

# SOFTWARE CONSTRUCTION

Presentation









# EABRILIE

**Your Ultimate Learning Campanion** 



Presentation By TEAM 6





# TEAM MEMBERS



## TEAM LEAD

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## ABSTRACT

The Online Course Portal System is a comprehensive e-learning platform designed to revolutionize education by providing seamless access to online courses. The system supports two distinct roles: Students and Instructors, each with a user-friendly interface tailored for efficient learning and teaching. With an intuitive design and robust functionalities, the platform enhances the online education experience by enabling smooth course access, interactive learning, and effective course management. By integrating modern digital tools, it ensures a more engaging, accessible, and streamlined approach to education.



## 5 EXISTING SYSTEMS AND THEIR DISADVANTAGES



## ûdemy







- Limited interactivity in courses compared to traditional classrooms.
- Some courses focus more on theoretical knowledge rather than practical application.
- Certain courses follow a fixed schedule, limiting flexibility.

- Course quality varies as anyone can create and sell courses.
- No structured learning path or formal accreditation.
- Limited instructor interaction and feedback.

- Courses are more creative and hobbyfocused, lacking technical or academic depth.
- No certification or accreditation for completed courses.
- Course quality can vary since anyone can become an instructor.

- Primarily focuses on academic subjects, limiting professional and career-oriented courses.
- No certification is provided for completed courses.
- Content can be less engaging for advanced or professional learners.

- Courses often follow a fixed schedule, making self-paced learning difficult.
- Some courses lack practical applications or hands-on projects.
- Limited opportunities for direct interaction with instructors.





### PROPOSED SOLUTION

A digital platform designed to surpass the constraints of traditional education offers flexible, accessible, and personalized learning opportunities anytime, anywhere. It incorporates two user roles: Student and Instructor, each with a tailored dashboard. Instructors have the capability to create and manage courses with multimedia, assignments, and assessments, while students can enroll, access content, complete tasks, and receive immediate feedback. The platform provides real-time progress tracking and integrated communication tools, featuring a structured yet adaptable course flow for a dynamic learning experience. It's scalable to support large audiences without sacrificing performance and focuses on automation, interactivity, and data-driven feedback. Engineered for remote accessibility and future-ready education.



#### 1. LOGIN & COURSE ACCESS:

- Login with username/password.
- New users get personalized courses; returning users access enrolled courses.



## 2. COURSE PROGRESS & TRACKING:

- Dashboard shows course progress.
- Includes graphical progress representation.



#### 3. QUIZZES & ASSIGNMENTS:

- Weekly quizzes/assignments count for 50% of the score.
- Track performance weekly.



#### **COURSE PORTFOLIO INTEGRATION:**

Enable users to create a digital portfolio showcasing completed courses, projects, and skills, dynamically generated from an SQL database to prevent tampering.

## STUDENT MODULE



## 4. BADGE & REWARDS:

Badge and achievement eligibility is fully customizable and defined by the client. Instead of using preset platform-wide criteria, each client can set their own requirements for badge tier

Tiered Benefits:
 Participants will be eligible for tiered benefits: Bronze Tier,
 Silver Tier, Gold Tier
 Benefit: Discount on paid courses



## 6. NOTIFICATIONS & REMINDERS:

- Receive alerts for assignments and quizzes.
- Get reminders for live sessions.



#### 5. DOUBT CLEARING:

- Attend weekly live sessions.
- Access video solutions for FAQs.



## 7. FEEDBACK & RECOMMENDATIONS:

- Submit feedback forms.
- Get personalized course recommendations.



### PROOF-OF-KNOWLEDGE CERTIFICATES:

Certificates remain valid only if users periodically prove their knowledge.
Failure to pass the assessment temporarily invalidates the certificate until retested.





## INSTRUCTOR MODULE



## 1. INSTRUCTOR LOGIN & DASHBOARD

- Login with User ID and password.
- Access dashboard to manage courses and student interactions.



#### 2. COURSE MANAGEMENT

- Upload video lectures, create assignments, and set quizzes.
- Define course details (duration, syllabus, fees, and ratings).



#### 3. STUDENT INTERACTION & SUPPORT

- Monitor student doubts and provide clarifications.
- Conduct weekly live sessions and offer recorded explanations.



#### 4. PERFORMANCE TRACKING

- Analyze student progress and quiz/assignment performance.
- Provide personalized feedback to improve learning outcomes.



#### **5. NOTIFICATIONS & UPDATES**

- Receive real-time alerts for student queries and course updates.
- Send reminders for assignments, exams, and live sessions.

