**A**
**Project Report**
**On**

# Course Academy
**B.Tech-IT,Sem VI**

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**COLLEGE ROAD, NADIAD- 387001**

**April,2021**

**A**
**Project Report**
**On**
**Course Academy**
In partial fulfillment of requirements for

**Syatem Design Practice**
**BTech-IT,Sem VI**


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**COLLEGE ROAD, NADIAD- 387001**

**April,2021**

# CANDIDATE'S DECLARATION

I/We declare that pre-final semester report entitled "**Course Academy**" is my /our own work conducted under the supervision of the guide **Prof. Deepak C. Vegda.**

I/We further declare that to the best of my/our knowledge the report for B.Tech. VI semester does not contain part of the work which has been submitted either in this or any other university without proper citation.

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# CERTIFICATE

This is to certify that the project carried out in the subject of Software Design Project, entitled "**Course Academy**" and recorded in this report is a bonafede report of work of

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# ACKNOWLEDGMENT

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It gives us an immense pleasure submitting this report towards the partial fulfillment of our academics. Success in any mission cannot be achieved single handedly. It is the team effort that sails the ship to shore.

We would like to express our sincere thanks to our Head of Department and our project guide **Prof. Deepak C. Vegda**, who gave us an opportunity to undertake such a great challenging and innovative work, without whose help and encouragement, it would be infeasible for us to carry out the desired work. We are grateful to them for their guidance, encouragement, understanding and insightful support in the development process.

With sincere regards,
**Paras Savaliya**
**Sarang Tandel**

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# ABSTRACT


- **Course Academy** fulfils the thirst of knowledge and offers online content that can be delivered for the learner at anywhere, anytime and any age through a wide range of **e**-**learning** solution while compared with traditional **learning** system. It also provides the rapid access to specific knowledge and information.

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# 1 INTRODUCTION

## 1.1 Project Details: Broad specifications of the work entrusted to you.

Now a days E-Learning site are very useful for everyone. A **Course Academy** is an integrated set of interactive online services that provide trainers, learners, and others involved in education with information, tools and resources to support and enhance education delivery and management. A learning system based on formalised teaching but with the help of electronic resources is known as E-learning. This System Provide You Different Courses. You can apply for the course in which you are interested. In this system there are three entity admin, teacher, student. Admin can manage courses, users, update their profile. Teacher can upload the courses and documentation. And student can buy the courses, give the exam, and get certificate.

## 1.2 Purpose

Enhance the quality of learning and teaching. Meet the learning style or needs of students. Improve the efficiency and effectiveness. Improve user-accessibility and time flexibility to engage learners in the learning process.

Course Academy is any type of learning that takes place through or with a computer and is primarily facilitated thround the Internet but can also be accomplished with CD-ROMs and DVDs, streaming audio or video and other media. The purpose of Course Academy is to allow people to learn for personal accomplishment or to earn a professional degree, without physically attending a traditional university or academic setting. Applied for all levels of schooling from grade school to graduate degrees, Course Academy is versatile enough to accommodate all learning styles.

## 1.3 Scope

During Current corona perios,authorities recommend not leaving our house unless it is strictly necessary, and people cannot visit public spaces. This has led to many schools being closed all over the world and, as an effective way to protect the education of student and young people, e learning is gaining popularity.

## 1.4 Objective (Scope – what it can do and can’t do)

- The main objective of this project is student can learn course online by enrolling any course
    - User friendly system
    - Student can learn course online
    - Network connectivity is required

## 1.5 Technology and Literature Review

- Following technologies will be used for development/management/tracking activities….

- NodeJS For Server-Side Programming

    1) NodeJS for Server-side programming

    2) HTML,CSS,Bootstrap, Javascript, Jquery For Client-Side Programming, Designing

    3) Mongo dB Database System for Data Storage and Management

# 2 PROJECT MANAGEMENT

## 2.1 Feasibility Study

- The project, we are going to build for SDP, is a web application for the Online learning System, which can be used by many Students.
- Idea of the project is to learn student online rather than goes in college or school. In current corona situation there is benefit of this type of teaching.

### 2.1.1 Technical Feasibility

- For this problem, we are going to divide the work in between us, 2 persons.
- One for the frontend and One for the backend.
- In frontend side, we are going to use the basic HTML, CSS and JavaScript for the basic website structure. And for more attractiveness and look of the website, we are going to use Bootstrap and jQuery Frameworks.
- For Backend side, the web framework we are going to use which will handle the Database connectivity, User authentication, Session Management, Payment Gateway and some other tasks, is Nodejs framework.
- Due to lack of knowledge about Nodejs Framework, there will be some time taken for learning this. Expected time should be 3-4 weeks. We are also going to prepare database design alongside learning.
- For Frontend, how the JS Framework will work with the website structure is to be learned. And some advanced technique in CSS and JavaScript is also required. So, for that also, Expected learning duration should 3-4 weeks.
- Backend Database we are going to use for the initial phase Mongo dB
  .

### 2.1.2 Time Schedule Feasibility

- For completion of the project on time, we are going to distribute the work of webapp.
- In the Initial Phases, various types of diagrams are going to be made. And after that, when the implementation phase arrives, the work of frontend and backend is going to be held parallelly to maintain Deadline.
- While learning these various technologies, we can start building the initial version of our web-app with that only, that can reduce the pressure from the implementation phase of the SDLC model.

### 2.1.3 Operational Feasibility

- The system will be used if it is developed well then be resistant from users that undermine the possible application benefits.
- Client Support:
  - Client and user support for the present system is there, as the current procedure used takes more time and effort than the proposed system.
  - It will help in the time saving and fast processing and dispersal of user request and application.

- New products will provide all the benefits of present system with better performance such as improved information, better management and collection of the reports.

- User Support:
  - User involvement in the building of the present system is sought to keep in mind the user specific requirement and needs.
  - Users will have control over their own information.

### 2.1.4 Implementation feasibility

- We will be working full WEB application for first time. So we need to learn the basic of Nodejs as well as the use of JavaScript libraries to create graphics and animation needs to be learned. And also we aware of Mongo dB.
- Since, we are well aware with basics of JS, HTML, CSS and as Bootstraps easy to understand our learning will take around 2 or 3 weeks and be completed before starting implementation.

## 2.2 Project Planning

### 2.2.1 Project Development Approach & Justification

For project development the Iterative waterfall model is used. It is a particular implementation of a software development life cycle that focuses on an initial, simplified implementation, which then progressively gains more complexity and a broader feature set until the final system is complete. In short, iterative development is a way of breaking down the software development of a large application into smaller pieces.
This model divides the cycle into the phases mentioned below:

1) Feasibility Study
2) Requirement analysis and specification
3) Design
4) Coding and unit testing
5) Integration and system testing
6) Maintenance

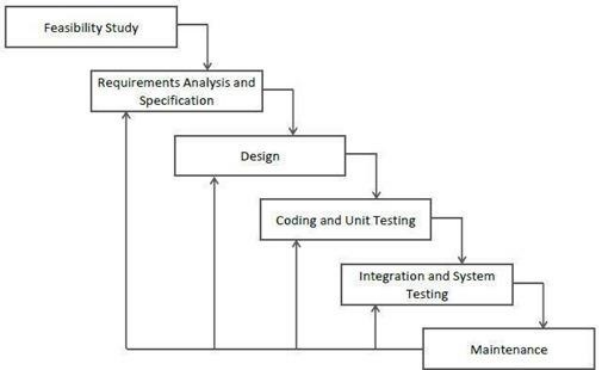



Fig 2.2.1 Project Development Approach

1. **Feasibility Study**: Doing research about the technology and other factors that affect the project development.
2. **Requirement Analysis:** Gathering the resources required for the developing the project and the estimate of the process of moving forward with the application development.
3. **Design:** Make the database architecture and design the UI of the application.
4. **Coding and Unit Testing:** Write the code for different functionalities and test them individually and solve the bugs if present.
5. **Testing:** Integrating the whole application and doing various tests on it to catch any errors and bugs.
6. **Maintain:** After release the application for use to other users give required maintenance.

### 2.2.2 Project plan

- In managing any project the whole plan of the project is made before its actual implementation. The plan of the project helps team to work as per the schedule and helps to successfully complete the project. To plan a project the main requirements that are calculated are cost, duration, effort, scheduling, manpower, resource allocation, risk management etc. The plan of our project is as follows:

1. Gather the definition.
2. Check whether the definition is feasible or not in given deadline.
3. Requirement gathering.
4. Analysis on gathered requirements.
5. Designing.
6. Coding and Unit Testing.
7. Integration and System Testing.
8. Deployment

### 2.2.3 Roles and Responsibilities

| Name | Analysis | Design | Coding | Testing | Documentation | Maintenance |
|---|---|---|---|---|---|---|
| Paras Savaliya | ✔ | ✔ | ✔ | ✔ | ✔ | |
| Sarang Tandel | ✔ | ✔ | ✔ | ✔ | | ✔ |

## 2.3 Project Scheduling

Scheduling the project tasks is an important project planning activity. It involves deciding which task should be taken up and when. In order to schedule the project activities; a software project manager needs to do the following:

- Identify all the tasks needed to complete the project.
- Break down large tasks into smaller activities.
- Determine dependencies among different activities
- Establish most likely estimates for the time duration necessary to complete the activities.

# 3.0 SYSTEM REQUIREMENT STUDY

## 3.1 Study of Current System

- The current applications contain some of these features. They are exploratory in nature. They are provided to the users as per the interests. Students have used such applications and benefitted by it.

## 3.2 Problems and Weaknesses of Current System

- The Websites available are not up to the mark. They may contain only some sections mentioned above. Not all sections are available in a single website. Some of the available website are not user friendly, as well as they require more furnishing of the UI. The main purpose of them is exploration and less emphasis are given on educational components.

## 3.3 User Characteristics (Type of users who is dealing with the system)

- Any student who interest in studying online is dealing with this system.

## 3.4 Hardware and Software Requirements(Minimum requirements to run your system)

Software:

1) Visual Code Studio
2) Browser
3) POSTMAN
4) NPM Installer

Hardware:

1) Computer with Min 2 GB RAM
2) Processor: i5 or above
3) Generation: $5^{th}$ or above
4) Storage: 512 GB SSD / 1 TB HDD

## 3.5 Constraints

### 3.5.1 Hardware Limitations

- There is only one limitation of this application, that is it will work only web based system.

.

### 3.5.2 Interfaces to Other Applications

- There are no other systems that use this application as an interface.

### 3.5.3 Reliability Requirements

- The application does demand much reliability and it is fully assured that the particular information about the users should be secured and flow is maintained and accessed according to the rights.

### 3.5.4 Criticality of the Application

- Website does not work properly if network connect is low

## 3.6Assumptions and Dependencies

1. User has sufficient privileges to access internet.
2. Server is running smoothly.
3. Database updates are giving expected and accurate results.

# 4.0 SYSTEM ANALYSIS

## 4.1 Requirements of New System (SRS)

- **Functional Requirements**

**R.1 Admin**

R.1.1 Login
Discription:Admin can login.
I/p: Admin Can login
O/p:Take to Admin Page
R.1.2 Manage Courses
Description: Admin can manage course. He can add or remover any course.
I/p: Add or remove Course
O/p:It will Add or delete.
R.1.3 View students
Description: Admin can see all users.
I/p: It can View users
O/p:Show user ,user's details
R.1.4 Certificate
Description: Admin can give certificate after completion of course.
I/p: Give certificate
O/p:Provide Certificate

**R.2 Teacher**

R.2.1 Register
Description: Teacher can register their profile by giving email and phone number.
I/p: They have to register ,Give email and phone number
O/p: Set user name ,Password, and get verification code and verify the account.

R.2.2 Login
Description: After register they can login.
I/p: Enter user name, password
O/p: If user name and password is correct they can go to Workplace.

R.2.3 Upload Course
Description: Teacher can upload courses
I/p: Upload their Course

R.2.4 View Course
Description: He/She can see all courses uploadsed by teacher.
I/p: Check Course
O/p: It will Show all course uploaded by that user.

R.2.5 View User
Description: Teacher can see all student
I/p: View User
O/p: It will show number of buyer of that course.

R.2.6 Questionpaper
Description: They can take exam.
I/p: Upload Questionpaper for exam.

