

## AUTOMATED FACULTY EVALUATION SYSTEM

<sup>1</sup> G Divyavani, <sup>2</sup> Kodaboina Ashwini, <sup>3</sup> Dachehalli Amukta Malyada

<sup>1</sup> Assistant Professor, Department of Computer Science and Engineering, BhojReddy Engineering College for Women, Hyderabad, Telangana, India.

<sup>1</sup> [Divyavaniqu1@gmail.com](mailto:Divyavaniqu1@gmail.com)

<sup>2,3</sup> Students Department of Computer Science and Engineering, BhojReddy Engineering College for Women, Hyderabad, Telangana, India.

<sup>2</sup> [ashwiniyadavkodaboina@gmail.com](mailto:ashwiniyadavkodaboina@gmail.com) , <sup>3</sup> [amuktamalyada23102001@gmail.com](mailto:amuktamalyada23102001@gmail.com)

### ABSTRACT

Automated Faculty Evaluation System in this project student can rate their faculty on basis of questions provided by administration and also student can give their comment and feedback to that particular faculty. In admin side admin can add or delete faculty and student. Admin can add the list of questions to decide the performance of faculty. Admin also give rating to the faculty according to the question list and performance. Faculty can view their result based on student, co-faculty and admin rating. Faculty can view any commenter feedback given by their students. Faculty can give rating to the Co-faculty based on question provided by administration.

### 1. INTRODUCTION

Faculty teaching performance evaluation is a necessary step in ensuring good instruction. Traditionally faculty performance evaluation is used as a tool to apprise faculty on how they are doing their job. Performance is defined on how they are doing their job. Performance is defined as a set of outcomes produce during a certain period of time, and does not refer to the traits, personal characteristics or competencies of the performer. Faculty's evaluation is widely understood to be the most effective tool to improve the quality of instruction in colleges. Timely and accurate information issue fulfil virtually every stage of the decision-making process. Problems are identified when information reveals that some aspect of performance can be placed in the hands of decision makers. Automated faculty evaluation system is a tool to evaluate the performance of the faculty and to apprise the faculty on how they are

doing their job. Performance is measured as a set of outcomes produce during a certain period of time based on the ratings and feedback, and does not refer to the traits, personal characteristics or competencies of the faculty. Faculty's evaluation is the most important and effective tool to improve the quality of instructions provided by the faculty in colleges, schools and institutes. This system is a paperless process in which the evaluator (students, co-teacher, and supervisor) will use the computer to evaluate the teacher instead of manual. Our system, Faculty Evaluation System (AFES) identifies strengths and weaknesses of teachers on all those aspects which are important to students. This information may also be used by higher authorities of the institute to form appropriate teams of faculty members for different academic and administrative activities of the institute. Every teacher has its own way of delivering lectures and students can easily identify the qualities/features of any teacher. Therefore, to measure the effectiveness of a faculty to the

satisfaction of every student, we are proposing an aspectbased sentiment evaluation system.

### 2. problem statement

Taking feedback of teachers from students in schools or colleges is an important activity of any educational institute. Traditionally teachers' feedback evaluation system is a questionnairebased system where a pre-designed questionnaire form is given to each student. Differentformat of evaluation provides different perspectives, and each type of evaluation has uniqueobjectives.

In the existing system the evaluation is done by manual process, where the feedback is givenby all the students by filling a google form and then the overall grade of each faculty is beingcalculated. But in the existingsystemthereis a lack of expert review.

Aspecialistreviewisrequiredtoevaluateaspecific skillorskillset. Through expertsupervision, faculty may receive feedback that allows then to explore new teaching materialsand methodologies. An effective evaluation of the performance of the faculty members isneededso that theycanprogress towards their specific goals and targets.

#### 2.1 Problemswithexistingsystem

The manual process needed to be done are time consuming .Difficulty in handling and managing huge records .There sources allotted for the evaluation forms were quite expensive. Reports were not submitted ontime.Results generatedwerenotaccurate.

#### ProposedSystem

Automated Faculty Evaluation System will give effortless gathering and more accurate dataanalysis of faculty evaluation in lesser time. This system is paperless process in which theevaluator (students,

## 4. IMPLEMENTATION

### 4.1 AdminModule:

**Login:**Admin log in to the system with valid username

co-teacher, and supervisor) will use the computer to evaluate the teacherinsteadof manual.

The proposed automated faculty evaluation system can evaluate the performance of the faculty on basis of questions provided by admin and also student can give their comment and feedback to a particular faculty. Thereare3 modules in this system.

