interested in. Additionally, students may have their own preferences and may favor a certain optional course over others, however, with lack of knowledge about the course's in-depth content coverage. They would not be able to make informed decisions in order to maximize their enjoyment with their studies and the success of their performance in that course. With the problem being identified there is a need to develop a system that can assist students in making these decisions.

**Reference**

Nkongolo, M. (2017). A Web-Based Prototype Course Recommender System  
Using Apache Mahout. Munich, Germany: Grin Verlag.

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Nkongolo, M. (2017). A Web-Based Prototype Course Recommender System  
Using Apache Mahout. Grin Verlag.

**Publication - Journals (ANGELES, Christian C.)**

**OLD**

**8. Citation**

According to Ramachandiran, M., & Dhanapal, S. (2018), greater information availability as a result of increased use of digital media has a significant impact on postgraduate decision-making in Higher Education. The findings demonstrated a circular

decision-making technique with evidence of rational and emotional judgements, and students did not always start with a huge number of possibilities. Online forums, Word-of-Mouth/electronic Word-of-Mouth from past/current students, family and friends were key effects when students considered postgraduate courses from one month to four years prior to beginning a degree.

## **Reference**

Ramachandiran, M., & Dhanapal, S. (2018). Academic Stress Among University Students: A Quantitative Study of Generation Y and Z's Perception. *Pertanika Journal of Social Sciences & Humanities*, 26(3). Retrieved from [http://www.pertanika.upm.edu.my/resources/files/Pertanika%20PAPERS/JSSH%20Vol.%2026%20\(3\)%20Sep.%202018/51%20JSSH-2949-2018.pdf](http://www.pertanika.upm.edu.my/resources/files/Pertanika%20PAPERS/JSSH%20Vol.%2026%20(3)%20Sep.%202018/51%20JSSH-2949-2018.pdf)

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[http://www.pertanika.upm.edu.my/resources/files/Pertanika%20PAPERS/JSSH%20Vol.%2026%20\(3\)%20Sep.%202018/51%20JSSH-2949-2018.pdf](http://www.pertanika.upm.edu.my/resources/files/Pertanika%20PAPERS/JSSH%20Vol.%2026%20(3)%20Sep.%202018/51%20JSSH-2949-2018.pdf)

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### **9. Citation**

According to Zhang H., Huang T., Lv Z., Liu S., & Zhou Z. (2017), Course recommendation that is efficient and relevant can boost learning efficiency. Traditional

recommendation systems are used in a closed educational setting with a generally consistent number of courses and users.

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#### **10. Citation**

According to Jian W., Pardos Z., & Wei Q. (2019), With cross-disciplinary academic interests growing and academic advising resources being stretched thin, the need of evaluating data-assisted ways to enhance student decision making has never been greater. They develop a novel recurrent neural network-based recommendation system for suggesting courses to help students prepare for target courses of interest, personalized to their estimated prior knowledge background and zone of proximal development, based on the findings and methodologies of a rapidly developing literature on prediction and recommendation in higher education.

### **Reference**

Weijie Jiang, Zachary A. Pardos, & Wei Q. (2019). Goal-based Course Recommendation. In Proceedings of the 9th International Conference on Learning Analytics & Knowledge (LAK19). Association for Computing Machinery, New York, NY, USA, 36–45. Retrieved from <https://doi.org/10.1145/3303772.3303814>



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