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Online Integrated Platform For project taken By Students

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ABSTRACT: Innovation is the key to betterment of education and students put a lot of effort into their projects. In this paper/project, we presented is to create a web-page that hosts projects undertaken by different students with plagiarism checking and enables peer learning and knowledge gaining. A plagiarism checking compressed of checking on various online repositories, also stores the student's project in its own repository in the database. We also aim to provide secure access to login for users. This project also enhances with the chat section, where students will be clarified their doubts through chat bot.

KEYWORDS: Student project handling, peer learning, plagiarism checker,

I. INTRODUCTION

In today's digital age, the internet has made it incredibly easy to access vast amounts of information on almost any topic. However, with this ease of access comes the risk of plagiarism, which is a serious concern for students and educators alike. To address this problem, many schools and universities require students to use plagiarism detection software to ensure that their work is original. Additionally, students may have doubts about whether their work meets the academic requirements or if they have inadvertently plagiarized content. To address these concerns, a new type of website has emerged that offers plagiarism checking with the added benefit of a chatbot to help students clear their doubts.

Paper is organized as follows. Section II describes related works, and other models on this topic and tells how it differs from them. The flow diagram represents the step of the algorithm, detection of plagiarism, and other features that are given in Section III. Section IV presents experimental results showing results of our project. Finally, Section V presents a conclusion.

II. RELATED WORK

The following paragraph discusses various techniques used in the field of plagiarism checking. The concept of plagiarism detection was first introduced by researchers in the field of natural language processing and information retrieval. Several techniques have been proposed for plagiarism detection, including rule-based, signature-based, and machine learning-based approaches. In rule-based approaches, predefined rules are used to identify potential instances of plagiarism, such as matching exact phrases or sentences. Signature-based approaches use hash functions to create a unique signature for each document and compare them to identify similarities. Machine learning-based approaches use statistical models to learn the patterns of plagiarism and identify suspicious instances. In recent years, deep learning-based approaches have gained popularity for their ability to capture complex patterns in text data. Techniques such as neural networks, convolutional neural networks (CNN), and recurrent neural networks (RNN) have been used for plagiarism detection with promising results. Additionally, the use of natural language processing (NLP) techniques such as word embeddings and semantic similarity measures has also shown significant improvements in plagiarism detection accuracy.

This project aims to develop an easy-to-use and free plagiarism checking system for students and colleges, despite the availability of other paid services online. In addition to the plagiarism checking tool, the proposed system will also

feature a chatbot that can interact with students, provide guidance on avoiding plagiarism, and clarify any doubts they may have. By integrating these two components, the system will offer a comprehensive solution for plagiarism prevention and provide valuable assistance to students throughout the writing process.

III. METHODOLOGY

The proposed method for plagiarism checking with chat bot support utilizes a combination of techniques to provide a comprehensive solution for plagiarism prevention and guidance for students. The system incorporates an easy-to-use and free plagiarism checking tool, along with a chatbot that can interact with students, provide guidance on avoiding plagiarism, and clarify any doubts they may have. To prevent plagiarism, the system employs advanced techniques such as similarity checks, keyword analysis, and contextual analysis. The chat bot is trained on a vast database of academic and writing resources, allowing it to provide accurate and relevant guidance to students. The system also includes a user-friendly interface that allows students to easily access the plagiarism checking tool and interact with the chat bot. Overall, this system provides an effective and accessible solution for plagiarism prevention and guidance, and has the potential to significantly improve the academic integrity of students.

