



# IJRASET

International Journal For Research in  
Applied Science and Engineering Technology



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# INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

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**Volume:** 14    **Issue:** III    **Month of publication:** March 2026

**DOI:** <https://doi.org/10.22214/ijraset.2026.78176>

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# Academic Result Management System

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**Abstract:** *The Academic Result Management System (ARMS) is a web-based platform designed to efficiently manage student academic performance. Built using Java Spring Boot, React.js, and MySQL, it supports secure role-based access for admins, teachers, and students. The system enables CRUD operations on students, subjects, exams, and results. It automates GPA and CGPA calculations and validates marks accurately. ARMS includes dynamic dashboards, real-time notifications, a search function, pagination, and the ability to generate PDF transcripts. Its scalable design allows for tracking across multiple semesters. This initiative showcases full-stack development abilities and has potential for future integration of AI-driven analytics and mobile capabilities.*

**Keywords:** *Student Academic Result, Result Management System, Role-based Authentication, GPA/CGPA calculation, Responsive Dashboard, Web-based Platform, Educational Institution Application.*

## I. INTRODUCTION

The swift expansion of educational institutions and the rising student population have turned academic result management into a challenging endeavour. Conventional paper grading methods and manual record-keeping frequently result in calculation mistakes, delays in results dissemination, and challenges in upholding precise student records. Handling vast amounts of academic data, including student grades, course credits, and semester results through traditional methods proves to be ineffective and labour-intensive. These difficulties emphasize the necessity for a dependable and automated system that can effectively handle and organize academic outcomes. The Academic Result Management System (ARMS) serves as a web-based platform aimed at updating the management process for academic results. The system automates multiple tasks such as managing student data, entering marks, generating results, and monitoring performance. Through the use of full-stack web development technologies, ARMS offers a centralized and secure system for overseeing academic records. Administrators and faculty can input and oversee student grades, whereas students can view their academic performance via a specific dashboard. The system utilizes role-based authentication to guarantee that only permitted users are able to access or alter academic data. Automated algorithms for calculating GPA and CGPA are employed to enhance precision and remove errors from manual calculations. Moreover, the system offers visualization features like dashboards and graphs to monitor student achievement over various semesters. Through the automation of result processing and the oversight of academic data integrity, ARMS enhances efficiency, transparency, and dependability in the management of academic records.

### A. Background and Motivation

Conventional methods for managing academic results depend significantly on manual record maintenance and calculations using spreadsheets. These techniques are frequently susceptible to mistakes, irregularities, and lag in outcome processing. With the rising number of students and courses, managing academic records by hand becomes more challenging for educational institutions. The driving force for creating the Academic Result Management System (ARMS) is to offer a secure and automated solution that streamlines the management of student academic records. Through the incorporation of contemporary web technologies and automated grading systems, the platform lessens the manual workload, boosts precision in result computations, and increases clarity in the academic assessment process. The initiative seeks to assist educational organizations in effectively handling academic performance information while maintaining data accuracy and availability.

### B. Problem Statement

Educational organizations manage a significant amount of academic data such as student details, course information, grades, and term outcomes. In numerous organizations, these records continue to be handled through manual processes or simple spreadsheet applications. These systems require a lot of time and are prone to calculation mistakes, data redundancy, and challenges in keeping records current. Instructors frequently encounter difficulties when determining GPA and CGPA scores for numerous students over various semesters. Mistakes in calculating results can impact the precision of student records and cause administrative issues. Moreover, students might not have instant access to their academic outcomes, and administrators could struggle to assess performance patterns across various departments. With the rise in academic data, handling results manually becomes impractical and untrustworthy. Hence, a centralized system is necessary to securely store academic data, automate result computations, and ensure students and administrators can easily access academic information.

### C. Research Objectives

The primary goals of the suggested Academic Result Management System are:

- 1) To create a centralized database system for the storage and management of student academic records, courses, and exam results.
- 2) To establish role-based authentication processes that enable administrators, faculty, and students to securely access the system.
- 3) To automate the calculation of GPA and CGPA utilizing rule-based grading algorithms specified by the university.
- 4) To develop an interactive dashboard that allows for the visualization of student academic performance over different semesters
- 5) To maintain data integrity and accuracy in the processing of academic results through automated verification systems.

