

Academic Knowledge Characterized Access

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Abstract

The application “Academic knowledge Characterized Access” is developed to carry out the activities PG department of an institute in a well-planned and systematic manner. It sets up the platform for students to access the academic resources of the department. The application manages different information like students, staff, text books, model question papers, video links, subjects, syllabus, placements etc. It also has provision for student feedback and analysis.

Keywords: Academic Resources, Characterized Access, Feedback, Mentee, Mentor

I. INTRODUCTION

One of the requirement of most of the technical colleges today is managing different data-student and staff information, academic resources like study materials which include notes, question papers, video lectures etc. So that colleges can help students in different aspects of their life in campus. Study resources must be available to them at any time; they need a platform for expressing their difficulties in study, and also a platform for their placement support.

The application AKCA “Academic Knowledge Characterized Access” is developed to help students & staff of PG departments. It provides one place for all the academic resources, student and staff information. It supports student-teacher communications through feedback processing and mentorship. The materials are well organized so that students and staff can access the resources any time. Student data further helps in providing different facilities for students. Student placement details like company details, eligibility criteria and eligible students etc. are available for higher semester students.

Students are provided with different functionalities like view or download syllabus, download study resources, give feedback, communicate with his/her mentor and view suggestions. Staff functionalities include view or download syllabus, view students’ academic details, add study materials, communicate with mentee etc. The administrator controls the entire system is the one who directly or indirectly sets the platform for users such as lecturers, students and placement officer. The application allows administration to add a new student and lecturer. The administration can also delete the information of students and lecturers as and when required. Finally administrator can generate report of various vital data of students, lecturers, courses and subjects.

II. PROPOSED SYSTEM ARCHITECTURE

The proposed system is an academic knowledge access system with staff and student information management. There are many applications available [1], [3] for student or staff information management but the proposed system provides additional features such as study material access system, student mentoring, placement support and feedback processing. The system is constructed with many modules as below:

- Admin
- Lecturer
- Student
- Placement officer

The figure 2.1 shows the system architecture

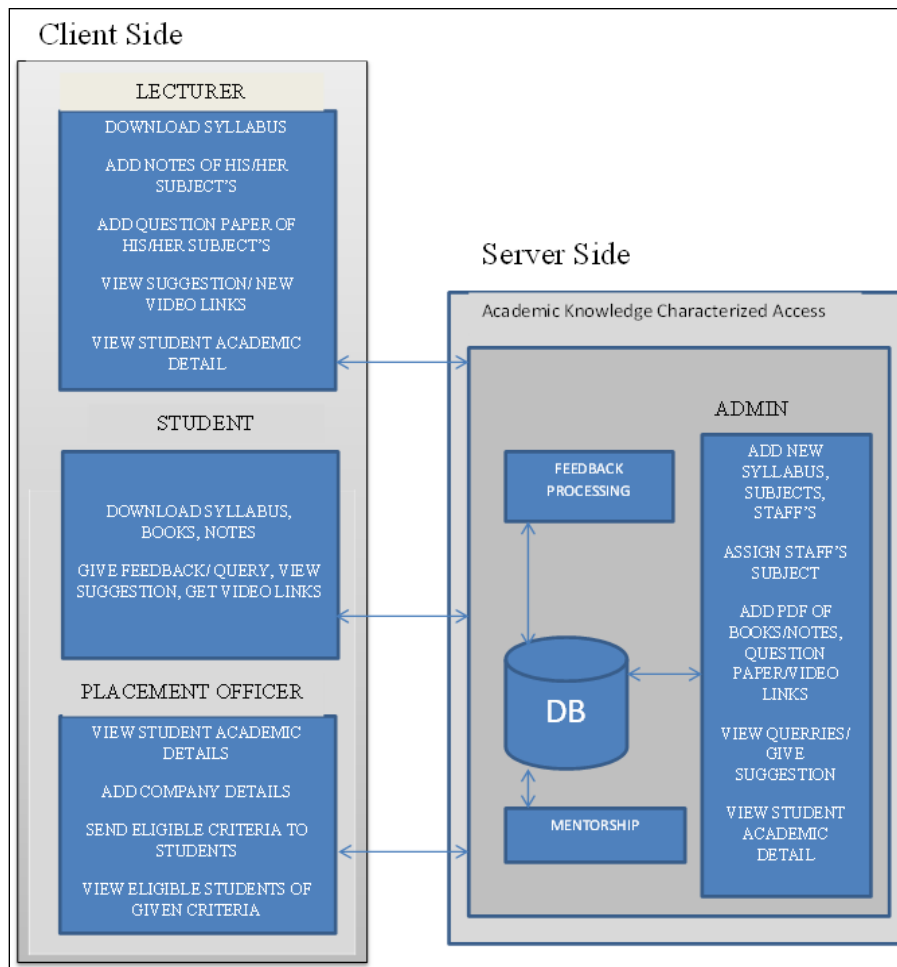


Fig. 2.1: System Architecture

A. Admin:

Admin controls and coordinates the system to support student-staff communication. Admin role starts with creating login credentials for both students and staff. Once the login credentials are available, they can login but students need to fill registration form to provide their personal and previous academic information. Admin performs different functionalities as follows: adding new syllabus, staff, subjects; assigning staff's to subjects; add pdf of books/notes, question papers, video links; view student feedback/queries, give suggestions; view student academic details.

