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1.TITLE AND TECHNOLOGY

1.1 COMPANY PROFILE

SnyamTech Pvt.Ltd. is a training provider, and its learning experience arranges coursework into a series of modules and lessons that can include videos, text notes and assessment tests.

The company was launched by Shivnarayan Jadhav in 2019. It’s headquartered in Aurangabad.

We develop this web application to provide online training solution for SnyamTech Software & Training Center.

1.2 ABSTRACT

‘Student study portal’ is online learning portal for student. It is developed for student in schools, colleges and institutes to access online course material. This project aims at creating a Courses portal for a campus/organization, This allows registered users of the system to join a course available in the site and access the materials published for the course.

People can register themselves as students of a course or Faculty for a course. It facilitates to access the information of a particular course. The information is provided by the teacher for a particular course.

The purpose of developing this portal is to computerized the tradition way of taking class. Recent advances in the Web have rapidly changed our life in various ways. These advances provide new ways for people to communicate on a global scale and assess vast amounts of information. The Web provides educators with opportunities to implement a range of new teaching and learning practices, which redefine classroom learning experiences.

1.3 EXISTING SYSTEM AND NEED FOR SYSTEM

The existing system been outdated will not have information updated regularly. As teachers' influence decreases, students may become disengaged. Thus, students are unable to concentrate their thoughts upon their work. It is reported that about 30%-50% of students who have started a distance education course dropped out before the end of the course.

Also in some existing system like online course management there is no facility of conducting the online quizzes and assignment too .so student cant practice related to course.
Students may not have a flexible timescale and time is wasted when one has to commute to places to gain or seek knowledge.
This existing system is not providing secure registration and profile management of all the users properly.
This manual system gives us very less security for saving data and some data may be lost due to mismanagement.

1.4 SCOPE OF SYSTEM

The proposed system is the Student study Portal System. The system will be used to upload tutorial lectures, in time assignment submission, maintained tutorial notes, new announcements, conducting online quizzes ,student registration, teachers registration, course registration, paid course/free course, certificates of courses ,managing results.

Moreover the software will manage all the record of teachers, courses, exam section, students, quiz and assignment section or combine called as practice section for student. And will be able to search all the available records. Student study portal has unique username and password to each and every user so that nobody can misuse it. This system right protects every category of user clearly described so that limits for every user access are defined.

1.5 OPERATING ENIVIROMENT: HARDWARE & SOFTWARE

Hardware Requirements

- Processor: Intel Celeron
- Memory: 2GB RAM
- Storage: Around 200MB of free space for project files.

Software Requirements

- Operating system: Any modern version of MacOS, Windows, or Linux
- Browser: Any modern browser such as Chrome, Firefox, Safari, Opera, etc.
- A code editor or IDE such as Atom, pycharm,Visual Studio Code or WebStorm.
- Python version >= 3.0.0, Django version >= 2.1.0, pip which is a package installer for python.
- Front End : HTML, CSS, JavaScript
- Middle Tier :Python, Django
- Backend : Sqlite3 (By default, the Django configuration uses SQLite)
- Webserver : Django's built-in server

2.PROPOSED SYSTEM

2.1 STUDY OF SIMILAR SYSTEMS

The growth in the field of Information Technology (IT) has been very fast in last few decades and the various applications depending on IT are also changing very drastically. One of the very popular IT applications is online teaching and learning which is here Student Study Portal. The main focus of this article is to survey the various online e-learning architectures and then make a comparison among them. Based on the analytical, comparative studies of these various architectures, we are able to provide certain suggestions about the limitations that were observed. Further on, we emphasize some of the research challenges and design issues that have been followed in order to make fruitful improvement in the intelligent online e-learning architecture system to provide the cultural aspects of online classrooms.

2.2 FEASIBILITY STUDY

Technical and system feasibility:

Technical feasibility centers on the existing manual system and to what extent it support the system, According to feasibility analysis procedure the technical feasibility of the system is analyzed and the technical requirements such is software facilities, procedure inputs, are identified. It is also one of the important phases of the system development activities.

Behavioral Feasibility:

People are inherently resistant to change and computer has been known to facilitate Changes. An estimate should be made of how strong the user is likely to move towards the development of computerized system, These are various levels of user to ensure proper authentication and authorization and security of sensitive data of the organization, The system working is quite easy to use and learn due to its simple but attractive interface. User requires no special training for operating the system.

Economically Feasibility:

Economic analysis is most frequently used for evaluation of the effectiveness of the system. More commonly known as cost/benefit analysis the procedure is to determine the benefit and saving that are expected from a system and compare them with cost, decision is made to design and implement the system.

2.3 OBJECTIVES OF PROPOSED SYSTEMS

The main objective of the Student study portal is for student in schools, colleges and institutes to access online course material with an interactive python based Django application to provide courses for different technical topics (computer science) to the registered users. The project aims at creating a student study portal for a campus/organization. This allows registered users of the system to join a course available in the site and access the materials published for the course.
People can register themselves as students of a course or Faculty(Teachers) for the course.
The proper validations are maintained for the registration of users . for ex. Students have to provide valid data such as name, email, DOB, address, gender, contact no, institute name etc. and then they can create username and password It facilitates to access the information of a particular course. The information is provided by the teacher for a particular course. The purpose of developing software is to computerized the tradition way of taking class.

2.4 USERS OF SYSTEM

Admin:

Here admin can register new faculty, student, instructor and store their details in database.
Here admin can access any user related information. User can be a faculty, student or an instructor.
admin can manage new announcement new course which publish by any teacher.

Teacher/Instructor:

When teachers registered themselves to the portal ,they can create the course and add the details of the course. such as course name duration etc.
In this module instructor can upload course material, can announce notices, can set online exam question paper, can schedule new exam, can view marks scored by students, can also view queries sent by the student and reply them.

student:

When the users logs in and enrolls in to an already existing course then the users becomes a student to that course. After enrolling in a course user will be able to access all the course related announcements, assignments, notes & lectures etc.

