MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA246 – MAIN PROJECT

PRO FORMA FOR THE APPROVAL OF THE FOURTH SEMESTER MAIN PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Main Project Proposal No : _____ *(Filled by the Department)*	Academic Year : 2023- 24 Year of Admission : 2022

1. Title of the Project : PROJECT ~~ABSTRACT GUIDE SYSTEM~~ TRACK ASSISTANT
2. Name of the Guide : PRIYA JD
3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
FARHANA P	MES22MCA-2018	

Date: 22-01-2024

Approval Status : Approved / Not Approved

Signature of Committee Members } Priya JD, Navaneeth C.V, VASUDEVAN T.V

Comments of the Guide — Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of the Project Coordinator — Dated Signature

Initial Submission: Project Track Assistant ✓ 23.01.04

First Review

Second Review

Final Comments :

Dated Signature of HOD

PROJECT TRACK ASSISTANT

Farhana P

Introduction:

In the ever-growing landscape of academic projects, efficiently managing and evaluating them is crucial for both students and teachers. Our project focuses on simplifying this task by developing a system capable of reading and analyzing project abstracts. The key feature of this system is its ability to accurately identify the subject of each project. Once identified, the project abstracts will be automatically routed to the respective teachers who specialize in those subjects. Additionally, our system aims to maintain a comprehensive database by storing project reports, student names, and teachers' information for all batches. This initiative aims to enhance the organization and accessibility of project-related data, facilitating a smoother and more effective collaboration between students and teachers in the academic setting.

Objectives:

The primary objectives of our project are to streamline and enhance the process of managing academic projects within educational institutions. We aim to develop a system that can read and understand project abstracts efficiently. The system will employ content analysis to precisely identify the subject of each project, ensuring accurate alignment. An automated mechanism will be implemented to assign project abstracts to the respective teachers based on their expertise in the identified subjects. Simultaneously, we seek to establish a centralized database to store project reports, student names, and teacher information for all batches systematically. This comprehensive database will promote easy access and efficient management of academic data. Our project also targets the improvement of communication between students and teachers, facilitating effective collaboration. Additionally, we aim to implement security measures to safeguard the confidentiality of project, student, and teacher information. Overall, our objectives focus on creating a user-friendly, secure, and organized system that optimizes the handling and evaluation of academic projects within educational institutions.

Problem Definition:

The current challenge in our academic environment lies in the manual handling of project abstracts, making it time-consuming and prone to errors. Students submit project abstracts, but there is no efficient system to automatically analyze and identify the subject. Consequently, the assignment of these projects to appropriate teachers becomes a tedious process. Furthermore, managing project reports, student names, and guide names for multiple batches lacks organization and may lead to confusion. To address these issues, our project aims to develop an automated system capable of

reading, analyzing, and categorizing project abstracts based on their content. This system will then seamlessly send the abstracts to the corresponding teachers, ensuring a more streamlined and error-free process. Additionally, it will maintain a well-organized database to store project reports, student names, and guide names for all batches, enhancing overall efficiency and communication in the academic project management workflow.

Basic Functionalities:

The proposed system for our project is designed with several key functionalities to automate the process of managing project abstracts, categorizing subjects, and assigning them to the appropriate teachers.

The system encompasses four main phases:

- **Abstract Extraction:** The first phase involves extracting project abstracts from submitted documents. The system will read and process the contents of these abstracts to gather essential information.
- **Content Analysis and Subject Identification:** The extracted abstracts are then analyzed to identify the subject or topic of each project. This involves assessing the keywords and context within the abstract to accurately categorize the projects.
- **Teacher Assignment:** Once the subjects are identified, the system will automatically assign each project to the corresponding teachers who specialize in the relevant subjects. This ensures that projects are directed to the most appropriate mentors.
- **Database Management:** In parallel, the system will maintain a comprehensive database to store project reports, student names, and guide names for all batches. This database facilitates easy retrieval of information and ensures an organized record of the project-related details.

Tools / Platform, Hardware and Software Requirements:

Hardware Specification:

The selection of hardware is very important in the existence and proper working of any of the software. When selecting hardware, the size and capacity requirements are also important. The hardware must suit all application developments.

- Processor: i3 or above
- System Bus: 32Bit or 64Bit
- RAM: 4 GB or Above

- HDD: 128 GB or Above

Software Specification:

One of the most difficult tasks is selecting software, once the system requirement is found out then we must determine whether a particular software package fits for those system requirements. This section summarizes the application requirement.

- Operating System: Windows 10 Any 32-bit or 64-bit platform
- Front End: HTML,CSS,JAVASCRIPT
- Back End: PYTHON/DJANGO