

LITERATURE SURVEY

- Pawan Kumar, Sagar Yadav, Prof. Gurpreet Kaur has published “Online integrated platform for projects taken up by the students of various colleges” in June 2022 in International Journal For Technological Research In Engineering. The author of this work has developed an integrated platform for student projects. They utilised the Jaccard Index to uncover similarities in the project in order to detect plagiarism. This research article is my motivation for this project since it explains how to think about this project and what factors to consider when creating it.[1]
- Sanket Kale, Aniket Shewale, Premasagar J. Sarang, Prasad S. Pawar, Safia Sadruddin proposed, “Project Management System(PMS)” in 2004 in which they implemented a system which can manage project cognate all work consummated by utilised and Project coordinator or guide. Coordinator updates project cognate information, view work done by a student at which time and view progress chart of work done by student, progress chart is developed utilising WBS (“Work Breakdown Structure”). The current system is developed for single department of college. The further modification of the project is to create or expand the system in such way that it can be used at various institute or organisation levels.[2]
- Vladislav Scherbini and Sergey Butakov proposed “Plagiarism detection :the tool and the case study” in 2008 in that they applied winnowing algorithm for implementing calculations of fingerprints. To build an anti-plagiarism plug-in for Moodle CMS(Course Management System) so that it should incorporate the advantages of local and global search and it should be open-source solution to contribute to the Moodle community. The developed prototype does not satisfy all the requirements for Moodle plug-ins because it uses some Microsoft technologies but the same algorithms could be easily implemented using PHP language as it necessary for Moodle.[3]
- Kerry Xu, Adrien Nurboja proposed “Use of algorithms in detecting intrinsic and extrinsic plagiarism through NLP and machine learning” in 2017 in that applied natural language processing, natural language toolkit, tokenization, punkt sentence tokenizer, stop word removal, stemming and stemming algorithms like Porter algorithm, Lancaster stemmer, Lemmatization, NLP on plagiarism detection. Extrinsic plagiarism suffers from computationally demanding tasks and face difficulty when detecting plagiarism with heavy modification. While the accuracy of intrinsic plagiarism detectors are much lower and often result in the suspected document being checked by a human.[4]

- Rival Fauzi, Muhammad Iqbal, Tita Haryanti has published “Design and Implementation of a Final Project Plagiarism Detection System Using Cosine Similarity Method” in 2021 in International Journal of Applied Information Technology. The author of this research study developed a plagiarism detection system based on the cosine similarity algorithm. The author has also conducted research on which algorithms may be employed more effectively for plagiarism detection. One restriction we discovered is that it does not examine projects or research papers from the real-time web, but rather from their database.[5]

- Tomas Foltynnek has published “Academic Plagiarism Detection: A Systematic Literature Review” in 2019 in ACM Computing Surveys. The author conducted research on all plagiarism detection research papers published between 2013 and 2018 and discovered many plagiarism detection strategies and algorithms. Author discovered hazards in which algorithm and why we should select one of them. By reviewing over 239 research articles, the author discovered all of the different methodologies utilised in plagiarism detection. We were able to determine the method to use by reading this study, although the data investigated was restricted to 2018.[6]

- Niraj Mohabey, Yash Gavanang, Abubakkar Khan Laves Singh Chib, Bhushan Patil has published “PLAGIARISM DETECTION FOR PROJECT REPORT USING MACHINE LEARNING” in 2013. This paper focuses on machine learning techniques for plagiarism detection and discusses different approaches, algorithms, and datasets used in detecting plagiarism, along with their advantages and limitations. The paper also presents some future research directions in this area. Research has produced initial results showing that our content-protecting method achieves the same detection effectiveness as the original method while making it practically impossible to reveal the protected content through common attacks.[7]

- Saravana Balaji.B ,Rajshree.R , Prasanth.S has published “A Survey on Plagiarism Detection” in 2023. This paper presents a survey on plagiarism detection systems. The detailed Study of Common feature of different detection systems are described. After that a proper Research was done on the different types of Detection of plagiarism was done which are-Plagiarism in documents, Plagiarism in codes, Plagiarism techniques, Plagiarism algorithms. Then they searched about the number of algorithms that have been proposed to detect plagiarism. The simple algorithm were based on string comparisons and they were implemented as below: Remove all comments, Ignore all blanks and extra lines, except when needed as delimiters, Perform a character string comparison between the two for all program pairs.[8]

