

# Effective Project Management System

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## Abstract:

**T**his project is very useful for those organization who work on project management like college organization. Because it is totally effective of all project which is done by students and project guide. The process from group formation to project submission is all done by this system. All the phases such as project approvals, FTR (Formal Technical Review)'s, project submission and evaluation will be possible. It will help to keep the track of all the project work for finding efficiency of project. It can process abstract and the result like accept or reject can be determined. Also we develop an effective automation tool which will find a domain from abstract using keyword techniques and allocate guide to student automatically according to their related domain. In these we measure overall performance of project such as poor, average and best.

**Keywords:** Data mining, Text mining, abstract selection, Project Evaluation, Guide Allocation.

## I. INTRODUCTION

In this firstly student send abstract towards organization. Then the actually work get started of organization. Then the organization assess the abstract. Various technique get applied on particular abstract and the result is calculated that it is newer project or it is older one. Then result is calculated for abstract get accepted or rejected. Then according to domain of project the guide are get allocated for particular project. And finally the result are calculated on FTR base that is project is best, poor or average. And finally the feedback are send to student.

## II. LITERATURE SURVEY

Selection of projects is a very difficult task or an important task in an organization Previous research deals with specific topics, and several formal methods and models are available for this purpose. The survey of our project is broadly divided into two categories: Database management of Project details and applying data mining techniques on this data.

### 1. Data mining:

The actual data mining task is the analysis of data records and dependencies. Retrieving the required data fields for evaluation purpose, storing back the results and updating new records, etc.

Proposed system is based on fuzzy-logic-based model as a decision tool for project selection. Henriksen and Traynor [3] presented a scoring tool for that is it can matches project evaluation and selection. Ghasemzadeh and Archer [4] offered a decision support approach to project portfolio selection. Machacha and Bhattacharya [5] proposed a fuzzy logic approach to project selection. Butler *et al.* For a text-mining approach to group proposals, identify reviewers, and assign reviewers to proposals. Current methods group proposals according to keywords.

## III. EXITING SYSTEM

In previous system only the project get accepted directly. There is no analysis such a way that it can be found that the certain project is done previously or not . The allocation of guide to student are not get automatically according to their related domain. The overall performance of project such as poor, average and best are not measure in exiting system.

## IV. PROPOSED SYSTEM

In this system the project abstract get accepted and then certain analysis perform on that abstract for finding that the project is done in previously. Various technique can be applied on abstract like tf-idf as well as certain pattern matching technique like fuzzy logic etc. The pattern is match for finding particular project is done by already on it is newer . In this technique only the new topic are accepted and repeatable topic get rejected.

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**1. Roblem Statement**

Table 1: Problem Statement

The problem of	Designing tool for project management.
Affects	Useful for the engineering institutes who conducting the project activities.
The impact of which is	Quality analysis will be done more accurately and efficiently
A successful solution would	It can help to process the abstract and evaluate efficiency.

**2. Goals and Objectives**

The objectives of this project were:  
 Automation in overall college project work.  
 Systematic evaluation of project work.  
 Design method for proper evaluation.  
 Provide single platform for all project activities.