**R.3 Student**

R.3.1 Register
Description: Student can register their profile by giving email and phone number.
I/p: They have to register ,Give email and phone number
O/p: Set user name ,Password, and get verification code and verify the account.

R.3.2 Login
Description: After registering they can do login.
I/p: Enter user name, password
O/p: If user name and password is correct they can go to Workplace.

R.3.3 View Course
Description: Studen can see all courses which can purchased by him.
I/p: View Course
O/p: View course which he had buy.

R.3.4 Check Profile
Description: Student can see their profile.
I/p: Check their profile
O/p: They can check their profile, see the total course.

R.3.5 Give exam
Description: After watching video they have to give exam.
I/p: After Completing the course there will be online exam
O/p: View exam

R.3.6 Achieve Certificate
Description: After giving exam they can take certificate.
I/p: Gate Certificate
O/p: After Compliting the course They will gate Certificate.

R.3.6 Feedback
Description: Student can give rating.
I/p: Give feedback and rating.

- **Non-Functional Requirements**

  - **Performance Requirements**

    1. The database shall be able to accommodate a minimum of 3,000 records of students

    2. The software shall support use of multiple users at a time. There are no other specific performance requirements that will affect development.

  - **Safety Requirement**

    1. The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup.

  - **Security Requirement**

    1. Some of the factors that are identified to protect the software from accidental or malicious access, use, modification, destruction, or disclosure are described below.

       - Keep specific log or history data sets
       - Assign certain functions to different modules.
       - Restrict communications between some areas of the program
       - Communication needs to be restricted when the application is validating the user or license. For example, using https.

  - **Software Quality Attributes**

    1. The Quality of the System is maintained in such a way so that it can be very user friendly to all the users.

    2. The software quality attributes are assumed as under:
       - Accurate and hence reliable
       - Secured
       - Fast speed
       - Compatibility

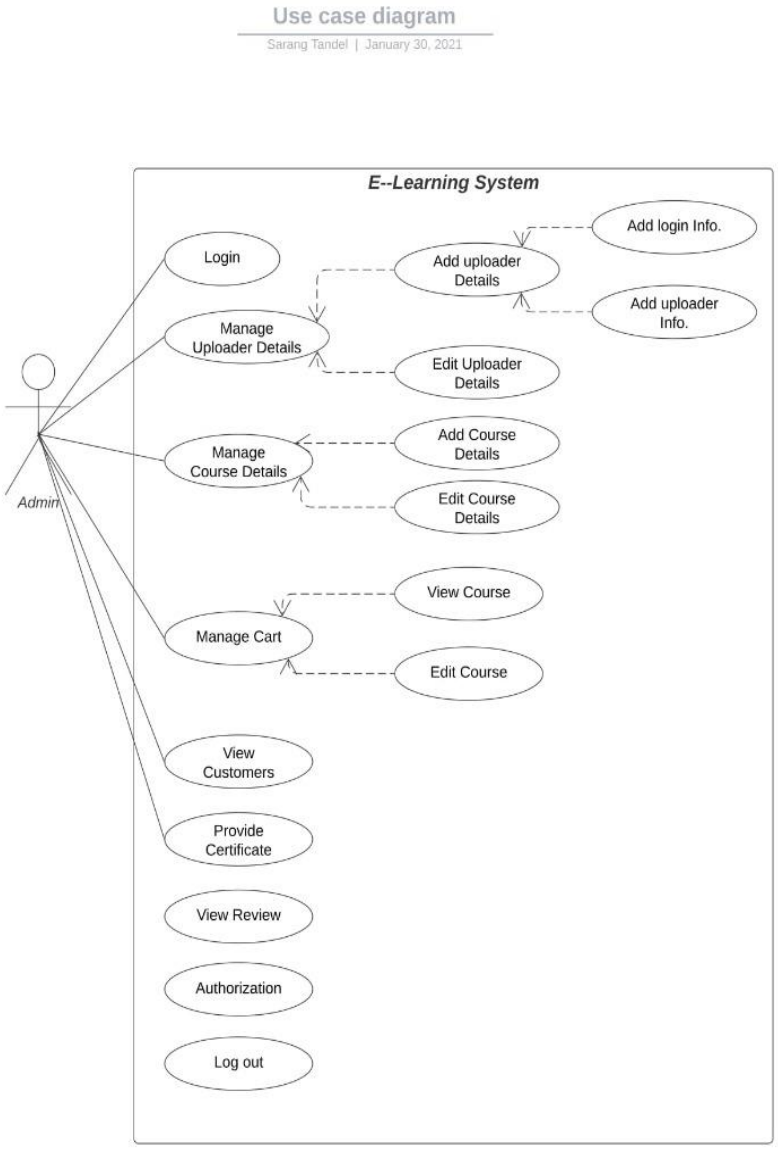
  - **Mention Ambiguity, In-consistency & In-complete requirement in Proj. Overview Def for each one.**

    Data need to be entered properly otherwise; outcome may won't be accurate.