### D. Contributions

The key contributions of this work encompass:

- 1) Creation of an online Academic Result Management System aimed at automating the processing of student results.
- 2) Execution of algorithms for automatic GPA and CGPA calculation to guarantee precise result generation.
- 3) Incorporation of role-based access control to ensure secure entry for administrators, faculty, and students.
- 4) Development of an interactive dashboard for tracking and visualizing academic performance.
- 5) Implementation of a centralized database system utilizing MySQL for effective storage and retrieval of academic records.
- 6) Minimization of manual documentation and enhancement of the efficiency and reliability of academic result management.

### E. Organization of paper

The remainder of this paper is organized as follows. Section II presents the Literature Survey related to academic result management systems and educational data processing. Section III describes the proposed methodology and system architecture of the Academic Result Management System. Section IV presents the system evaluation and experimental results. Section V discusses the performance and effectiveness of the proposed system. Finally, Section VI concludes the paper and outlines possible future enhancements.

## II. LITERATURE REVIEW

### A. Manual Academic Result Management Systems

Traditional academic result management systems mainly rely on manual methods such as paper records, registers, and spreadsheets to maintain student marks and academic information. Faculty members manually calculate grades, GPA, and CGPA values, which increases the chances of human errors. Managing large volumes of student data using manual systems becomes difficult as the number of students and subjects increases. Searching and updating student records requires significant time and effort. Manual result calculation can lead to inconsistencies and incorrect grade entries. Maintaining historical academic data also becomes complicated when records are stored in paper format. In addition, generating reports and analysing student performance trends is time-consuming. These limitations highlight the inefficiency and lack of scalability of traditional manual result management methods.

### B. Semi-Automated Result Management Systems

Some educational institutions use semi-automated systems such as spreadsheet-based tools or standalone desktop applications to manage student results. These systems help reduce paperwork and simplify data storage compared to fully manual methods. Faculty members can enter student marks into spreadsheets, which perform basic calculations such as totals and averages. However, these systems still have several limitations. Data is usually stored locally on a single computer, making remote access difficult. Security is also limited because files can easily be modified or deleted. Multi-user access is not efficiently supported, which restricts

collaboration between faculty members and administrators. Additionally, real-time updates and centralized data management are often not available. As a result, semi-automated systems improve efficiency but still fail to fully address the challenges of academic result management.

### C. Existing Web-Based Result Management Systems

Modern web-based result management systems provide centralized platforms where administrators, faculty members, and students can access academic data through online interfaces. These systems allow faculty members to enter student marks digitally, while students can view their results and academic performance through dashboards. Web-based systems enable faster data processing, centralized storage, and improved accessibility compared to manual systems. Many systems also provide additional features such as result visualization, automated GPA calculations, and performance analysis tools. However, some existing solutions are complex and expensive to implement. They often require advanced infrastructure, dedicated servers, and specialized technical expertise for maintenance. This makes them difficult to adopt for smaller educational institutions with limited resources.

### D. Review of Technologies Used

Several research studies and academic projects have explored the development of web-based academic management systems using modern web technologies. Technologies such as React.js, Spring Boot, and MySQL are widely used to build scalable and interactive web applications. React.js provides a dynamic and responsive user interface that improves user interaction and system usability. Spring Boot is commonly used for backend development because it supports RESTful APIs and simplifies server-side application logic. MySQL offers reliable and secure database management for storing student information, subject details, and academic results. These technologies enable efficient data processing, secure authentication, and seamless communication between the frontend and backend components of the system. Their widespread adoption in modern web development demonstrates their reliability and effectiveness for building academic result management platforms such as the proposed ARMS system.

## III. PROPOSED METHODOLOGY

### A. System Architecture

The Academic Result Management System (ARMS) employs a client-server architecture comprising three main layers: the frontend, backend, and database. The frontend offers an engaging and accessible interface for administrators, faculty, and students to engage with the system. It is created with React.js, HTML5, Tailwind CSS, and JavaScript, facilitating dynamic content display and adaptive design. The backend is built with Spring Boot, which handles application logic, processes user requests, and interacts with the database. It offers secure RESTful APIs that enable smooth communication between the user interface and the server-side elements. The backend employs role-based access control along with validation processes to guarantee data precision and system dependability. The system organizes and preserves all educational data in a MySQL database, which keeps records like student details, subject information, scores, and result computations. This tiered architecture facilitates effective communication among the user interface, application server, and database, leading to a dependable and scalable platform for managing academic results.