B. Lecturer:

Lecturer plays the central role of the application. The lecturer play different roles right from providing subject materials to mentoring students to address their grievances. Lecturer's profile initially created by admin, later on lecturer can modify his/her profile. Lecturer performs different functions as follows: download syllabus, add notes of his/her subject, add question papers, view suggestions and view student academic details also. Lecturer also takes part in mentorship and feedback process to address their grievances. In mentorship process, every lecturer being mentor has to add few students of each and every semester as their mentee. The application allows the lecturer to add mentees under them. The students as mentee can convey the problem to their mentors associated with department or subjects. The mentors can respond to each and every grievance of their mentees. This saves the time and energy of the mentors and helps to enhance the communication between mentors and their mentees.

C. Student:

Students are the main users of the system. Academic Characterized Knowledge Access helps students to access syllabus, notes of their respective subjects, videos, question papers etc. They can even give feedback to their lecturer. Students also play the role of mentee, where students can convey the problems to their mentee; get the solutions to their problem. Placement activity details are also accessible to the students through this system. Students can view the notification regarding forthcoming visiting companies for campus interview, their criteria, and shortlisted students etc.

D. Placement Officer:

Placement officer plays very vital role in helping students for their career. He can view the profiles of students, short list the eligible students for a visiting company for campus interview. On the other side sends notices to students regarding companies visiting campus, their criteria, schedule of campus interview etc.

III. SYSTEM IMPLEMENTATION

Proposed system has been implemented as ASP.NET web application to support different activities of each user. The users are admin, lecturer, placement officer and student. Each user is provided with login credential to support security. After logging into the system they are provided with menu of options for their activities. Admin coordinates their communications. Activity of a lecturer, notes management by admin are described below:

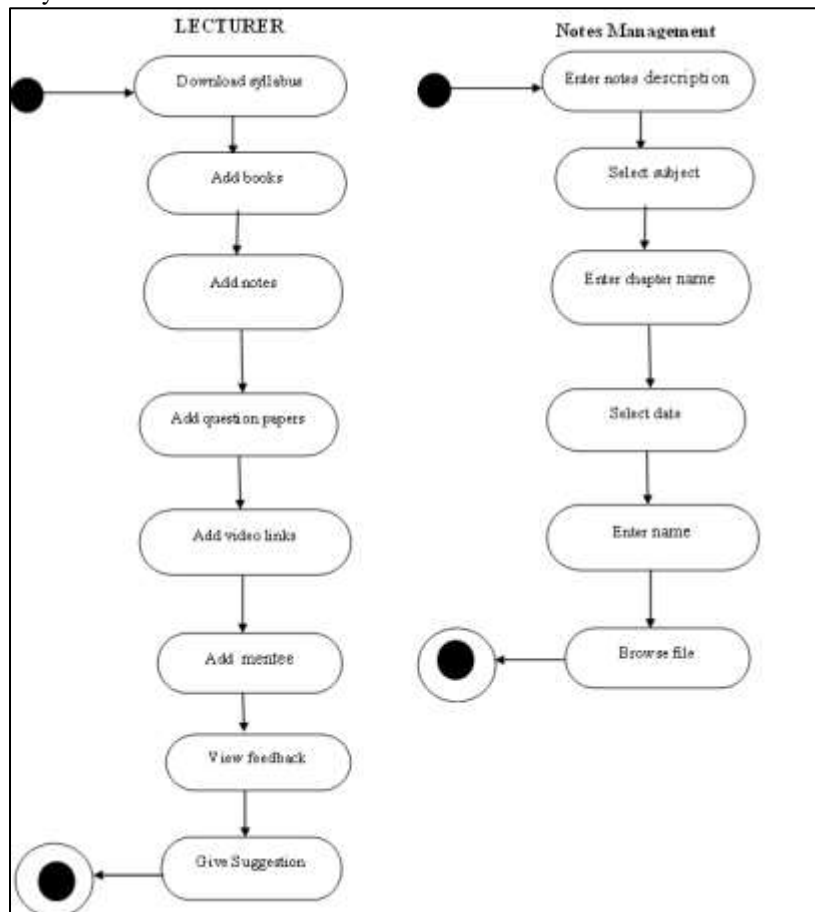


Fig. 3.1: Activity diagrams

Fig. 3.1 explains two activities; first one is a lecturer activity in academic knowledge access to support students and an academic institute. Lecturer performs different activities like download syllabus, add notes of his/her subject, and add question papers, view suggestions and view student academic details, mentorship. Second one is notes management activity carried out both by admin and lecturer. This activity involves entering notes description, select subject, enter chapter name, select date, enter name, browse file and upload.

Software application that implements the proposed idea is shown below:



Fig. 3.2: Admin Menu



Fig. 3.3: Lecturer Menu

IV. CONCLUSION

In the application Admin can share official & important document with lecturers. The notice about the college/department can be easily sent to all the peoples of college. The newly updated copy of syllabus can be downloaded easily by the students from this application. Recent or old question paper can be downloaded by the students easily by using this application. Extra notes from any lecturer can be uploaded by the assigned lecturer for the subject. Any lecturer can view the academic details of the students. Placement officer can easily add the new company details as arrived with the eligibility criteria. If any queries are there from the

students hence they can easily update their query which can be solved by any lecturer. All the process will be done with the help of smart phone and internet connection. Admin can send the notice to lecturer, students very easily by using this application.

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