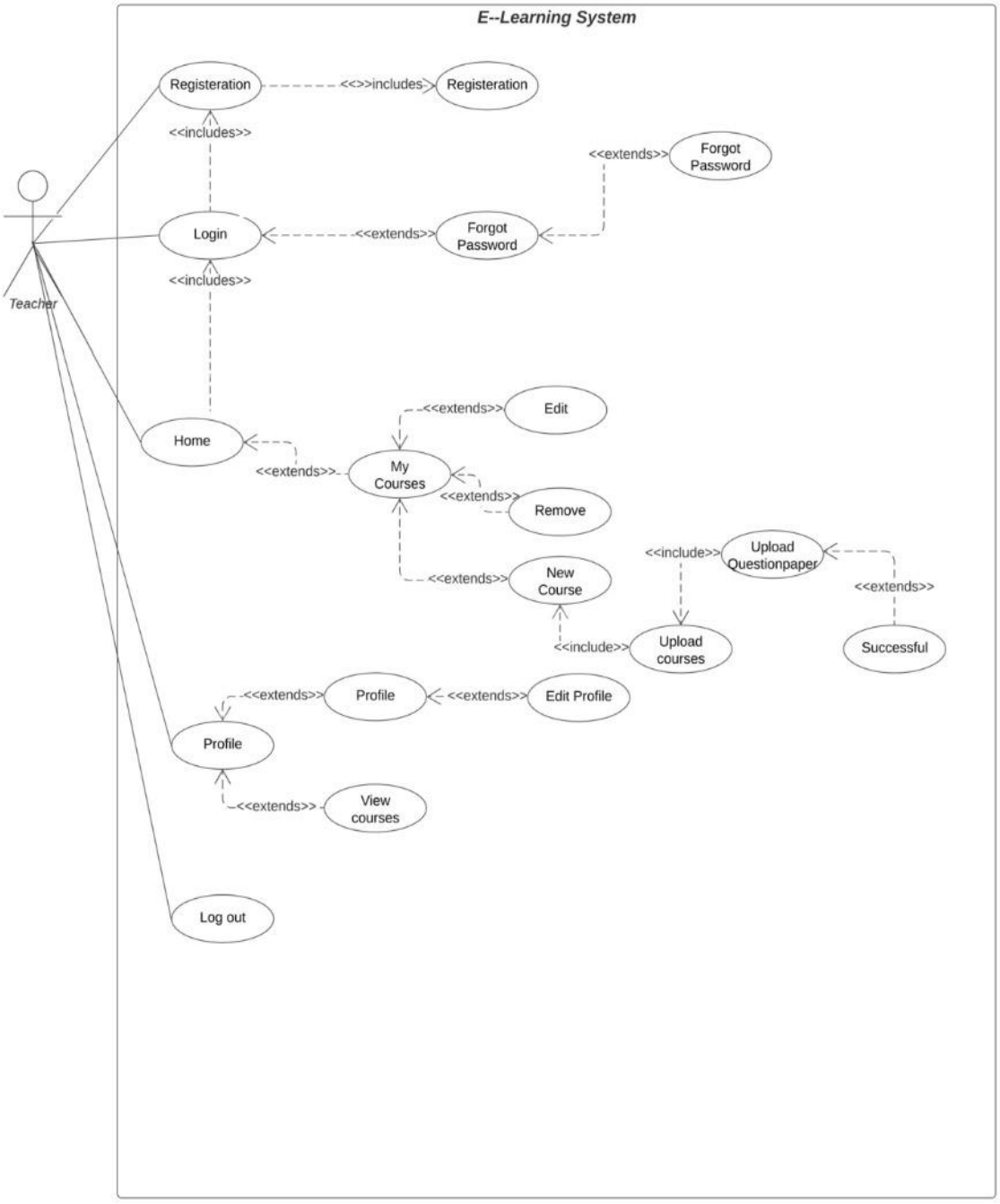
# 5.0 SYSTEM DESIGN

## 5.1 Use Case Diagram

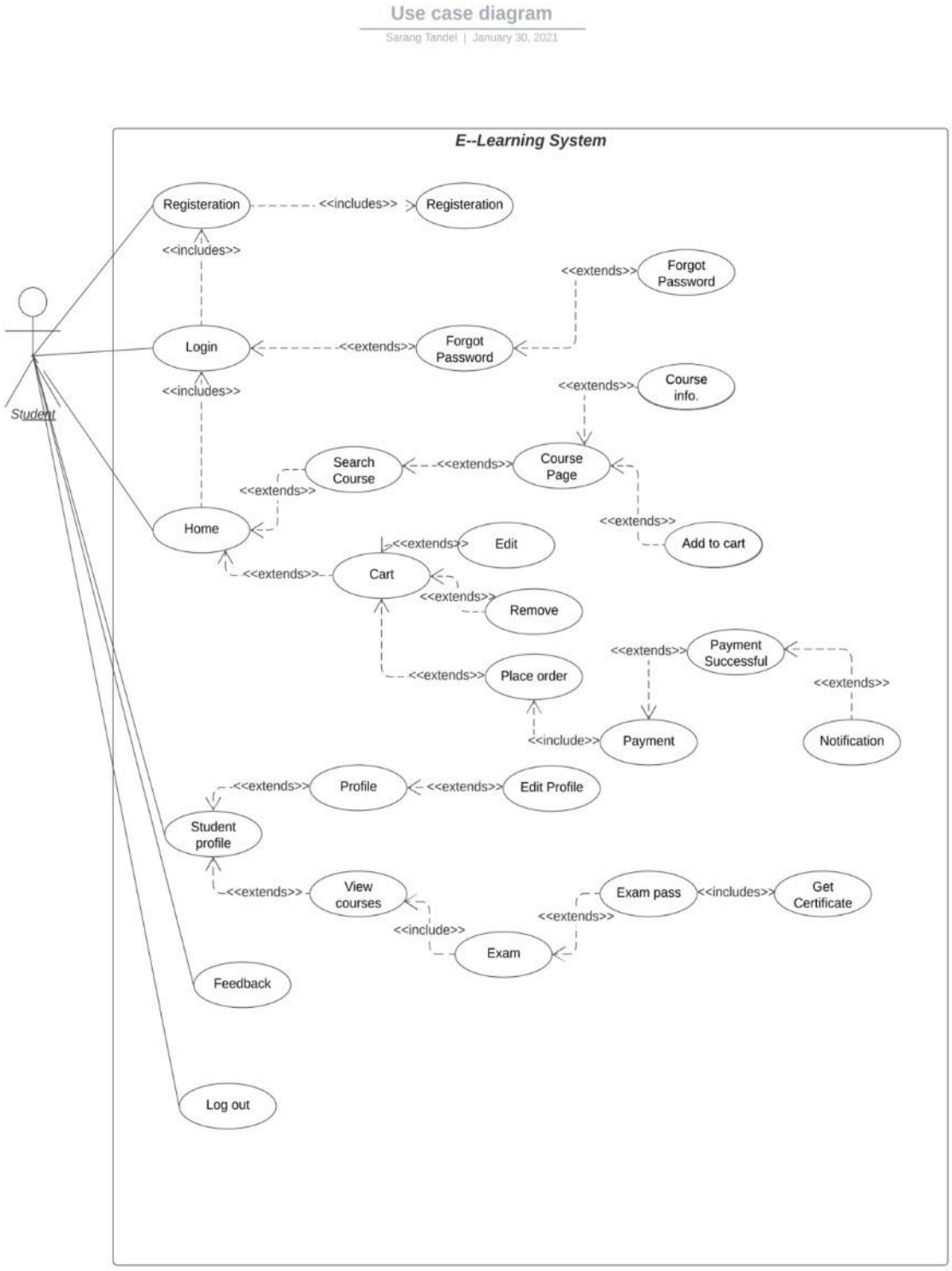
### 1)Admin Use-case



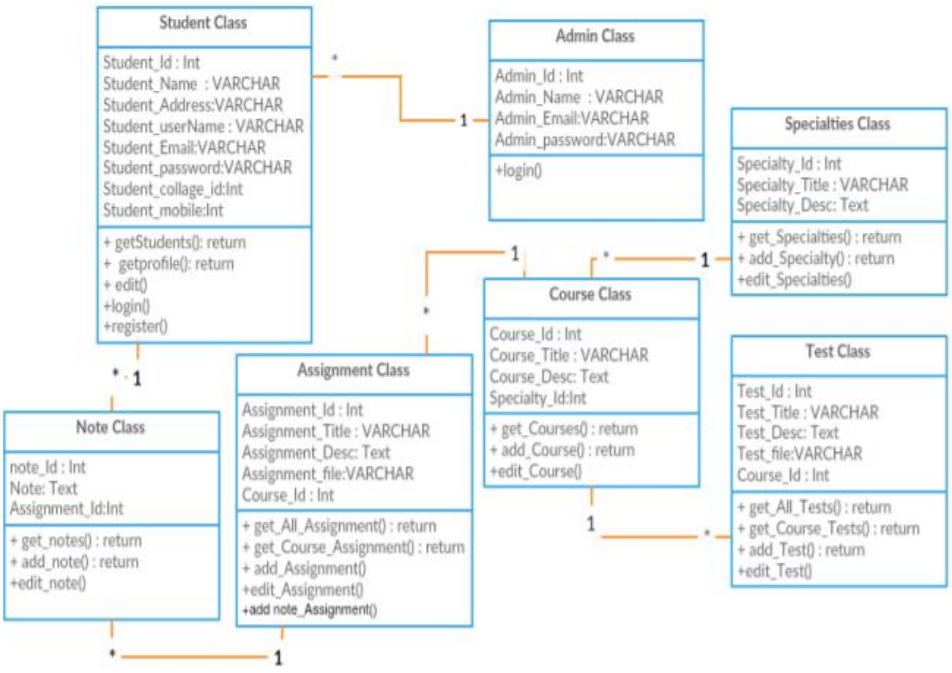
## 2)Teacher Use-case



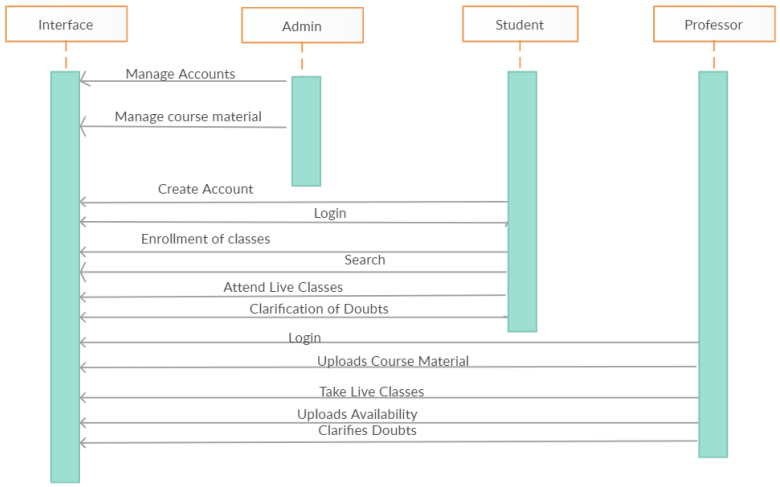
## 3)Student use-case



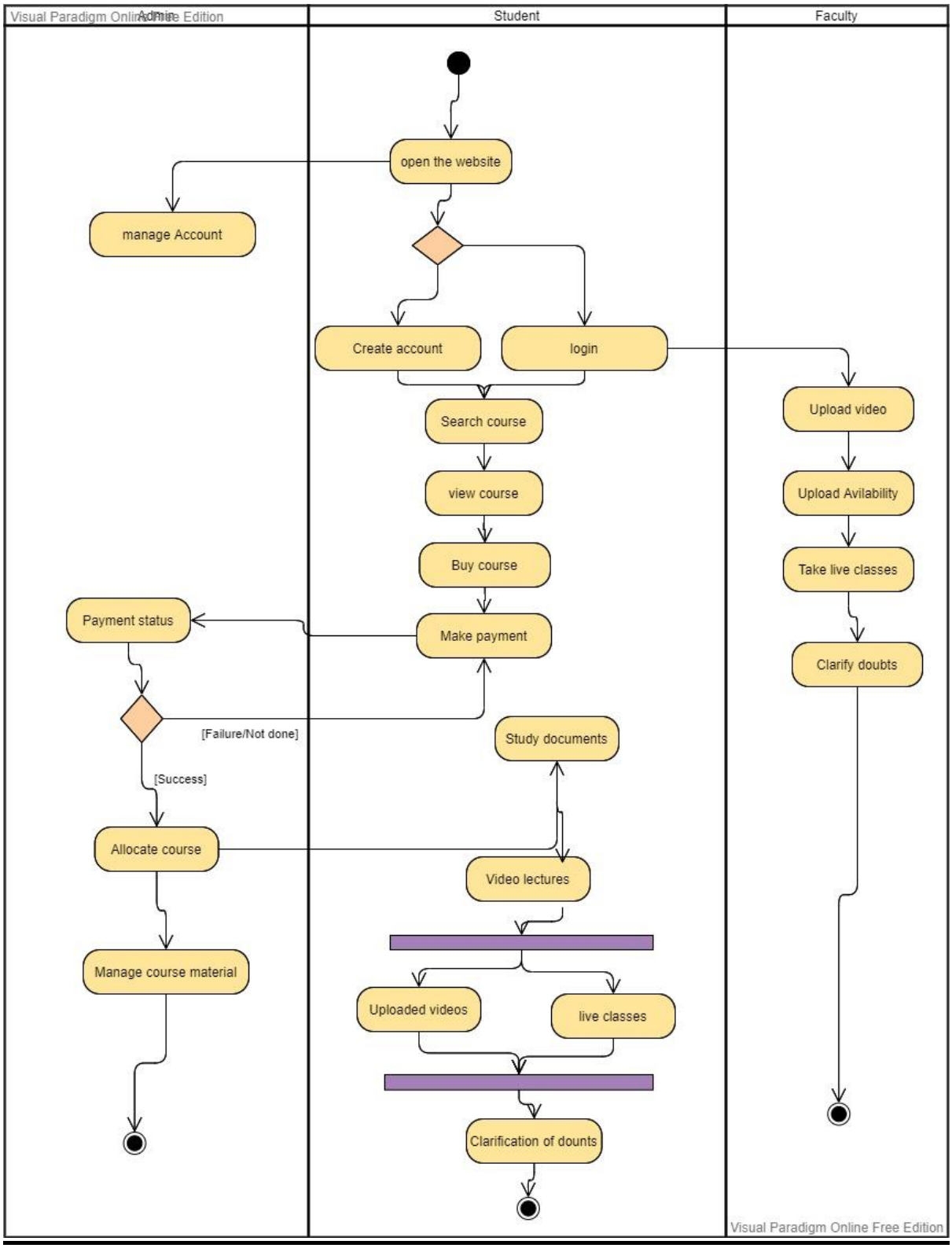
## 5.2 Class Diagram



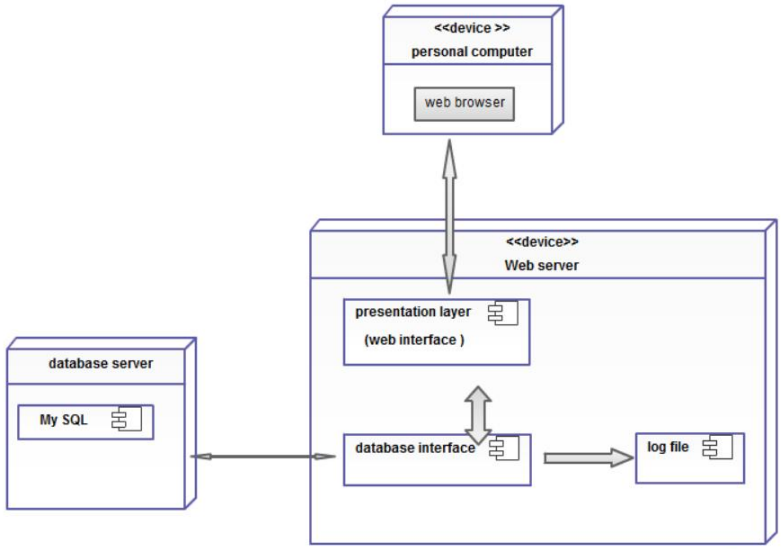

## 5.4 Sequence Diagram



## 5.4 Activity Diagram



## 5.5 Deployment Diagram



# 6.0 Implementation Planning

## 6.1 Implementation Environment (Single vs Multiuser, GUI vs Non GUI)

- The application is a single user system with GUI. For the implementation of the project, we will need following as basic platforms and tools:

1. Web browser: To run Course Academy website
2. Visual Studio Code: It is a streamlined code editor with support for development operations like debugging, task running, and version control. It aims to provide just the tools a developer needs for a quick code-build-debug cycle
3. MongoDB: To store database

## 6.2 Program/Modules Specification

The following Modules are implemented:

- Admin
    - View / Edit Profile
    - Manage course detais
    - See all Teacher
    - Add/View/Edit Student
- Teacher
    - View / Edit Profile
    - Add courses
    - Take exam
- Student
    - View / Edit Profile
    - See course
    - See videos
    - Give exam
    - Take cerificate

## 6.3 Coding Standards

To make the system coding easy, easy to remember and reducing the chances of errors some techniques are used at the time of coding of the application which is called coding standard.The coding standard which we adopted during the coding is explained as follows:

- Each nested block should be properly indented and spaced.
- The code should be properly commented for understanding easily.

Comments regarding the statements increase the understandability of the code.

- Better to avoid use of digits in variable names.
- The names of the function should be written in camel case starting with small letters.
- The name of the function must describe the reason of using the function clearly and briefly.

# 7.0 Testing

## 7.1 Testing Plan

### What is 'Software Testing'?

Software testing is the process of testing the functionality and correctness of software. Software testing is defined as an activity to check whether the actual results match the expected results and to ensure that the software system is defect free.

## 7.2 Testing Strategy

The development process repeats this testing subprocess a number of times for the following phases.

**a) Unit Testing.**

In this each module is tested individually. Criteria selected for identifying unit test module is to identify module that has core functionality implementation. Module could be an individual or procedure. The following is a list of functions for unit testing that will tested:

- Select the dataset.
- Apply Pre-processing.
- Build Individual model.
- Train classification model.
- Test classification model.

**b) Integration Testing**

Integration testing integrates individual modules and tested as a group. Integration testing takes as its input modules that have been unit tested, groups them in larger aggregates applies tests defined in an integration test plan to those aggregates, and delivers as its output the integrated system for testing.

## 7.3 Testing Methods

Black Box and White Box Testing:

In black-box testing a software item is viewed as a black box, without knowledge of its internal structure or behavior. Possible input conditions, based on the specifications (and possible sequences of input conditions), are presented as test cases.

In white-box testing knowledge of internal structure and logic is exploited. Test cases are presented such that possible paths of control flow through the software item are traced. Hence more defects than black-box testing are likely to be found.

Out of the 2 methods for testing, black box testing and white box testing, we would be using the white box testing as we are well aware of the internal

functionalities of our application unlike in the black box testing, where we require a 3rd party to test our cases and the internal details are hidden from him.