3.ANALYSIS AND DESIGN -I

3.1 SYSTEMS REQUIREMENTS

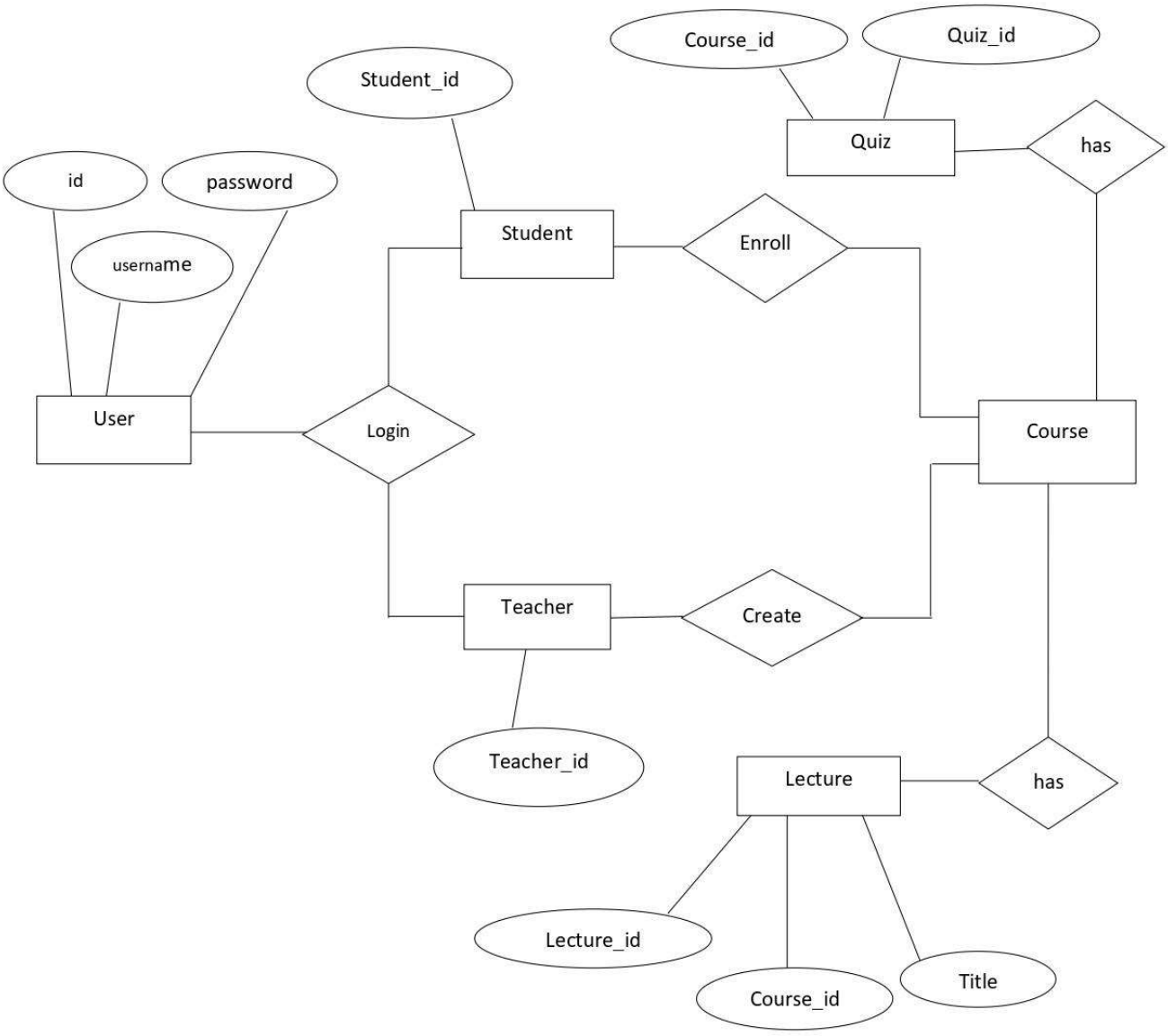
Functional Requirments:

- User and course management
- First, you need to decide how to work with users and groups in the Student Study Portal. To do this, answer a few questions:
- How will you register employees — will users register themselves, or will an administrator register students?
- Who will be involved in managing the Student Study Portal? Do you need a system that allows you to assign different user roles such as administrators, publishers, SMEs (Subject Matter Experts) and users?
- Are you planning to create individual training programs for different employees or organizations?
- How will you add new users — by email or by importing them from an Excel file, or both?

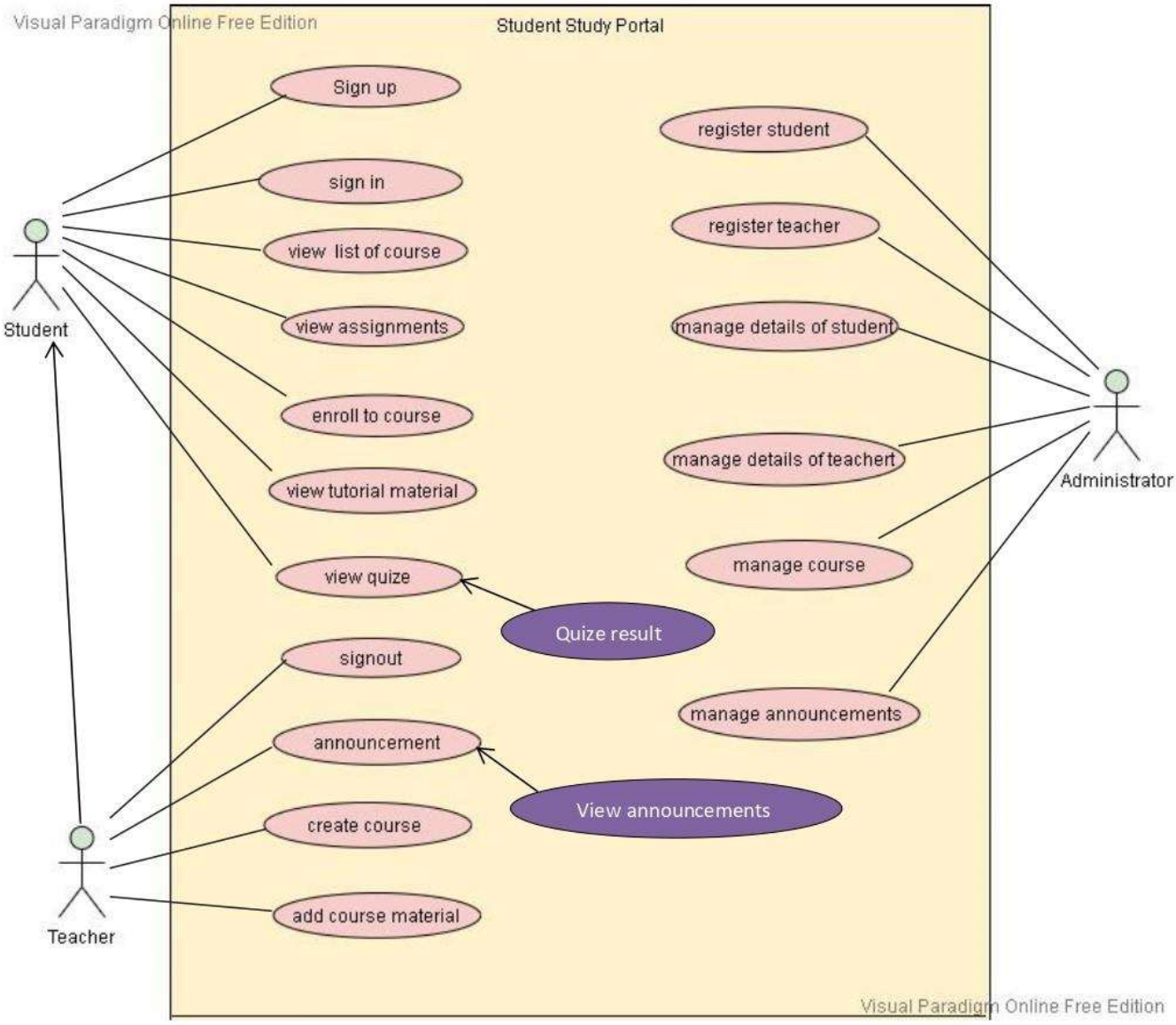
Non-Functional Requirements :

- Nonfunctional Requirements (NFRs) define system attributes such as security, reliability, performance, maintainability, scalability, and usability.
- They serve as constraints or restrictions on the design of the system across the different backlogs.

