# E-LEARNING RESOURCE MANAGEMENT SYSTEM

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**Abstract-**Developing an "e-learning resource management system" to promote a greater count of students to splurge into the field of Education. It integrates the benefits of a physical classroom with the convenience of a 'no-physical-bar' virtual tutoring environment, minus the commuting hazards and expenses. It wills user in the immense flexibility and sophistication in the existing learning platform structures, with the perfect blend of synchronous and asynchronous interaction. It provides a means of collaborative learning for the students.

If you're a teacher or student, you probably know that Virtual Class Room designed to help professors and instructors create and teach courses online or use online technology to help run classes. In educational software circles, it's also often called an **e-learning** system, a learning management system, or a virtual learning environment.

## 1. INTRODUCTION

### 1.1 Scope:

- It integrates the benefits of a physical classroom with the convenience of a 'no-physical-bar' virtual tutoring environment, minus the commuting hazards and expenses.

- It provides a means of collaborative learning for the students.

**1.2 Purpose:** This system provides an online solution to provide teaching and learning environment located within a computer mediated communication system. It consists of asset of group communication and work "spaces".

## 2. OVERVIEW OF THE SYSTEM

**2.1 Objective:** Developing the "e-learning resource management system" project to promote a greater count of students to splurge into the field of Education. It integrates the benefits of a physical classroom with the convenience of a 'no-physical-bar' virtual tutoring environment, minus the commuting hazards and expenses. It wills user in the immense flexibility and sophistication in the existing learning platform structures, with the perfect blend of synchronous and asynchronous interaction. It provides a means of collaborative learning for the students.

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educational software circles, it's also often called an e-learning system, a learning management system, or a virtual learning environment.

## 2.2 Existing System

### 2.1.1. Drawbacks of manual process:

- Existing system is not providing the information about faculty's teaching details.

- Existing system doesn't provide online queries.

- Existing system doesn't have the facility to send the queries and give reply to students.

- Existing system is not having the facility for faculty to upload the documents, video and audio files.

- The Existing System doesn't provide the facility for the students to view the documents, files etc.

## 2.3 Proposed System

- Students can choose courses, attend lectures, view documents, view their lectures courses, etc. as per their convenience.

- Registration for multiple courses.

- Attend lectures either at the scheduled time or on request view lecture at a later time.

- Faculties can take lectures, upload documents, announcements, notices, newsletters and also can upload lectures

and other discussions in various formats as in videos, power point presentation etc.

- Upload various documents, college notices, student's notices, journals, videos.

- There can be to discuss various queries and to put up suggestions posted both by students and teachers.

- Administrator can generate reports, log files, backup/recovery of data at any time.

- Shared documents and media library that can help in active learning of a student.

- Users must have valid User ID and password to login thus creating their individual profiles.

- Availability of voice mail box to allow faculties to get the descriptive messages left by the students.

## 2.4 Module Description:

**No of Modules:** The system after careful analysis has been identified to be presented with the following modules:

The Modules involved are

1. Student

2. faculty

3. Administrator

4. Security And Authentication

5. Reports

6. Teaching Assistant

**Description for Modules:**

**2.4.1.     Student:** Students can choose courses, attend lectures, view notices, view newsletters etc. as per their convenience. Students can send queries to teaching assistant and view reply send by the assistant which can help them to realize their inbuilt talents in various fields.

**2.4.2.  Faculty:** Faculties can place the lectures, add notices, announcements ,add course lectures and also can upload lectures and other discussions in various formats as in videos, power point presentation etc.

**2.4.3.     Administrator:** Admin will register Faculties and students. He will add courses and he can view newsletter etc., Administrator can generate reports, log files, backup/recovery of data at any time. Shared documents and media library that can help in active learning of a student. Administrator will provide users valid User ID and password to login by creating their individual profiles.

**2.4.4.     Teaching Assistant:** Assistant can view faculties, students, newsletters, courses and he can view queries send by the students and give reply to them based on their questions.

**2.4.5.  Security and Authentication:**

• Student Registration.

• Login as student or faculty and Administrator

• Change password

• Forgot Password

**2.4.6.     Reports:** In this module, different actors can generate the different types of reports according to their responsibilities.
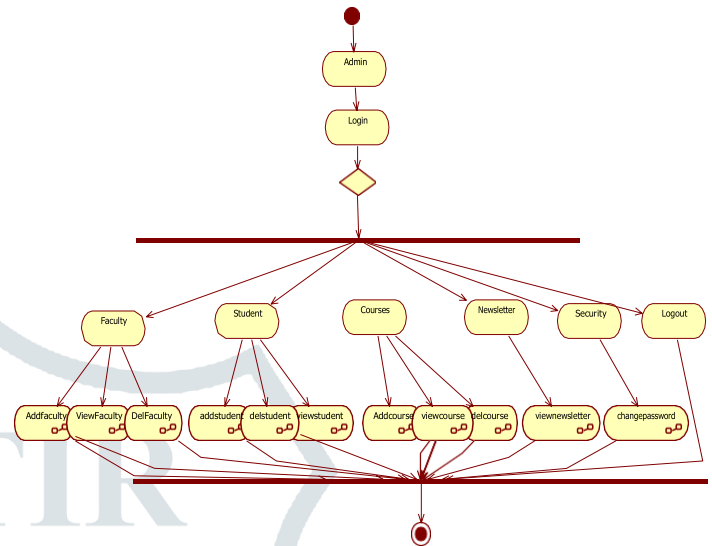
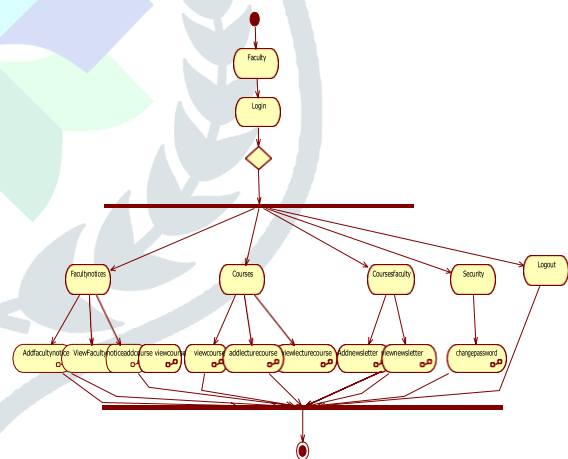## 3. SYSTEM DESIGN



Fig 3.1: Admin Activity Diagram



Fig 3.2: Faculty Activity Diagram

Fig 4.2: Course Details Page



Fig 3.3: ER Diagram

## 4. OUTPUT SCREENSHOTS:



Fig 4.3: Announcement Details Page



Fig 4.1: Home Page



Fig 4.4: Student Details Page

## 5. CONCLUSION AND FUTURE ENHANCEMENT

The **"E-learning resource management system"** was successfully designed and is tested for accuracy and quality.

During this project we have accomplished all the objectives and this project meets the needs of the organization. The developed will be used in searching, retrieving and generating information for the concerned requests.

**Goals:**
- Reduced entry work.
- Easy retrieval of information
- Reduced errors    due to human intervention
- User friendly screens to enter the data
- Portable and flexible  for further enhancement
- Web enabled.
- Fast finding of information requested

**Limitations of the system:**
- Only the permanent employees can access the system.
- System works in all platforms and its compatible environments.
- Advanced techniques are not used to check the authorization.
- Cannot Export data as a comma separated text file to be used with other spread sheet application
  eg: EXCEL,

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