## 7.4 Test Cases

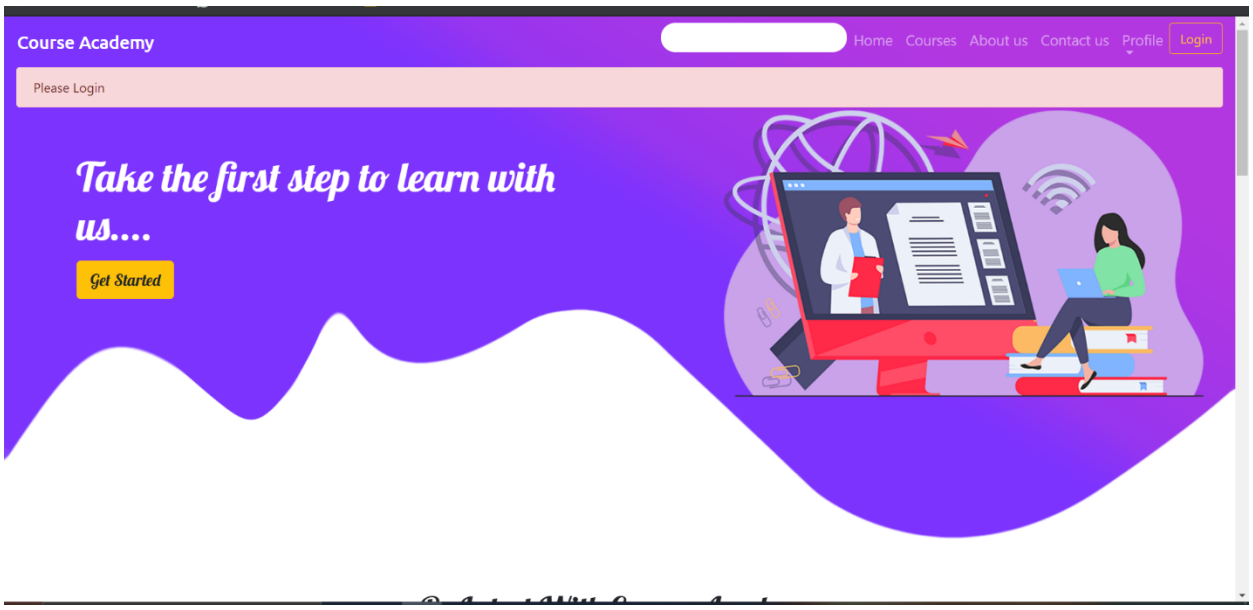
| Sr. No. | Purpose | Input | State | Expected Output | Actual Output | Test Result |
|---|---|---|---|---|---|---|
| 1 | Student Login | Registered Email, Correct Password, Submit | Logout | Success | Success | Pass |
| 2 | Student Login | Unregistered Email, Password | Logout | Incorrect usename!! | Incorrect usename!! | Pass |
| 3 | Student Register | First name, Last name Email, Password, Phone number | New User | Success | Success | Pass |
| 4 | Student Register | Empty Email, Submit | New User | Failure | Failure | Pass |
| 5 | Search course | Click on search button | Logged in | Show course | Show course | Pass |
| 6 | View Courses | View courses | Logged In | Success | Success | Pass |
| 7 | Purchase course | Click on buy now | Logged in | Show payment page | Show payment page | Pass |
| 8 | Payment | Give details of debit card | Logged in | Payment success | Payment success | Pass |
| 9 | Payment | Give detais of debit card | Logged in | Payment success | Payment fail | Pass |
| 10 | See videos | Watch videos | Logged In | Show video | Show video | Pass |
| 11 | Give exam | Click on give exam | Logged In | Show exam | Show exam | Pass |

| | | | | | | |
|---|---|---|---|---|---|---|
| 12 | Take certificate | Click on buy certificate | Logged in | Show certificate | Show certificate | Pass |
| 13 | Write feedback | Click on give fedback | Logged in | Write feedback | Write feedback | Pass |
| 14 | Give rating | Click on give rating | Logged in | Give rating | Give rating | Pass |

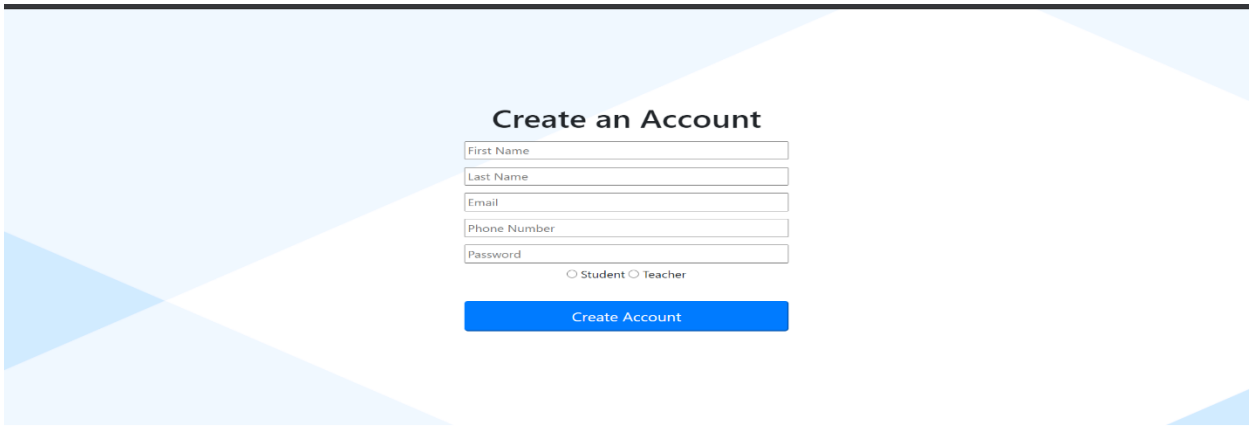
# 8.0 USER MANUAL

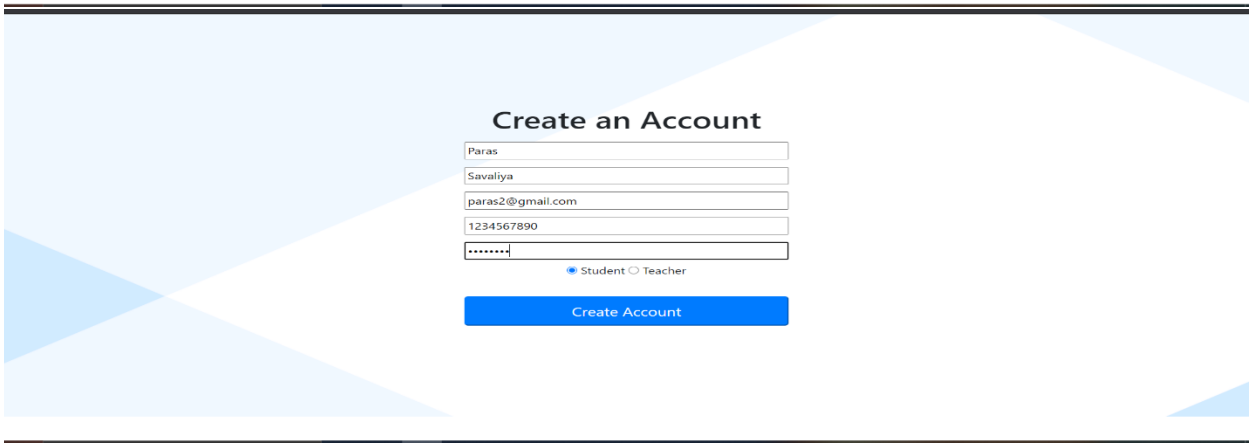
- **Student section**

1) If user can try purchase course without login user get error of this type.

