PGD/M 11

Assistive tool for the Evaluation of online Exam Papers in Tertiary Education

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December 2022

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I certify that I have read this thesis and that in my opinion it is fully adequate, in scope and in quality, as a thesis for the degree of Master of Science.

30/3/2023

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DECLARATION

I hereby declare that this thesis represents my own work which has been done after registration for the degree of M.Sc. at Sri Lanka Institute of Information Technology, and has not been previously included in a thesis or dissertation submitted to this or any other institution for a degree, diploma or other qualifications. I have read the University's current research ethics guidelines, and accept responsibility for the conduct of the procedures in accordance with the University's Law. Finally, it describes the research methodology used to accomplish the objectives of this project and makes recommendations for future research.

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Date: 24/11/2022

ABSTRACT

Digital education or online education is a necessity of the age for all students and educators. Of these, the online exams occupy a leading position. Because both parties finally face that experience.

According to current difficult world situation (especially covid 19) online exams help for educators and students to continue their education.

That situation students may face to a successful online exam paper and teachers must be prepared standard online exam paper. I considered what the best methods are and what are the draw backs of current online examination systems in tertiary level. Also, I have researched how to evaluate online exam paper in those platforms.

I have discussed with exam platform developers and collect information. After collecting these data then analyze and make report for the final thesis.

This project's main aim is to automate the evaluation process of the online exam paper. Here I reveal the bloom's revised taxonomy level of each question and generate report. Then find how many percentages covered by the online exam paper of related course unit.

This platform allows for educators to login and prepare the question paper and evaluate it. System will provide report and educator can analyze it. I use Bloom's Revised Taxonomy model to evaluation process. Further I applied Natural Language Processing technology for reveal the percentage of course unit that covered by the exam paper. I used python, Django, HTML, CSS and JavaScript as other technologies.

ACKNOWLEDGEMENT

I would like to express my sincere gratitude to Mr. Samantha Rajapaksha and Dr. Anuradha Jayakodi - Department of Computer Systems Engineering at Srilanka Institute of Information Technology for allowing me to undertake this work.

I am grateful to my supervisors Associate Professor Dr. Dasuni Nawinna Assistant Professor - Department of Computer Systems Engineering for her continuous guidance advice effort and invertible suggestion to carry out my research successfully and without her continuous support this study would not have been possible.

I would also like to thank members of our batch those who helping to carry out my research. I would also like to thank Mr. Dilpa - Lecturer, University of Ruhuna for encouraging me to carry out this project.

I would also like to thank my friends of Master of Information Technology batch 2021 January and finally I would like to express my sincere appreciation to my parents especially my life-partner for encouraging and supporting me throughout the study.

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