

# **E-LEARNING MANAGEMENT SYSTEM**

NAME & REGISTER NUMBER	Janani. M (195002054) Kamalesh. P (195002056) Keerthana. R (195002063) Khushan (195002064)
CLASS	IT 'A'
SUBJECT CODE AND NAME	UIT1511 – Software Design Lab

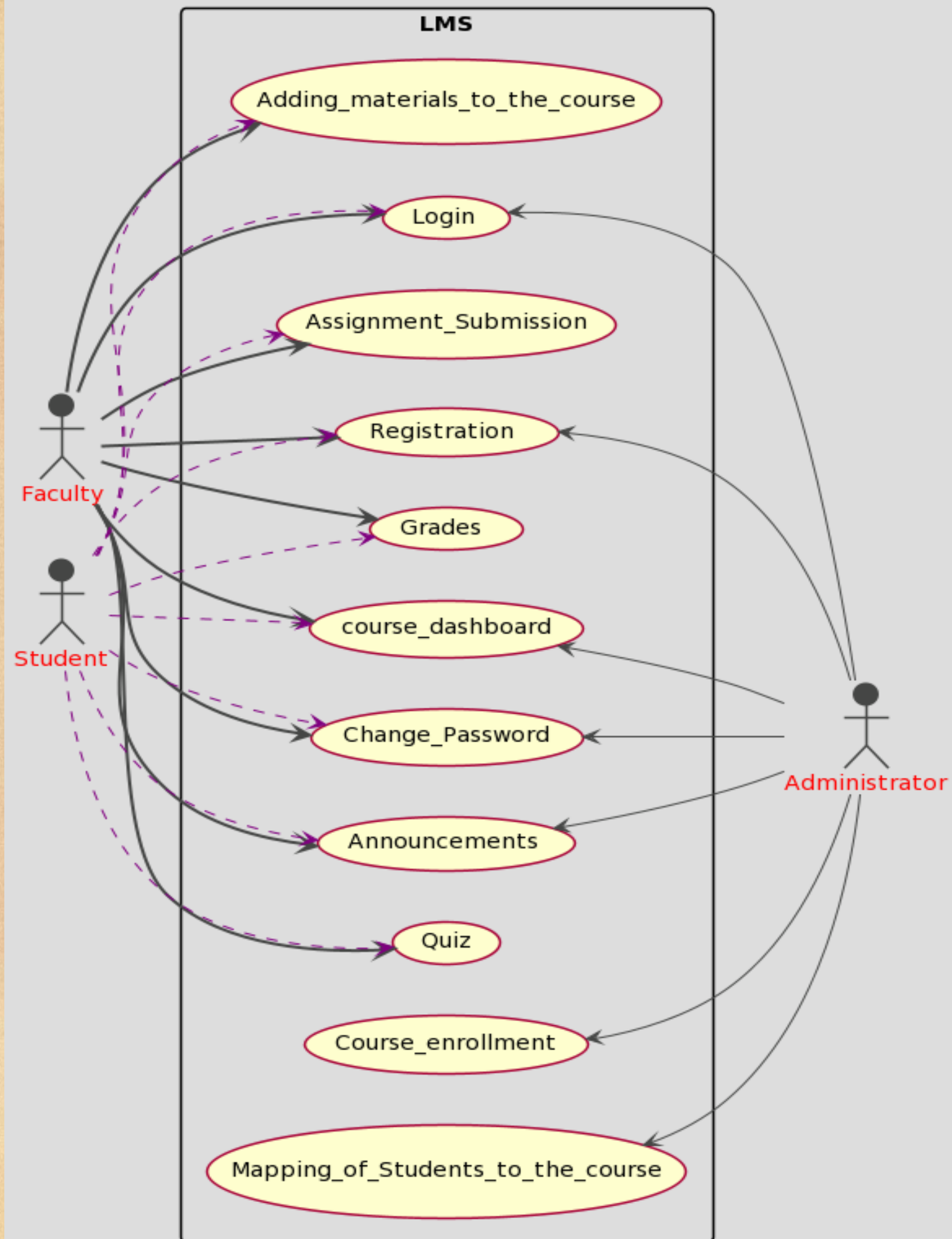


# **PROBLEM DESCRIPTION:**

- Learning Management Systems have become an integral part of the process of designing eLearning content, especially if the institution has a lot of trainers and few or no coaches, so it is necessary to use one of these systems to facilitate the tasks for companies/ organizations and improve the learning process.
- Online learning has been a growing trend for the past decade. The 2020 pandemic has further contributed to its wider adoption and success.
- By making the most of an LMS, you can open doors to engage with your learners(business customers and consumers) across the globe to grow your reach. There are no geographical boundaries in online learning.
- An LMS allows you to deliver courses and learning resources in many formats, from micro learning, videos, and assessments to virtual classrooms and more. That means your customers and students enjoy the flexibility while learning online.