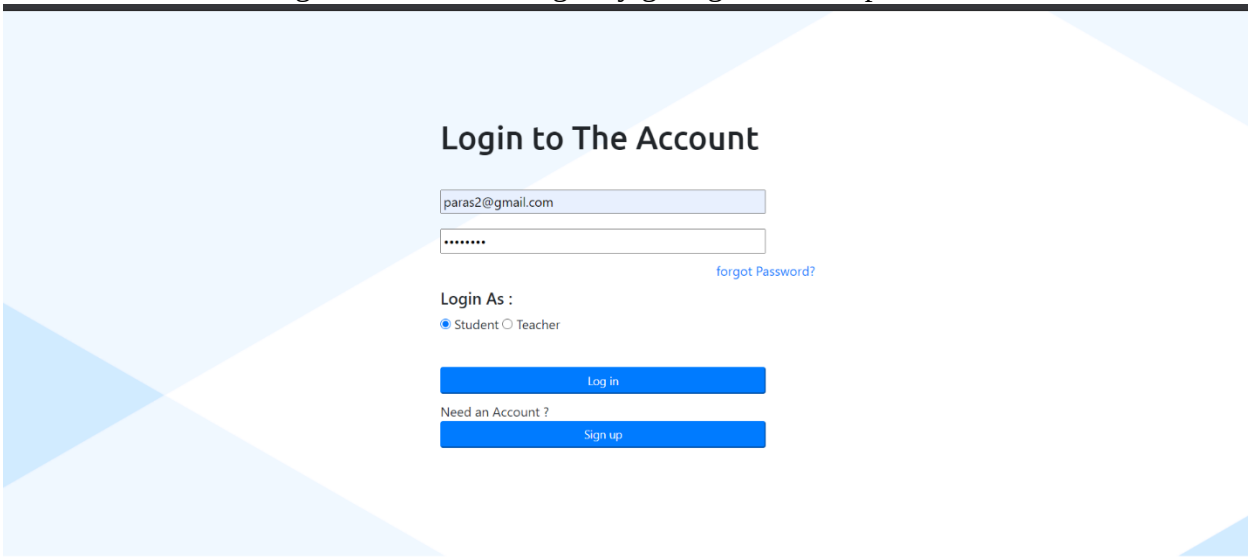



➢ Student can register by giving email , password and phone number

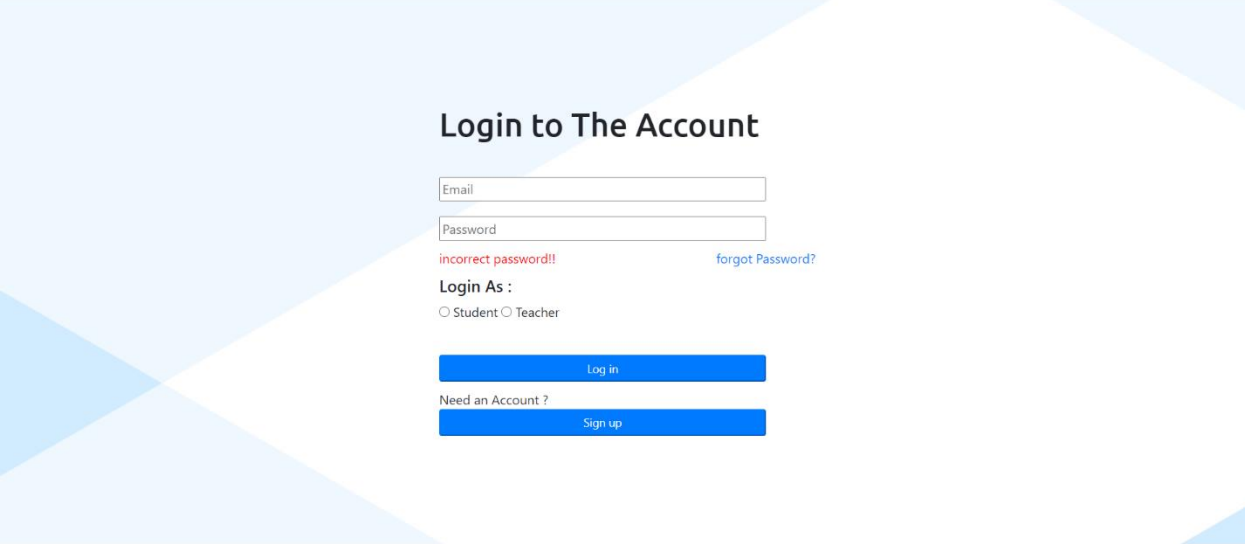


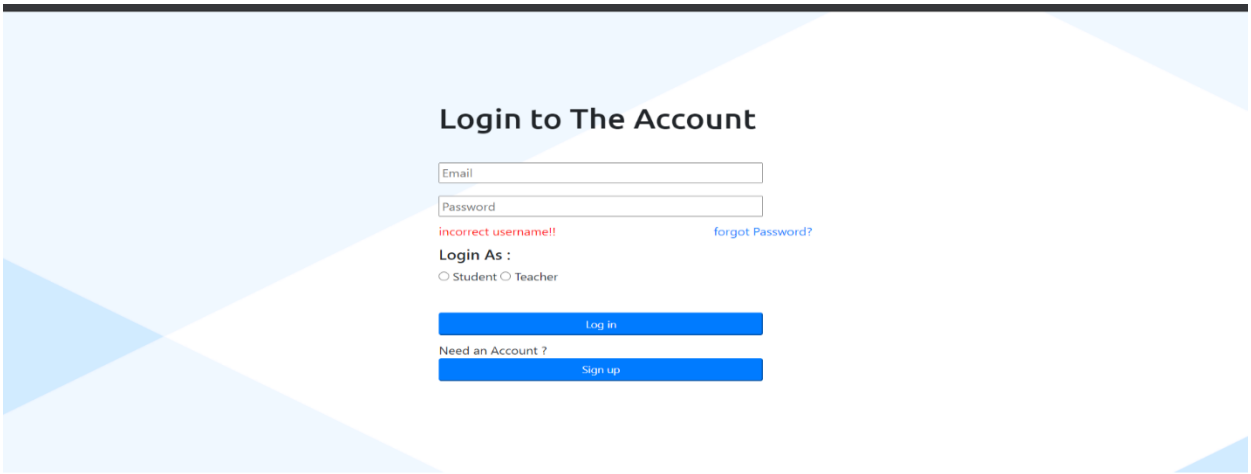



- After register student can login by giving email and password

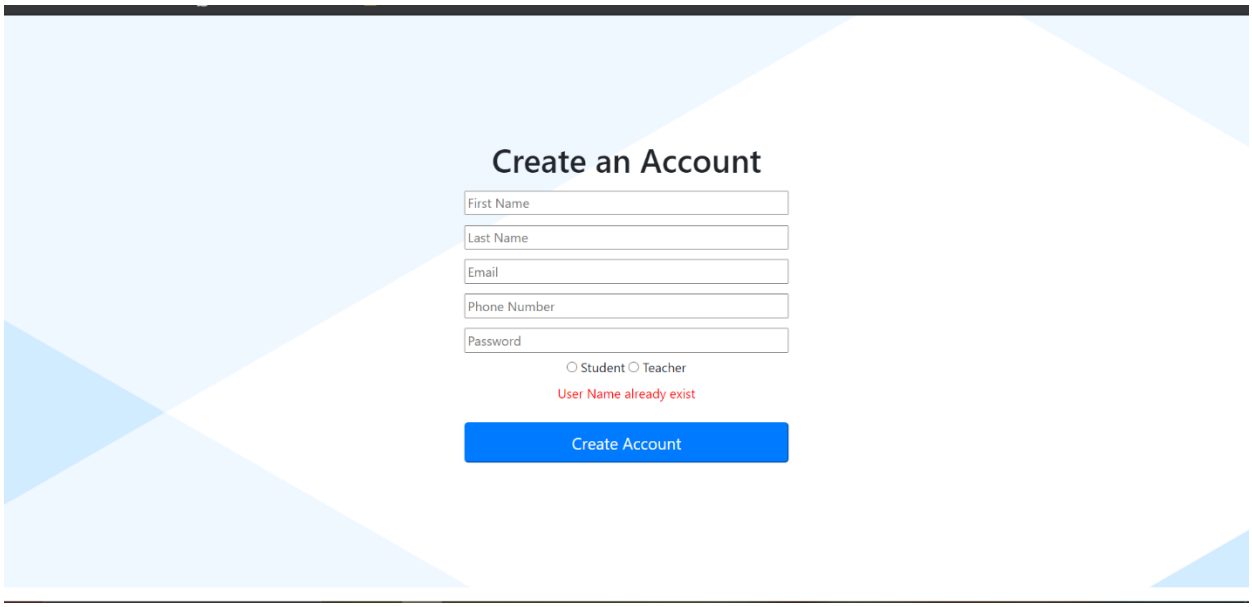



- If password or Username is incorrect then get this type of msg



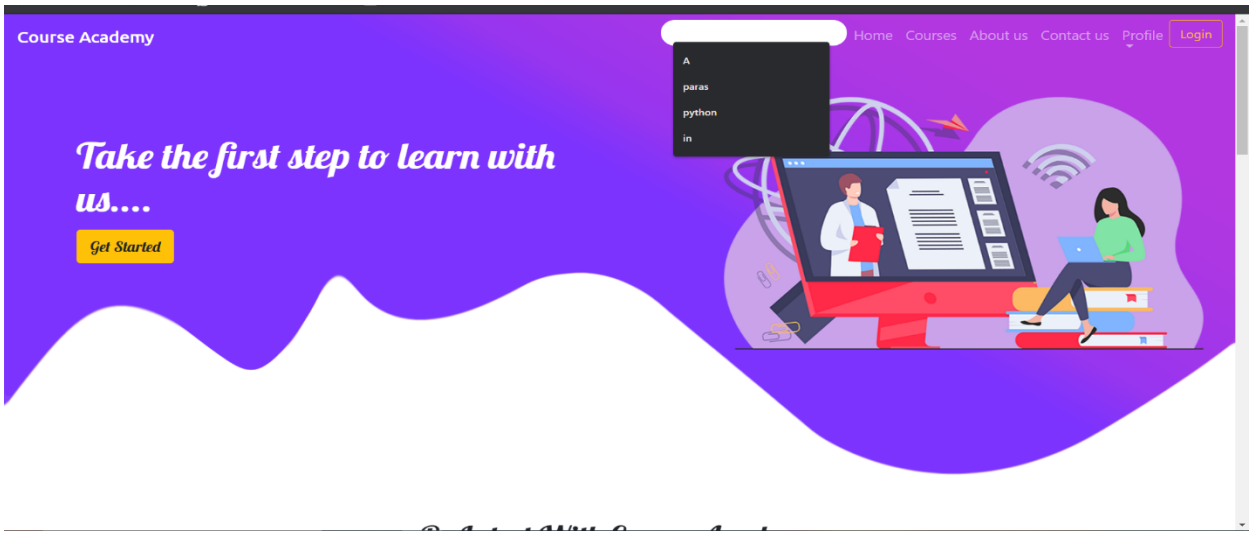



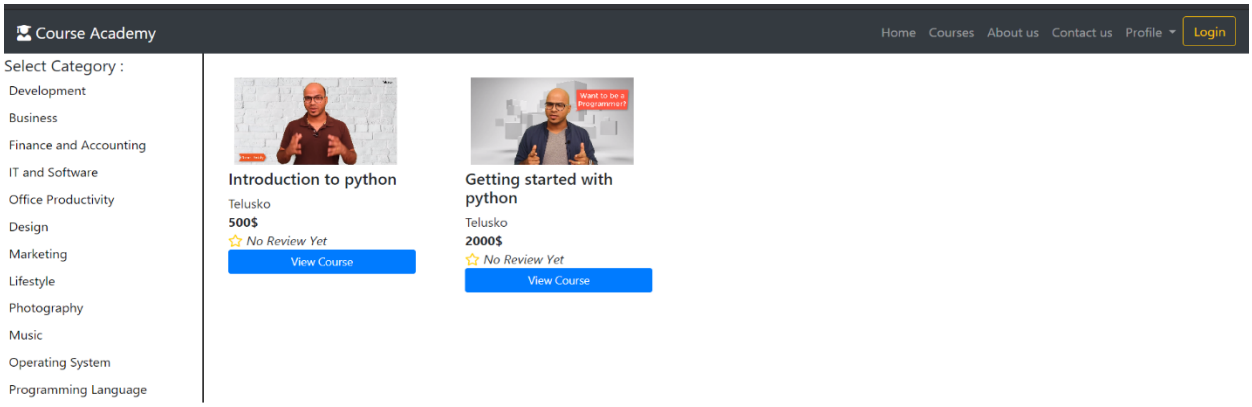
- If already student have an account but still student try to register then student get notification of this type



- After login Student can see home page of Course Academy website

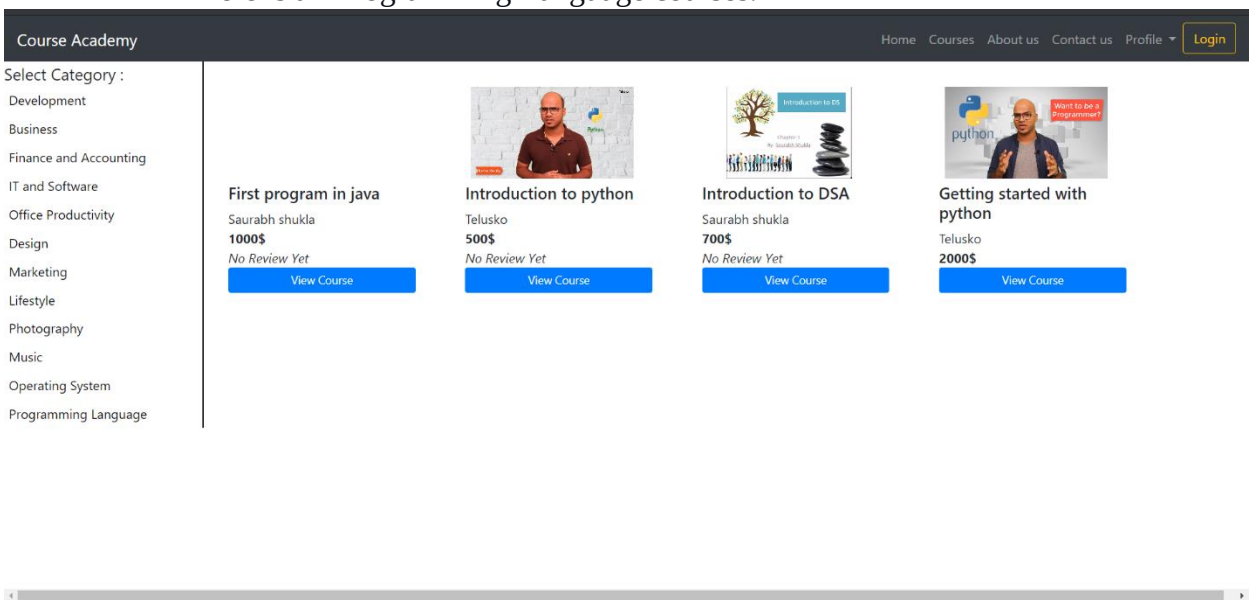
- Student can also search course and it will show all it’s releated courses



