International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056
Volume: 07 Issue: 02 | Feb 2020 www.irjet.net p-ISSN: 2395-0072

Higher Education Access Prediction using Data Mining

Mukesh chavan[1], Kunal borade[2], Prashant Bansude[3], Shruti Shinde[4], Snehal Desai[5]

[1]*Professor, Dept. of Computer Engineering, MIT Polytechnic, Maharashtra, India*
[2,3,4,5]*Diploma in Computer Engineering, Dept. of Computer Engineering, MIT Polytechnic, Maharashtra, India*

ABSTRACT-*This system helps students to perform for the admission test online and provides college list according to the marks. System main objective is to offer a quick and easy way to appear the exam and it also provides result immediately after the exam. Multiple choice examination is conducted to provide special advantages to the students that can't be found anywhere else. This software application is built to check objective answers in an online examination and allocate marks to the user after verifying the answer.*

Key Words: *Student performance, exam, login module, Registration.*

1. INTRODUCTION

Higher Education Access Prediction using Data Mining System helps the students for appearing for the Admission test online and appoint college according to the marks. Its mission is to offer a quick and easy way to appear the exam and it also Provide the result immediately after the exam. which are conducting the multiple-choice type examination, it can provide special advantages to the students that can't be found anywhere else.

The working of the project is as follows.

The first page provides several links. The Home link contains several information's about online aptitude test. It provides a link to the login page. In the Login link a user have to login before entering the system. An already registered user can simply type in his\her valid username and password, and then click the "Login" button.

The Link Rules and Regulations show some rules and regulations that should be followed by the user. Logout Link will help the user to logout.

- This software application is built to check objective answers in an online examination and allocate marks to the user after verifying the answer.
- The system requires to store the original answer by the administrator of the system.
- The admin may insert questions and respective objective answers in the system.
- When a user begins the test, he/she is provided with questions and options to mark his answers.
- Once the user enters his/her answers, the system then compares this answer to original answers provided in database and allocate marks accordingly.
- The system consists of in-built artificial intelligence that verify answers and allocate marks accordingly as good as a human being.
- According to the mark system provide the college list to the student.
- Student can give their feedback for all this process.

2. LITERATURE STUDY

a. Higher Education Student using data mining

The higher education study is for student admission in institutes by using entrance exam test of this software. This idea of getting we in 'higher education student dropout prediction and analysis through education data mining'. After reading this project paper to decide how to make exam entrance text software to provide entrance exam test for pass out student. The test is bases on all types question, like math, science, general knowledge. This software is need for entrance exam test is score of your 12th and 10th standard. On the basis of your score to provide exam test.

b. Prediction of college using data mining

The collage attribute is problem for institutions of education. This project software is using details of collages to provide prediction for collage. Basically, in this software is provide prediction collage for student. Student is taking a test and When student end an entrance test in this software after end this software is provide Prediction of collage for student like which collage can you get, what collage would you like to apply. The last 5-year collage cut of and rank of collages all details is provide by admin.

c. Predicting Students' Performance

The student performance is basis on him test result and him score of 12th and 10th. To performance of student to him get result of collage prediction. Student can apply that collage which provided by higher education software.

3. SYSTEM ARCHITECTURE

When software will start then software is providing home page. In home page will display to modules, admin login and user login and registration form for new users to provide registration. For login, software needs ID and Password for both logins. In admin login six small module (navigations pages) for controlling this software and adding details, updating details. The student login has four modules. In these modules is provide entrance exam test and display

result of predictions collages. This software is providing logout option from student and admin for logout of owns account.

When student will register, that register data is store in database and provide ID and Password form student.