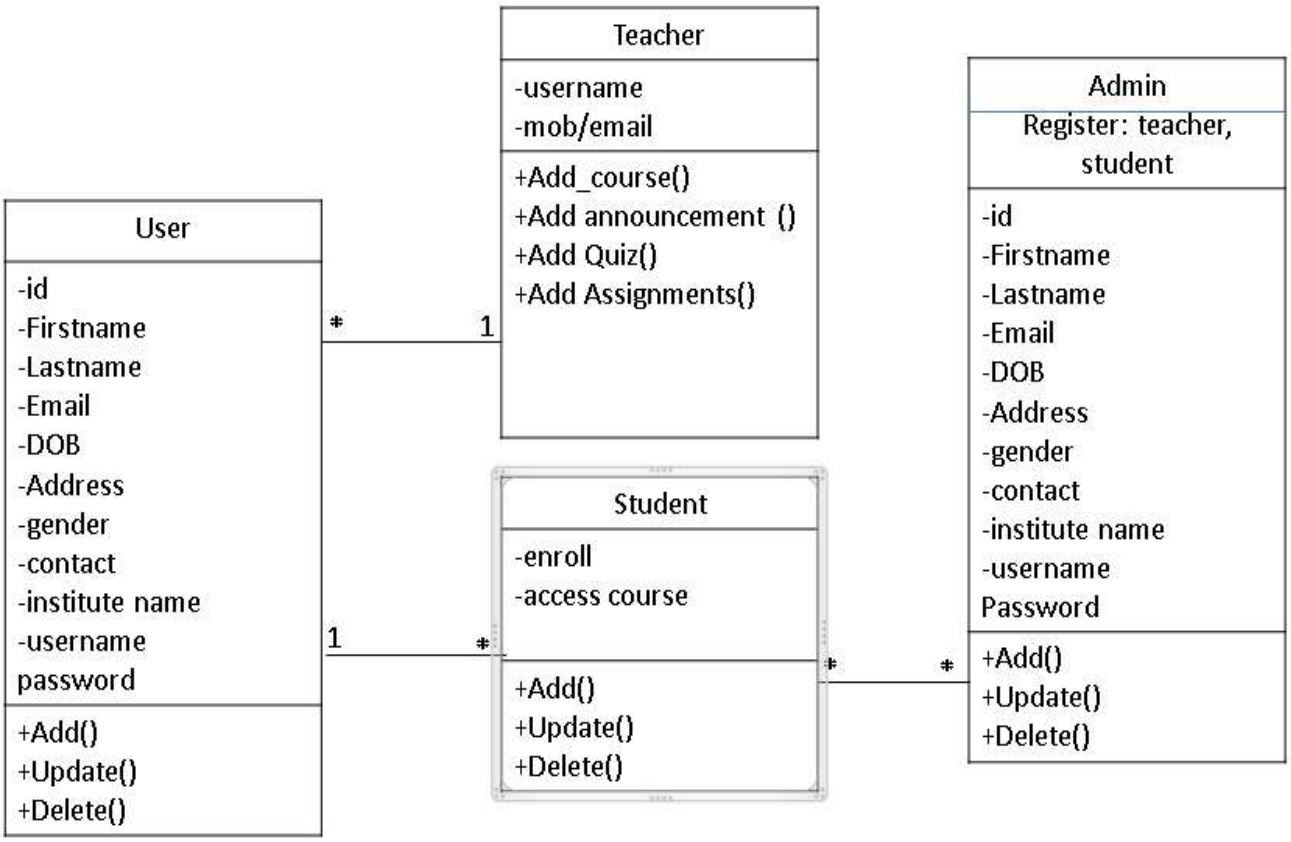
3.2 ENTITY RELATIONSHIP DIAGRAM



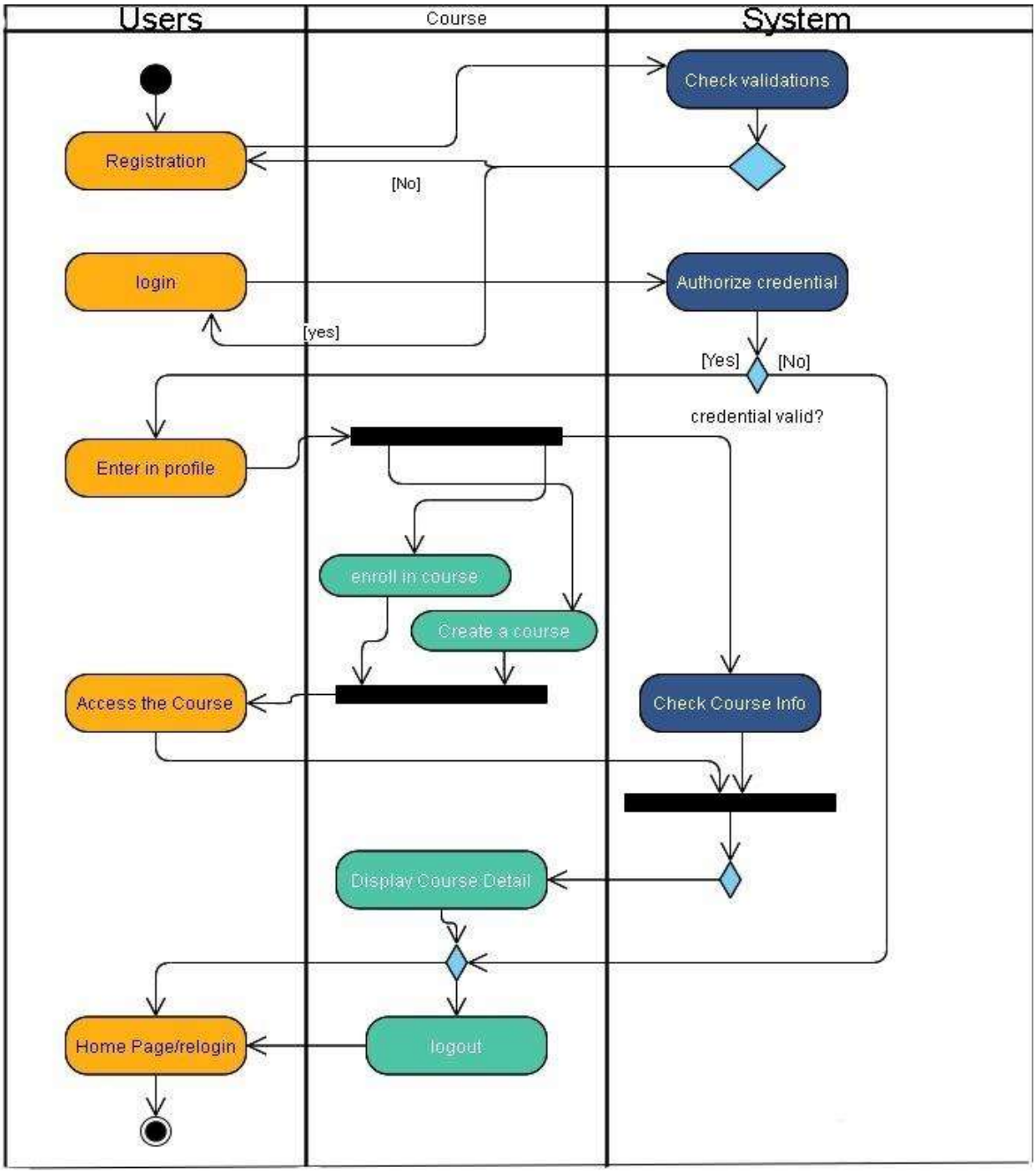
3.3 USE CASE DIAGRAM



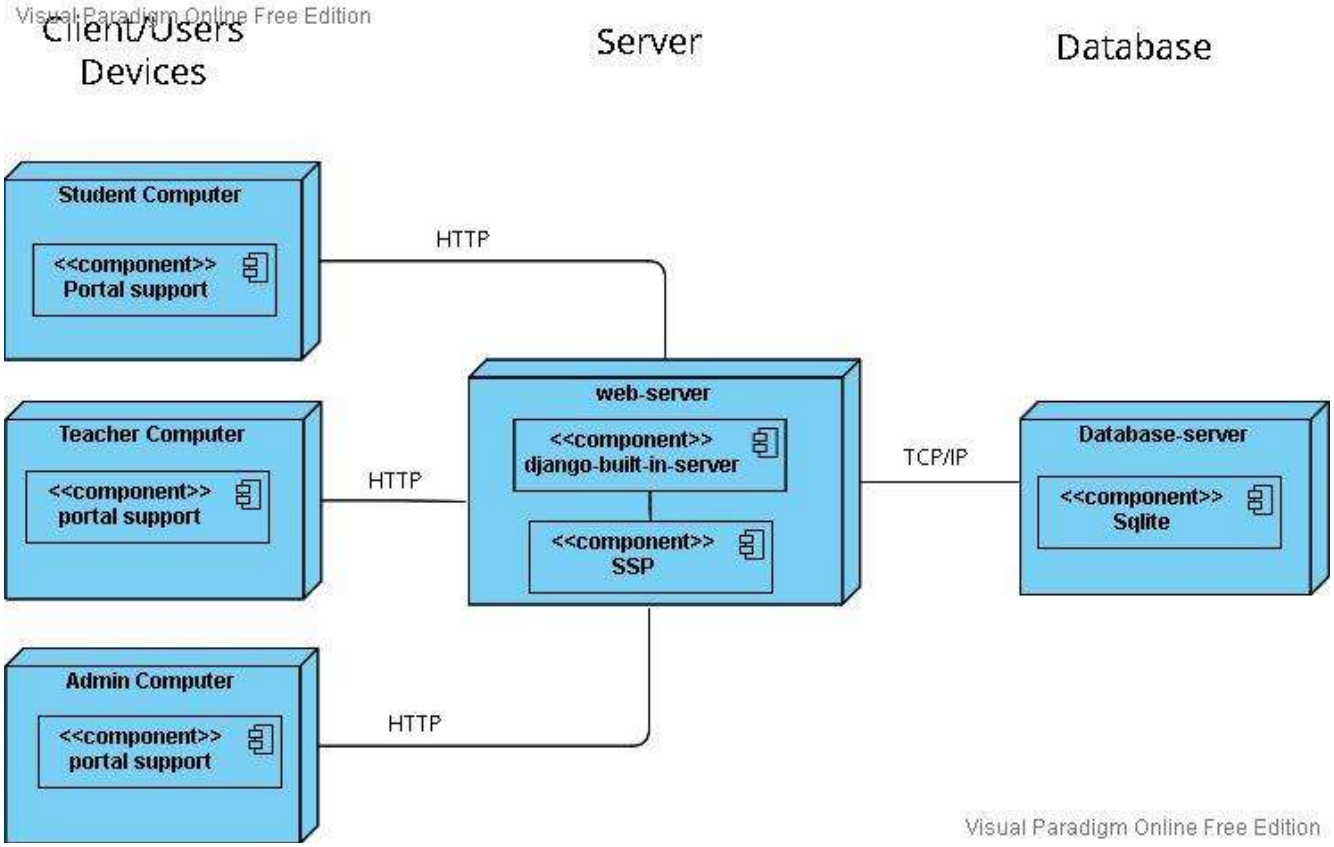
3.4 CLASS DIAGRAM



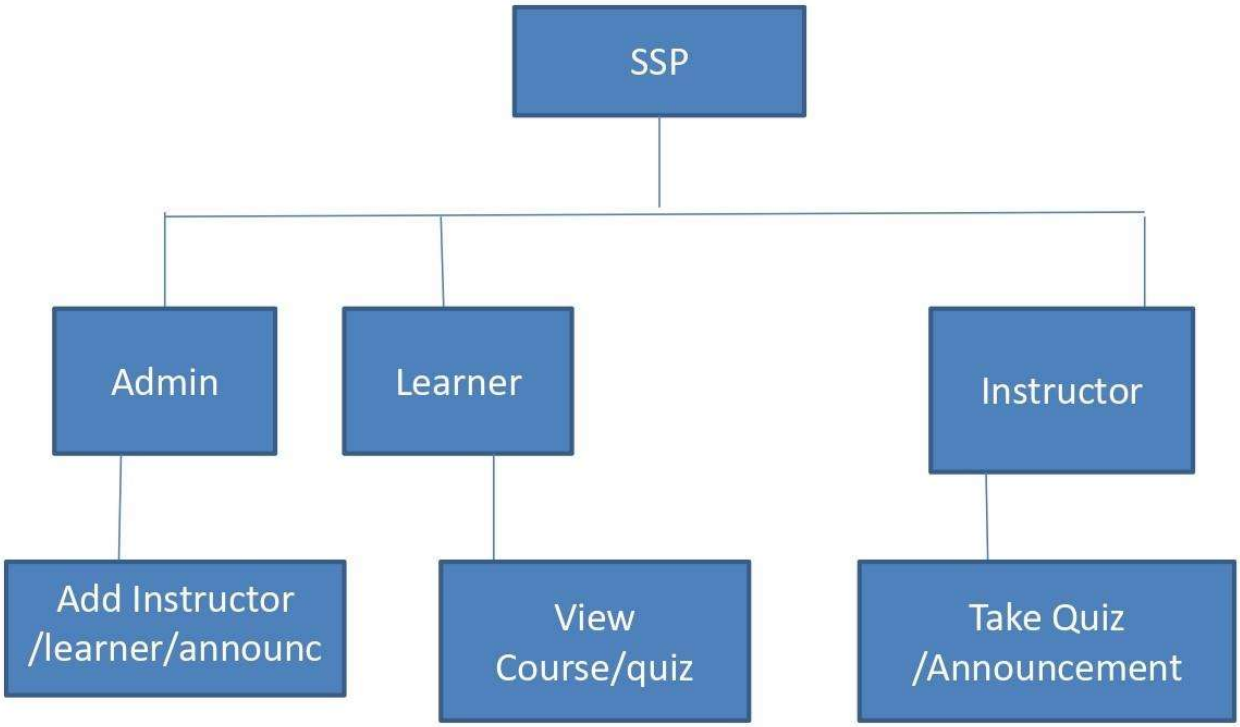
3.5 ACTIVITY DIAGRAM



3.6 DEPLOYMENT DIAGRAM



3.7 Module Hierarchy DIAGRAM



3.8 TABLE STRUCTURE

1. Quiz

! cid	name	type	notnull	dflt_value	pk
0	id	integer	1	NULL	1
1	name	varchar(255)	1	NULL	0
2	course_id	bigint	1	NULL	0
3	owner_id	bigint	1	NULL	0

