Content Management and Analysis of System Performance
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Abstract— In this paper we are representing the design and implementation of a software for generating result using content management technique. System will allow Students and the faculty to have an easy access for viewing the marks. The purpose of the software is to answer the queries of staff, student and other members of the college. As there are too many students in a college it become difficult for the staff members to generally know the result of the students and categorize them by their marks and also the data is very large we are simply going to store, handle, manage the data, in computer field this management is called as content management. The content over here refers to the huge amount of ever increasing data. Also the output for the classification would be in the form of graphs and table which will be easier to understand and analyze.

Key words: Waterfall Model, Operating Environment

I. INTRODUCTION

The proposed system is about content management and analysis of system performance. The system will store, handle, manage large amount of data which is ever increasing. The system will process the data and produce result in best possible time. The result will be generated much faster and easier to understand. System will generate result of student in a visualized form i.e. graphical. The system will help us to compare and categorize the result. This project deals with the complete details of academic details of students. It consist of student Registration no, Name, Marks Obtained, Total, Average, Attendance Percentage etc. System will allow the user to easily access and compare the result of the current year with previous year result. System will also provide facility to view placement details of the student and compare them with previous year and maintain record of student performance. Here the role of the student is to enter marks into the system as per mark sheet of particular semester and year. The T.P.O can view the list of students that are above 55, below 55 and above 60 %. They can also view the list of students that have atkt(allowed to keep term) and are eligible for placement. They can also compare the number of students placed in previous year. Staff will also register with their user name and password. The staff can view the result of their respective subjects and compare them with the result of the previous year result of the same subject and analyze them. Staff can categorized the student passed with distinction, first class, second class etc as per their marks and performance in exams.

II. OPERATING ENVIRONMENT

- Operating system: Windows XP/Vista/Windows 7
- Web Server: Apache Server
- Middleware: PHP 4.0
- Database: MySQL 5.5.8

III. LIMITATION OF THE EXISTING SYSTEM

- Reports are generated manually using pen and paper.
- Consumes a lot of time in computation work (nearly a week)
- There is a possibility of making errors during the computation process.
- Records need to be stored carefully as they are handwritten.
- Analysis of performance is a tedious task.

IV. DESIGN

The above figure is a block diagram of Content Management and analysis of System performance. The user will first register himself to the system. System will generate user name and password for user. The user can be Administrator, Student, Staff, T.P.O. Input to the above system is marks entered by the student and system will generate the result from those marks in graphical and tabular form.

The system will allow the Administrator to add members to the system such as (student, staff, T.P.O) it will also add subject to the system. It will perform verification, updation of the marks entered by the Student. Student will enter the marks as per mark sheet of particular semester and year.

The TPO can view the list of students that are above 55, below 55 and above 60 %. They can also view the list of students that have atkt(allowed to keep term) and are
eligible for placement. They can also compare the number of students placed in previous year.

Staff will also register with their user name and password. The staff can view the result of their respective subjects and compare them with the result of the previous year result of the same subject and analyze them. Staff can categorized the student passed with distinction, first class, second class etc. as per their marks and performance in exams.

V. USER
The system will be used by the following users:
- Admin
- Student
- Staff
- Training Placement Office

VI. SCOPE
- The system will allow the user to register under the different roles like staff, student etc.
- The student will provide input to the system by entering their marks.
- The system will generate result in graphs which is easy to understand.
- The system will allow the staff to analyze the data visually, compare the results with previous year with less time as compared to manual method.
- The TPO will be able to view placement details of the student and also verify the student record with live etc. or not.
- TPO can also compare the current placement details with previous year placement details.
- The system will allow us to handle huge amount of increasing data efficiently and effectively.

VII. OBJECTIVE
- Main objective of the system is to store, handle, manage, and maintain large amount of student data.
- System will easily handle and process large amount of ever increasing data.
- The result will be generated much faster through automation.
- System will generate result in Graphical form which will be easy to understand.
- System will help in decision making process as the data will be generated in much better understandable way.
- System will allow the user to compare the result of the current year with previous year.
- System also maintains the records of the number of student placed and also compare them with previous year.

VIII. METHODOLOGY
The methodology used in the system is “Water fall method”.

Fig. 2: Waterfall Model
The sequential phases in Waterfall model are:

A. Requirement Gathering and Analysis:
All possible requirements of the system to be developed are captured in this phase and documented in a requirement specification doc.

B. System Design:
The requirement specifications from first phase are studied in this phase and system design is prepared. System Design helps in specifying hardware and system requirements and also helps in defining overall system architecture.

C. Implementation:
With inputs from system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality which is referred to as Unit Testing.

D. Integration and Testing:
All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.

E. Deployment of System:
Once the functional and non functional testing is done, the product is deployed in the customer environment or released into the market.

F. Maintenance:
There are some issues which come up in the client environment. To fix those issues patches are released. Also to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment.

IX. CONCLUSION
We are developing a software for all the problems mentioned above faced by the teaching staff also the software is implementation of content management.
Secondly the system will operate on a standard Windows PC, and therefore can be shrink-wrapped for widespread distribution and local use is possible. Thus the content management system was designed and implemented.
time and space complexity was taken into account and found
the system was optimal and error free.

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