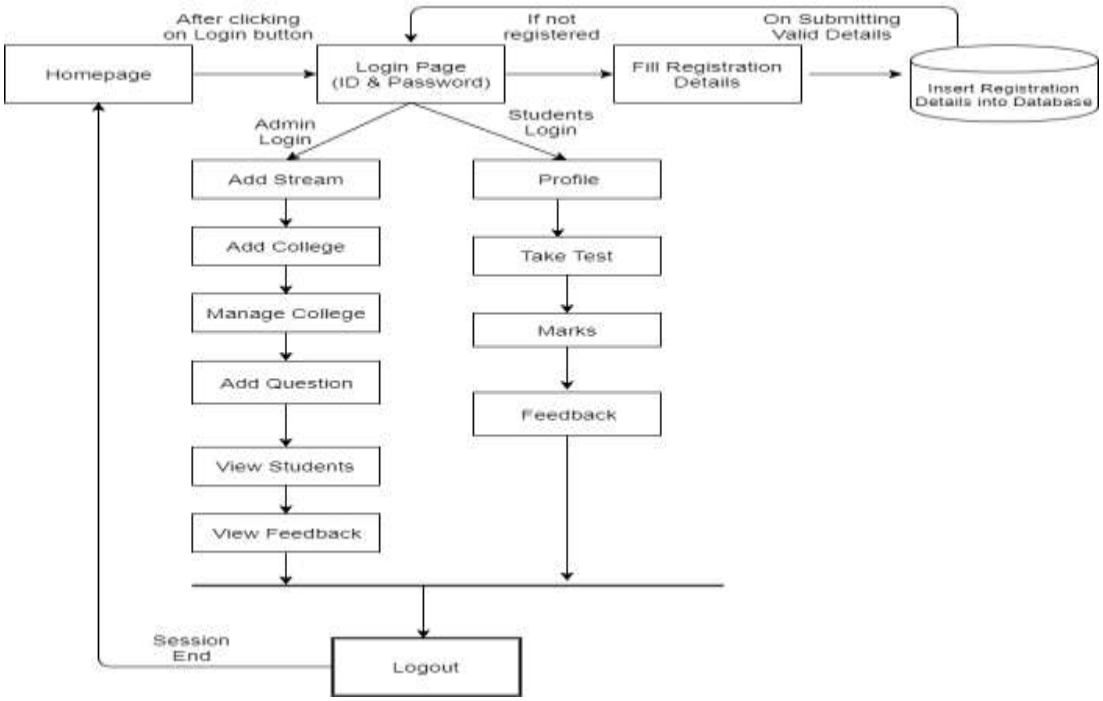

Fig 1: System Architecture of HEAP

4. CLASS DIAGRAM

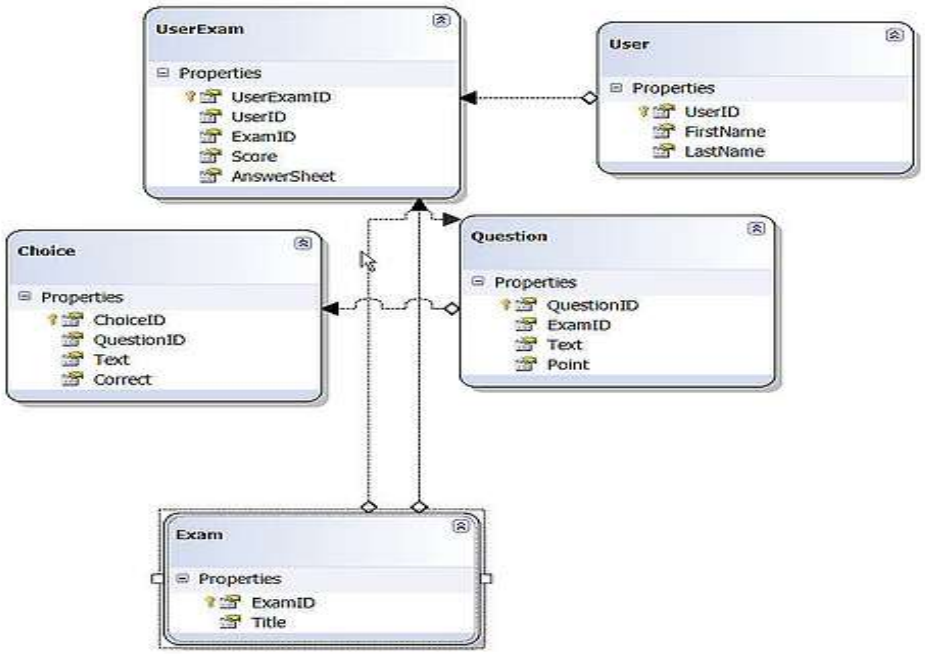

Fig 2: Class Diagram of HEAP

In this software is storing ID of both login module, questions and entrance exam and basic operations of this project.

The class diagram is showing all attributes of admin, user and exam of higher education access prediction using data mining.

5. MODULES

This website is having 2 major modules with their sub-modules:

1. **Admin Login:** Admin would be having a login account. He can add questions in the system and their respective answers. The answers are stored as a base for reference for all to use while checking answers.
    a. Add Stream: Admin can add all stream detail.
    b. Add College: Admin can add college detail, Stream and cut off list.
    c. Manage College: Admin can update college detail.
    d. Add Question: Admin can add question.
    e. View Students: Admin can view student detail.
    f. View Feedback: Admin can view all the feedback given by students.
2. **Candidate Registration/ Login:** Candidate who is applying for the test must first create an account in the system by registering themselves and then can login into the account to begin with test.
    a. Register: Student can register their details.
    b. View Result: Student can view their own details.
    c. Take Test: Students can give aptitude test.
    d. Marks: Students can view their mark in form of bar graph with possible stream and students can view their college list.
    e. Feedback: Student can give their feedback about the whole process.