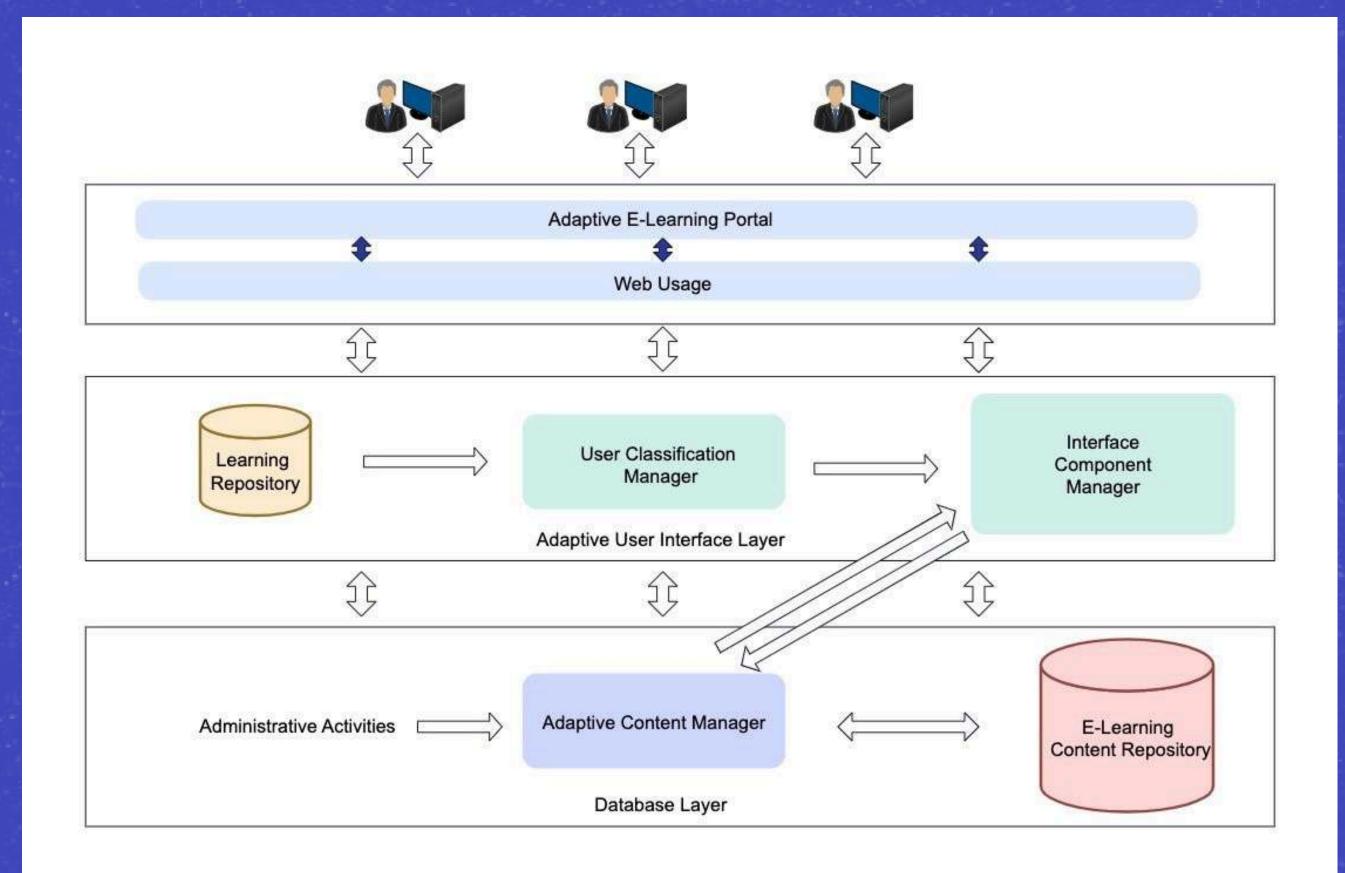


## 6. FEEDBACK & COURSE ENHANCEMENT

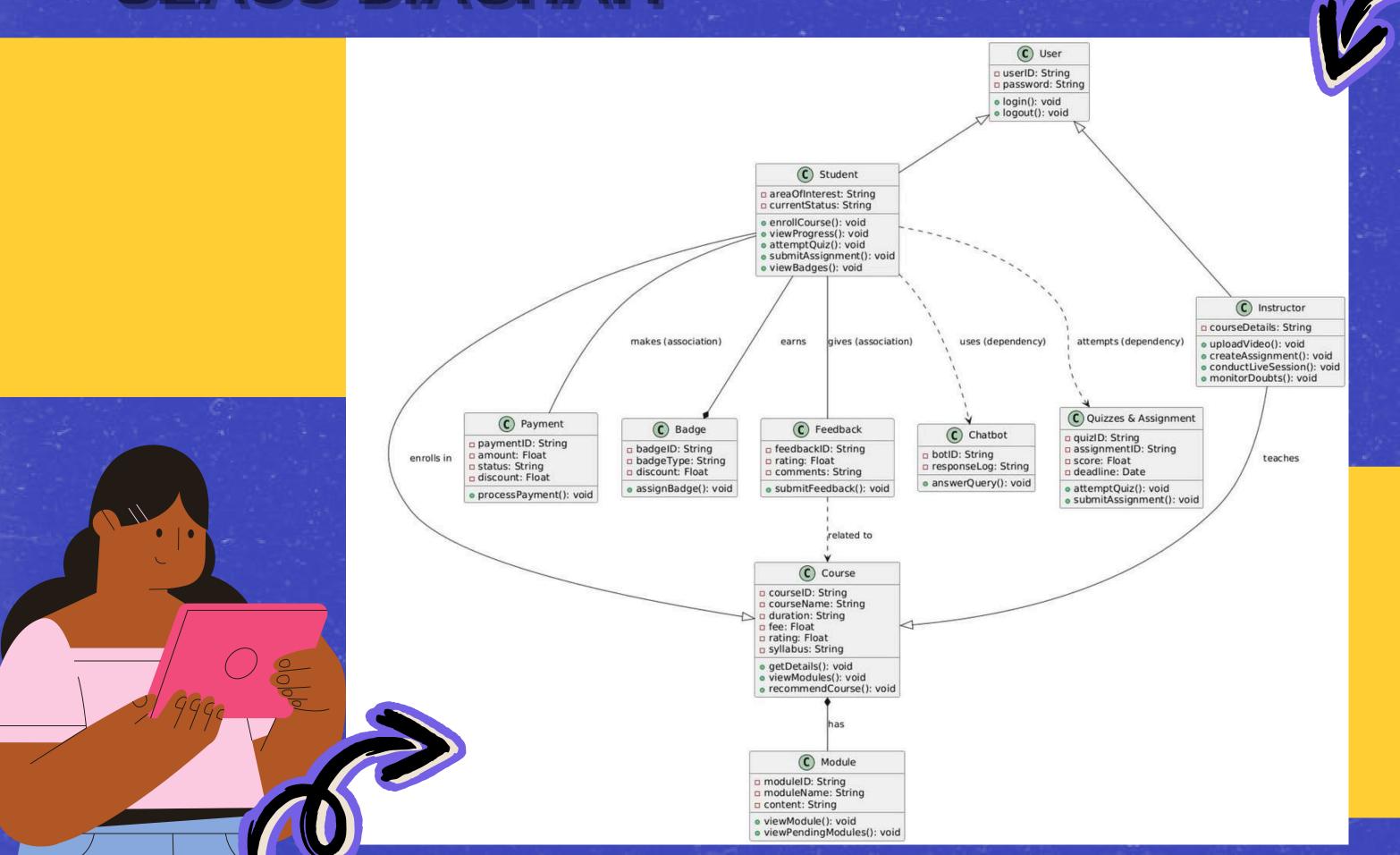
- Collect student feedback to improve course content.
- Get course recommendations based on student demand.