Admin manages the whole system by performing task such as adding students, faculty andquestions based on faculty. Admin can give rating to faculty according to the question list andperformance. The performance reports for individual faculty can be generated and print only by admin.Admin can view/edit/delete faculty and student.Admin can add the list of questions to decide the performance of faculty.

Once student is registered by theadmin,login credentialswillbeprovidedtothestudentusingwhichastudentcanloginintothesystem.Oncestudentloggedintothesystem,he/shecanrateafacultyandalso write a comment if any.

Faulty need to login using valid id and password provided by the admin. On successful login,a faculty can rate other faculty based on the questions. Faculty can view ratings and comments given by the students. Faculty can view their result based on student, co-teachers and admin rating.The rating and comment system will help facultyin improvisation.

### 4.1 Advantagesofproposedsystem

This project is user friendly, that is easy to use and understand. User can easily access this system.User can directly connect tot hefaculty.Itcan maintain huge records of both faculty and student.

and password.

**Student:**Admin keeps all the important information of students and perform following Functions

- 1) **Add Student:** Admin can add new student record to the system with their valid personal details.
- 2) **Update Student:** Admin can update the existing personal details of students.
- 3) **DeleteStudent:**Admin have authority to remove data of particular student from system.

**Faculty:**Admin keeps all the important information of students and perform following Functions

- 1) **Add Faculty:** Admin can add new Faculty to the system with their valid
- 2) **Update Faculty:**Admin can update the

### StudentModule:

**Login:** Student login to the system with valid username and password provided by admin.

**Rating:** Student can give rating to the faculty basis on question provided by admin.

**Comment/Feedback:** Student can post comment for their faculty.

### FacultyModule:

**Login:**Teacher login to the system with valid username and password provided by admin.

**PerformanceResult:**Faculty can view their result based on student,co-teachers and admin rating.

**ViewComment/Feedback:**Faculty can view any comment or feedback given by their students.

**Rating:**Faculty can give rating to the Co-teachers basis on question provided by administration.

## 5. software architecture

The software architecture of a program or computing system is the structure of the system which comprise of software components, the extremely visible properties of those components and the relationships between them.

record of personal details of faculty.

- 3) **DeleteFaculty:**Admin have authority to remove data of particular Faculty from system.

**Question:**The list of questions to decide the performance of faculty inserted by admin.

**Rating:**Admin also give rating to the faculty according to the question list and performance.

**Report:**The performance reports for individual faculty can be generated and print only by admin.

The architecture of a system describes its major components, their relationships, and how they interact with each other. Software architecture and design includes several contributory factors such as Business strategy, quality attributes, human dynamics, design and IT environment.

Software Architecture typically refers to the bigger structures of a software system, and it deals with how multiple software processes cooperate to carry out their tasks. Software design refers to the smaller structures and it deals with the internal design of a single software process.

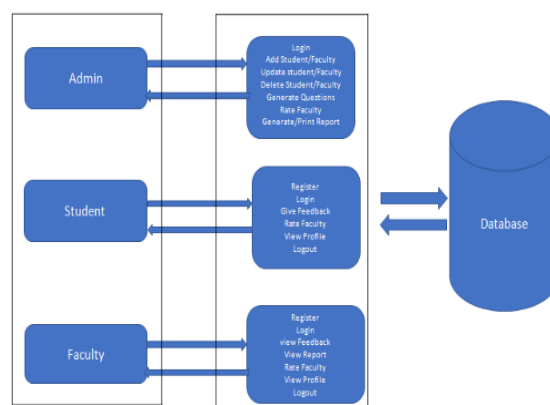


Fig:3.1 SoftwareArchitecture

## 6. Technical Architecture

Technical architecture is a process of development of methodical information technology specifications, models, guidelines and using a variety of information technology notations. The technical architecture defines the technologies that are used to implement and support a Business Intelligence solution that fulfills the information and data architecture requirements. These technologies cover the entire BI life cycle of design, development, testing, deployment, maintenance, performance tuning, and user support