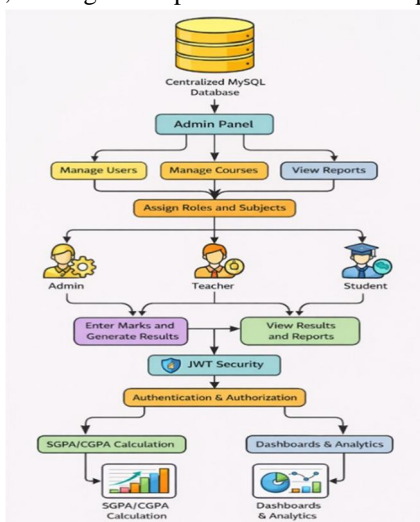


Fig. 1: System Architecture of Academic Result Management System (ARMS)

### B. Overall System Workflow

The system operates using a client-server model in which users interact with the application through a web interface while the backend processes requests and manages database operations.

The workflow of the Academic Result Management System can be summarized as follows:

- a) User Login Authentication
- b) Admin and Faculty Dashboard Access
- c) Student Registration and Academic Data Management
- d) Subject and Marks Entry
- e) Result Calculation and Processing
- f) Result Visualization through Charts
- g) Data Storage and Retrieval
- h) Report Generation and System Monitoring

This structured workflow enables smooth interaction between different modules of the system and improves the efficiency of academic result processing.

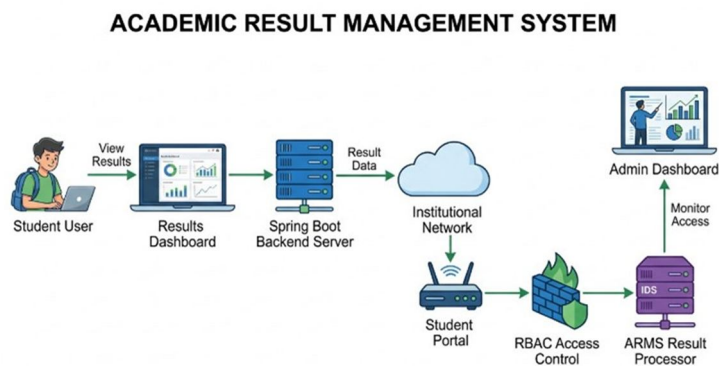


Fig. 2: Overall Workflow of Academic Result Management System

#### 1) User Authentication and Access Control

The system implements a secure login authentication mechanism for administrators, faculty members, and students to ensure controlled system access. Each user must provide valid credentials before accessing the system. This module ensures that only authorized users can access sensitive academic data and prevents unauthorized modifications to student records.

The authentication module performs the following functions:

- Verification of administrator and faculty login
- Secure password storage using hashing algorithms
- Session management for user activities
- Logout functionality for secure session termination

#### 2) Student Information Management

The student management module enables administrators to maintain accurate records of student academic details. It provides functionalities for adding, updating, retrieving, and managing student data. Centralized storage of student data improves accessibility and allows administrators and faculty members to efficiently manage academic records.

The system stores important student information including:

- Student Name
- Student ID / Roll Number
- Department and Semester
- Subject Details
- Academic Performance Records

### 3) *Subject and Marks Management*

The marks management module allows faculty members to enter and manage student marks for various subjects. The module ensures that marks are stored accurately and processed systematically.

Key functionalities include:

- Entering subject-wise marks
- Updating marks when required
- Validating marks before submission
- Storing marks securely in the database

### 4) *Result Processing and Calculation*

The system automatically calculates student results using predefined grading algorithms based on institutional academic policies. Automated result calculation significantly reduces human errors and ensures consistency in academic evaluations.

The module performs tasks such as:

- Calculating total marks and subject averages
- Computing GPA and CGPA values
- Determining pass or fail status
- Detecting unusual grade distributions

### 5) *Performance Visualization*

The system provides graphical representations of student performance using interactive charts and dashboards. These visual tools help administrators and faculty members analyse academic performance more effectively. Visualization improves understanding of student progress and helps identify performance trends.

Features include:

- Student performance charts
- Subject-wise result analysis
- Comparative academic performance reports
- Real-time academic analytics

### 6) *Database Integration*

The system uses a MySQL database to store and manage all academic information in an organized manner. The database consists of multiple tables designed to handle different types of data. The database ensures secure storage, efficient data retrieval, and reliable system performance.

The primary database tables include:

- Admin Table
- Faculty Table
- Students Table
- Subjects Table
- Marks Table
- Results Table

### 7) *System Advantages*

The proposed Academic Result Management System provides several advantages:

- Automation of academic result processing
- Reduction of manual calculation errors
- Centralized storage of academic records
- Secure user authentication and role-based access
- Real-time result visualization and analysis
- Improved efficiency in academic data management

#### IV. EVALUATION AND RESULTS

The Academic Result Management System (ARMS) was evaluated to analyse the performance, usability, and efficiency of the developed application in managing student academic records. The system was tested across different modules including student information management, subject and marks entry, result calculation, and performance visualization. Various functional tests were conducted to ensure that all components of the system operate correctly and provide accurate academic results. The evaluation demonstrates that the ARMS platform effectively automates the process of result management while reducing manual errors and improving data accessibility.