2. User_Profile

! cid	name	type	notnull	dflt_value	pk
0	id	integer	1	NULL	1
1	avatar	varchar(100)	1	NULL	0
2	first_name	varchar(255)	1	NULL	0
3	last_name	varchar(255)	1	NULL	0
4	email	varchar(254)	1	NULL	0
5	birth_date	date	1	NULL	0
6	bio	text	1	NULL	0
7	city	varchar(255)	1	NULL	0
8	state	varchar(255)	1	NULL	0
9	country	varchar(255)	1	NULL	0
10	favorite_animal	varchar(255)	1	NULL	0

3.Tutorial

!	cid	name	type	notnull	dflt_value	pk
0		id	integer	1	NULL	1
1		title	varchar(50)	1	NULL	0
2		content	text	1	NULL	0
3		thumb	varchar(100)	0	NULL	0
4		created_at	datetime	1	NULL	0
5		course_id	bigint	1	NULL	0
6		video	varchar(200)	0	NULL	0
7		user_id	bigint	1	NULL	0

4.User_Group

!	cid	name	type	notnull	dflt_value	pk
0		id	integer	1	NULL	1
1		user_id	bigint	1	NULL	0
2		group_id	integer	1	NULL	0

5. Notes

! cid	name	type	notnull	dflt_value	pk
0	id	integer	1	NULL	1
1	title	varchar(500)	1	NULL	0
2	file	varchar(100)	0	NULL	0
3	cover	varchar(100)	0	NULL	0
4	course_id	bigint	1	NULL	0
5	user_id	bigint	1	NULL	0

6. Answer

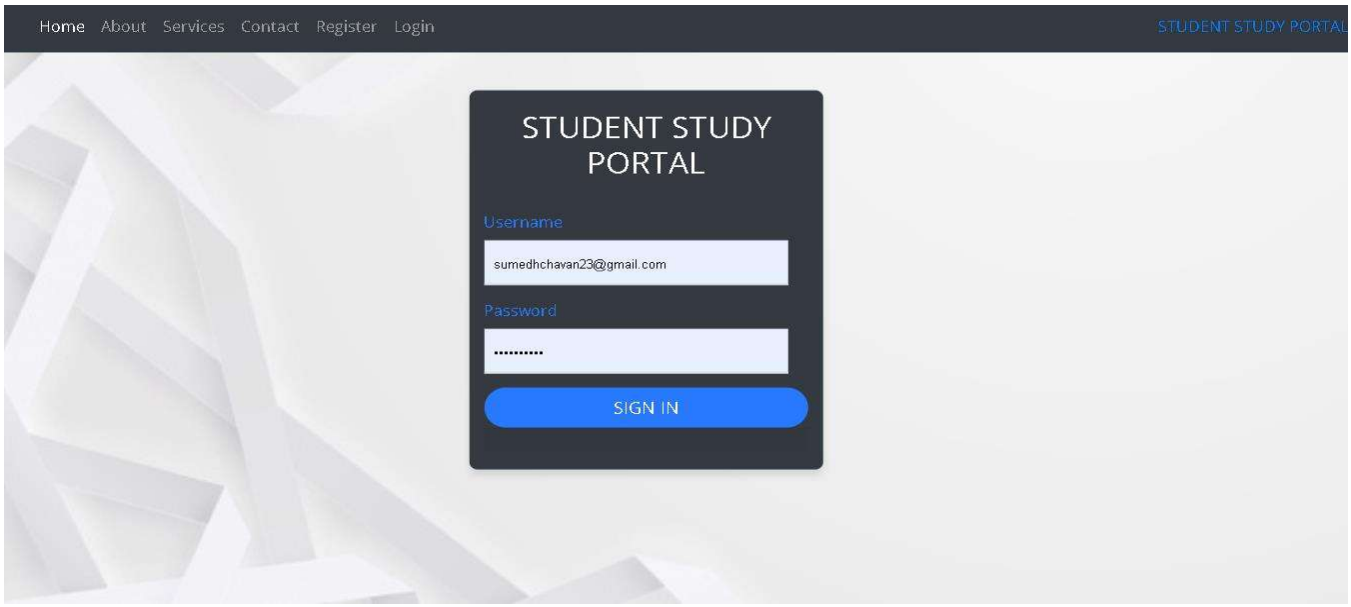
! cid	name	type	notnull	dflt_value	pk
0	id	integer	1	NULL	1
1	text	varchar(255)	1	NULL	0
2	is_correct	bool	1	NULL	0
3	question_id	bigint	1	NULL	0

7. Course

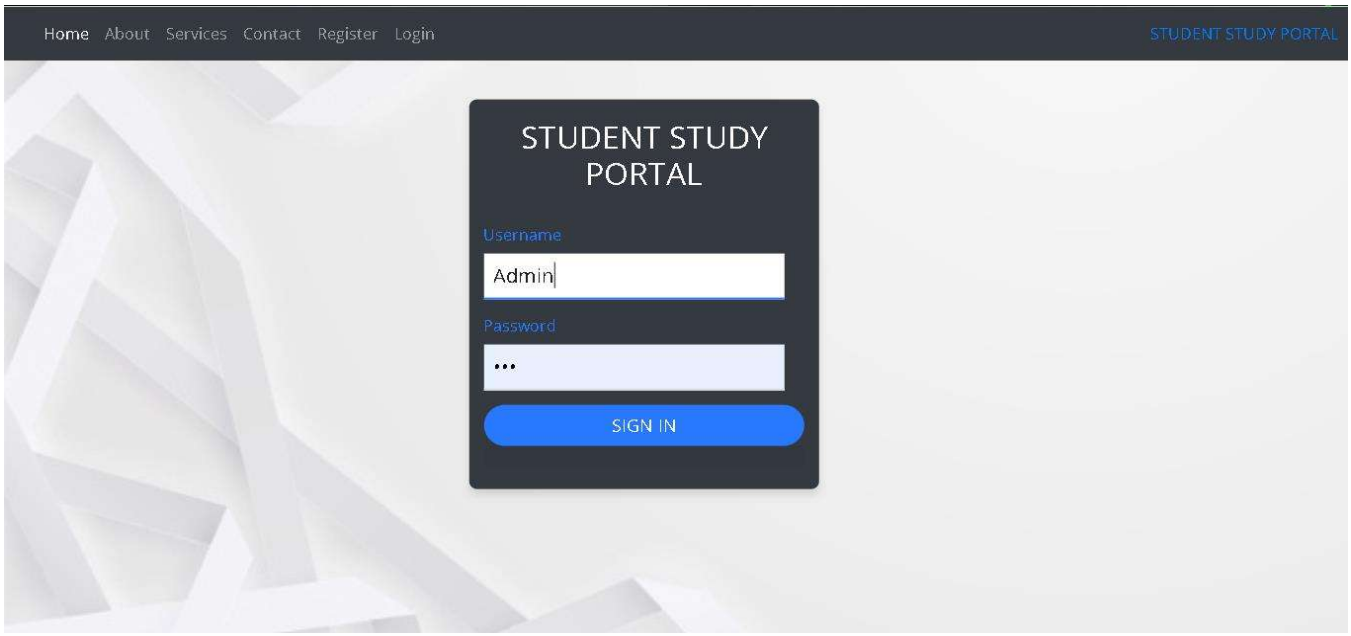
! cid	name	type	notnull	dflt_value	pk
0	id	integer	1	NULL	1
1	name	varchar(30)	1	NULL	0
2	color	varchar(7)	1	NULL	0