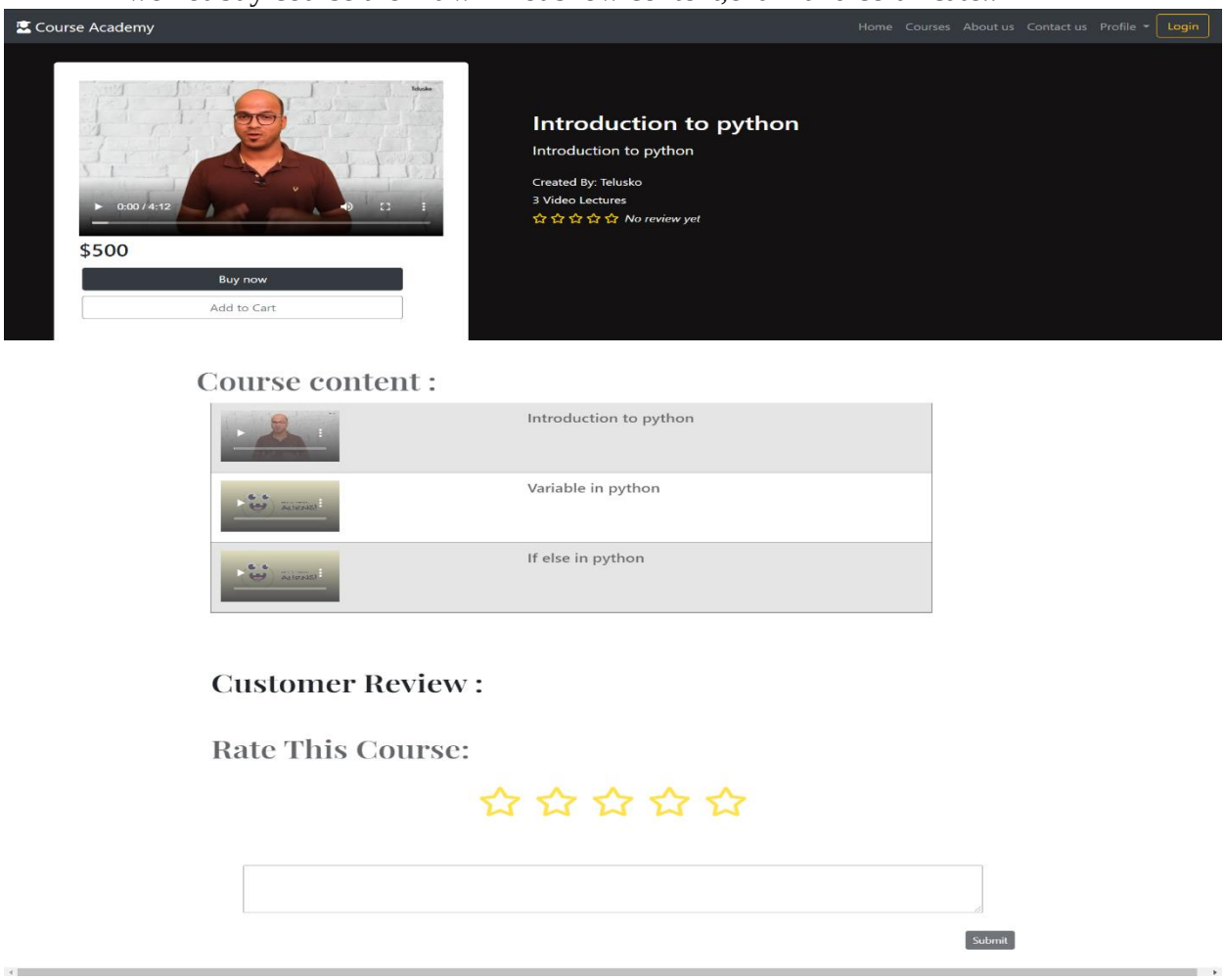



- We can also see all the courses by category wise.

- Here is all Programming Language courses.

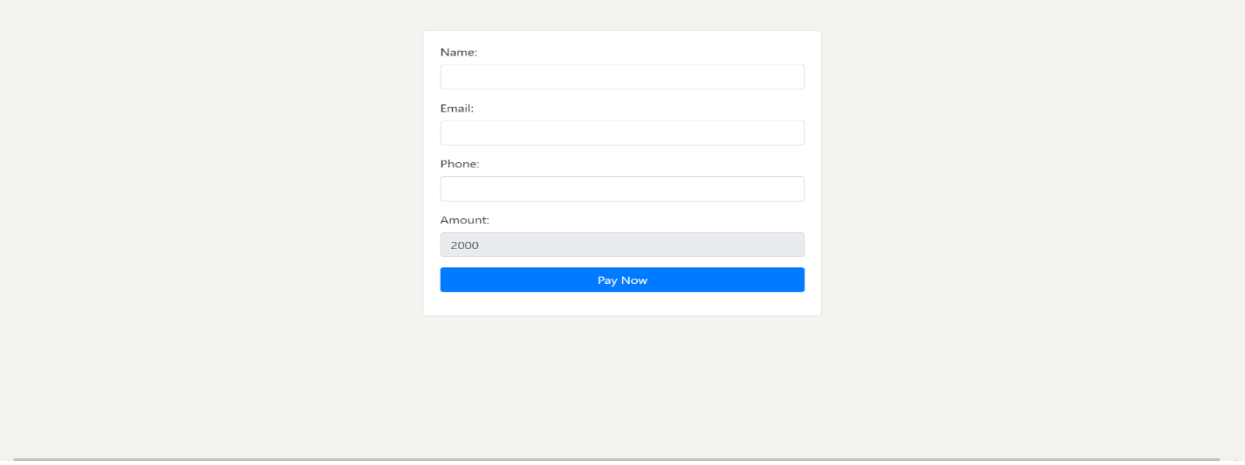


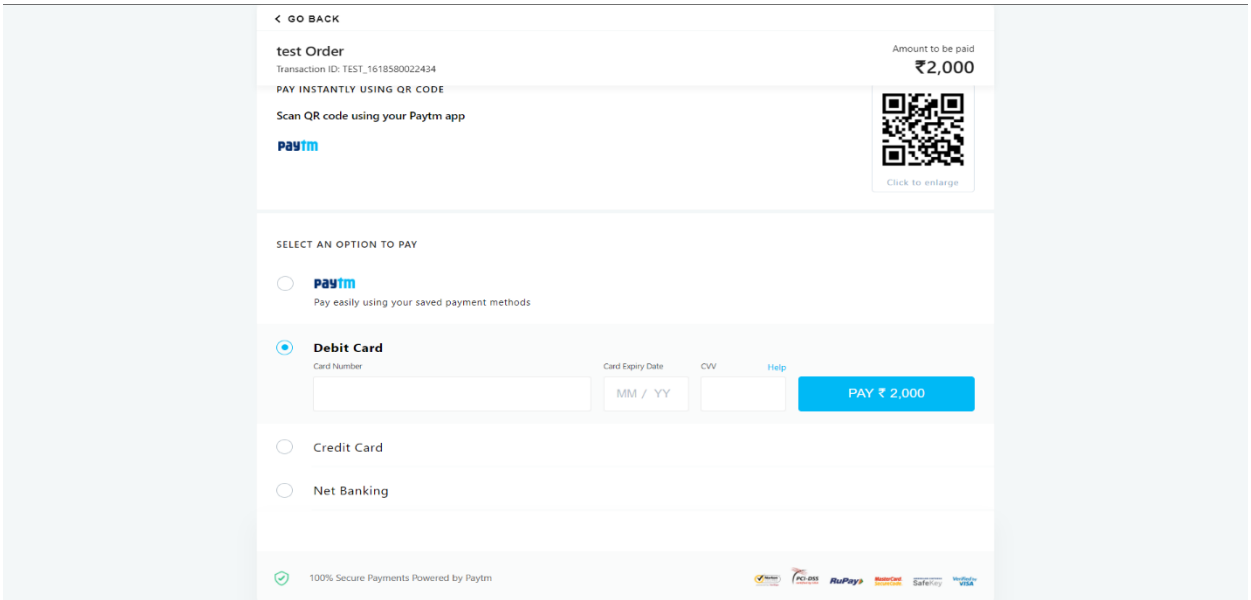

- If we click on any course then it will show like this.
- If we not buy course then it will not show content,exam and certificate..



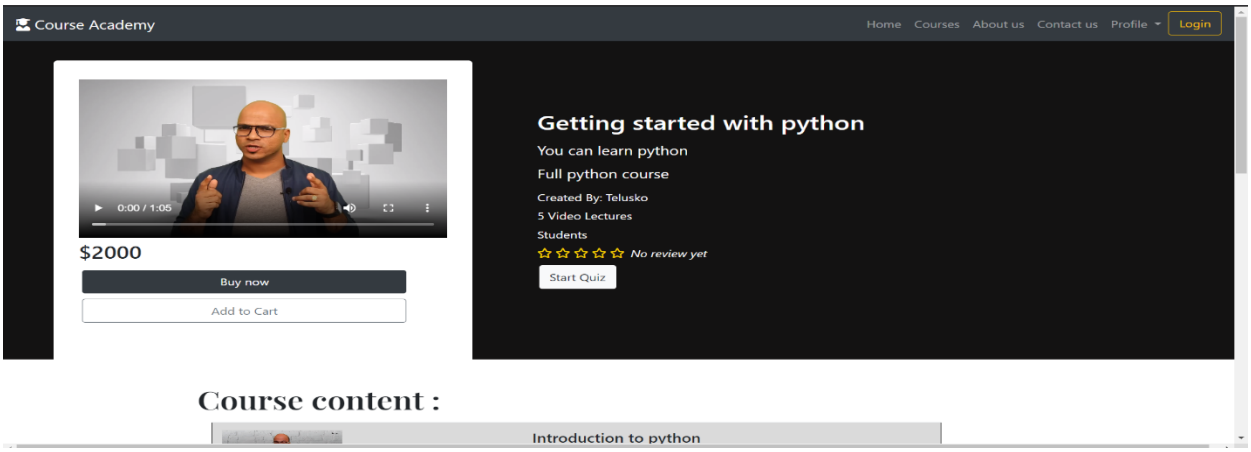

- If we click on buy now then it will show payment page.

- Amount will be detect automatically.
- After succesfull payment it will show course page and if payment is failed then it will show again payment page.

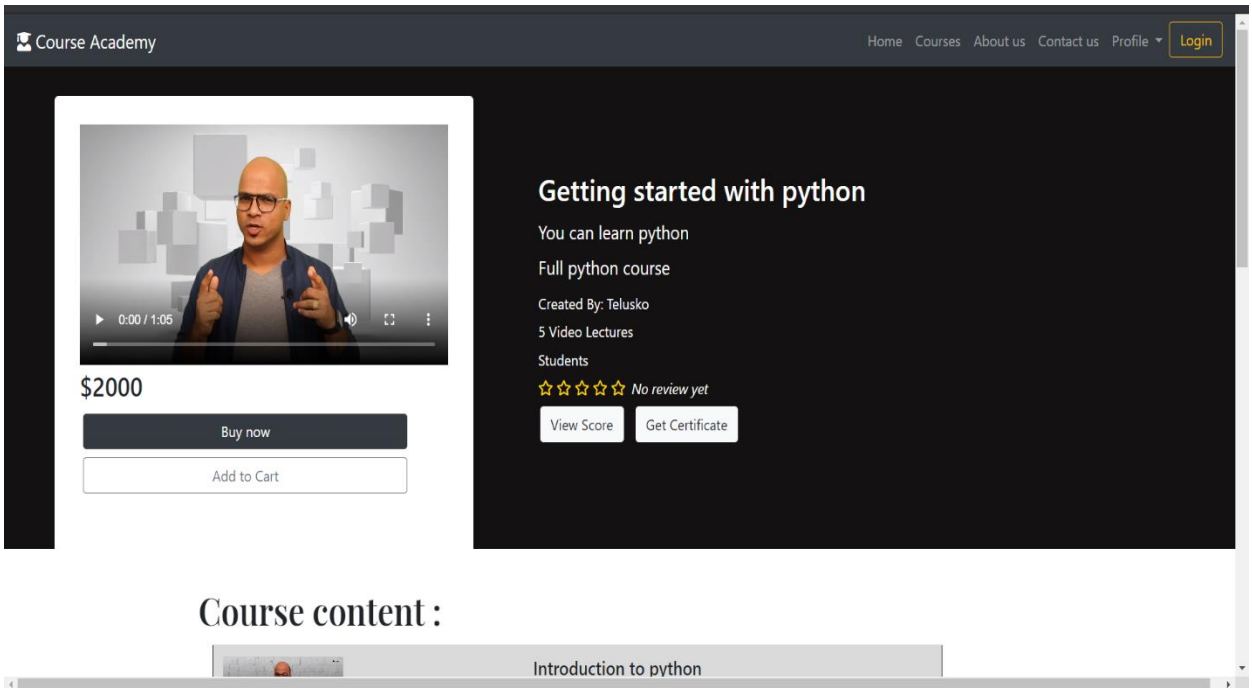



- After successful payment student can give exam.




- After giving an exam student can get certificate by clicking on get certificate.




- After giving an exam if student click on view score student can see score of exam.