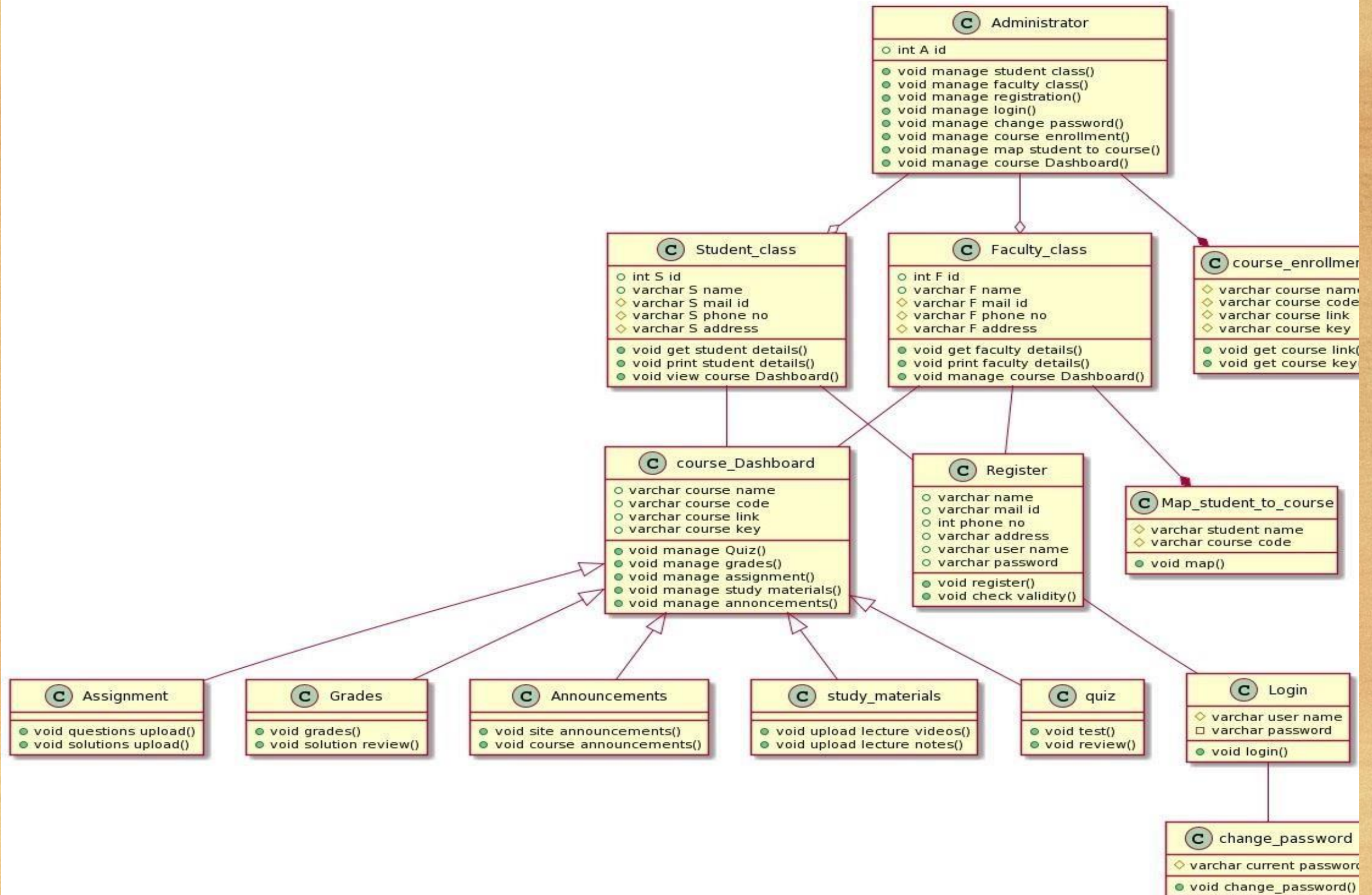


# Use Case Diagram





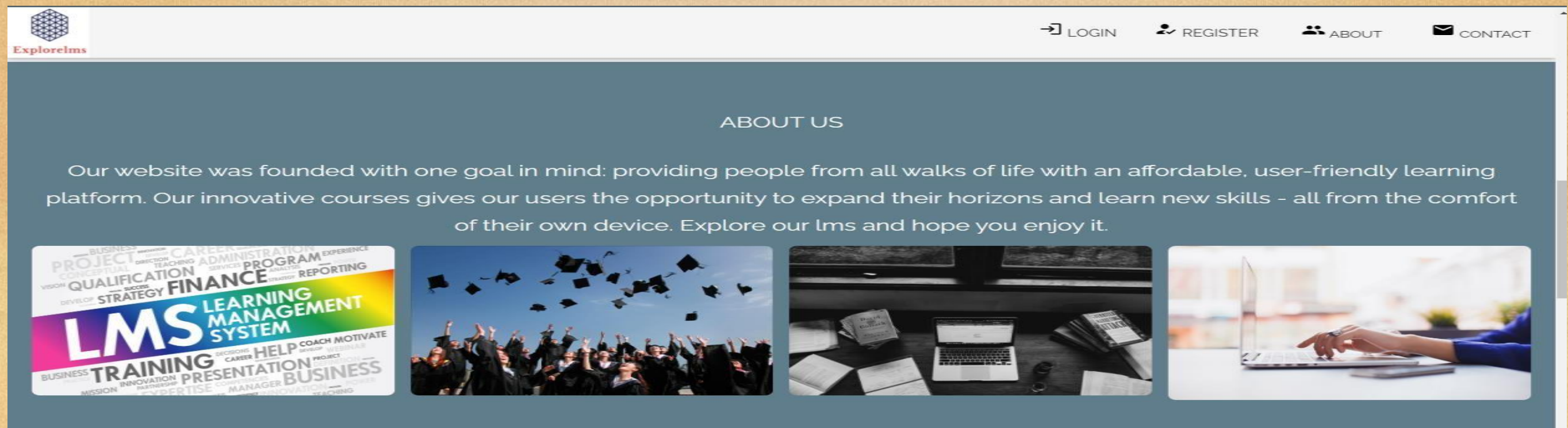
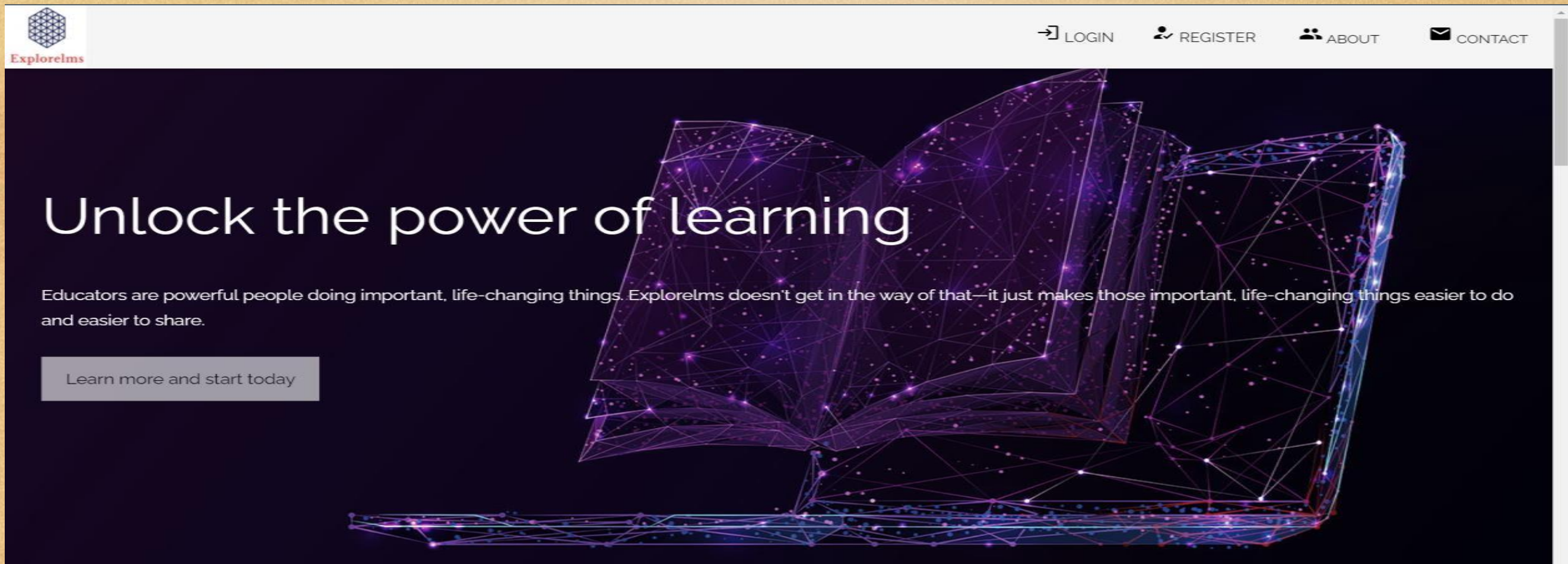
# Class Diagram





# IMPLEMENTATION:

## 1. Home Page





ExploreImms


LOGINREGISTERABOUTCONTACT

CONTACT

Lets get in touch. Send us a message:


Chennai, India

Phone: 91+ 9191919191

Email: exploreImms@gmail.com

SEND MESSAGE

## 2. Login

ExploreImms


LOGINREGISTERABOUTCONTACT

STUDENTFACULTYADMIN

Unlock the power of learning


Educators are powerful people doing important, life-changing things. ExploreImms doesn't get in the way of that—it just makes those important, life-changing things easier to do and easier to share.