3.9 SAMPLE INPUT-OUTPUT SCREEN

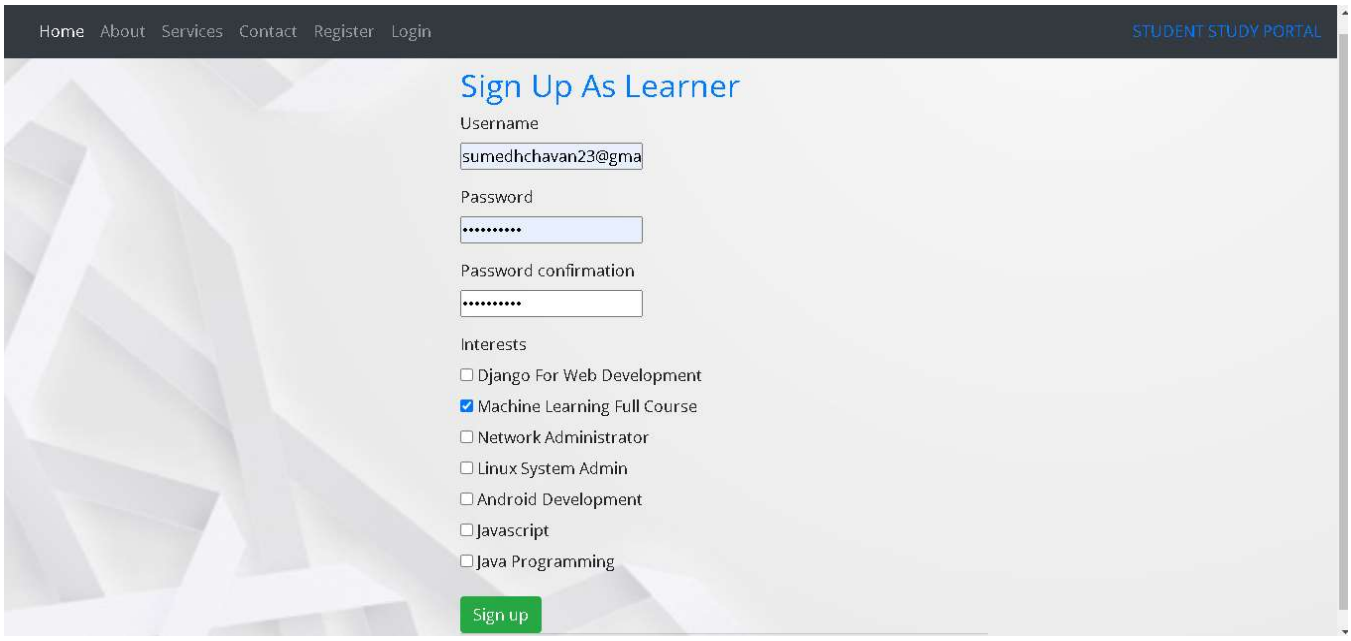
1. Learner Login



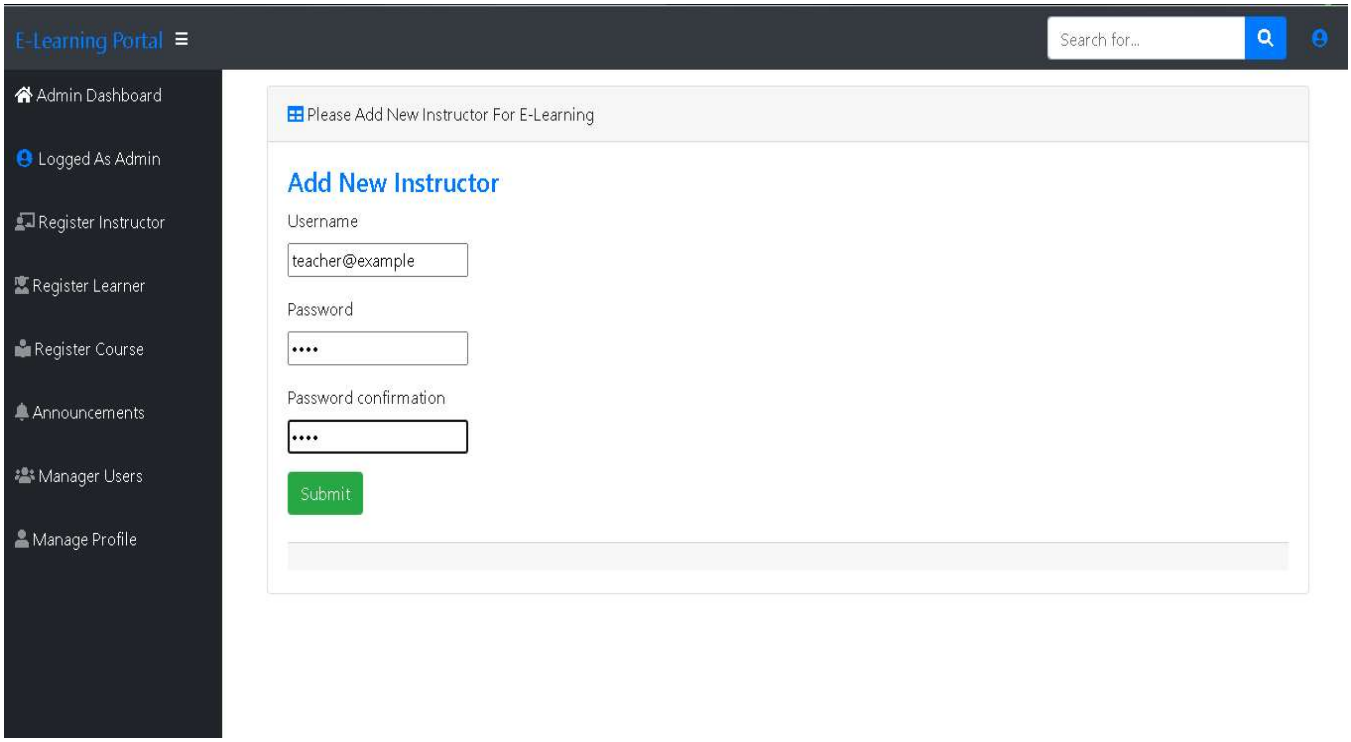
2. Admin Login



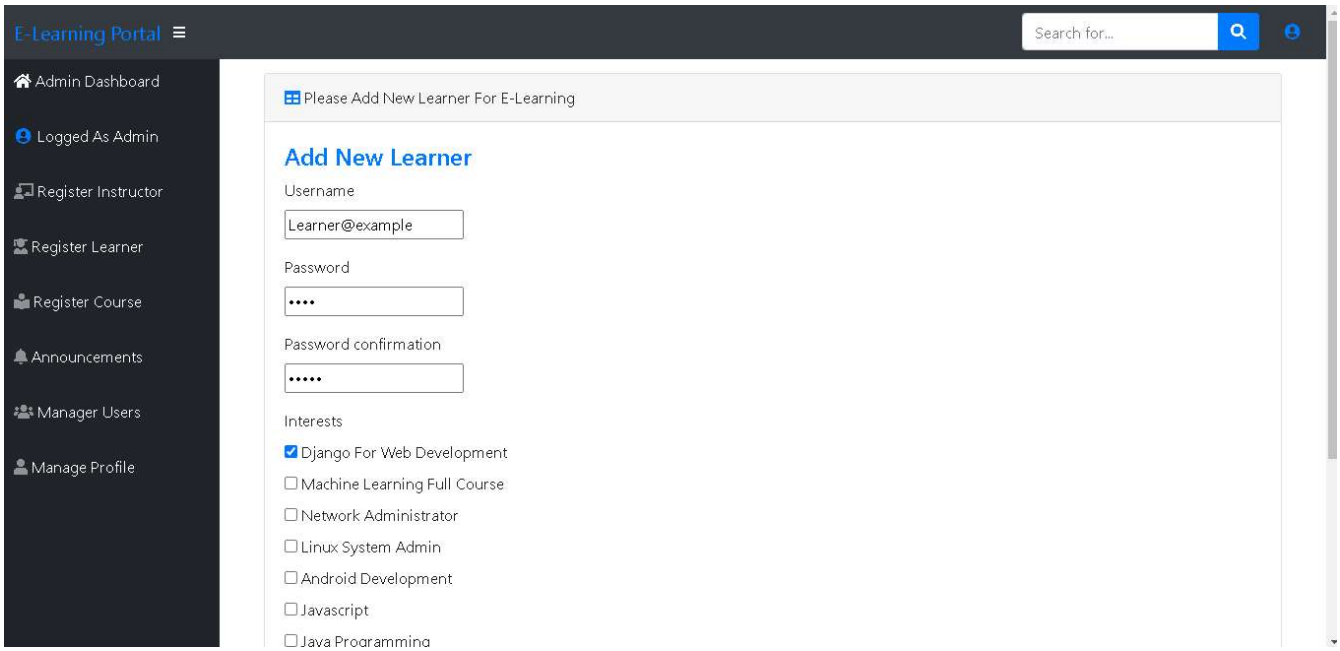
