

Student Management System

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Abstract: Performance of students is probably the key problem affecting the efficiency of the educational process. Speaking about the traditional methods of managing the educational process, we should mention that all the information about the performance of students is collected but it is impossible to make any predictions based on this information. The objective of the current paper is to describe the software known as EPIC .Performance EPIC is the web-based software using artificial intelligence to predict the performance of the students and to give them career and academic advice. The factors used by the software to make the predictions regarding the performance.

Keywords: Performance

1. INTRODUCTION

But while dealing with generating data every year, there is a lot of data generated. These include attendance data of the students, performance data of the students internally, performance data of the assignments, performance data of the tests, and performance of the students. But while all this data is being generated consistently, the academic management system does respond. it and uses it just for record purpose owing to the large numbers of students that make it difficult for the teachers to keep track of the students. The fields of Machine Learning and Artificial Intelligence have revolutionized the field of education . The situation, it is crucial that we make use of all opportunities provided by learning analytics. We will be able to provide solutions to the students individually, thus reducing their dropout rates using learning analytics. With the EPIC system, intelligent predictions and comprehensive services in academics and career make manual work easy, academic monitoring more accurate, decision making through data analysis, and success of the learners. This way, we will be able to use machine learning, artificial intelligence, and Internet technology to change educational institutions. With the EPIC system, intelligent predictions and comprehensive services in academics and career make manual work easy, academic monitoring more accurate, decision making through data analysis, and success of the learners.

II. METHODOLOGY

The methodologies that can employed for the purpose of carrying out the research include the following. First, authentication can go through Firebase Authentication method; whereby only authenticated users will access the system. Second, gathering security events from different sources such as IDS, SIEM, firewall, and endpoint security system. Third, machine learning will be employed for the analysis of the security events. Incident enrichment involves obtaining information related to threats originating from malicious IP addresses, domains, CVE.

III. MODELING AND ANALYSIS

Table 1. Tools and usage

SI. no	Material/Tools	Purpose/ Usage
1	Flutter	Used to design and develop the application interface.
2	Dart	Used to implement the applications functionality and logic.
3	Shared Preferences	Used to store and manage student-related date.



4	Android Studio	Used to build ,test and debug the application.
5	Visual Studio Code	Used to write and edit the source code.
6	Shared preferences	Used to save login sessions and user settings.
7	Flutter Local Notifications	Used to send reminders and important notifications.

