

# **ONLINE COURSE REGISTRATION**

**Team Members:**

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## ONLINE COURSE REGISTRATION

- **Name for the website**

Enrol and Learn

- **Project Description**

The course registration website is specially created for the users to sign up and get themselves enrolled for the course they would like to study in a term (fall, spring or summer).

- **Sign Up**

The users who are visiting the website for the first time must register so that their credentials are saved onto the database. To register successfully, user must enter the name, username, email address, password and confirm password.

- **Admin Login**

The admin user has been given additional privileges than a regular user as he is authorized to make important changes in the database.

- Admin can add new departments to the system.
- Admin can add new courses and assign department and terms to that course. He can also add the code, name, timings, seats and description for the course.
- Admin can update the already created course. If the admin updates a course then the users who were enrolled to the old course would be removed.
- Admin can delete from the list of courses he has created. Deleting a course would also remove its enrolled users.

- **User Login**

Once the user registers to the system and logs into it using username and password. He can perform the following functions.

- On its home page, user can see the list of courses available in the system.
- When a user wants to enrol for a course, he has been given an option to select a term from the drop down. After selection, he can see the list of courses he can enrol for in that term. User cannot again enrol to an already enrolled course or to a course in which there are no available seats.
- When a user wants to drop a course, he has been given an option to select a term from the drop down. After selection, he can see the list of courses he has already enrolled and can drop among those option of courses.
- The user can also view the list of his enrolled courses for a term by selecting the term from the drop down.

- **Additional Features**

The admin and user homepage contains JQuery datatables which allows the user to sort the list of courses based on a particular column. The homepage also contains

search feature to display results based on a particular query term and also supports pagination feature to limit the number of records to be shown on the homepage.

- **Database Design**

Following tables are created for the website:

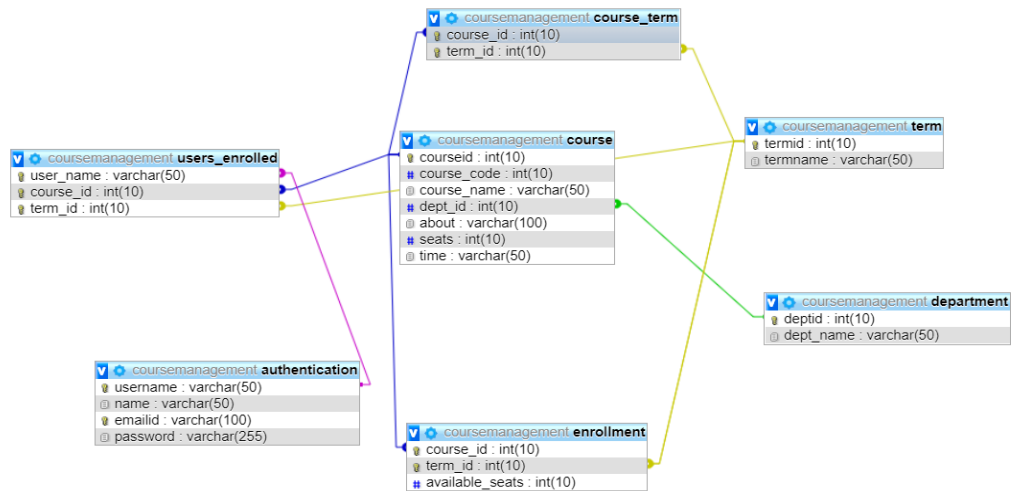
1. Authentication(username, name, emailid, password)
2. Course(courseid, course\_code, course\_name, dept\_id, about, seats, time)
3. Department(deptid, dept\_name)
4. Term(termid, termname)
5. Course\_term(course\_id, term\_id)
6. Enrollment(course\_id, term\_id, available\_seats)
7. Users\_enrolled(user\_name, course\_id, term\_id)

Following SQL queries are executed to create the tables adding foreign key dependencies:

1. CREATE TABLE authentication (  
    username varchar(50) NOT NULL,  
    name varchar(50) NOT NULL,  
    emailid varchar(100) NOT NULL,  
    password varchar(255) NOT NULL,  
    primary key(username, emailid)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
2. CREATE TABLE course (  
    courseid int(10) NOT NULL,  
    course\_code int(10) NOT NULL,  
    course\_name varchar(50) NOT NULL,  
    dept\_id int(10) NOT NULL,  
    about varchar(100) NOT NULL,  
    seats int(10) NOT NULL,  
    time varchar(50) NOT NULL,  
    primary key(courseid)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
3. CREATE TABLE course\_term (  
    course\_id int(10) NOT NULL,  
    term\_id int(10) NOT NULL,  
    primary key(course\_id, term\_id)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
4. CREATE TABLE department (  
    deptid int(10) NOT NULL,  
    dept\_name varchar(50) NOT NULL,  
    primary key(deptid)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
5. CREATE TABLE enrollment (  
    course\_id int(10) NOT NULL,

```
term_id int(10) NOT NULL,  
available_seats int(10) NOT NULL,  
primary key(course_id, term_id)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

6. CREATE TABLE term (  
termid int(10) NOT NULL,  
termname varchar(50) NOT NULL,  
primary key(termid)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
7. CREATE TABLE users\_enrolled (  
user\_name varchar(50) NOT NULL,  
course\_id int(10) NOT NULL,  
term\_id int(10) NOT NULL,  
primary key(username, course\_id, term\_id)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
8. ALTER TABLE `course`  
ADD CONSTRAINT `course\_ibfk\_1` FOREIGN KEY (`dept\_id`) REFERENCES `department`  
(`deptid`);
9. ALTER TABLE `course\_term`  
ADD CONSTRAINT `course\_term\_ibfk\_1` FOREIGN KEY (`course\_id`) REFERENCES  
`course` (`courseid`),  
ADD CONSTRAINT `course\_term\_ibfk\_2` FOREIGN KEY (`term\_id`) REFERENCES `term`  
(`termid`);
10. ALTER TABLE `enrollment`  
ADD CONSTRAINT `enrollment\_ibfk\_1` FOREIGN KEY (`course\_id`) REFERENCES `course`  
(`courseid`),  
ADD CONSTRAINT `enrollment\_ibfk\_2` FOREIGN KEY (`term\_id`) REFERENCES `term`  
(`termid`),  
ADD CONSTRAINT `enrollment\_ibfk\_3` FOREIGN KEY (`term\_id`) REFERENCES `term`  
(`termid`);
11. ALTER TABLE `users\_enrolled`  
ADD CONSTRAINT `users\_enrolled\_ibfk\_1` FOREIGN KEY (`term\_id`) REFERENCES `term`  
(`termid`),  
ADD CONSTRAINT `users\_enrolled\_ibfk\_2` FOREIGN KEY (`course\_id`) REFERENCES  
`course` (`courseid`),  
ADD CONSTRAINT `users\_enrolled\_ibfk\_3` FOREIGN KEY (`user\_name`) REFERENCES  
`authentication` (`username`);



Database Schema Diagram