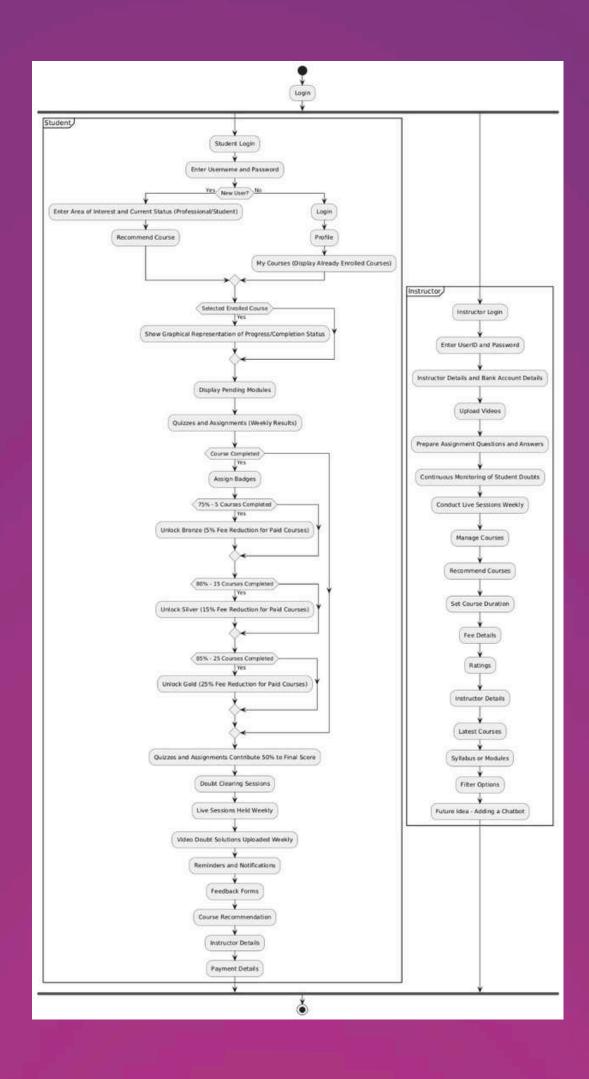
# ARCHITECTURE DIAGRAM



## CLASS DIAGRAM



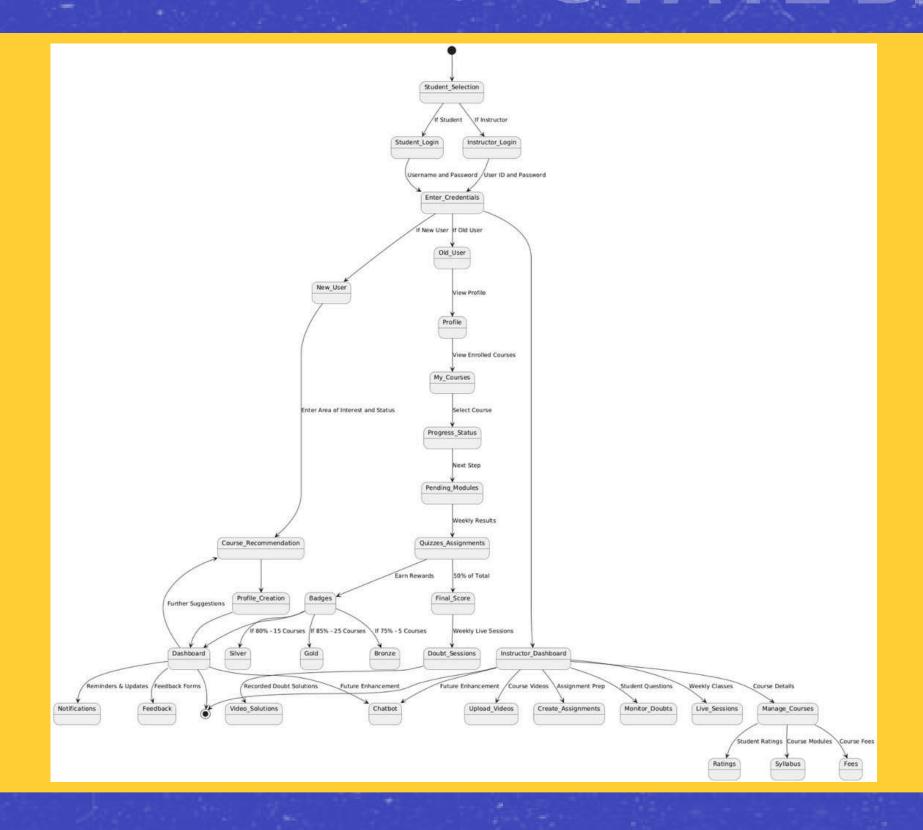






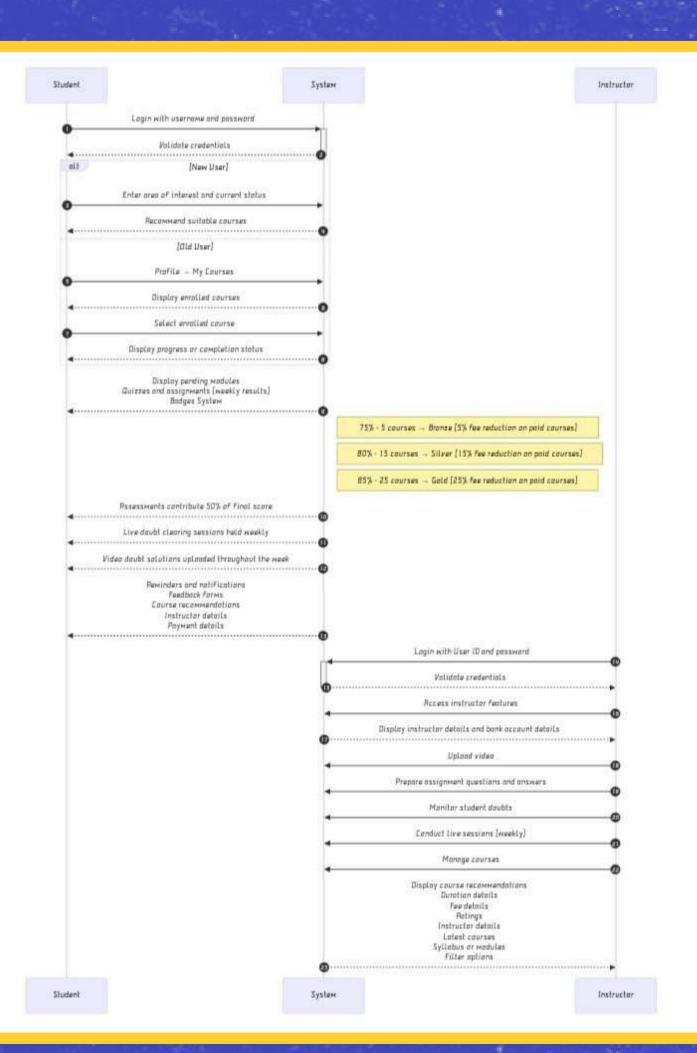