- Md. Feroz Ahmmed has published “PLAGIARISM DETECTION SYSTEM” in 2016. This document is the Software Requirements Specification (SRS) for the Plagiarism Detection System (PDS). It contains detailed functional, non-functional, and support requirements and establishes a requirements baseline for development of the system. The requirements contained in the SRS are independent, uniquely numbered, and organised by topic. This document will address two key themes in terms of the Plagiarism Detection System - A submission system of authenticated users and plagiarism detection of submitted documents. Learned the step wise process of developing a plagiarism detection system. And what should be the requirements.[9]

- Dr. Nisha Soms, S Prashanth, P Preethika, D Deepak Kumar has published “Student Project Management System” in march 2021. They have build a web based platform for he management, tracking and supervision of students' final year projects. All registered students and project guide log into the system. Students form their own classes and select the project domain out of 3 domains provided. As soon as they choose the domain, system automatically assigns them project guide. Supervisors assigns the work to students and based on the work completed, progress chart is generated for the given group. They have used job breakdown structure to build progress map(WBS). Students are automatically assigned the marks based on the progress chart generated. They have not provided the Authenticity of the work uploaded by the students. Only 3 domains were provided to students to finalise their project domain. WBS will be different for different colleges hence no standard format can be specified.[10]

- G.A.D Pradeepa S. Seneviratna, S.T. Nandasara has published “Web Based Project Collaboration, Monitoring and Management system” in December 2014. There consist of five types of basic user named as System administrator, Project manager, Team Leader, Team member and Client. Each software project is categorised based on business type, project area and development languages. Project manager creates team leader and adds client details in system. Progress of the project is calculated based on the weight for each phase. They have provided Paypal and Authorize.NET payment gateway for clients to pay directly. Customers can raise trouble ticket which helps to handle the customer issues systematically. System administrator can set customer portfolio and interface theme. Their system can generate report for projects, team members, and support ticket. It is limited to the industry project planning and considers only those aspects which are involved in Project planning for large scale projects.[11]

- University of Manchester has published “Software Plagiarism detection using model-driven software development in eclipse platform” in 2008. They have used front-end to convert source programs from different programming languages into generic models. Eclipse Modeling Framework is used to generate a Java implementation of these models, Plagiarism detection is applied on these models permitting to reuse the same comparison engine for many different programming languages. They have finally displayed the results on a dedicated user interface, reporting accuracy and performance testing. They used JFreeChart library to create an histogram of the similarity value and the hierarchical results structure is scanned to display the detected matches in the side-by-side view. The realisation of detection tests on many types of data. But for the project the available test data was programs of java, etc. The possible improvements concern mostly performance. Several refactoring may also lead to significant improvements in the performances.[12]

REFERENCES

- [1] Pawan Kumar, Sagar Yadav, Prof. Gurpreet Kaur “Online Integrated Platform for Projects taken up by Students of various Colleges”, June 2022
- [2] Sanket Kale, Aniket Shewale, Premasagar J. Sarang, Prasad S.Pawar, Safia Sadruddin,”Project Management System(PMS),”2004
- [3] Vladislav Scherbinin,Sergey Butakov,”Plagiarism Detection: The Tool and the Case Study”,Jan 2008
- [4] Kerry Xu,Adrien Nurboja,”Use of algorithms in detecting intrinsic and extrinsic plagiarism through NLP and machine learning.”,2017
- [5]Rival Fauzi, Muhammad Iqbal, Tita Haryanti, “Design and Implementation of a Final Project Plagiarism Detection System Using Cosine Similarity Method”,2021
- [6] TOMÁŠ FOLTÝNEK, “Academic Plagiarism Detection: A Systematic Literature Review” , 2019
- [7] Niraj Mohabey, Yash Gavanang, Abubakkar Khan , Lavesh Singh Chib, Bhushan Patil "PLAGIARISM DETECTION FOR PROJECT REPORT USING MACHINE LEARNING",May - June – 2023
- [8] Saravana Balaji.B ,Rajshree.R , Prasanth.S "A Survey on Plagiarism Detection" ,December 2013
- [9] Md. Feroz Ahmmed "PLAGIARISM DETECTION SYSTEM" , May 3, 2016
- [10] Dr. Nisha Soms, S Prashanth, P Preethika, D Deepak Kumar, "Student Project Management System", 2021
- [11] G.A.D Pradeepa S. Seneviratna, S.T. Nandasara has published, “Web Based Project Collaboration, Monitoring and Management system”, 2014
- [12] University of Manchester, “SOFTWARE PLAGIARISM DETECTION USING MODEL-DRIVEN SOFTWARE DEVELOPMENT IN ECLIPSE PLATFORM”, 2008