3.Learner Registration



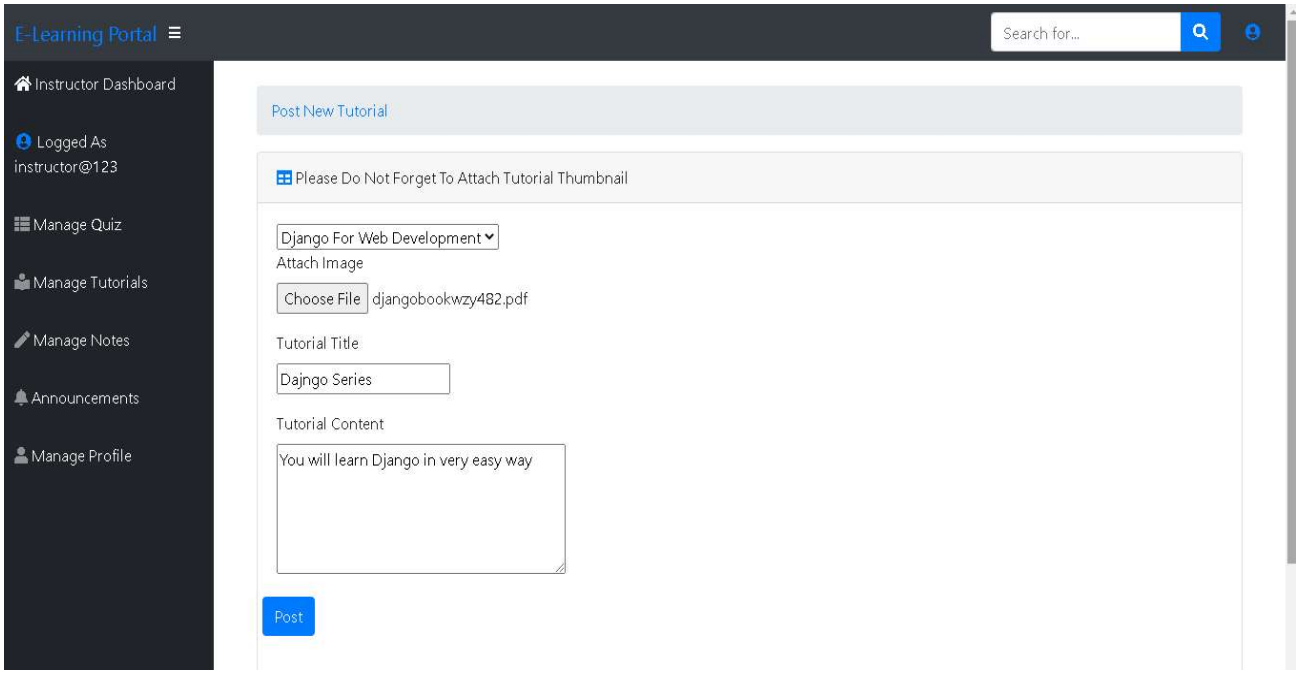
4. Add New Instructor



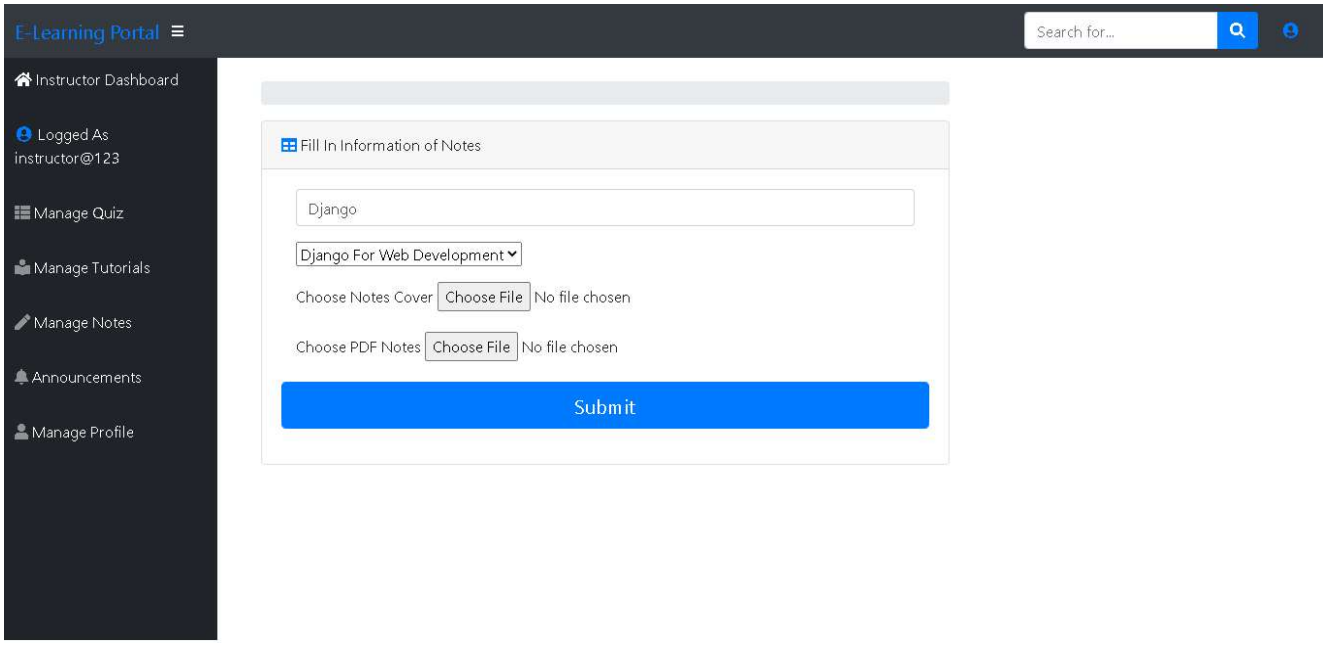
5. Add New Learner