##### A. System Implementation Outcomes

The developed system was successfully implemented in a simulated academic environment to evaluate its functionality and reliability. Administrators can manage student records, subjects, and academic results through the system. Faculty members can enter marks for different subjects, while students can log in to the system to view their results and academic performance. The implementation results show that the system effectively automates result processing and maintains centralized academic records. Integration between the frontend, backend, and database ensures accurate data storage and efficient retrieval of student information.

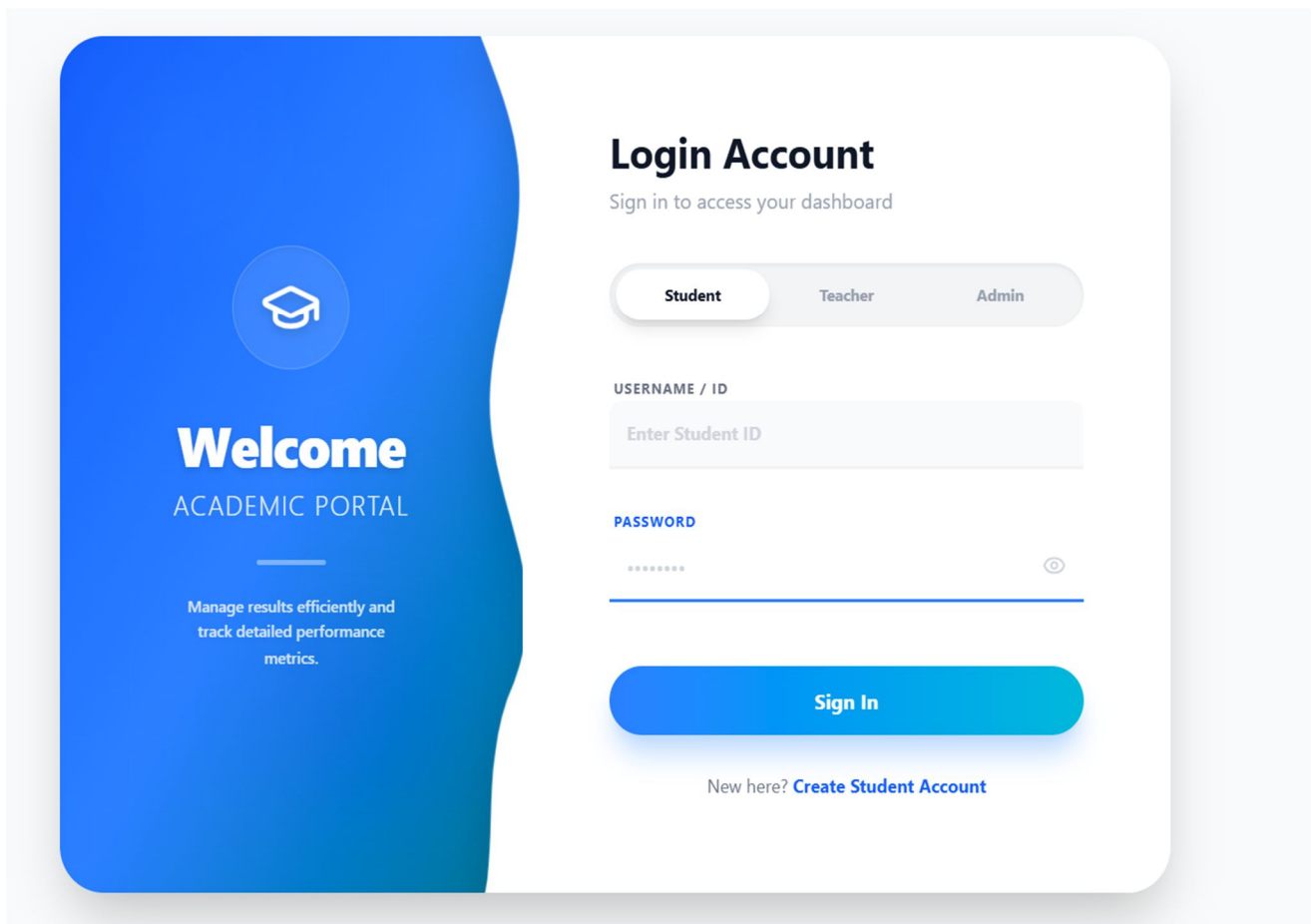


Fig. 3: ARMS Homepage Interface

##### B. Functional Evaluation

Functional testing was performed to verify that each module of the Academic Result Management System works correctly. Several test scenarios were evaluated, including login authentication, student registration, subject management, marks entry, and result generation. The testing results indicate that all modules perform successfully without major errors. The authentication system ensures secure user access, while database integration allows reliable storage and retrieval of academic records. The system also accurately calculates GPA and CGPA values according to the defined grading algorithms.