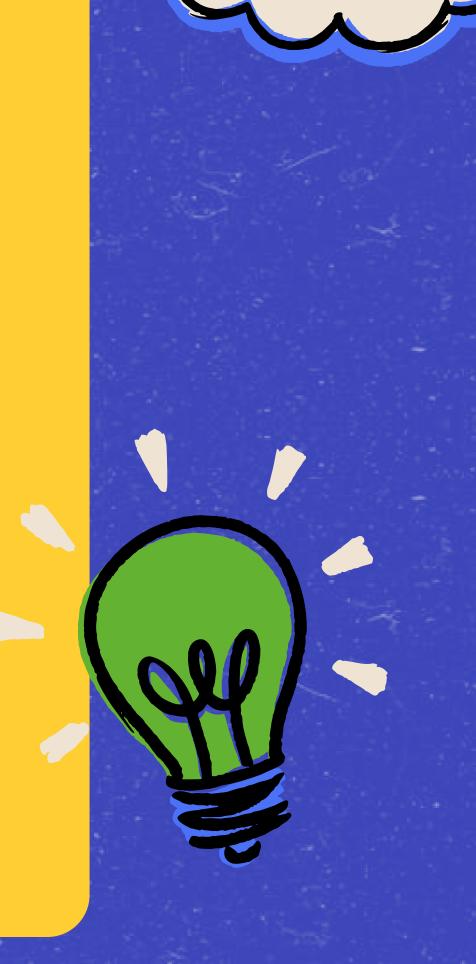
# STATE DIAGRAM



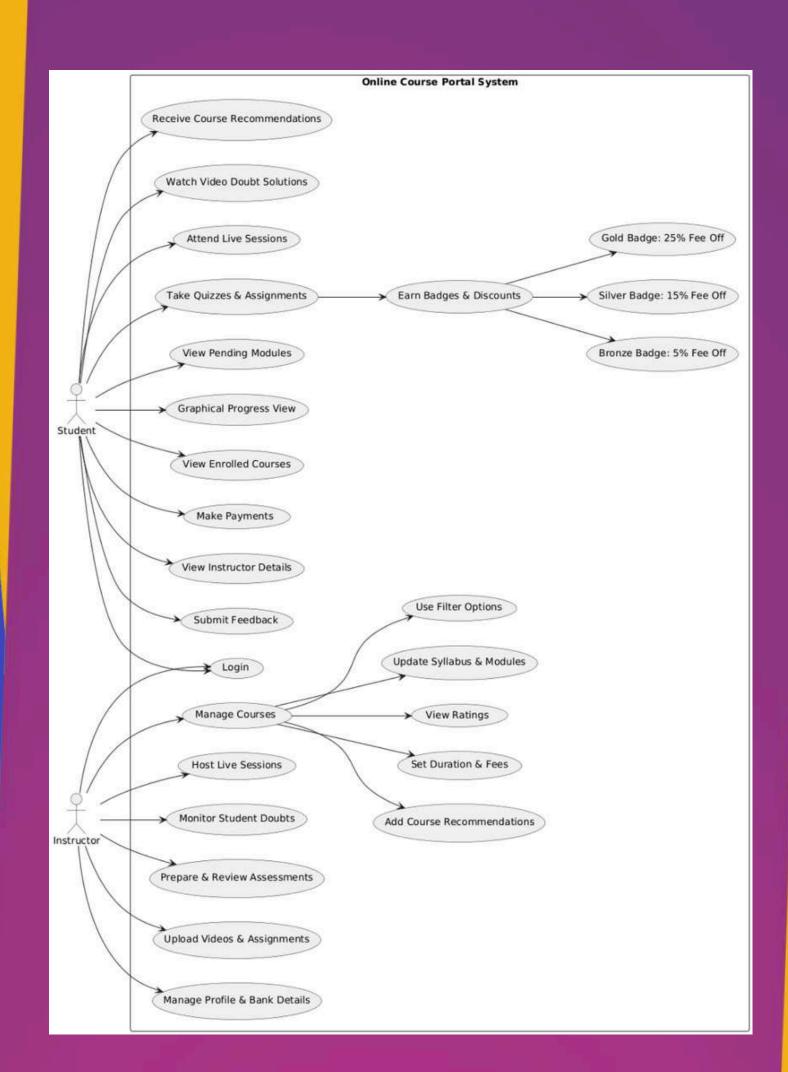
## SEQUENCE DIAGRAM





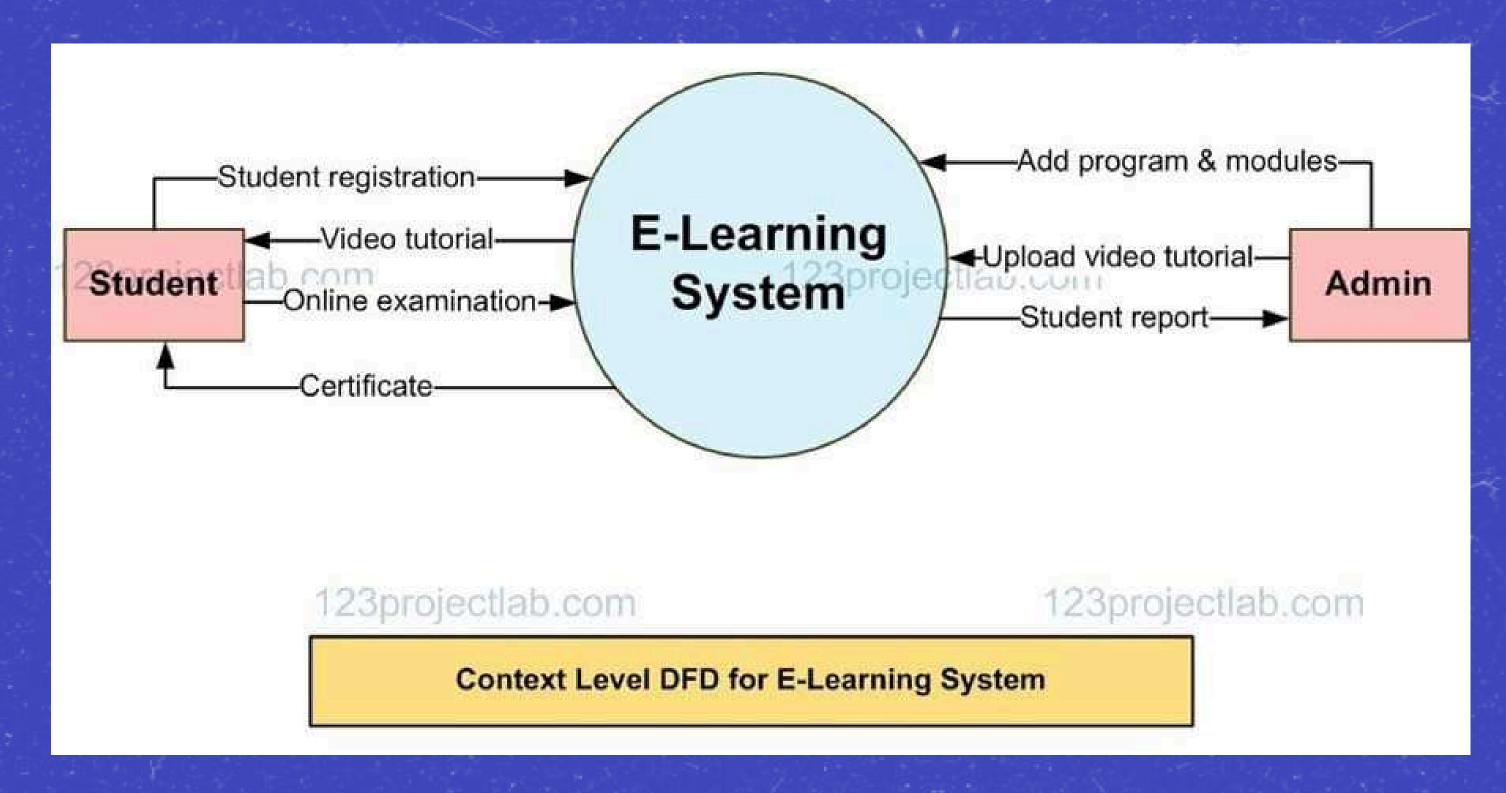


# USECASE DIAGRAM