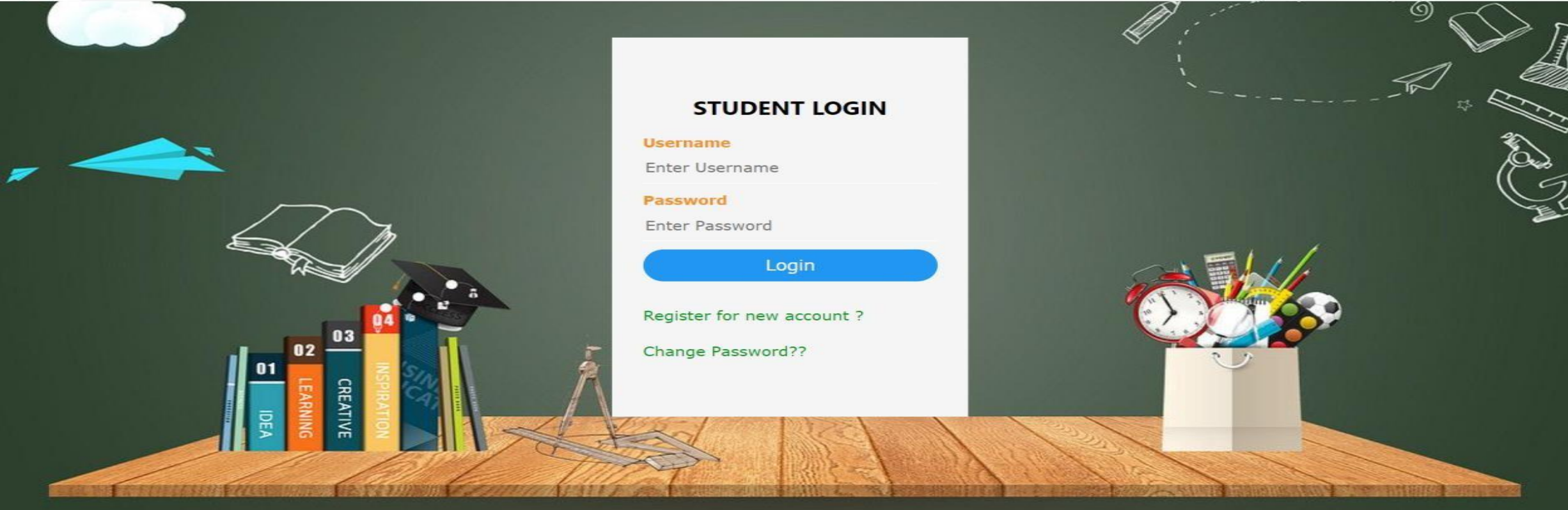
Learn more and start today





## a. Student

 HOME



### STUDENT LOGIN

**Username**  
Enter Username


**Password**  
Enter Password

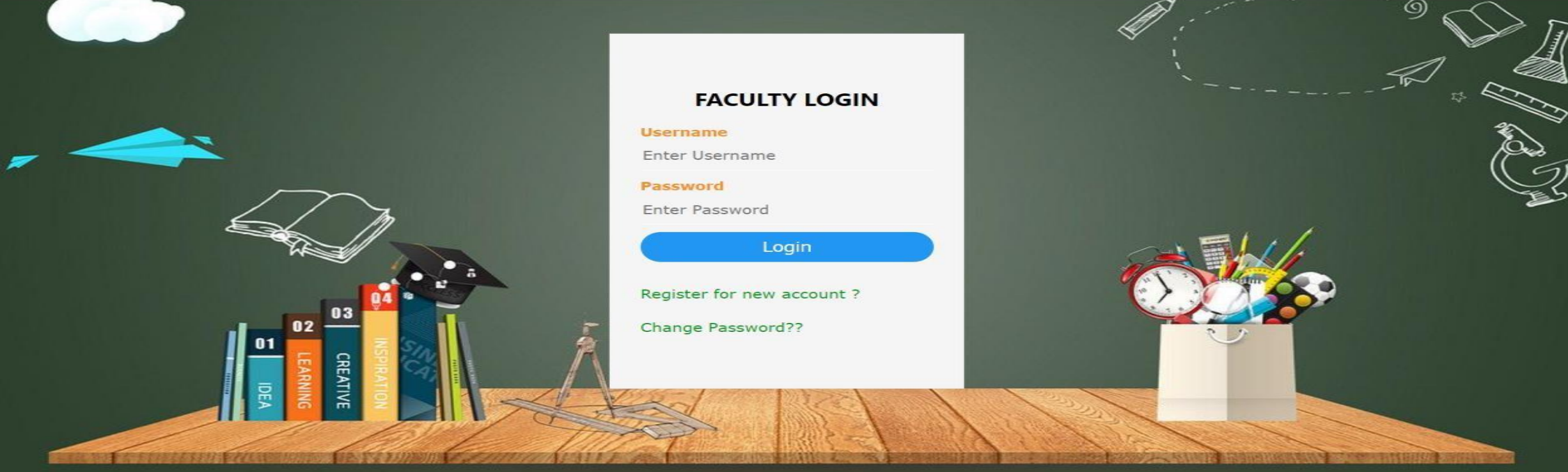
Login

[Register for new account ?](#)

[Change Password??](#)

## b. Faculty

 HOME



### FACULTY LOGIN

**Username**  
Enter Username

**Password**  
Enter Password

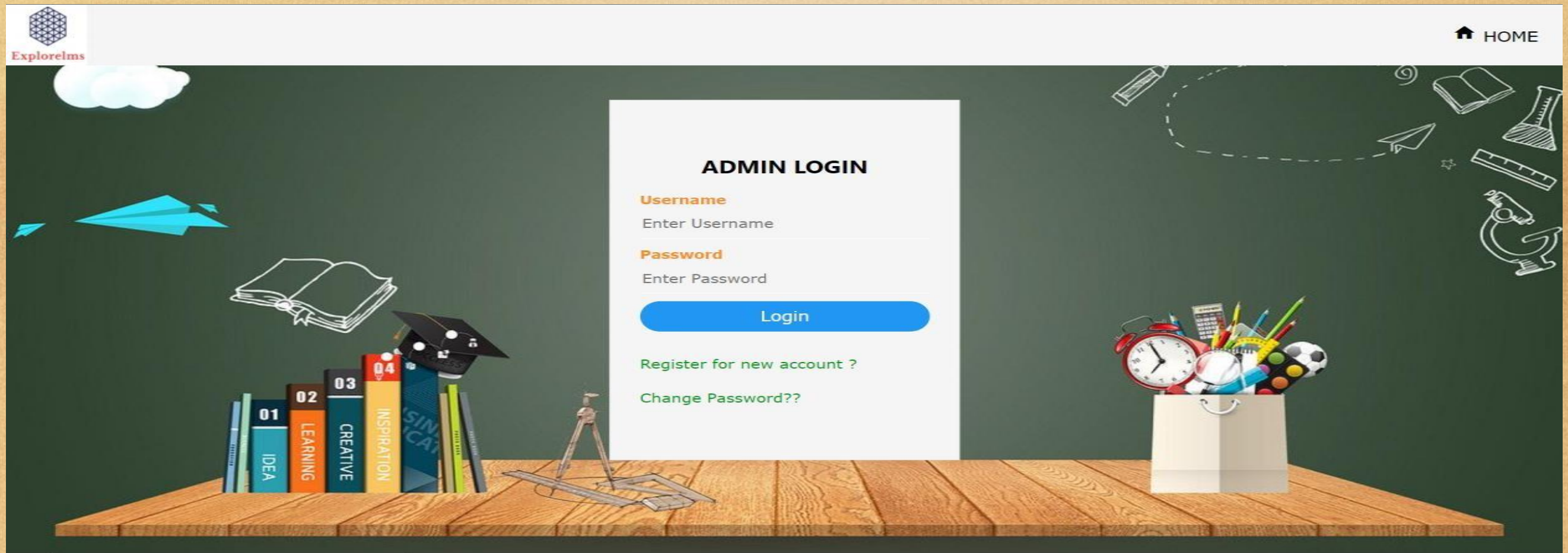
Login

[Register for new account ?](#)

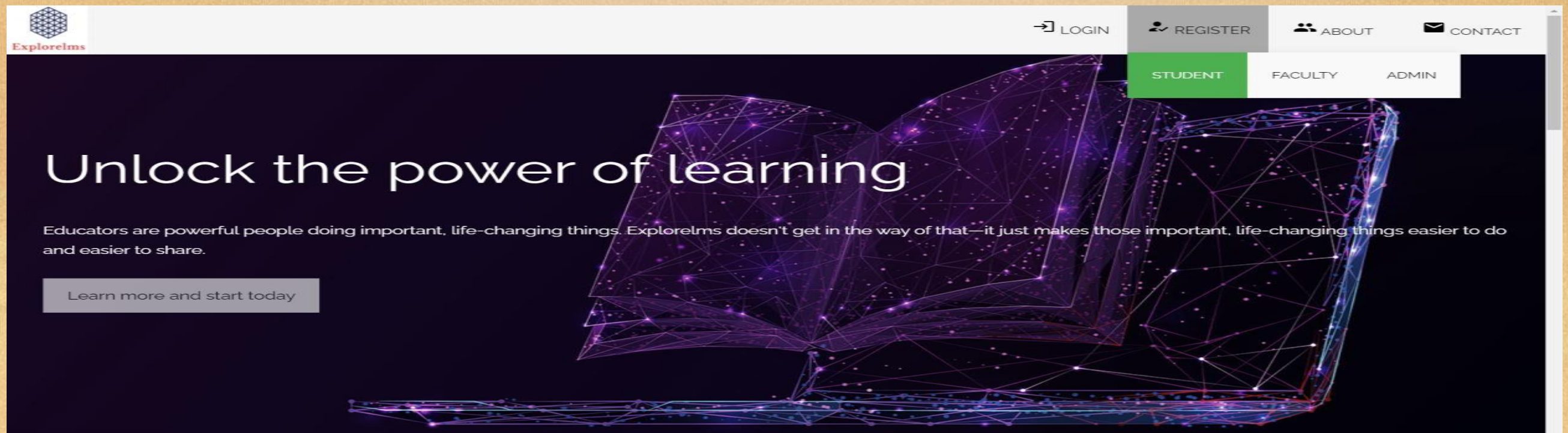
[Change Password??](#)



## c. Admin




## 3. Registration






a. Student



ExploreImms

HOME

Student Registration

Username

Enter Username

Your name

Enter your name

Email

Enter email id

Password


Enter Password

Retype Password


Re-Enter Password

Register


existing user, login ?



b. Faculty



ExploreImms

HOME

Faculty Registration

Username

Enter Username

Your name

Enter your name

Email

Enter email id

Password


Enter Password

Retype Password

Re-Enter Password

Register

existing user, login ?