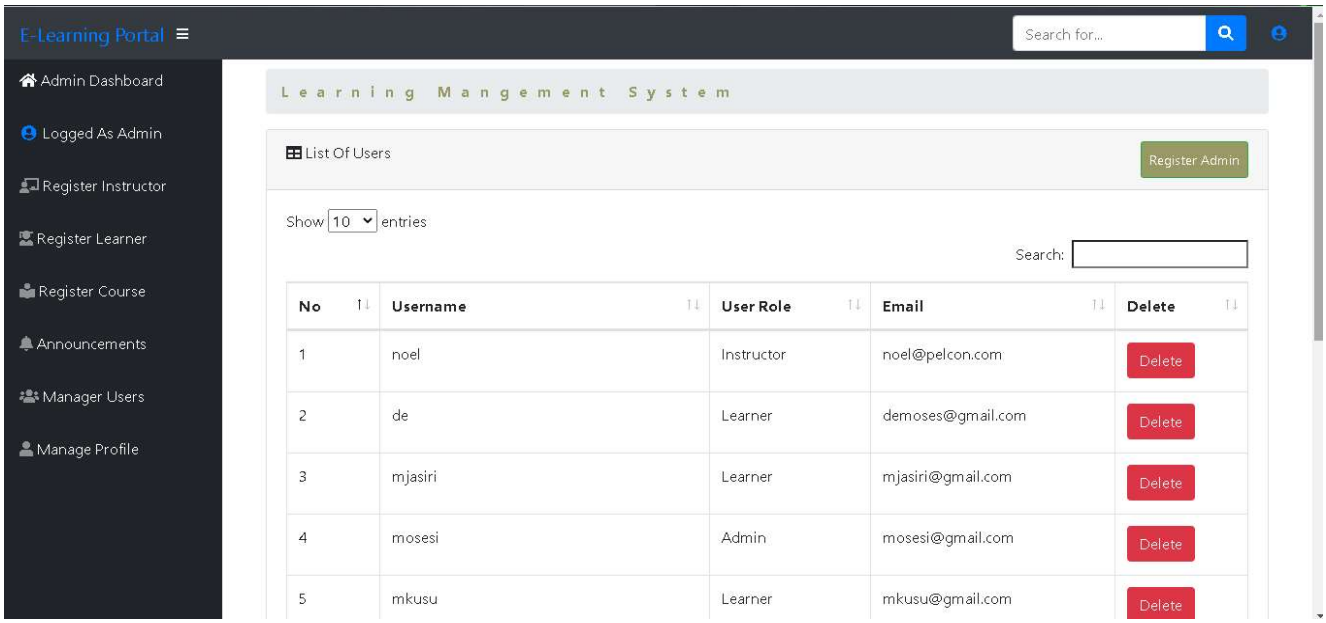
6. Post New Tutorial



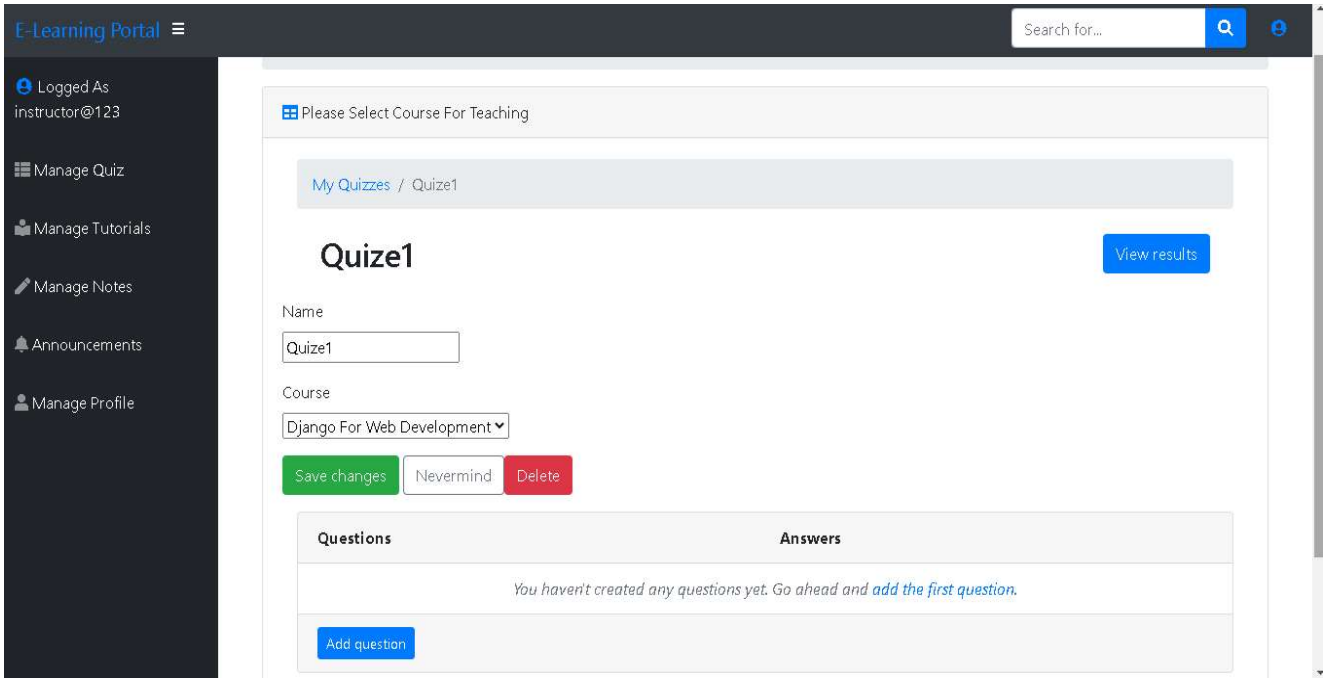
7. Manage Notes



8. Manage Profile



9. Manage Quiz



10. Post New Announcement