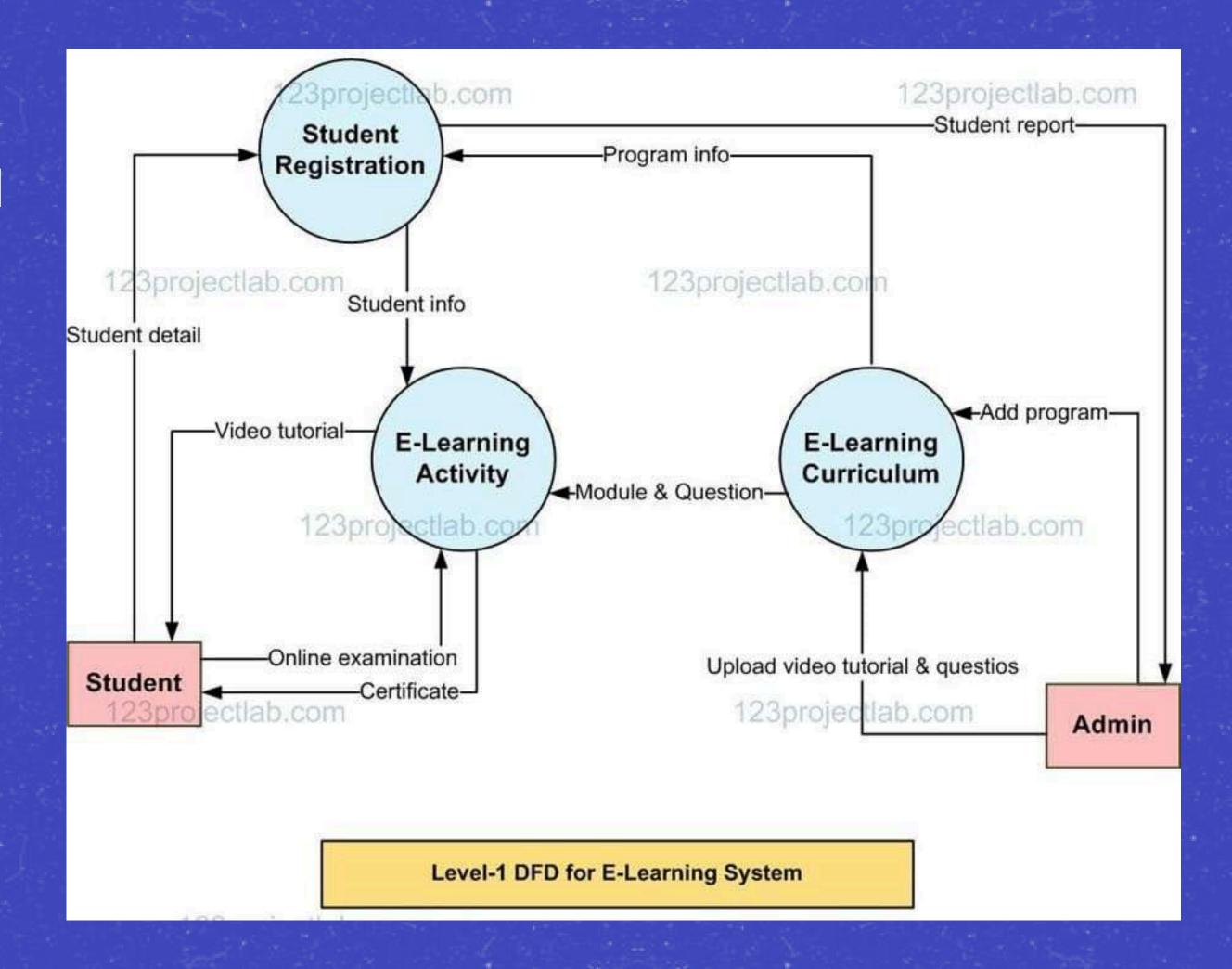




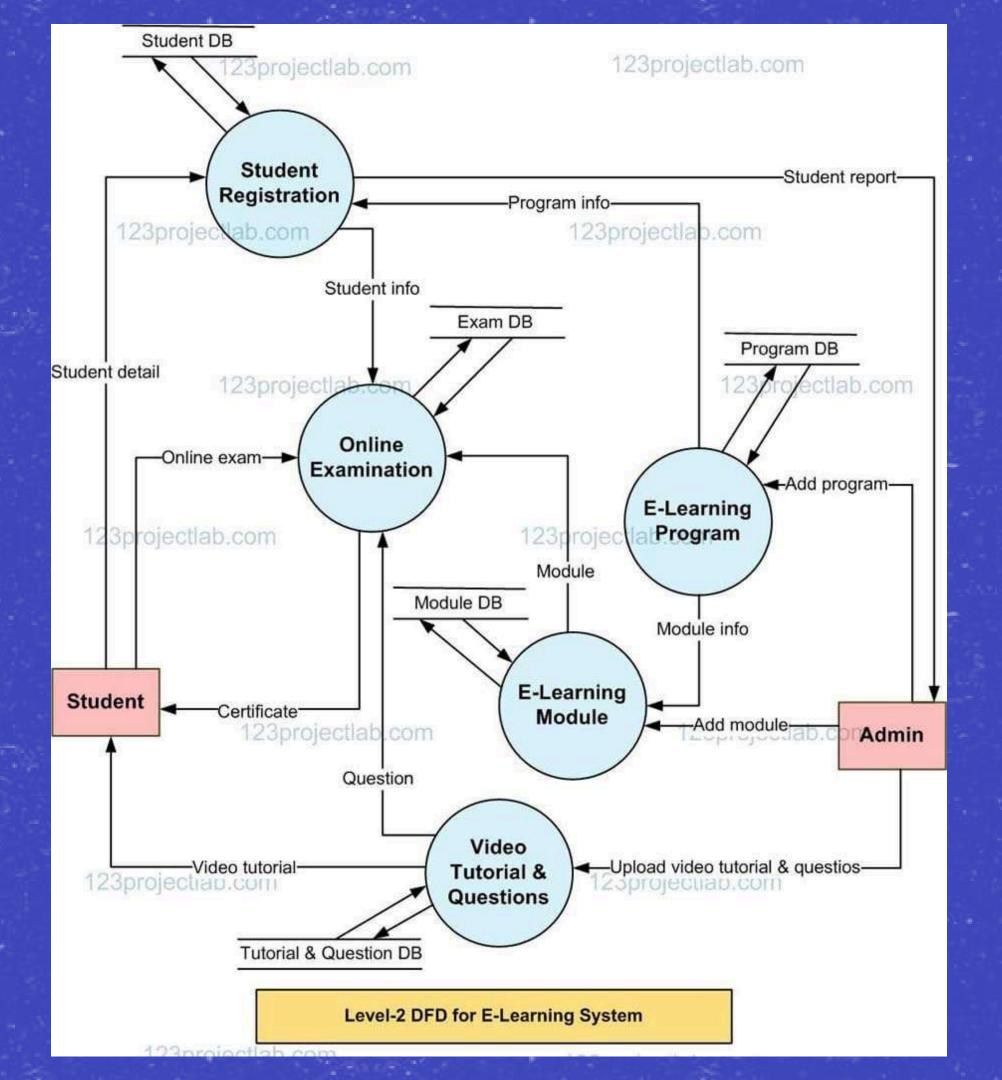
# ZERO LEVEL DATAFLOW DIAGRAM



# FIRST LEVEL DATAFLOW DIAGRAM



# SECOND LEVEL DATAFLOW DIAGRAM



## **ASSUMPTIONS**

## Users access the portal through modern and updated web browsers.

Example: A student using the latest version of Google Chrome or Firefox can navigate the platform without compatibility issues

### Every registered user provides a valid and unique email address.

Example: During registration, the system accepts student123@gmail.com only if it hasn't been used before.