# c. Admin



 HOME

## Admin Registration

**Username**

Enter Username

**Your name**

Enter your name

**Email**

Enter email id

**Password**

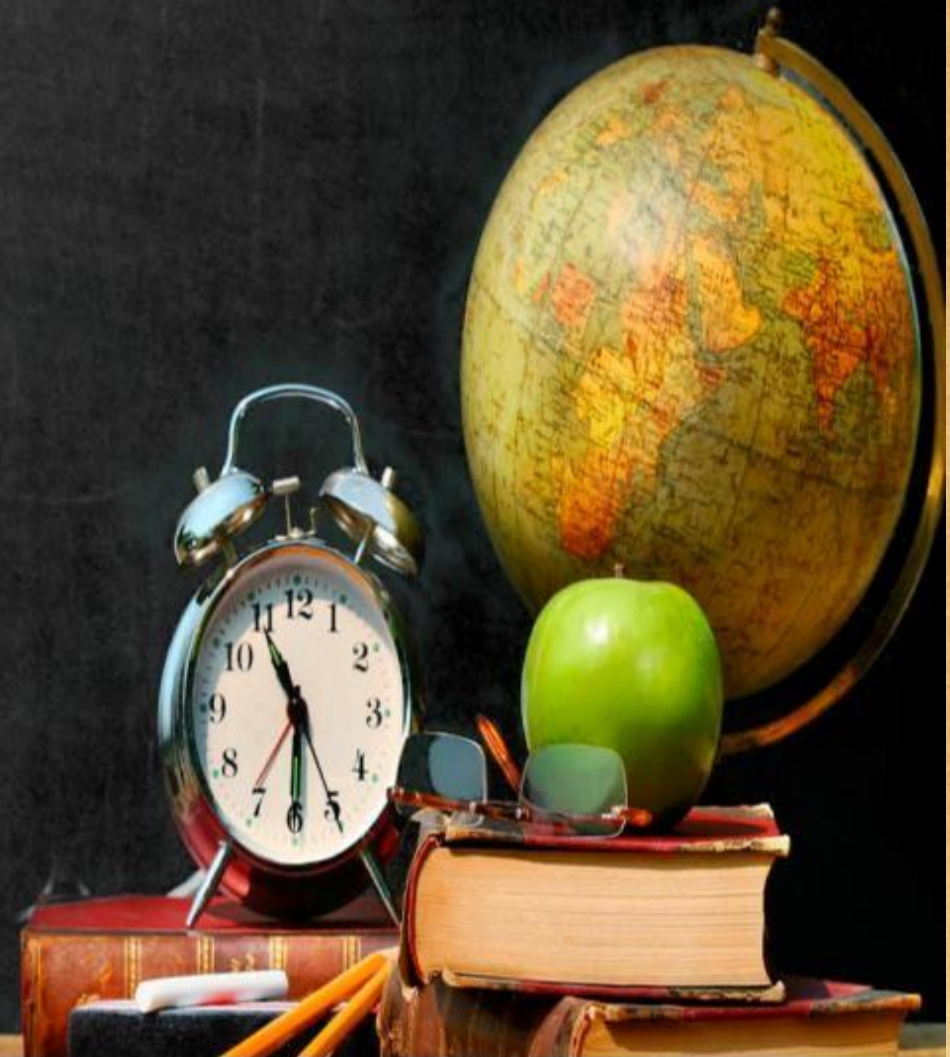
Enter Password

**Retype Password**

Re-Enter Password

Register


[existing user, login ?](#)





# 4.Change password

## a.Student

Explorelms

[← Back to Dashboard](#) [↗ LOGOUT](#)

### CHANGE STUDENT PASSWORD

**Username**  
Enter Username

**Old password**  
Enter Old password

**New password**  
Enter new password


**Re-enter New Password**  
Re-Enter new password

Confirm Change password

[Register for new account ?](#)

[Login ?](#)

## b. Faculty

Explorelms

[← Back to Dashboard](#) [↗ LOGOUT](#)

### CHANGE FACULTY PASSWORD

**Username**  
Enter Username

**Old password**  
Enter Old password

**New password**  
Enter new password


**Re-enter New Password**  
Re-Enter new password

Confirm Change password

[Register for new account ?](#)

[Login ?](#)



  
ExploreImms

[← Back to Dashboard](#) [↗ LOGOUT](#)

## CHANGE ADMIN PASSWORD

**Username**  
Enter Username

**Old password**  
Enter Old password

**New password**  
Enter new password

**Re-enter New Password**  
Re-Enter new password

Confirm Change password


[Register for new account ?](#)

[Login ?](#)





# 5. Dashboard


## a. Student





STUDENT DASHBOARD


 Change Password


 Logout


 Home


 Profile

 Courses

 My courses


 List of Faculties

 Assignments


 Grades


Course ID	Course Name
1	C
2	c++
3	java
4	pyrhon
5	HTML
6	PHP
7	Javascript
9	Angular JS
10	js


## b. Faculty





FACULTY DASHBOARD


 Change Password


 Logout


 Home

 Profile

 Courses

 My courses


 Assignments

 Grades

Course Id	Courses
1	C
2	c++
3	java
4	pyrhon
5	HTML
6	PHP
7	Javascript
9	Angular JS
10	js



c. Admin

ExploreImms

Home

Profile

Student list

faculty list

Manage Courses

Map faculty to courses

Map Student to course

Student Registration

Faculty Registration

Admin Registration


ADMIN DASHBOARD

Change Password

Logout

Student ID	Student Name	Email address
1	kamalesh	kamal@123
2	kamal	kamal@gmail.com

6.Student Dashboard  
a.Student Profile

ExploreImms

Home

Profile

Courses

My Courses

List of Faculties

Assignments

Grades

My Profile


Change Password

Logout

Student ID	Student name	Student username	Email address	Number of courses enrolled
1	kamalesh	kamal	kamal@123	3





b. Courses





ExploreImms


STUDENT DASHBOARD


 Change Password


 Logout


 Home


 Profile

 Courses

 My courses


 List of Faculties

 Assignments

 Grades


Course ID	Course Name
1	C
2	c++
3	java
4	pyrhon
5	HTML
6	PHP
7	Javascript
9	Angular JS
10	js


c. My courses





ExploreImms


MY COURSES


 Change Password


 Logout


 Home


 Profile

 Courses

 My Courses

 List of Faculties


 Assignments

 Grades

Course ID	Course Name	Faculty ID
1	c	1
2	c++	1
3	java	0



# d. List of faculties



ExploreImms

Home

Profile

Courses

My courses

List of Faculties

Assignments

Grades


Change Password

Logout

Faculty ID	Faculty Name	Email address
0	ram	ram@123
1	ramesh	ramesh@123
2	geetha	geetha@123

# 7. Faculty Dashboard

## a. Faculty Profile



ExploreImms

Home

Profile

Courses

My courses

Assignments

Grades


Change Password

Logout

Faculty ID	Faculty name	Faculty username	Email address	Number of courses handling
0	Ram	ram	ram@123	0



## b. Courses



# FACULTY DASHBOARD

[Change Password](#) [Logout](#)

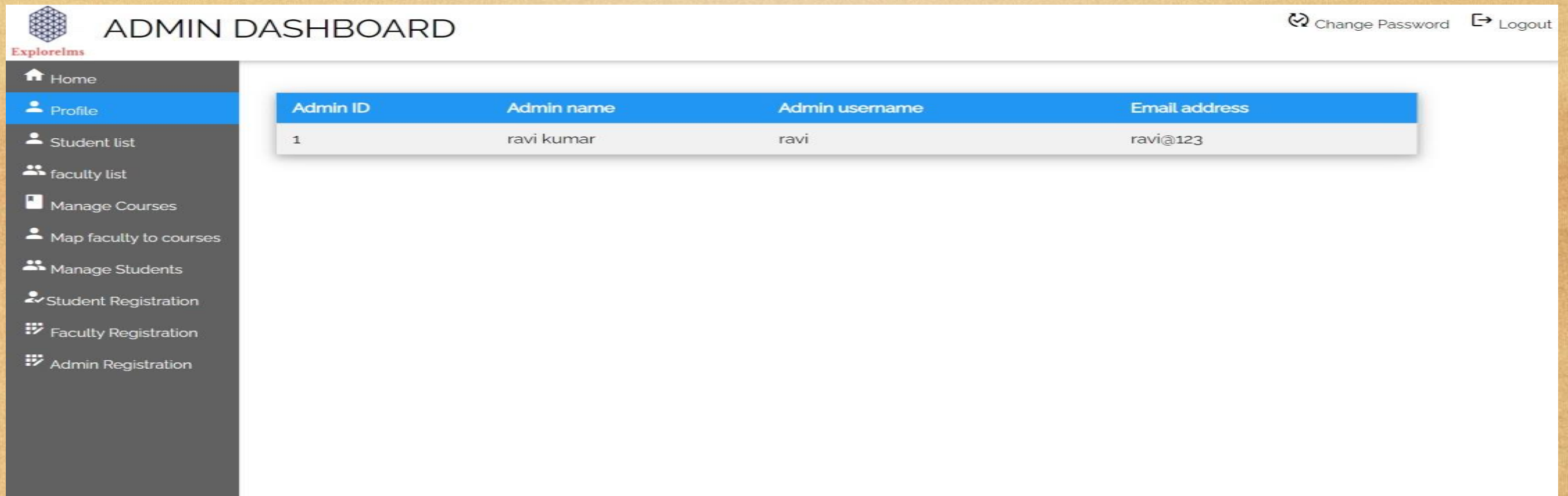
[Home](#)  
[Profile](#)  
**[Courses](#)**  
[My courses](#)  
[Assignments](#)  
[Grades](#)

Course Id	Courses
1	C
2	C++
3	java
4	pyrhon
5	HTML
6	PHP
7	Javascript
9	Angular JS
10	js