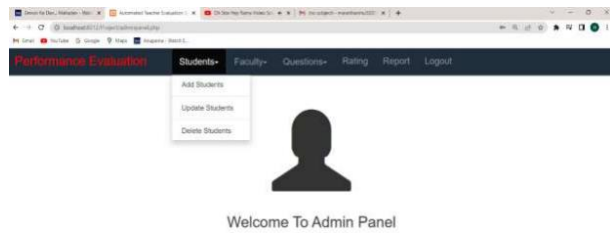
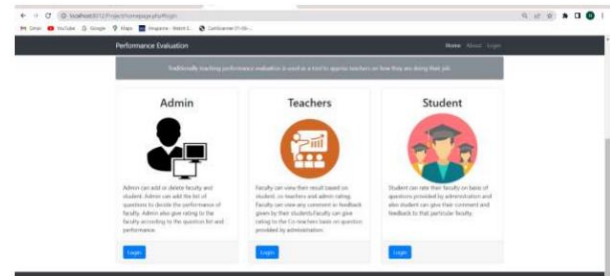
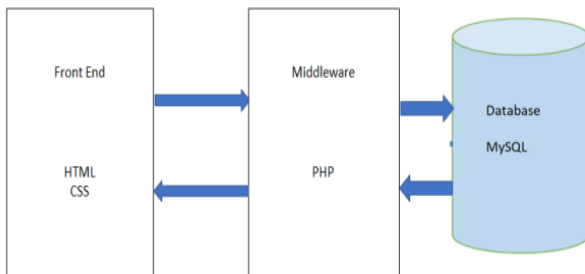


Fig 6.4 Students Page

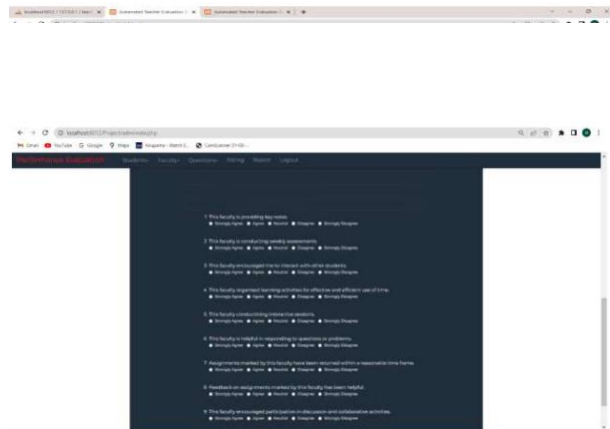
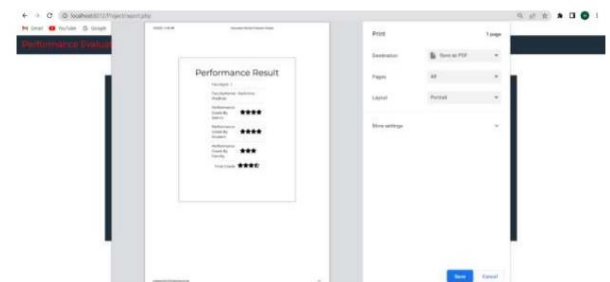


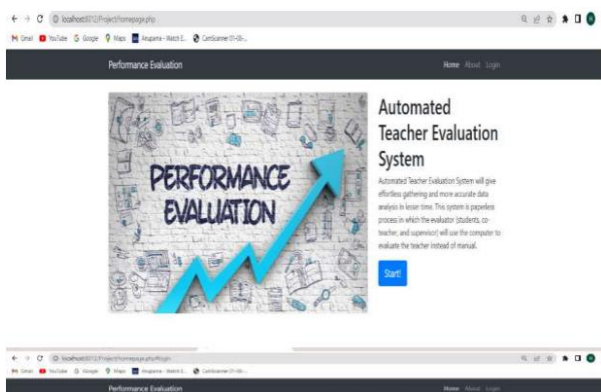
Fig 6.29 Rating Questions



Fig 6.31 Report



## 7.SCREENSHOTS



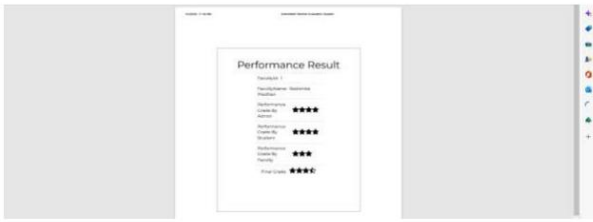


Fig 6.32 Report



Fig 6.37 Faculty Performance Result

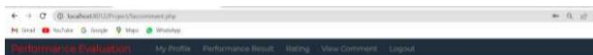


Fig 6.40 Faculty Comment

## 7. Conclusion

This was our project of System Design about “Automated Faculty Evaluation System” based on PHP. The Development of this system takes a lot of efforts from us. We think this system gave a lot of satisfaction to all of us. Though every task is never said to be perfect in this development field even more improvement may be possible in this application. We learned so many things and gained a lot of knowledge about development field. We hope this will prove fruitful to us.

## 8. Future Scope

In Future, we want to provide a rating for faculty where they get the performance results and comments directly to their mails. The method of receiving performance results and comments through mail decreases the waiting time of students to know the results

## 10. References

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