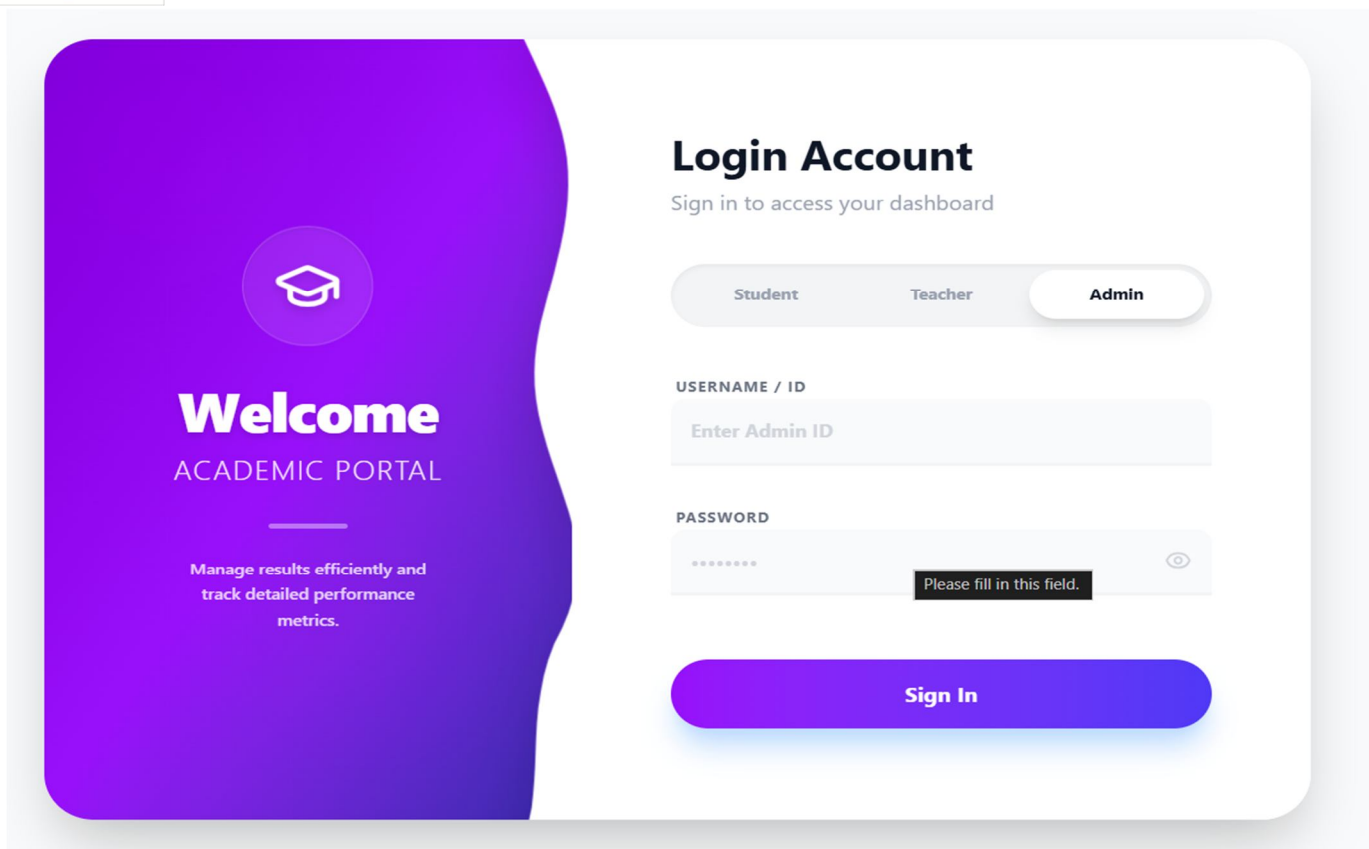


Fig. 4: Admin and Student Login Page

### C. Performance Analysis

The performance of the system was evaluated based on response time, processing efficiency, and system reliability. The results demonstrate that the system processes user requests quickly due to the efficient communication between the frontend interface, Spring Boot backend, and MySQL database. During testing, the system maintained stable performance while handling operations such as marks entry, result calculation, and report generation. The use of optimized database queries ensures that academic records can be retrieved quickly and accurately.