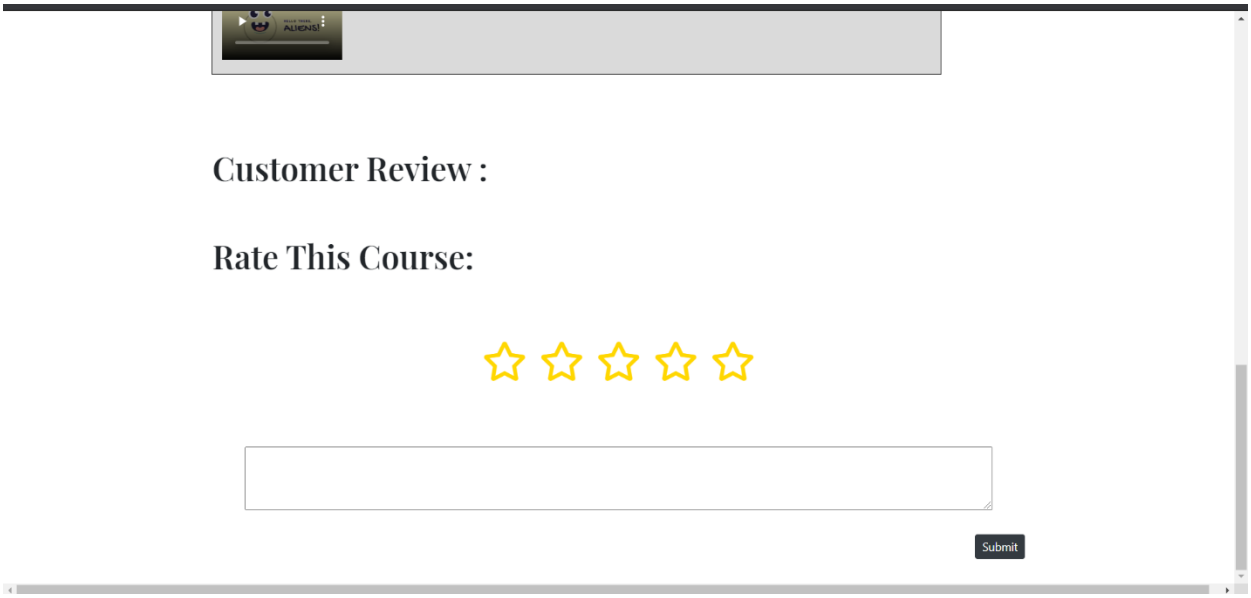
| | |
|---|---|
| First Name | Paras |
| Last Name | Savaliya |
| Course Name | Getting started with python |
| Author | Telusko |
| Marks | 0 |
| Total Marks | 15 |

- After giving an exam student can get certificate.
- In this certificate name will be same as your Firstname and last name

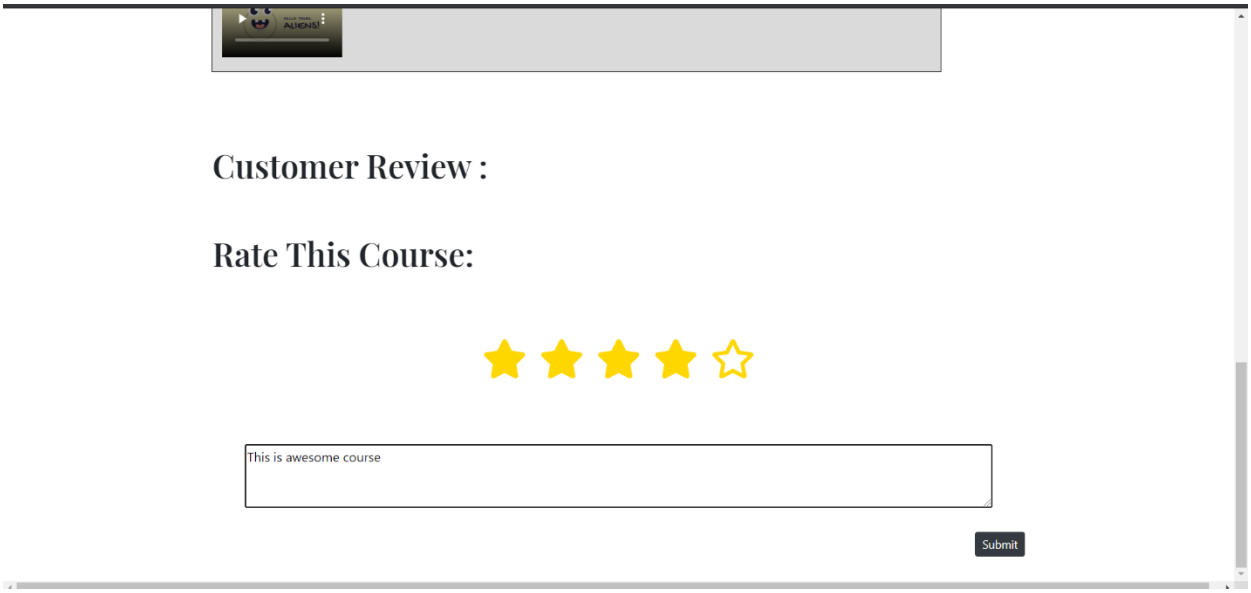
- In certificate there will also show total no of video lecture in course and also course will be shown which you haave cleared and date will be shown when you have clear course.

Take image

- After getting certificate student can also give rating and give feedback as per course.

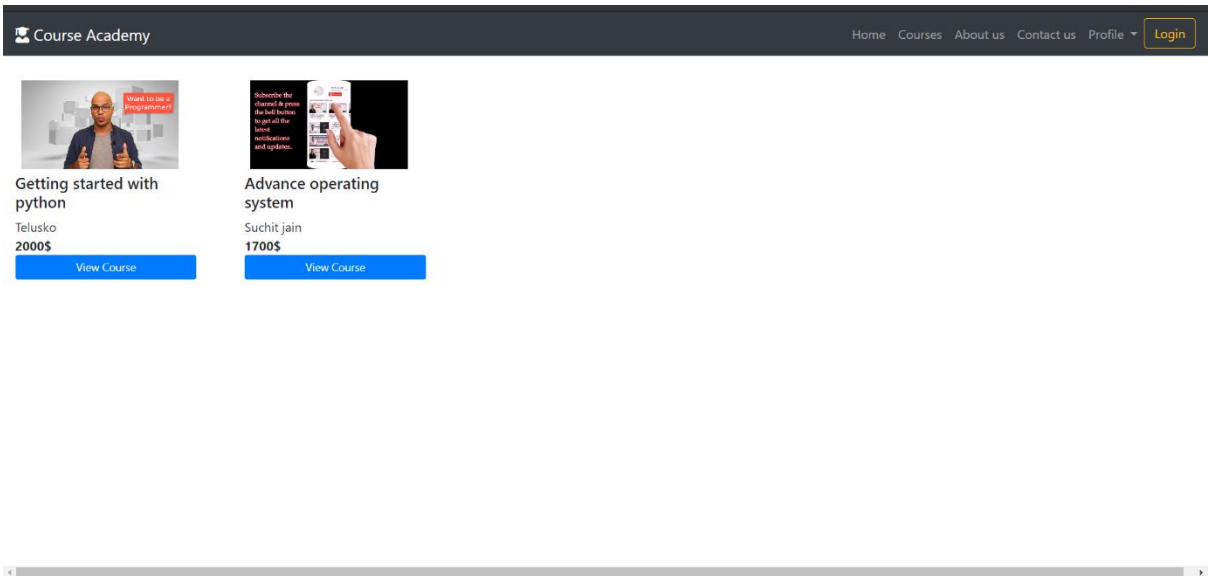



- After giving rating and feedback it will look like this.



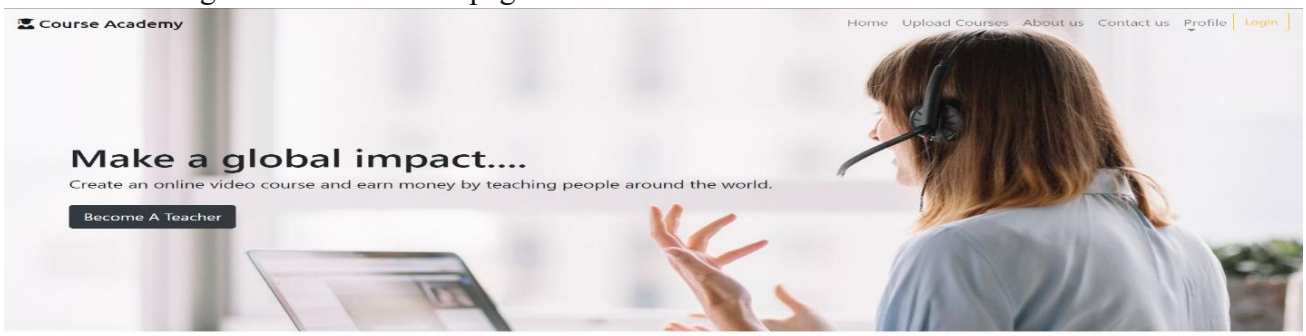

- After giving rating and feedback student can also see their rating and feedback.

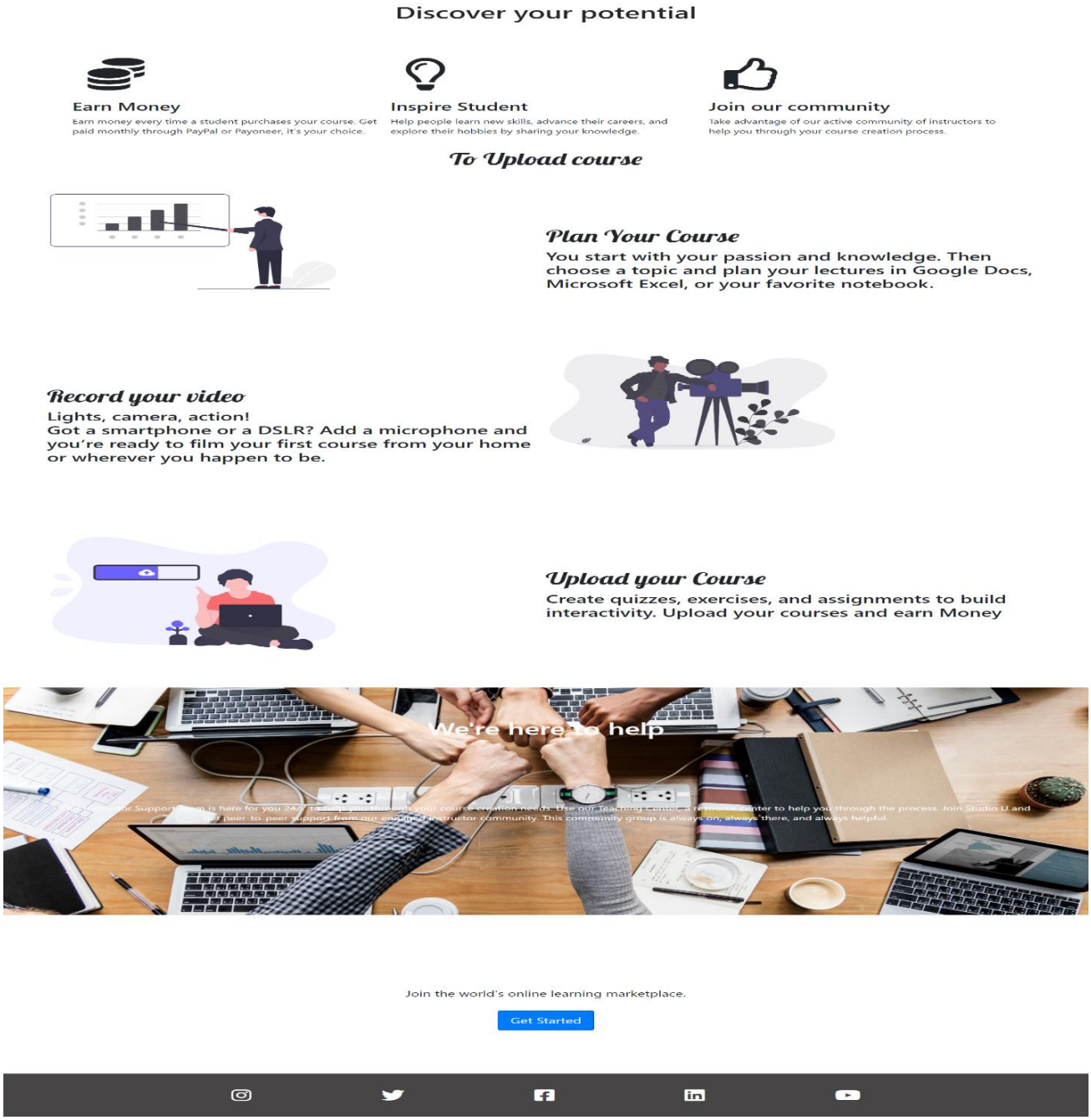
- Student can also see howmany courses student have purchase in my cart