## 8. Admin Dashboard

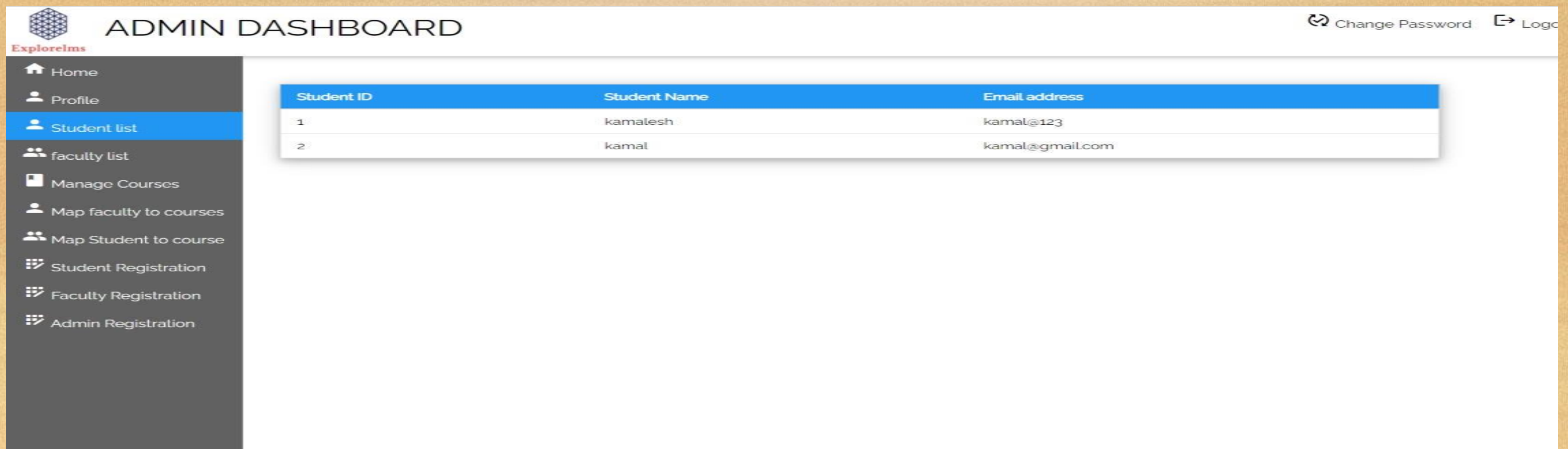
### a. Admin profile



The screenshot displays the Admin Dashboard interface. The top header includes the 'ExploreImms' logo, the title 'ADMIN DASHBOARD', and links for 'Change Password' and 'Logout'. A left sidebar contains navigation options: Home, Profile (selected), Student list, faculty list, Manage Courses, Map faculty to courses, Manage Students, Student Registration, Faculty Registration, and Admin Registration. The main content area shows a table with the following data:

Admin ID	Admin name	Admin username	Email address
1	ravi kumar	ravi	ravi@123

### b. Student list




The screenshot displays the Admin Dashboard interface with the 'Student list' section selected in the sidebar. The main content area shows a table with the following data:

Student ID	Student Name	Email address
1	kamalesh	kamal@123
2	kamal	kamal@gmail.com



c. Faculty list



ADMIN DASHBOARD

Change Password

Back to Dashboard

Logout

Home

Profile

Student list

faculty list

Manage Courses

Map faculty to courses

Map Student to course

Student Registration

Faculty Registration

Admin Registration

Faculty ID	Faculty Name	Email address
0	Ram	ram@123
1	ramesh kumar	ramesh@123
2	geethap	geetha@123

d. Manage courses

Add Courses


Back to dashboard

Logout

CourseId	Courses	Delete	Update
1	C	Delete	Update
2	c++	Delete	Update
3	java	Delete	Update
4	pyrhon	Delete	Update
5	HTML	Delete	Update
6	PHP	Delete	Update
7	Javascript	Delete	Update
9	Angular JS	Delete	Update
10	js	Delete	Update
CourseId	Courses	Delete	Update



e. Map faculty to course



[← Back to Dashboard](#)[↗ LOGOUT](#)

### Map Faculty to courses

Faculty ID

-- Select Faculty ID --

Enter Faculty ID

Course ID

-- Select Course ID --

Enter Course Name

Course Name


-- Select Course Name --

Enter Course Name

Submit

Exit

f. Map student to course



[← Back to Dashboard](#)[↗ LOGOUT](#)

### Map Student to courses

Student ID

-- Select Student ID --

Enter Student ID

Course ID

-- Select Course ID --

Enter Course Name

Course Name

-- Select Course Name --


Enter Course Name

Submit


Exit




# g. Student registration




Student registration validation

 Dashboard


 Logout


Student username	Student Name	Student Email	Add	Delete
abc	abccc	abc@123	Add	Delete
Student username	Student Name	Student Email	Add	Delete

# h. Faculty registration



Faculty registration validation


 Dashboard

 Logout



Faculty username	Faculty Name	Faculty Email	Add	Delete
sdsdsdwe	sdsdwewe	wde@sdsd	Add	Delete
Faculty username	Faculty Name	Faculty Email	Add	Delete



i.Admin registration

  
ExploreImms

Admin registration validation

 Dashboard  Logout

Admin username	Admin Name	Admin Email	Add	Delete
admin	admin	admin@123	Add	Delete
Admin username	Admin Name	Admin Email	Add	Delete

9. Manage courses

a. Add courses

Add CoursesBack to dashboardLogout

Courseld			Update
1			Update
2			Update
3			Update
4			Update
5			Update
6			Update
7			Update
9	Angular JS	Delete	Update
10	js	Delete	Update
Courseld	Courses	Delete	Update