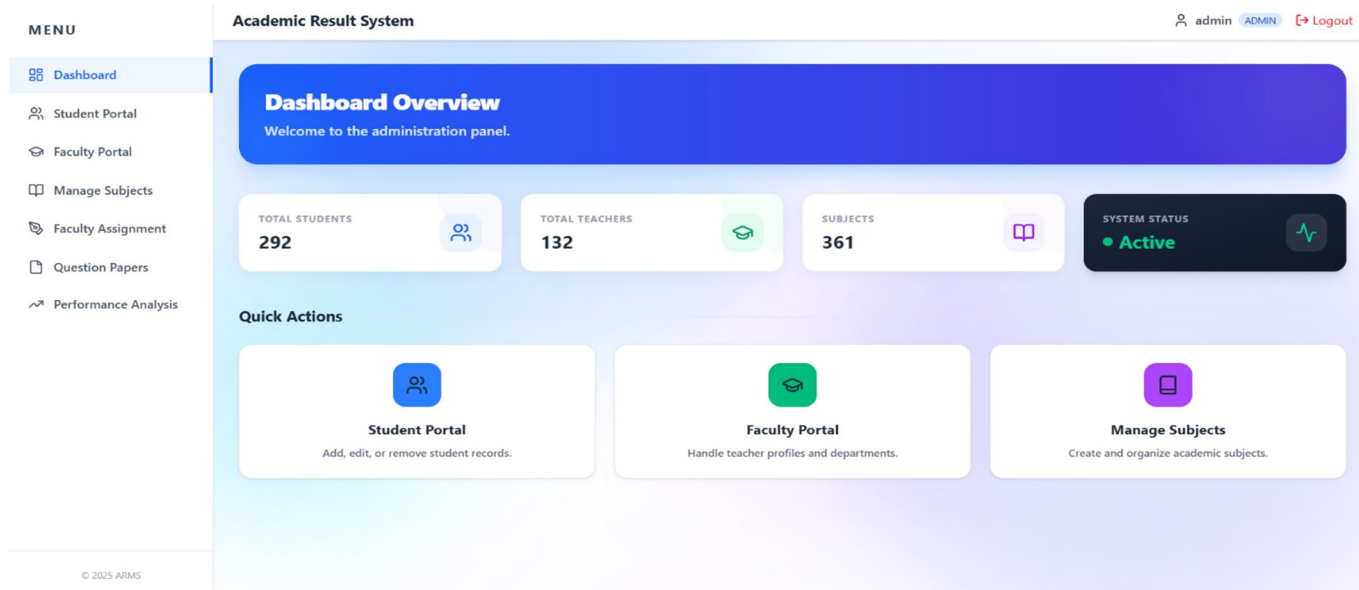


Fig. 5: Admin Dashboard

D. User Interface Evaluation

The user interface of the Academic Result Management System was designed to be intuitive and easy to use. The system provides well-organized dashboards that allow administrators, faculty members, and students to interact with the platform efficiently. The evaluation results indicate that users can easily perform tasks such as managing academic records, viewing results, and analysing student performance through graphical dashboards. The responsive interface improves usability and enhances the overall user experience.