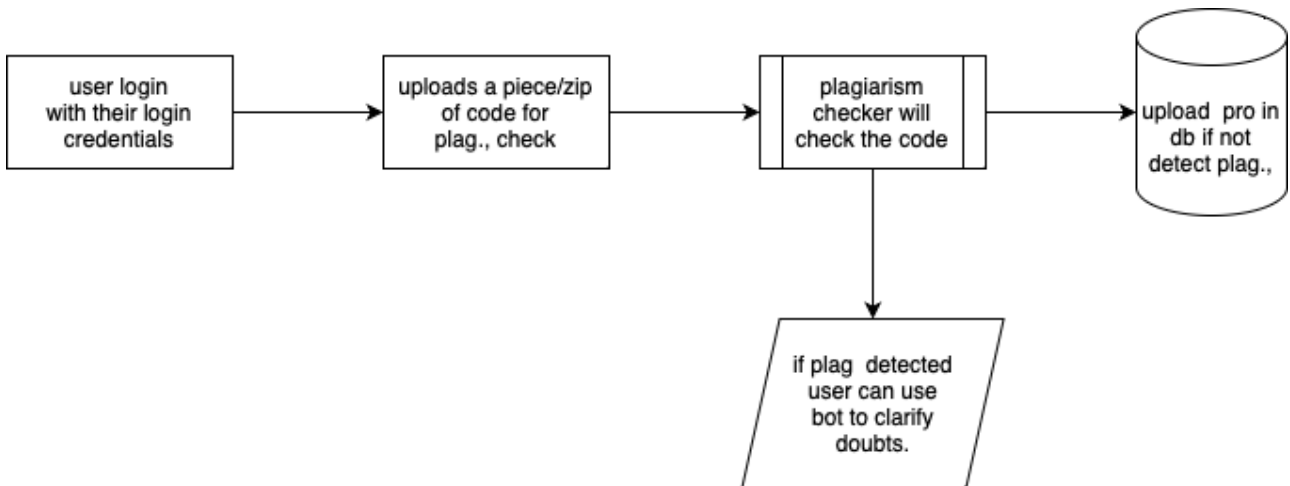


fig 1

The flow diagram (figure 1) for a plagiarism checking with chatbot to clear student doubts website could include the following steps:

1. Users upload their project to the website.
2. The website runs a plagiarism check using a sophisticated algorithm.
3. If plagiarism is detected, the website highlights some of the resources that have the content with plag index measurement.
4. The user can further use chatbot, which engages the user in a conversation to provide further feedback and clarification on the plagiarism detection.
5. The chatbot provides suggestions on how to revise the work to avoid plagiarism and improve the overall quality of the document.
6. The user can then make revisions to their document based on the feedback provided by the chatbot and resubmit it for another plagiarism check.
7. If no plagiarism is detected, the project will be uploaded in the database

IV. EXPERIMENTAL RESULTS

The login page of our plagiarism checking and peer learning website is displayed in Figure 2, where users can securely login using their credentials. Upon successful login, users are directed to the dashboard of the web page, as shown in Figure 3, where they can view all the projects uploaded by them. To upload a project, users need to navigate to the project upload page, as depicted in Figure 4, and upload their project as a ZIP file.

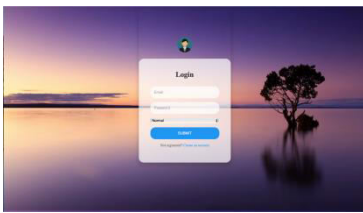


fig 2

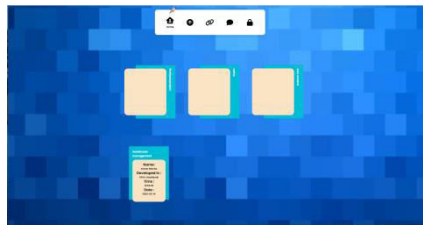


fig 3

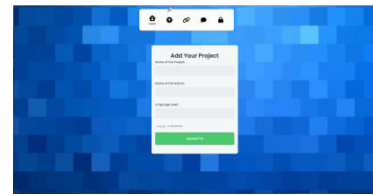


fig 4

Figure 5 displays the result of plagiarism detection from a project uploaded by a user. Users can also run a piece of code for plagiarism checking, as shown in Figures 6. To enhance user experience and provide additional guidance on plagiarism prevention, our website includes a chatbot section customized with Chat GPT, as illustrated in Figures 7 and 8.