**3. Basic flow Diagram:**

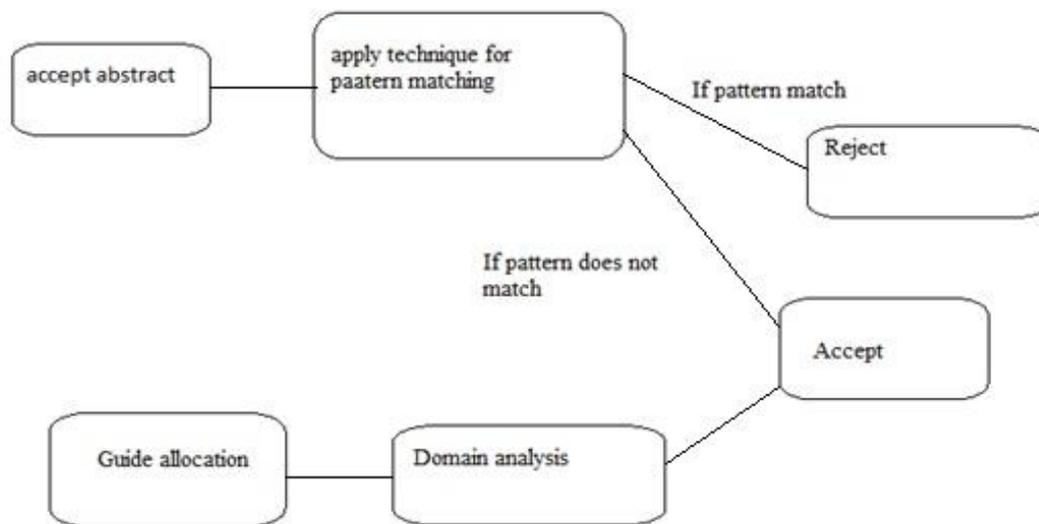


Fig. 1

In above figure the basic flow is stated. First student send abstract then that abstract accepted by the system then text mining can be applied on abstract. If the pattern match then it analyzed that that project is already done so that that topic automatically get rejected. But if pattern does not match then abstract get accepted and domain get analyzed and on the basis of domain the guide get assign automatically.

**4. System architecture:**

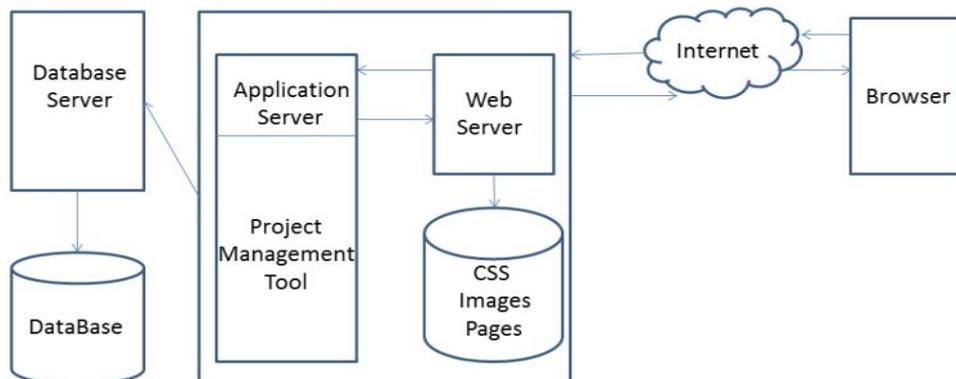


Fig 2

## 5. Text mining technique:

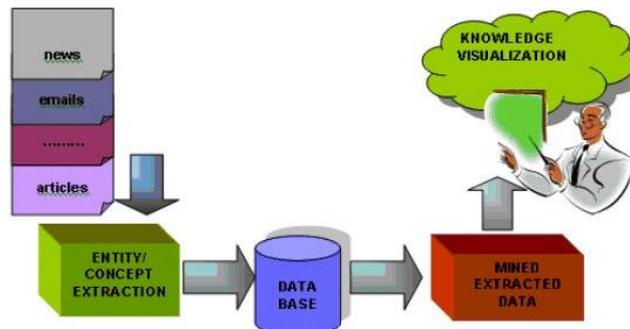


Fig. 3

A diagram shows important entities are extracted and stored in a database. Data mining approach is used to mined the stored data. Hidden knowledge is then visualized.

## 6. TF-IDF

We will now examine the structure and implementation of TF-IDF for a set of documents. We will first introduce the mathematical background of the algorithm and examine its behavior relative to each variable. We then present the algorithm as we implemented it. We will give a quick informal explanation of TF-IDF before proceeding. Essentially, TF-IDF works by determining the relative frequency of words in a specific document compared to the inverse proportion of that word over the entire document corpus. Intuitively, this calculation determines how relevant a given word is in a particular document. Words that are common in a single or a small group of documents tend to have higher TFIDF numbers than common words such as articles and prepositions.

## V. CONCLUSION

Thus we have completely studied and analyzed on project management. where the main aim of the project is accept only newer project and reject oldest. And set guide on domain based .Also test the quality of projects. This system is very useful for maintain the efficiency and accuracy in project management system.

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## 1. LINKS

1. <http://www.w3schools.com/>
2. <https://developers.google.com/chart/>
3. <http://jquery.com/>
4. <http://www.php.net/manual/en/function.md5.php>
5. <http://udemy.com>
6. <http://texttextjs.com/>
7. <http://medleyweb.com/web-dev/jquery-chart-and-graph-plugins/>
8. <http://www.stackoverflow.com>
9. <http://www.flotcharts.org/>