Add Courses

New Course

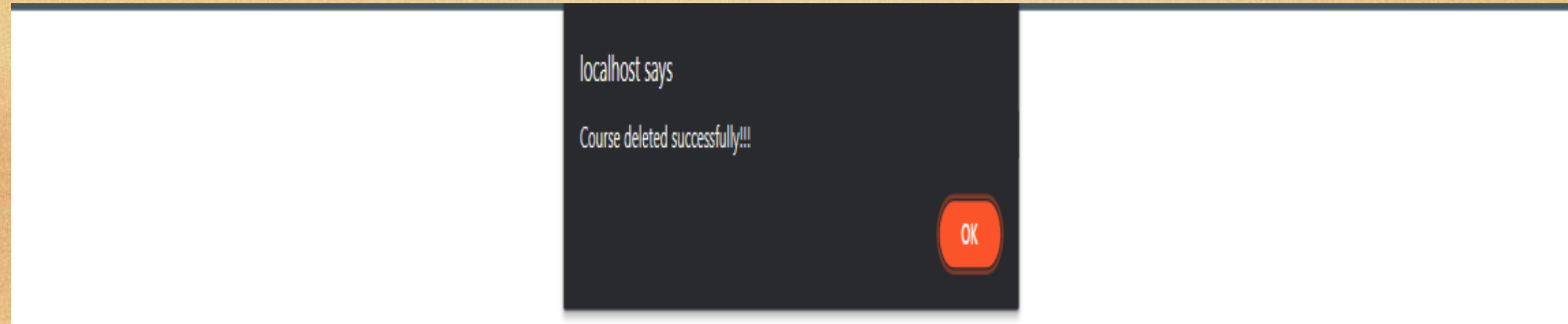
Enter New Course

Add Course

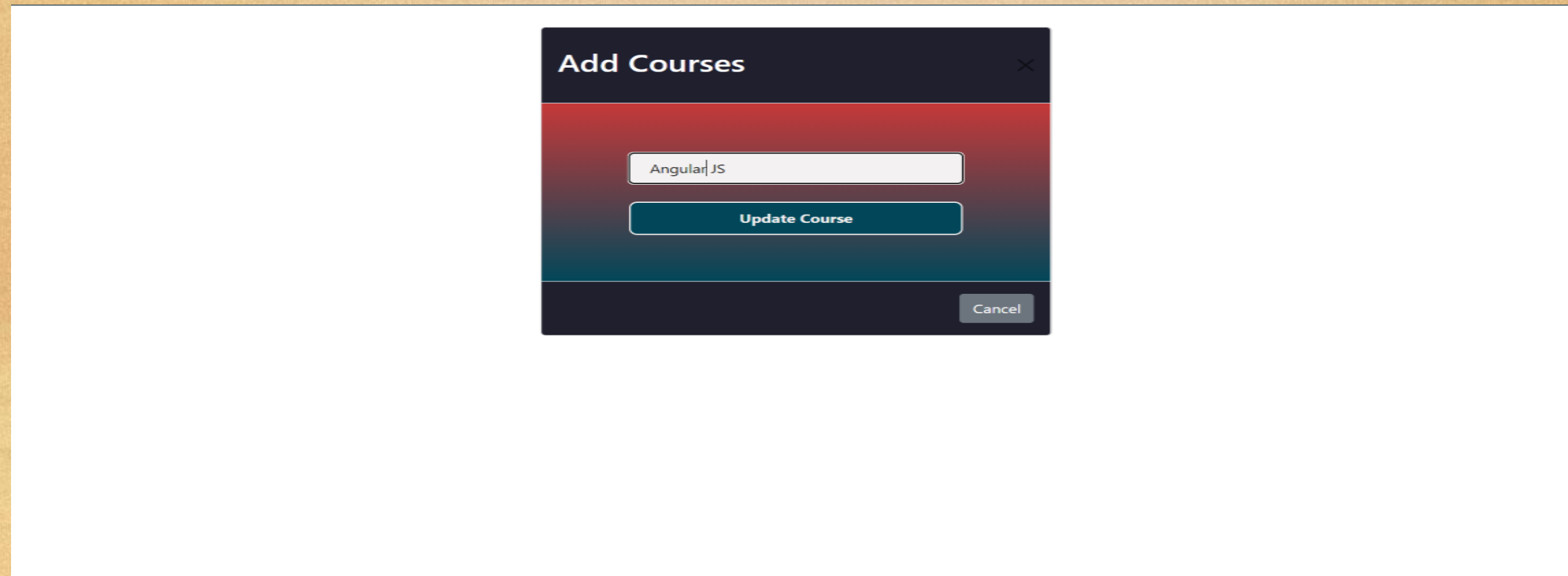
Cancel



## b. Delete courses



## c. Update course





# TEST CASES:

## 1)Login:

- Valid password and username —  
successful login to student dashboard

### STUDENT LOGIN

**Username**

kamal


**Password**

...

Login

[Register for new account ?](#)

[Change Password??](#)

STUDENT DASHBOARD

[Change Password](#) [Logout](#)

[Home](#)  
[Profile](#)  
[Courses](#)  
[My courses](#)  
[List of Faculties](#)  
[Assignments](#)  
[Grades](#)

Course ID	Course Name
2	C++
3	java
4	python
5	HTML
6	PHP
7	Javascript
9	Angular JS



- Invalid password and username - alert!

**STUDENT LOGIN**

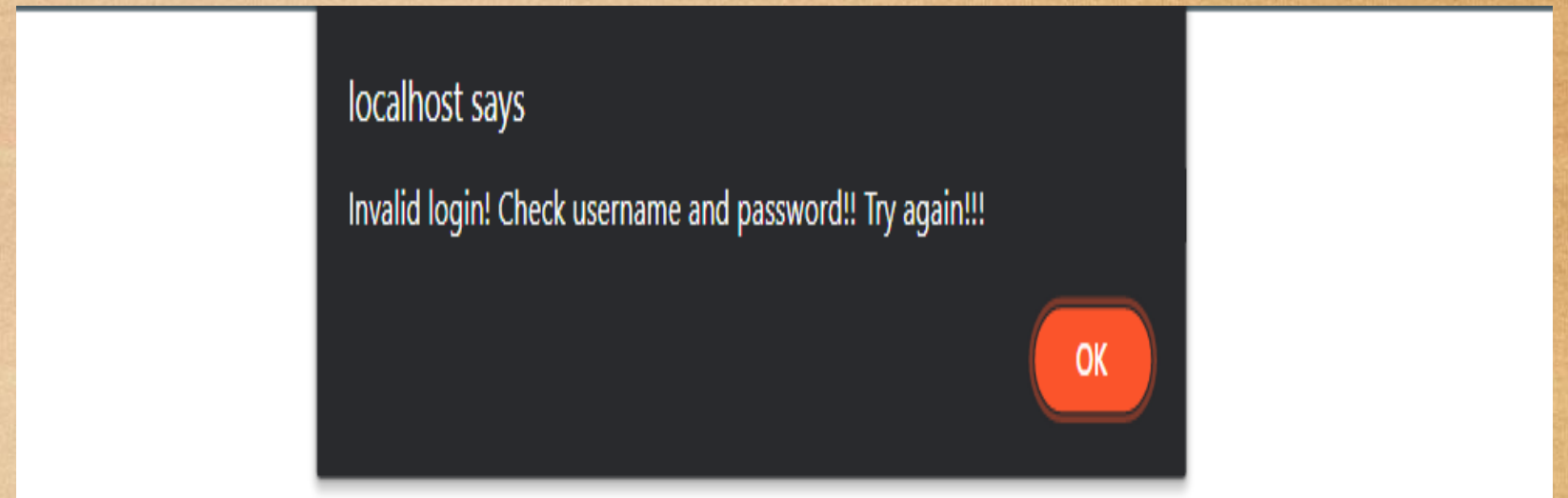
**Username**  
kamaleshp

**Password**  
...

Login

[Register for new account ?](#)

[Change Password??](#)



- Both Username and password must be entered in order to login

**STUDENT LOGIN**

**Username**  
sdssd

**Password**  
|Enter Password

Please fill out this field.

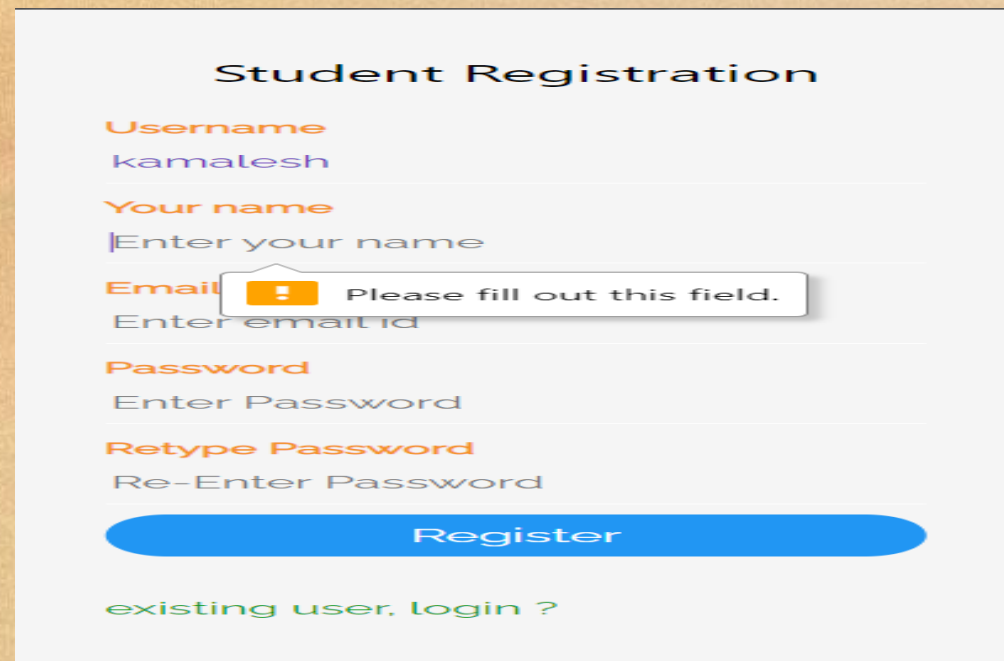
[Register for new account ?](#)

[Change Password??](#)



## 2)Registration:

- All fields must be entered in order to register

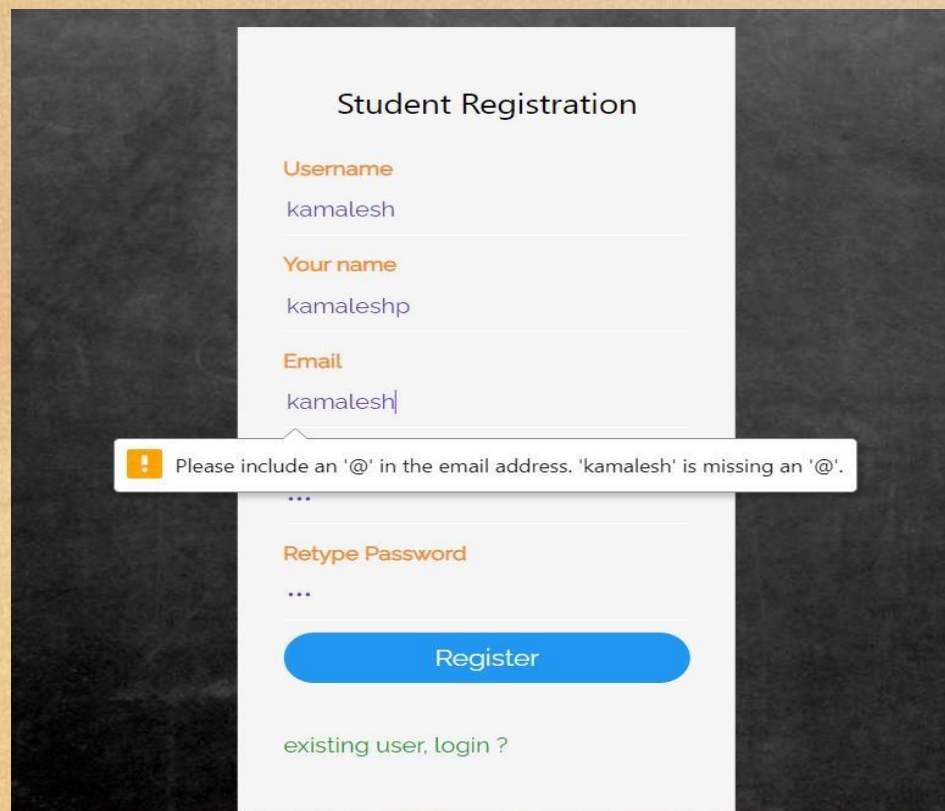


The screenshot shows a 'Student Registration' form with the following fields and values:

- Username:** kamalesh
- Your name:** Enter your name
- Email:** Enter email id
- Password:** Enter Password
- Retype Password:** Re-Enter Password

A blue 'Register' button is at the bottom. Below the button is a link: 'existing user, login ?'. A general error message is displayed above the Email field: 'Please fill out this field.' with an orange exclamation mark icon.