- Languages/frameworks used for implementation

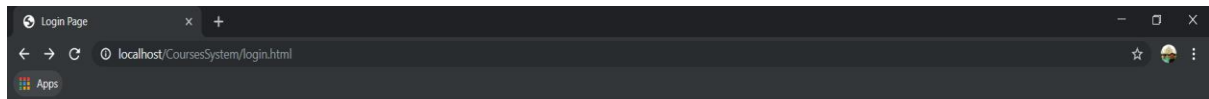
1. HTML 5
2. CSS
3. Java Script
4. jQuery
5. PHP
6. SQL
7. AJAX
8. Bootstrap

- Screenshots

The screenshot shows a web browser window with the address bar displaying 'localhost/CoursesSystem/index.html'. The page content is a registration form with the following fields and labels:

- ENTER YOUR NAME
- ENTER PREFERRED USERNAME
- ENTER YOUR EMAIL
- ENTER YOUR PASSWORD
- CONFIRM PASSWORD
- submit

User Registration Page



## Online Course Registration

[Login](#) [Register](#)

Login

Username

Password

login

New User? Register!

## Login Page

Course Registration System

[Home](#)  
[Add Course](#)  
[Add a Department](#)  
[Logout](#)

Show 10 entries

Search:

COURSE CODE	COURSE NAME	DEPARTMENT	SEATS	ABOUT	TIME	TERM	UPDATE	DELETE
1	reproduction in animals and humans	biology	50	about how animals make off-springs.	10:00 - 11:15	Spring	<a href="#">Update</a>	<a href="#">Delete</a>
1	reproduction in animals and humans	biology	50	about how animals make off-springs.	10:00 - 11:15	Summer	<a href="#">Update</a>	<a href="#">Delete</a>
2	photosynthesis	biology	35	food for plants	11:00 - 12:30	Fall	<a href="#">Update</a>	<a href="#">Delete</a>
3	rain forest	biology	40	about forests	11:00 - 12:30	Spring	<a href="#">Update</a>	<a href="#">Delete</a>
6301	project management	information systems	60	managing a project and maintain it	4:30 - 5:45	Fall	<a href="#">Update</a>	<a href="#">Delete</a>
6379	computer networks	computer science	60	network of computers and systems	4:00 - 5:15	Spring	<a href="#">Update</a>	<a href="#">Delete</a>

Showing 1 to 6 of 6 entries

[Previous](#)[Next](#)

## Admin Home Page

Course Registration System

Home

Add Course

Add a Department

Logout

## Add a course

Course Code:

Course Name:

Term: ☒ Fall  
☐ Spring  
☐ Summer

Department:

Timings :

Seats :

About:

Add Course

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Add new course page (Admin)

Course Registration System

Home

Add Course

Add a Department

Logout

## Update Course

Course Code:

Course Name:

Term:

Department:

Timings :

Maximum Seats :

About:

Update Course

Update course page (Admin)

Course Registration System

[Home](#)
[Enroll Course](#)
[Drop Course](#)
[View Enrolled Courses](#)
[Logout](#)

Show  entries

Search:

COURSE CODE	COURSE NAME	DEPARTMENT	SEATS	ABOUT	TIME	TERM
1	reproduction in animals and humans	biology	50	about how animals make off-springs.	10:00 - 11:15	Spring
1	reproduction in animals and humans	biology	50	about how animals make off-springs.	10:00 - 11:15	Summer
2	photosynthesis	biology	35	food for plants	11:00 - 12:30	Fall
