

FYP Proposal Submission Form

Detail of Project Members:	MUZAMMIL NAWAZ , CIIT/FA21-BSE-065/WAH , 923055148558 TANVEER HUSSAIN , CIIT/FA21-BSE-078/WAH , 923481219215
Title:	PlagProbe: The Plagiarism Shield
Which real world Problem shall be solved by this project?	PlagProbe solves the increasing challenge of academic plagiarism, where students often copy work from the internet or from eachother. As there is easy access to information online, its easy for students to submit work that is not original. PlagProbe ensures students submit their own work by checking for plagiarism and offering helpful feedback to improve their skills. PlagProbe offers multi-format plagiarism detection such as text , programming code, handwritten work, presentations and it also offers AI tone detection. It also helps teachers manage student submissions, detect similarities between students work, promoting honesty and fairness in learning.
Project Description (What, How and Objectives):	<p>Overall working/summary of this FYP:</p> <p>PlagProbe project is a plagiarism detection system that helps students and teachers detect plagiarism in different types of assignments such as text, handwritten work, programming code and presentations. Students can login, upload their assignments and check for plagiarism. The system will provide detailed report showing any copied content and give suggestions to improve their work. Teachers can create online classes, share a link for students to join and can upload multiple assignments to check for plagiarism, even they can compare student assignments for similarity. Additionally, the system clusters students into groups based on similar content, helping teachers identify potential group plagiarism. The system also includes AI tone detection to detect AI generated content. An admin manages the entire platform, ensuring smooth operations and user management.</p> <p>Name and detail of each module in FYP:</p> <p>1-User Authentication 1.1 Student Login/Registration: Students can create accounts and log in to upload assignments. 1.2 Teacher Login/Registration: Teachers can create accounts and manage classes. 2- Assignment Upload 2.1 Text Upload: Allows students to upload text-based assignments. 2.2 Handwritten Assignment Upload: Supports the submission of handwritten work. 2.3 Programming Assignment Upload: Accepts code files for plagiarism checks. 2.4 Presentation Upload: Allows uploading of presentation slides for originality checks. 2.5 Multiple Assignment Upload: Teachers can upload multiple student assignments for plagiarism checking. 3. Plagiarism Detection Module 3.1 Text Plagiarism Detection: Checks text documents for copied content. Uses TF-IDF to calculate similarity scores by analyzing term frequency and inverse document frequency across documents. Generates a similarity index indicating percentages matched with other students or sources. 3.2 Handwritten Plagiarism Detection: Uses OCR to detect copied content in handwritten assignments. 3.3 Programming Code Detection: Compares programming code using structure-based matching algorithms, providing a breakdown of similarity percentages for code files. 3.4 Presentation Plagiarism Detection: Extracts and analyzes text from presentation slides, using TF-IDF or other NLP techniques for similarity detection. 3.5 AI Tone Detection: Detects AI-generated content using BERT-based models or RoBERTa to identify machine-generated tone or style. 4- Classroom Management 4.1 Class Creation: Teachers can create virtual classes. 4.2 Student Enrollment: Students can join classes using a unique link. 5- Detailed Plagiarism Report and Similarity Visualization 5.1 Detailed Reports: Generates comprehensive plagiarism reports for students and teachers. Displays overall plagiarism percentage and a detailed breakdown of matched content, including similarity percentages with each detected source (e.g., Person A - 5%, Person B - 10%). 5.2 Highlighted Document View: Provides a user-friendly UI to visualize plagiarism within the document, highlighting copied or similar sections in real-time for easy review. 5.3 Feedback and Suggestions: Provides feedback on how to reduce plagiarism. 5.4 Email Report Delivery: Sends the plagiarism report to the user via email. 6- Group Clustering 6.1 Student Grouping by Similarity: Automatically groups students with similar or copied content into clusters. 6.2 Group Reports: Generates a report showing clustered students whose work matches, allowing teachers to easily identify copied work. 7-Admin Management 7.1 Analytics and Insights: Provides data on platform trends and performance 7.2 Class management: Manage class creation and enrollment 7.3 User Management: Manage user accounts (add, edit, delete)</p> <p>Member-wise Module Information:</p> <p>1: Module developed by MUZAMMIL NAWAZ (CIIT/FA21-BSE-065/WAH)?</p> <p>1- User Authentication 1.1 Student Login/Registration 1.2 Teacher Login/Registration 3-Plagiarism Detection Module 3.1 Text Plagiarism Detection 3.2 Handwritten Plagiarism Detection 3.3 Programming Code Detection 3.4 Presentation Plagiarism Detection 3.5 AI Tone Detection 5- Detailed Plagiarism Report and Similarity Visualization 5.1 Detailed Reports 5.2 Highlighted Document View 5.3 Feedback and Suggestions 5.4 Email Report Delivery 6- Group Clustering 6.1 Student Grouping by Similarity 6.2 Group Reports</p> <p>2: Module developed by TANVEER HUSSAIN (CIIT/FA21-BSE-078/WAH)?</p> <p>2- Assignment Upload 2.1 Text Assignment Upload 2.2 Handwritten Assignment Upload 2.3 Programming Assignment Upload 2.4 Presentation Upload 2.5 Multiple Assignment Upload 4- Classroom Management 4.1 Class Creation 4.2 Student Enrollment 7-Admin Management 7.1 User Management 7.2 Class Management 7.3 Analytics and Insights</p>
Project Domain:	✓ Artificial Intelligence
Project Streams:	✓ Web Application
Industrial project:	No
Development Tools:	✓ Laravel (PHP Framework) ✓ Visual Studio Code (IDE)
DBMS:	✓ MySQL
Platform:	✓ Windows
Hardware	