- Email must have @ symbol



This screenshot shows the same 'Student Registration' form, but with the 'Email' field containing the text 'kamalesh'. A specific error message is displayed below the Email field: 'Please include an '@' in the email address. 'kamalesh' is missing an '@'.' with an orange exclamation mark icon. The other fields (Username, Your name, Password, Retype Password) are empty. The 'Register' button and the 'existing user, login ?' link are still visible at the bottom.



- Password and re-enter password must match

localhost says

Password and re-enter Password Does not match!!!

OK

- On successful registration

localhost says

Registration Successful!      wait for admin validation

OK

- Same email address registration

localhost says

Email address exists

OK




### 3)Change password:

- All fields must be entered

#### CHANGE STUDENT PASSWORD

**Username**

**Old password**  

 Please fill out this field.

**New password**

**Re-enter New Password**

Confirm Change password

[Register for new account ?](#)

[Login ?](#)

- Old password must match

localhost says

Old Password Doesnot match

OK



- New password must match with re-enter new password

localhost says

Re-enter new password Does not match

OK

#### 4) Registration validation by admin:

- Successful registration

localhost says

Student registration Added!!!

OK

- Deletion of student registration

localhost says

Student registration deleted successfully!!!

OK



## 5) Mapping faculty to the courses

- Faculty id, Course id and course name will be displayed in drop down menu.

The form is titled "Map Faculty to courses" and includes a "Back to Dashboard" link and a "LOGOUT" button. It contains three main sections: "Faculty ID" with a dropdown menu, "Course ID" with a dropdown menu, and "Course Name" with a dropdown menu. Each section has a text input field and a "Submit" button. The "Exit" button is located at the bottom left of the form.

The form is titled "Map Faculty to courses" and includes a "Back to Dashboard" link and a "LOGOUT" button. It contains three main sections: "Faculty ID" with a dropdown menu, "Course ID" with a dropdown menu, and "Course Name" with a dropdown menu. Each section has a text input field and a "Submit" button. The "Exit" button is located at the bottom left of the form.

- If the faculty is already mapped to the course, alert will be given

localhost says

course already mapped!!!

OK



- On successful mapping,

localhost says  
Mapping successful!!!

OK

## 6) Mapping students to the courses

- Student id, Course id and course name will be displayed in drop down menu.

ExploreLms Back to Dashboard LOGOUT

**Map Student to courses**

**Student ID**  
-- Select Student ID --  
-- Select Student ID --  
47  
1  
2  
-- Select Course ID --  
Enter Course Name

**Course Name**  
-- Select Course Name --  
Enter Course Name

Submit

Exit

ExploreLms Back to Dashboard LOGOUT

**Map Student to courses**

**Student ID**  
-- Select Student ID --  
Enter Student ID

**Course ID**  
-- Select Course ID --  
-- Select Course ID --  
2  
3  
4  
5  
6  
7  
9

Submit

Exit

ExploreLms Back to Dashboard LOGOUT

**Map Student to courses**

**Student ID**  
-- Select Student ID --  
Enter Student ID

**Course ID**  
-- Select Course ID --  
Enter Course Name

**Course Name**  
-- Select Course Name --  
-- Select Course Name --  
c++  
java  
python  
HTML  
PHP  
Javascript  
Angular JS

Submit



- If faculty is not assigned to the course, students cannot be mapped to the course.

**Map Student to courses**

**Student ID**  
47

47

**Course ID**  
10

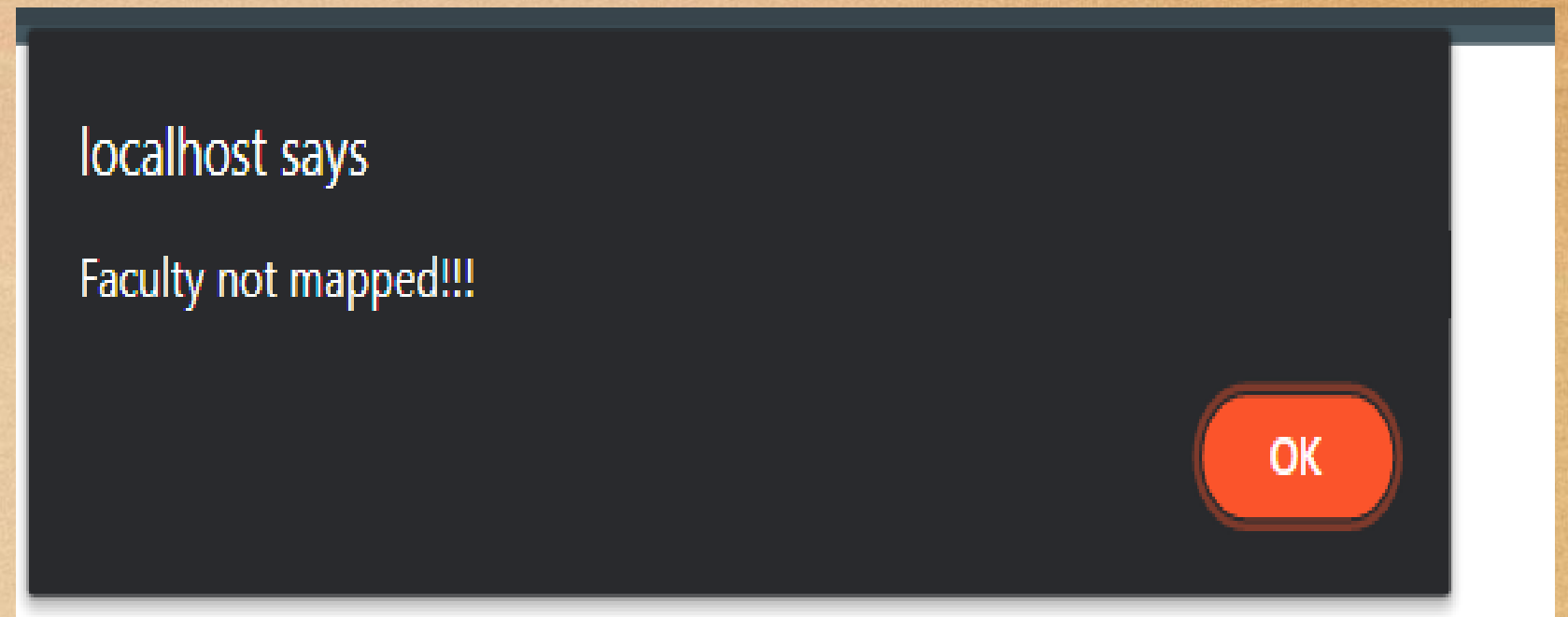
..

**Course Name**  
dbms

....

Submit

Exit



Here, no faculty is assigned to dbms. So, alert pops out.



- If the student is already mapped to the course, alert pops out.