IV. FLOW DIAGRAM

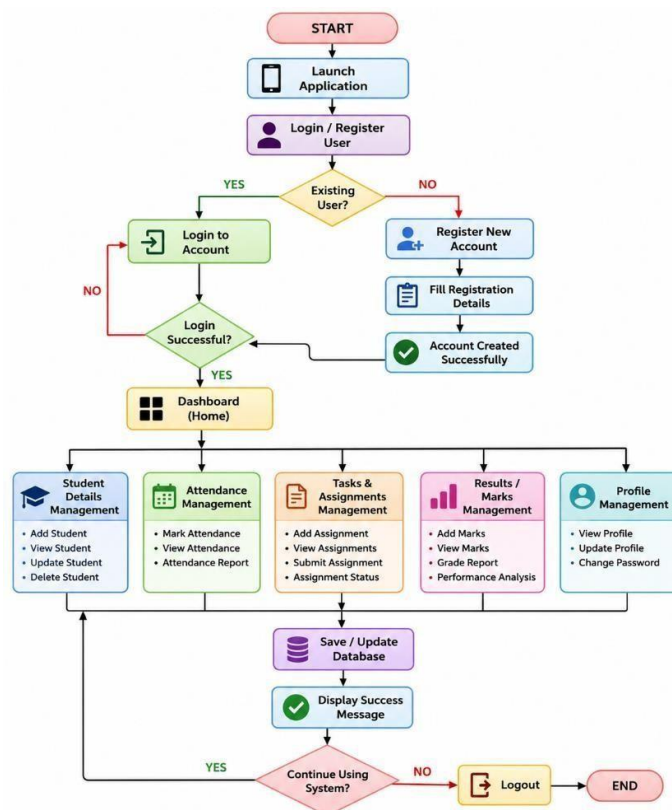


Fig 2: System Flowchart

V. SNAP SHOTS



Figure 1: login page



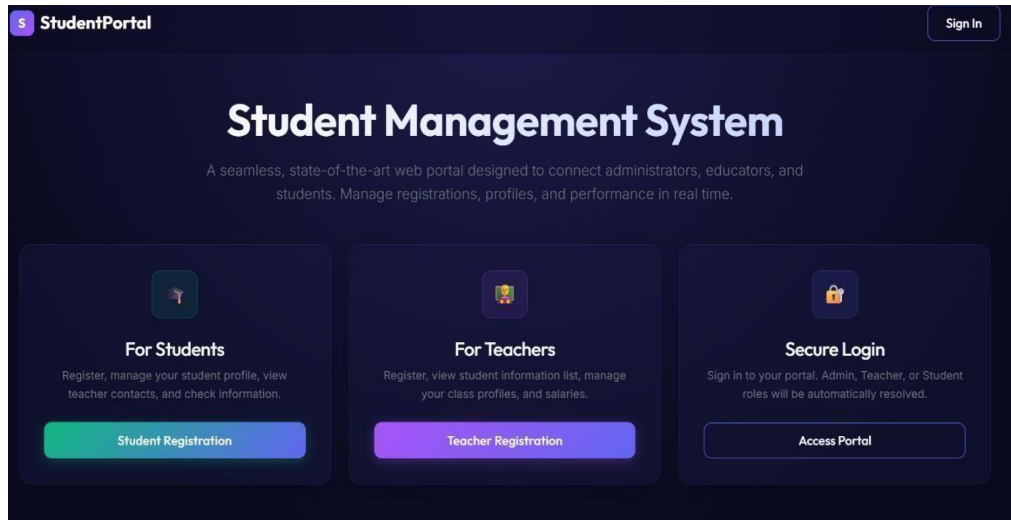


Figure 2: Register Page

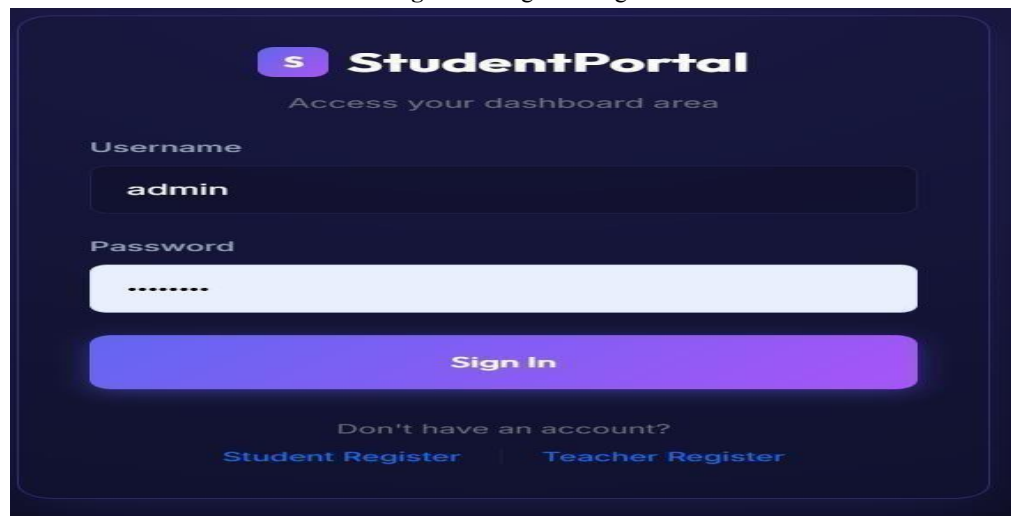


Figure 3: admin page

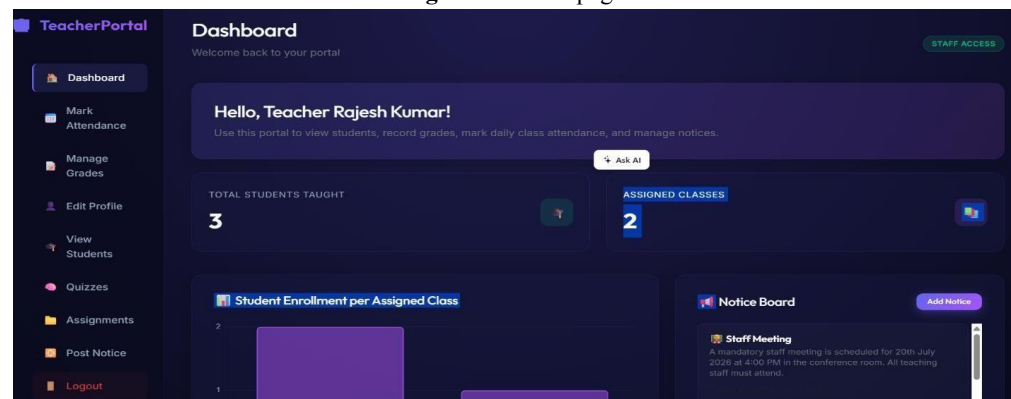


Figure 4: teacher Dashboard



VI. RESULTS AND DISCUSSION

The student application is one of the web application. It allows student and teacher to communication between them .while use this web application for performance and getting details of the student and also knowing the student performing level and understanding level of the student for both teacher and student at the same time.

VII. CONCLUSION

In other words, one can say that the EPIC model described above will be a perfect example of how current machine learning, artificial intelligence technologies and internet technologies could be applied in monitoring the performance of the students and making decisions related to education. Firstly, it should be mentioned that while the traditional academic management system deals with the collection of data about the students, our model focuses on the performance of the students. This means that it becomes evident that the model created by the use of ML, AI, EDM and internet technologies is a real breakthrough in intelligent education management. In addition, the developed model will help to predict the performance of the students, assist in their personal learning, decision making and career development. It goes without saying that the use of the proposed Student Management System will increase efficiency because everything will become much easier and time will be saved. Further development of the software will include applying AI to predict the performance of the student, pay for and analyse the exam and create a cloud-based report.

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