3	rain forest	biology	40	about forests	11:00 - 12:30	Spring
6301	project management	information systems	60	managing a project and maintain it	4:30 - 5:45	Fall
6379	computer networks	computer science	60	network of computers and systems	4:00 - 5:15	Spring

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## User Home Page

Course Registration System

[Home](#)
[Enroll Course](#)
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[View Enrolled Courses](#)
[Logout](#)

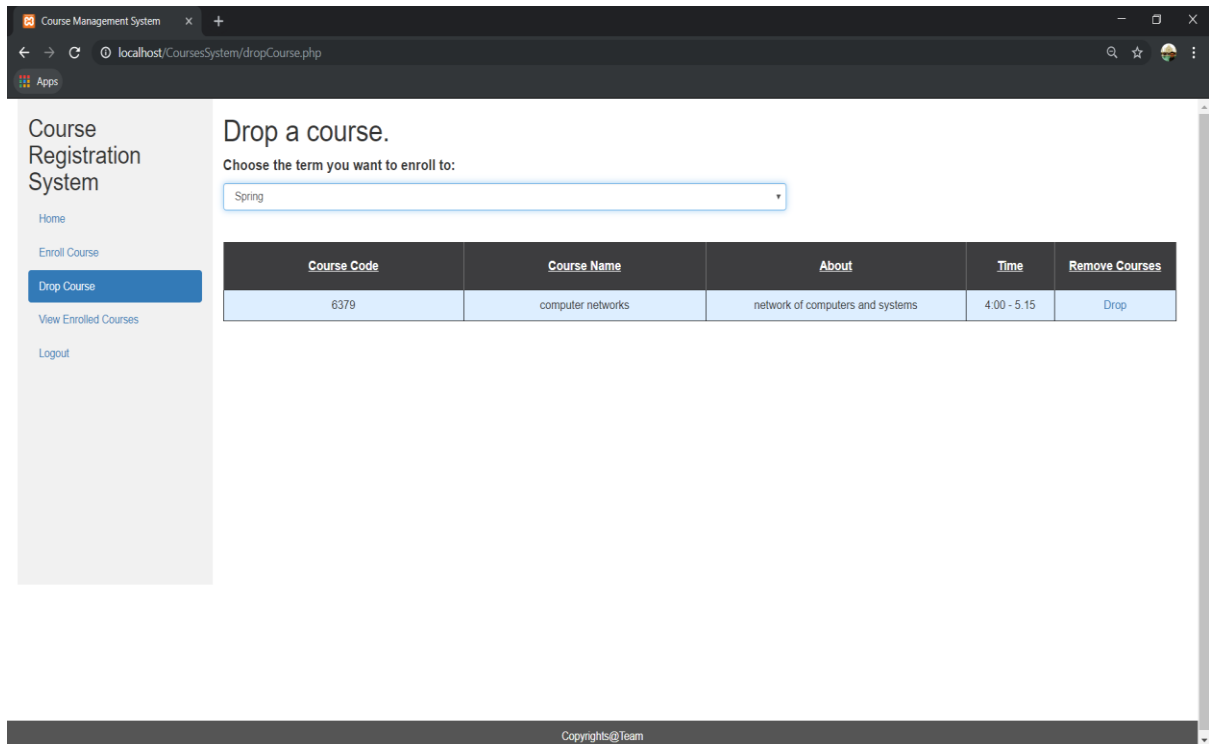
Choose the term you want to enroll to:

Course Code	Course Name	Department	Seats	About	Time	Enrollment
1	reproduction in animals and humans	biology	40	about how animals make off-springs.	10:00 - 11:15	<a href="#">Enroll</a>
3	rain forest	biology	40	about forests	11:00 - 12:30	<a href="#">Enroll</a>
6379	computer networks	computer science	60	network of computers and systems	4:00 - 5:15	<a href="#">Enroll</a>

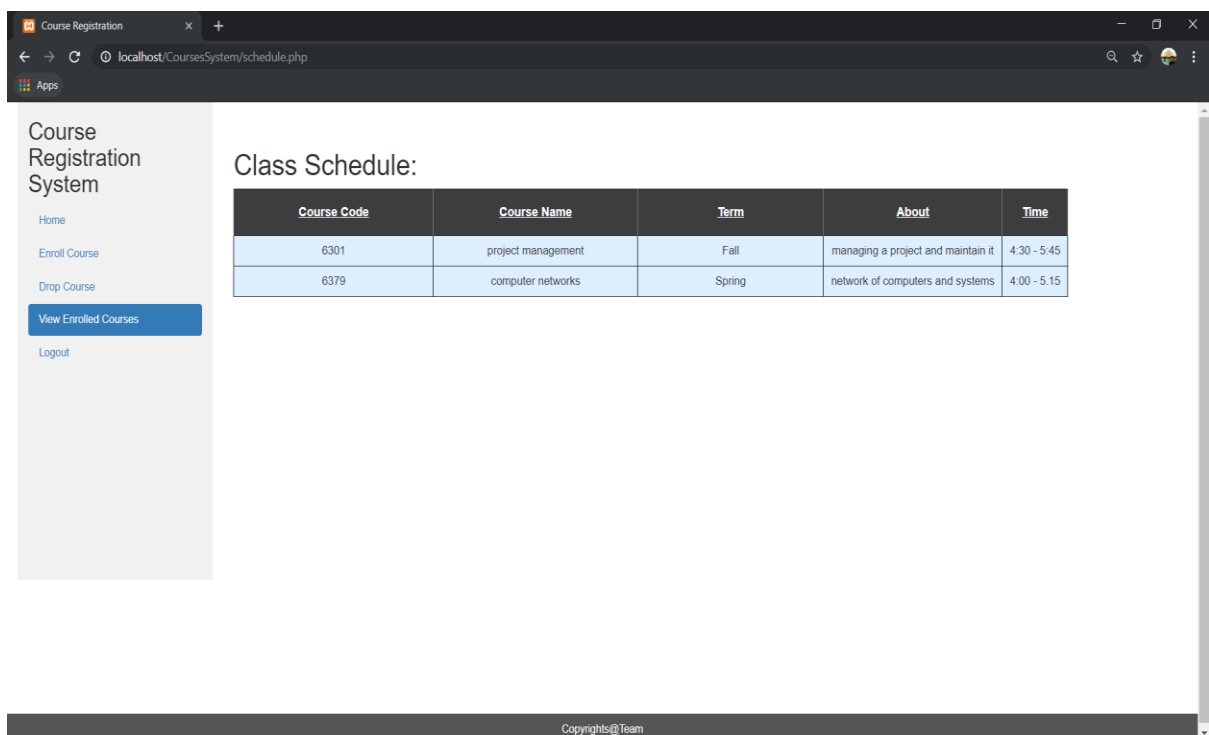
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## User course enrol page





User drop course page



User view enrolled courses page

- **Team Members**

Name	Net ID
Anuj Singh	axs176631
Sreeram Chittela	sxc180025
Yash Jain	yxj180004

- **Work division among team members**

The project was divided into three main development parts- Database design, Client-side scripting and Server-side scripting. The work was divided equally amongst all the team members and following is the division of work.

#### **Anuj Singh**

- Database Design
  - Identification of tables and attributes
- Features Worked on
  - User Registration (register.php, validateLogin.php)
  - Login for user and admin (login.html, login.php)
  - Logout for user and admin (logout.php)
  - JQuery datatables on admin and user home page (dtables.php)
  - CSS to maintain uniform layout throughout the web application (index.css, welcome.css)

#### **Sreeram Chittela**

- Database Design
  - Creation of Database and tables
- Features Worked on
  - Admin Home Page (admin.php)
  - Admin add department page (add\_department\_admin.php)
  - Admin add course page (addCourse\_admin.php)
  - Admin update course page (updateCourse\_admin.php)
  - Admin delete course feature (deleteCourses\_admin.php)

#### **Yash Jain**

- Database Design
  - Schema Design
  - Maintaining tables in 3NF form
- Features Worked on
  - User Home Page (welcome.php)
  - User enrol course page (enrol\_user\_to\_course.php)
  - User drop course page (dropCourse.php)
  - User view enrolled course page (schedule.php)
  - Retrieve courses by term selection (course\_per\_term.php, term\_retrieval.php)