Map Student to courses

Student ID  
1

1

Course ID  
2

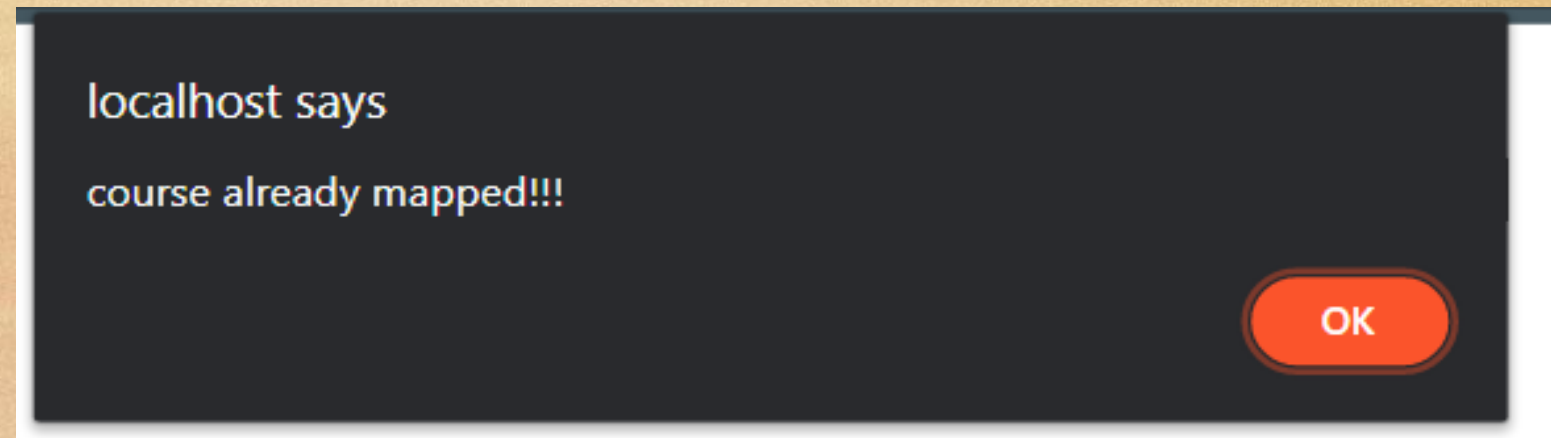
•

Course Name  
C++

...

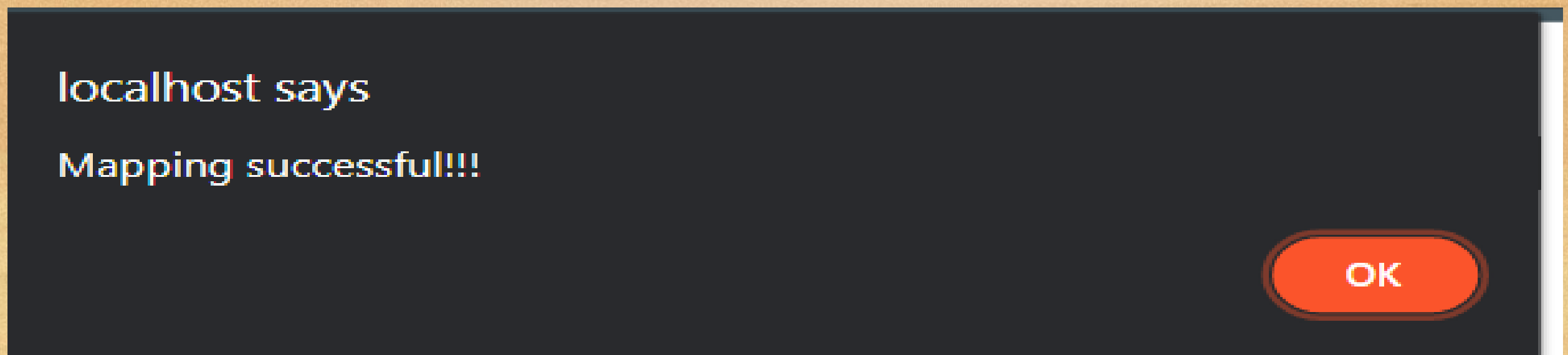
Submit

Exit



Here, student with id 1 is mapped to course c++. So, the alert pops.

- On successful mapping,





## 7)Manage courses

### •Deletion of a course

[Add Courses](#) [Back to dashboard](#) [Logout](#)

CourseId	Courses	Delete	Update
2	C++	Delete	Update
3	java	Delete	Update
4	python	Delete	Update
5	HTML	Delete	Update
6	PHP	Delete	Update
7	Javascript	Delete	Update
9	Angular JS	Delete	Update
10	dbms	Delete	Update
CourseId	Courses	Delete	Update

localhost says

Course deleted successfully!!!

OK

After deletion,

[Add Courses](#) [Back to dashboard](#) [Logout](#)

CourseId	Courses	Delete	Update
2	C++	Delete	Update
3	java	Delete	Update
4	python	Delete	Update
5	HTML	Delete	Update
6	PHP	Delete	Update
7	Javascript	Delete	Update
9	Angular JS	Delete	Update
CourseId	Courses	Delete	Update

Here, we delete course dbms.



- Updation of course name

<div>Add CoursesBack to dashboardLogout</div>			
Courseld	Courses	Delete	Update
2	C++	Delete	Update
3	java	Delete	Update
4	python	Delete	Update
5	HTML	Delete	Update
6	PHP	Delete	Update
7	Javascript	Delete	Update
9	Angular JS	Delete	Update
Courseld	Courses	Delete	Update

Here, we are updating course name angular JS to Node JS.

## Add Courses

Node JS

Update Course

Cancel



On updating,

Add CoursesBack to dashboardLogout

CourseId	Courses	Delete	Update
2	C++	Delete	Update
3	java	Delete	Update
4	python	Delete	Update
5	HTML	Delete	Update
6	PHP	Delete	Update
7	Javascript	Delete	Update
9	Node JS	Delete	Update
CourseId	Courses	Delete	Update

- Addition of courses

Add CoursesBack to dashboardLogout

Add Courses

New Course

Enter New Course

Add Course

Cancel

CourseId		Update	
2		Update	
3		Update	
4		Update	
5		Update	
6		Update	
7		Update	
9		Update	
CourseId	Courses	Delete	Update



Inserting course,

Add Courses

New Course

flask

Add Course

Cancel

localhost says

Course Added Successfully!!

OK

Add Courses

Back to dashboard

Logout

Courseld	Courses	Delete	Update
2	C++	Delete	Update
3	java	Delete	Update
4	python	Delete	Update
5	HTML	Delete	Update
6	PHP	Delete	Update
7	Javascript	Delete	Update
9	Node JS	Delete	Update
11	flask	Delete	Update
Courseld	Courses	Delete	Update

Course added successfully.



# MEETING LOGS:

MEETING NO	GOAL	DATE	TIME	DURATION	ATTENDEES	POINT DISCUSSED
1.	Discuss the next plan of action	JULY 24	6.00 PM	30 MIN	JANANI KAMLESH KEERTHANA KHUSHAN	Problem statement
2.	Select the optimal solution	AUGUST 5	8.00 PM	15 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Given choices of solutions – selection of optimal solution.
3.	Learn the basic requirements for project	AUGUST 8	3.00 PM CLIENT MEETING	45 MIN	SASIREKA MAM JANANI KAMALESH KEERTHANA KHUSHAN	Basic requirements elicitation
4.	Discuss the SOW	AUGUST 10	3.30 PM	15 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	SOW contract discussion and Approval
5.	Problem statement	JULY 26	4.30 PM	15 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Analysis of problem statement
6.	Learn jira Tools	AUGUST 1	6.00 PM	20 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Learning and understanding JIRA
8.	SOW	AUGUST 17	8.00 PM	15 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Statement of Work



8.	UML DIAGRAM	AUGUST 18	3.15 PM	30 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	The purpose of visually representing a system along with its main actors, roles, Actions, classes.
9.	USE CASE DIAGRAM	AUGUST 19	3.00 PM	30 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	1.administrator-> student_class, faculty_class, course_enrollment 2.student_class -> course_dashboard, Register 3.faculty -> course dashboard, Register, mapping of student and course
12.	FRAMEWORK	AUGUST 21	8.00 PM	15 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Framework selection – PHP, MYSQL
13.	Modules	AUGUST 25	4.00 PM	30 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Modules description



14.	WEBPAGE DESIGN	AUGUST 28	8.30 PM	30 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Interface design using HTML CSS PHP JAVASCRIPT
15.	SETUP TOOLS	AUGUST 31	8.00 PM	15 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Installation and setup of tools (PHP MYSQL JIRA)
16.	MODULE PAGE DESIGN	SEPTEMBER 1	5.00 PM	20 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Design of login page, Register page, change password page
17.	DASHBOARD PAGE DESIGN	SEPTEMBER 4	7.30 PM	15 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Dashboard implementation and other module
18.	DATABASE CONNECTION	SEPTEMBER 6	8.00 PM	30 MIN	JANANI KAMALESH KEERTHANA KHUSHAN	Database connection



CERTIFICATE OF PROJECT COMPLETION  
SSN COLLEGE OF ENGINEERING  
RAJIV GANDHI SALAI(OMR), KALAVAKKAM -603 110



ExploreImms

This is to certify that the following students -

**Janani. M, Kamalesh. P, Keerthana. R, Khushan -**

have developed a project titled “E-Learning Management System” as per our requirements as client. I, Dr. S. Sasirekha, hereby validate their contribution to the project for the features:

**Login, Register, Change password, Managing courses,  
Mapping of students and faculty to courses ...**

A handwritten signature in black ink, appearing to read 'S. Sasirekha', written over a horizontal line.

DR. S. SASIREKHA  
ASSOCIATE PROFESSOR/IT