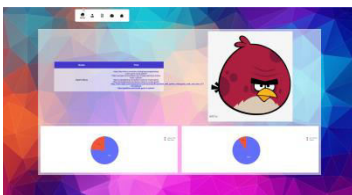


fig 5

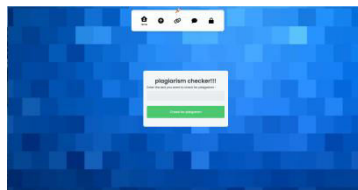


fig 6

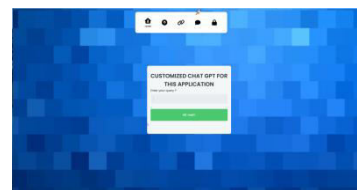


fig 7

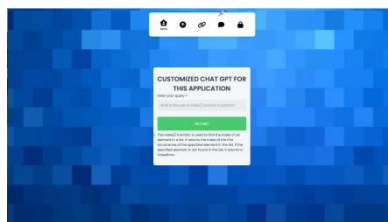


fig 8

The chatbot can interact with users, answer their queries, provide guidance on avoiding plagiarism, and suggest appropriate resources to improve their writing skills. Overall, our website provides an easy-to-use and comprehensive solution for plagiarism checking and peer learning.

V. CONCLUSION

We have integrated the website for plagiarism checking, for the whole project as zip file and piece of code for students reference and chat bot to clear student's doubt on their subjects. Our project successfully works on all aspects. We have applied our project with various code and found that it successfully detect plag., and give answers to the questions asked for bot.



REFERENCES

- [1] S. S. Gill and D. K. Lobiyal, "Plagiarism Detection Using Artificial Intelligence Techniques: A Review," 2021 IEEE International Conference on Computational Intelligence in Control, and Automation (CICA), New Delhi, India, 2021, pp. 302-307. doi: 10.1109/CICA51740.2021.9472911
- [2] N. M. Hussein, F. F. Khadrawi and M. A. Jbarah, "A New Hybrid Plagiarism Detection Technique," 2021 IEEE 6th International Conference on Control, Decision and Information Technologies (CoDIT), Paris, France, 2021, pp. 575-580. doi: 10.1109/CoDIT51346.2021.9429189
- [3] S. S. Ahmed, N. N. Ali and M. M. Hashim, "Plagiarism Detection Techniques in Academic Research: A Review," 2020 International Conference on Communication, Computing and Digital Systems (C-CODE), Riyadh, Saudi Arabia, 2020, pp. 1-5. doi: 10.1109/C-CODE50604.2020.9302237
- [4] A. M. Alshammari, "Plagiarism Detection Techniques: A Survey," IEEE Access, vol. 8, pp. 27838-27853, 2020. doi: 10.1109/ACCESS.2020.2978603
- [5] A. W. Alamri and N. Alruwais, "A Hybrid Approach for Plagiarism Detection in Text Documents," 2020 IEEE 21st International Conference on Information Reuse and Integration for Data Science (IRI), San Diego, CA, USA, 2020, pp. 367-374. doi: 10.1109/IRI49572.2020.00054
- [6] A. Alwahaishi, "Automatic Plagiarism Detection: A Hybrid Approach Based on the Combination of Textual and Graph-Based Features," IEEE Access, vol. 7, pp. 103937-103951, 2019. doi: 10.1109/ACCESS.2019.2931358
- [7] A. Siddiqui, H. A. Raza and M. S. Pasha, "Plagiarism Detection Techniques: A Review," 2019 IEEE 4th International Conference on Computing, Communication and Security (ICCCS), Rome, Italy, 2019, pp. 142-147. doi: 10.1109/ICCCS.2019.00034
- [8] Y. Wu, J. Wu, Y. Xie and L. Yang, "An Automated Plagiarism Detection System Based on Natural Language Processing," 2018 IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE), Wollongong, NSW, Australia, 2018, pp. 972-977. doi: 10.1109/TALE.2018.8615312
- [9] S. Al-Fahad and W. Al-Rahimi, "Plagiarism Detection Techniques: A Comparative Study," IEEE 14th International Conference on Information Technology-New Generations (ITNG), Las Vegas, NV, 2017, pp. 789-793. doi: 10.1109/ITNG.2017.125
- [10] M. Alrajebah, N. Basit, and A. Khan, "Detecting Plagiarism in Source Code Using Latent Semantic Analysis," in Proceedings of the 11th International Conference on Computer and Automation Engineering (ICCAE), pp. 465-469, 2019. DOI: 10.1145/3316680.3316723.



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