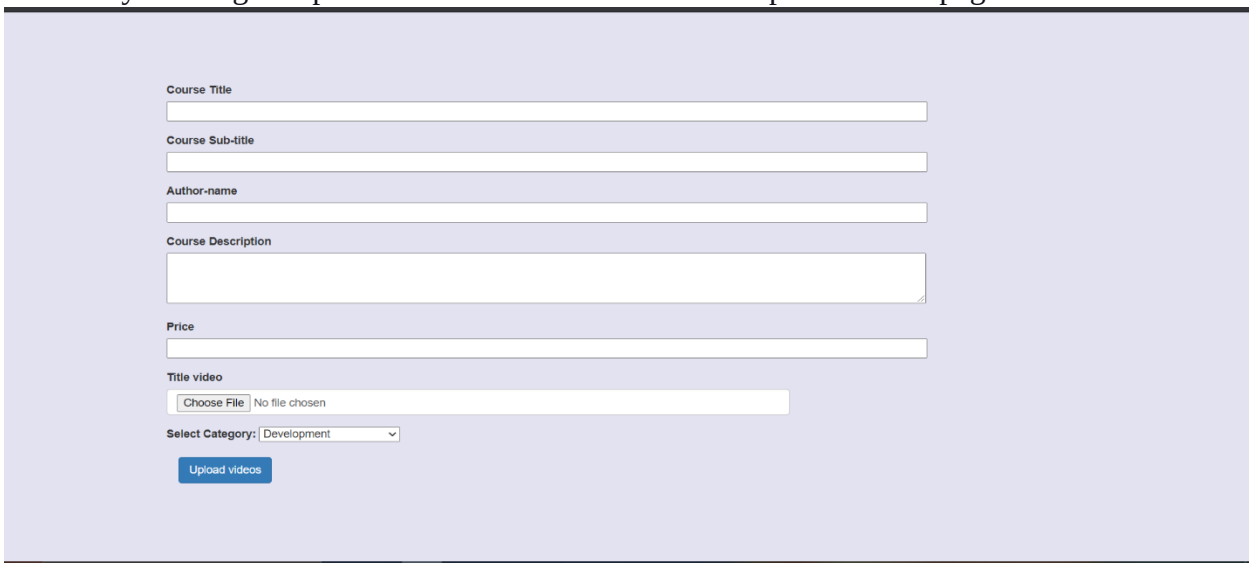
- **Teacher section**

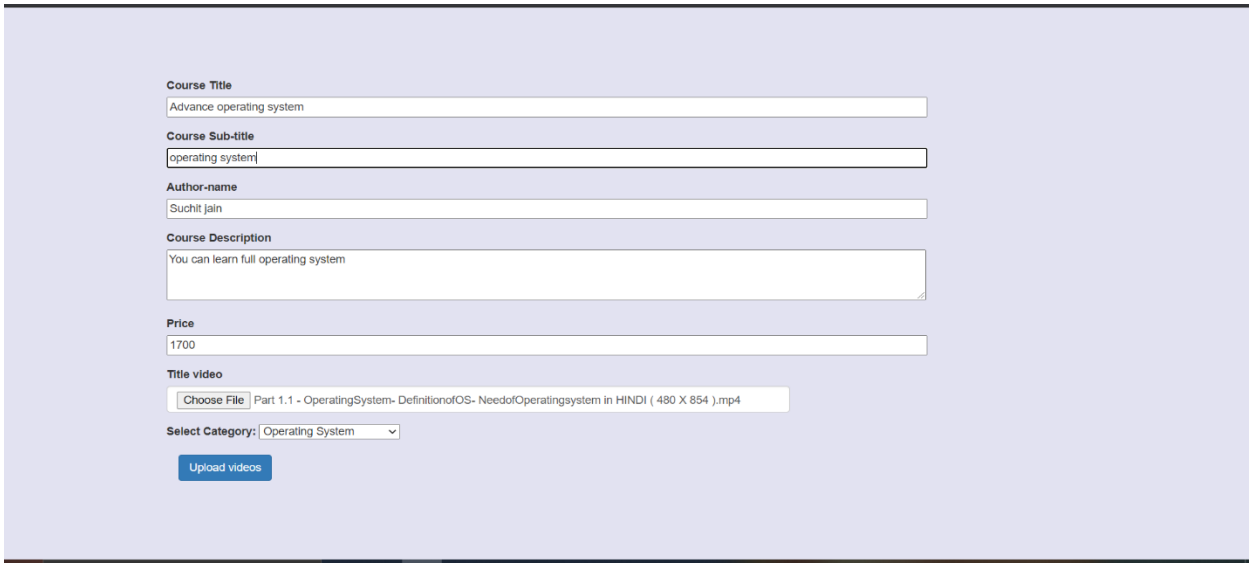
- Login,signup module is same as student section shown earlier
- After login Teacher's Home page look like this.



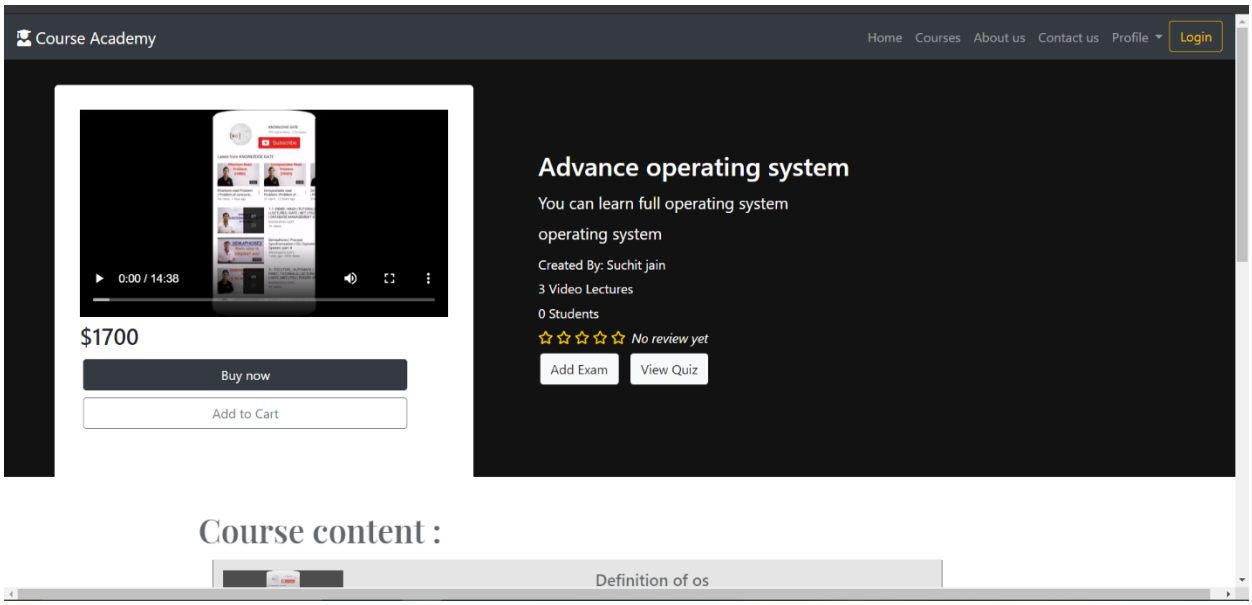
- By clicking on upload course teacher will move to upload course page.



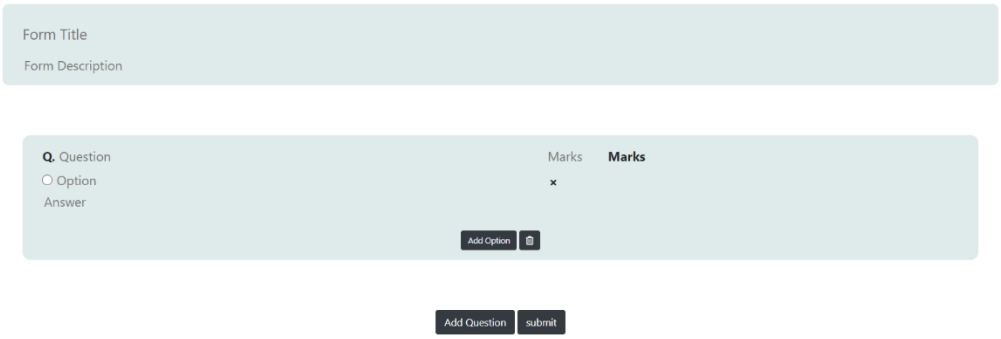




- After uploading title video you can upload more than one video and by clicking on finish video it will stop uploading otherwise you can upload more videos.

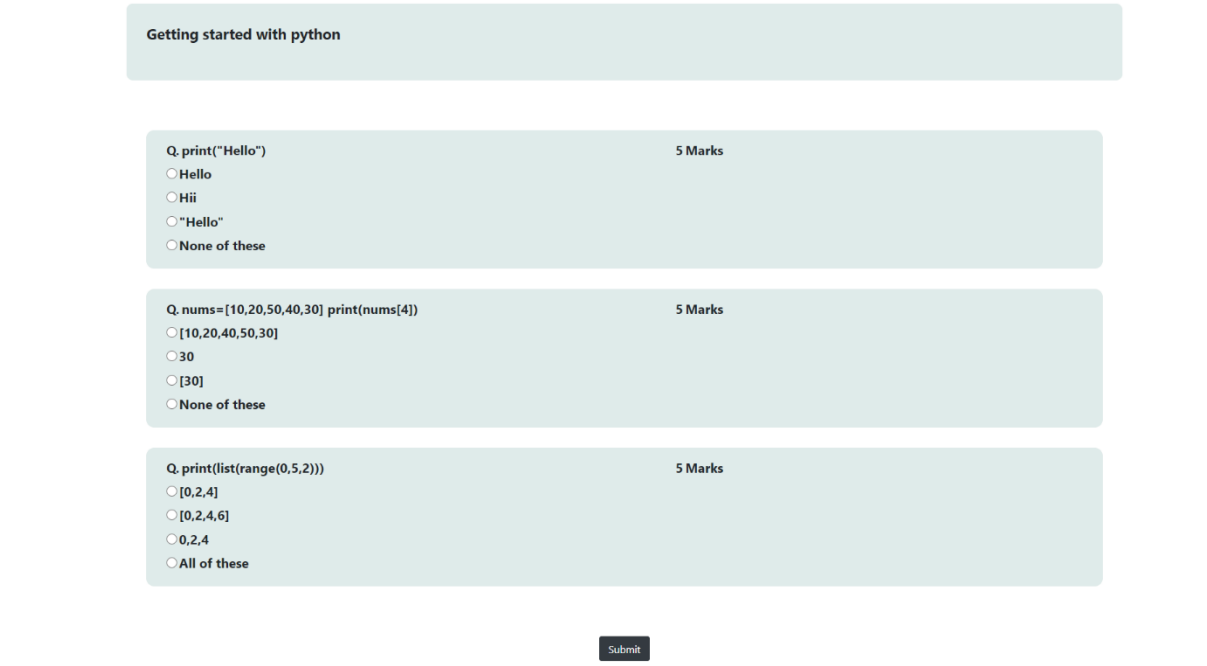
- After uploading video it will move to course page




- After uploading video teacher can also add quiz by clicking on addexam and it will look like these.




- After uploading quiz teacher can view quiz by clicking view quz.




- Teacher can also see student rating and feedback.

# 9.0 Limitation and Future Enhancement

## 9.1 Limitation

1. Internet Connectivity is Mandatory.
2. Limited Modules.
3. Can’t contact with teacher.
4. There is no documentation

## 9.2 Future Enhancement

9.2.1 Live Teaching
9.2.2 Upload documentation
9.2.3 Interact with teacher
9.2.4 Add notes in each video
9.2.5 Exam after particular module.

# 10.0 Conclusion and Discussion

E-learning is not just a change of technology. It is part of a redefinition of how we as a species transmit knowledge, skills, and values to younger generations of workers and students. This project has been implemented from what we have learned in our college curriculum and many rich resources from the web. The scope of this project is subjective to the type of web app that needs to be analysed, however, it was developed by keeping in mind the goal to keep the app as generic and minimal as possible.

# 11.0 References

https://www.npmjs.com/

https://stackoverflow.com

http://www.mongodb.com/

https://nodejs.org/en/

https://www.youtube.com/

https://getbootstrap.com/

https://jquery.com/

https://undraw.co/illustrations/

https://www.w3schools.com/