6. FEATURES

a. The system calculates the score and provides results instantly.
b. It removes human errors that commonly occur during manual checking.
c. The system provides an unbiased result.
d. Thus, the system excludes human efforts and saves time and resources.
e. Reduce the time and cost
f. Paper less examination
g. Answers are verified immediately
h. Accurate results.

7. SEQUENCE DIAGRAM

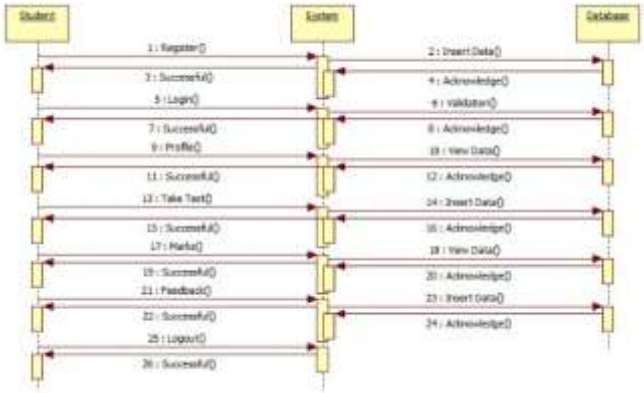

Fig 3: Sequence Diagram of Student

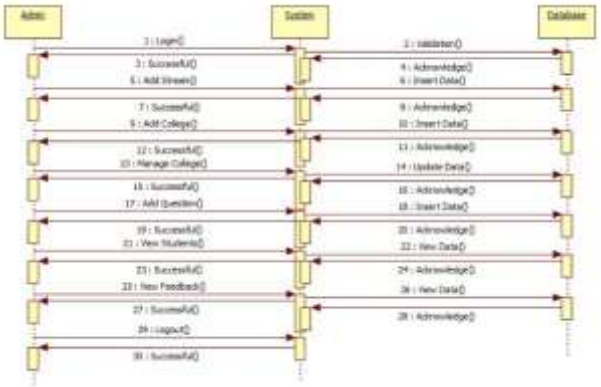

Fig 4: Sequence Diagram of Admin

8. APPLICATIONS

I. This system can be used in schools, colleges, coaching and institutes for checking answer sheets.
II. The system can also be implemented in different organizations that conduct regular exams.

9. ADVANTAGES

a. The system calculates the score and provides results instantly.
b. It removes human errors that commonly occur during manual checking.
c. The system provides an unbiased result.
d. Thus, the system excludes human efforts and saves time and resources.
e. Reduce the time and cost
f. Paper less examination
g. Answers are verified immediately
h. Accurate results.

10. DISADVANTAGES

a. The system must be given proper inputs otherwise system can produce wrong results.
b. Requires an active internet connection.

11. ACKNOWLEDGEMENT

We are pleased to present **"Higher Education Access Prediction using Data Mining"** project and take this opportunity to express our profound gratitude to all those people who helped us in completion of this project.

We thank our college for providing us with excellent facilities that helped us to complete and present this project. We would also like to thank the staff members and lab assistants for permitting us to use computers in the lab as and when required.

We express our deepest gratitude towards our project guide for her valuable and timely advice during the various phases in our project. We would also like to thank her for providing us with all proper facilities and support as the project co-coordinator. We would like to thank her for support, patience and faith in our capabilities and for giving us flexibility in terms of working and reporting schedules.

We would like to thank all our friends for their smiles and friendship making the college life enjoyable and memorable and family members who always stood beside us and provided the utmost important moral support. Finally, we would like to thank everyone who has helped us directly or indirectly in our project.

12. CONCLUSION

The project report entitled "**Higher Education Access Prediction using Data Mining**" has come to its final stage. The system has been developed with much care that it is free of errors and at the same time it is efficient and less time consuming.

The important thing is that the system is robust. Also, provision is provided for future developments in the system. The entire system is secured. This online system will be approved and implemented soon.

13. REFERENCES

1. Crouch Matt J, "ASP.NET WEB PROGRAMMING", Pearson Education, II Edition
2. Elias, M.Awad, "SYSTEM ANALYSIS AND DESIGN", Galgotia Publication Private Limited, 1994
3. http://www.astiwz.com/project-synopsis abstract-documentation-sourcecode.php?pid=198&name=Online%20Examination%20System&project-mode
4. http://ieeexplore.ieee.org/document/6644088/
5. http://ieeexplore.ieee.org/document/1330923/