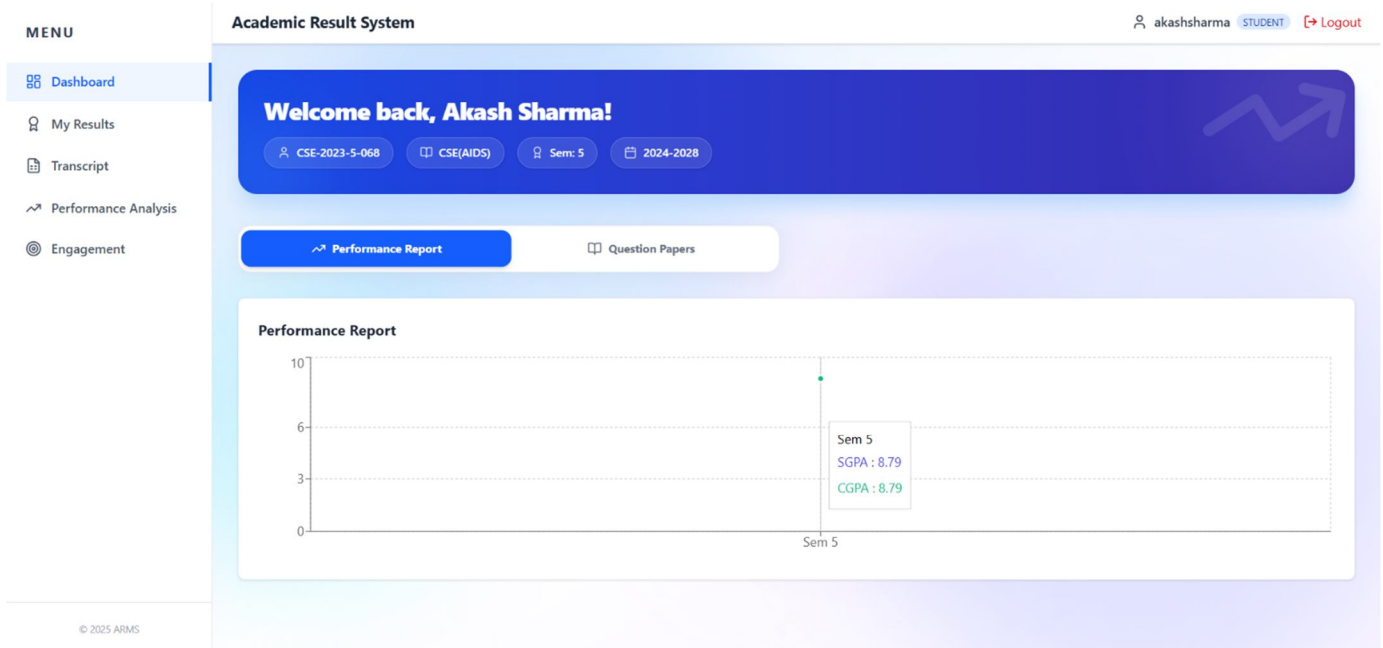


Fig. 6: Student Dashboard

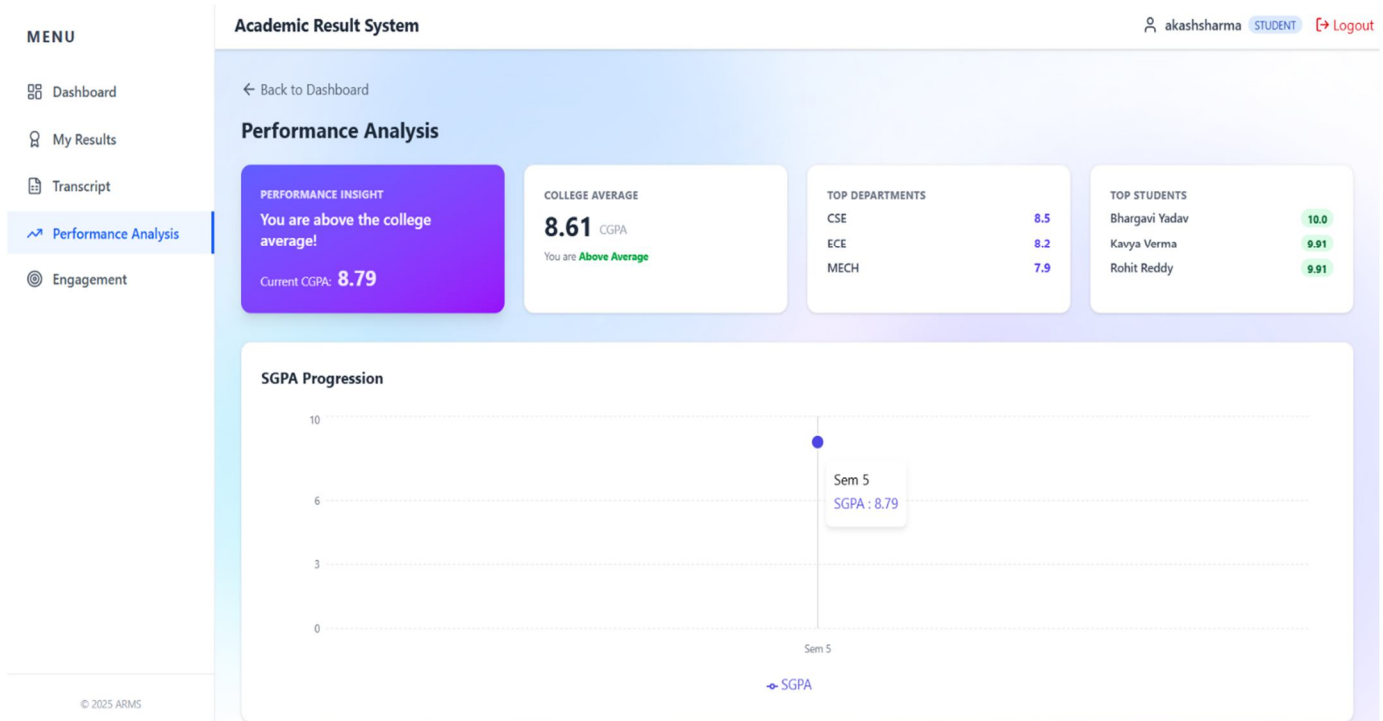


Fig. 7: Performance Analysis of the Student

## V. DISCUSSIONS AND LIMITATIONS

### A. System Performance and Observation

This section discusses the overall performance of the developed Academic Result Management System (ARMS). During testing, the system successfully executed core functionalities such as student registration, subject management, marks entry, result calculation, and result visualization. The backend developed using Spring Boot efficiently processed user requests and communicated with the MySQL database for data storage and retrieval. The system demonstrated reliable performance while handling different operations such as entering marks, generating results, and displaying academic performance through dashboards and charts. The automated calculation of GPA and CGPA significantly reduced manual calculation errors. Additionally, the user-friendly interface allowed administrators, faculty members, and students to interact with the system easily and efficiently.

### B. Limitations of the System

Although the system provides several advantages, some limitations still exist in the current implementation. The system is primarily designed for small to medium-scale academic environments, and performance may decrease if a very large number of users access the system simultaneously. In addition, the system currently operates as a web application and requires internet connectivity for access. Certain advanced features are not included in the present version, such as mobile application support, automated notification systems for result announcements, and integration with external university databases. Additionally, advanced analytics features for predictive academic performance analysis are not implemented. These limitations can be addressed in future development phases to enhance the functionality and scalability of the system.

### C. Comparison with Existing Systems

The proposed Academic Result Management System (ARMS) provides significant improvements compared to traditional academic result management approaches. Manual result management systems rely on paper records or basic spreadsheets, which are prone to calculation errors, data loss, and inefficient record management. Semi-automated systems such as spreadsheet-based grading tools improve calculation accuracy but still lack centralized storage, secure access control, and real-time data processing capabilities. In contrast, the proposed ARMS platform offers automated result processing, secure role-based authentication, centralized database management, and real-time performance visualization. These features improve accuracy, efficiency, and transparency in academic result management, making the system more reliable and suitable for modern educational institutions.

## VI. CONCLUSION AND FUTURE WORK

### A. Conclusion

The Academic Result Management System (ARMS) provides an automated, reliable, and efficient solution for managing student academic records and result processing. The system replaces traditional manual methods of maintaining academic results, which are often time-consuming and prone to calculation errors. By automating key operations such as student data management, subject handling, marks entry, and result calculation, the system significantly improves accuracy and reduces administrative workload. The platform provides a secure and user-friendly interface for administrators, faculty members, and students, enabling them to access and manage academic information conveniently. The use of role-based authentication ensures controlled access to sensitive data, while centralized database management allows efficient storage and retrieval of academic records. The system also provides graphical result visualization through dashboards, helping institutions analyze student performance more effectively. Overall, the proposed ARMS platform enhances efficiency, transparency, and accuracy in academic result management, making it a valuable solution for modern educational institutions.

### B. Future Work

Although the current implementation of the Academic Result Management System provides essential functionalities for academic result processing, several improvements can be incorporated in future versions of the system. Future development may include the integration of mobile application support to allow students and faculty members to access academic data more conveniently through smartphones. Additional features such as automated notification systems for result announcements, integration with institutional learning management systems, and advanced data analytics for predicting student performance can also be implemented. Furthermore, enhancing system scalability to support large educational institutions and implementing cloud-based deployment can improve system performance and accessibility. These enhancements will further strengthen the capabilities of the ARMS platform and make it more suitable for large-scale academic environments.

## VII. ACKNOWLEDGMENT

The authors would like to express their sincere gratitude to Bonam Venkata Chalamayya Engineering College for providing the academic environment and institutional support necessary to carry out this research work. The authors also extend their appreciation to the faculty mentors for their valuable guidance, technical insights, and continuous encouragement throughout the development of this project. Their support and constructive suggestions significantly contributed to the successful design and implementation of the Academic Result Management System (ARMS). The authors are thankful for the resources and motivation provided by the institution, which helped in completing this work successfully.


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