## Instructors are authenticated and authorized to manage course content.

Example: An instructor account is verified by the admin team before being allowed to upload lectures and assessments.

## Students enroll in courses before accessing course materials and features.

Example: A student must enroll in the "Data Structures" course to access its video lectures, quizzes, and resources.

## All uploaded content adheres to platform-supported formats such as MP4 for videos and PDF for documents.

Example: An instructor uploading a tutorial uses MP4 format to ensure it plays correctly on all student devices.

## A stable internet connection is available for users during learning sessions.

Example: Smooth video playback and real-time quiz submissions require a continuous internet connection.

## Platform notifications and updates are delivered within the portal interface.

Example: Students receive real-time updates on assignment deadlines directly on their dashboard.

## Users securely manage their login credentials and utilize the recovery option when needed.

Example: If a user forgets their password, they reset it through the "Forgot Password" feature without admin intervention

## All users engage respectfully and responsibly within discussion forums and messaging features.

Example: Students post constructive questions and feedback while adhering to the platform's code of conduct

## The platform is maintained for high availability, with prior notice given for scheduled maintenance.

Example: Users are notified 24 hours in advance if the system is undergoing updates to ensure minimal disruption.







## Let's sign you in

Welcome to our Page Sign Up

**Account Type** 

Student



Username

Jaya

**Password** 



■ Keep me logged in

Sign In







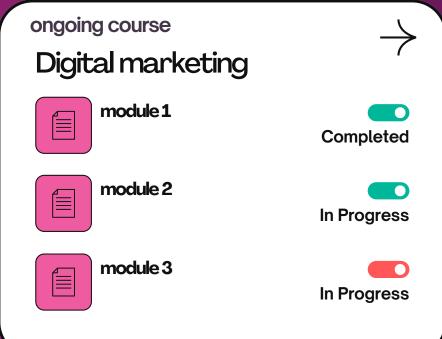


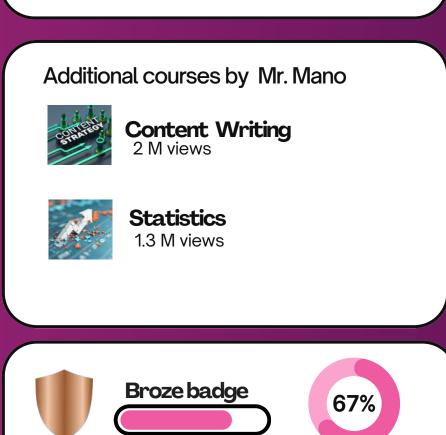
- Dashboard
- Courses enrolled
- Account
- Notification
- Settings
- → Logout
- Support forum
- Help

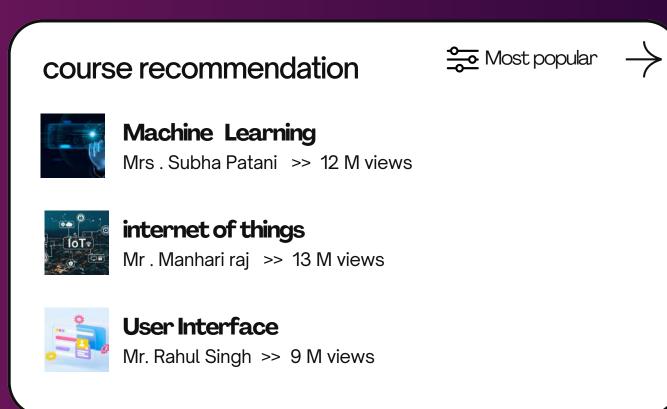


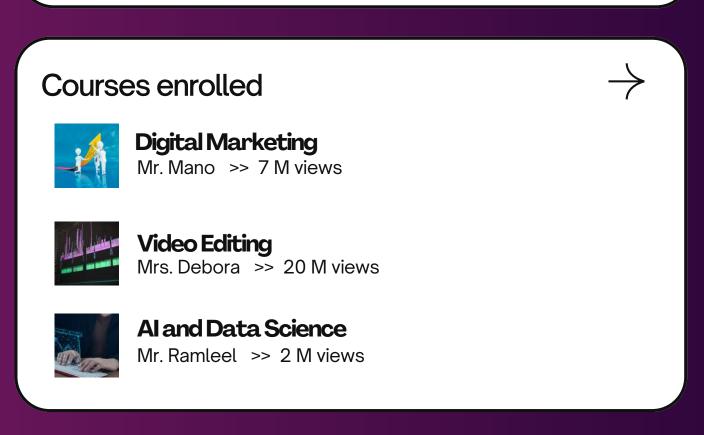
## Jaya bharathi

### **Dashboard**

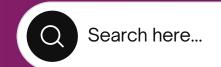


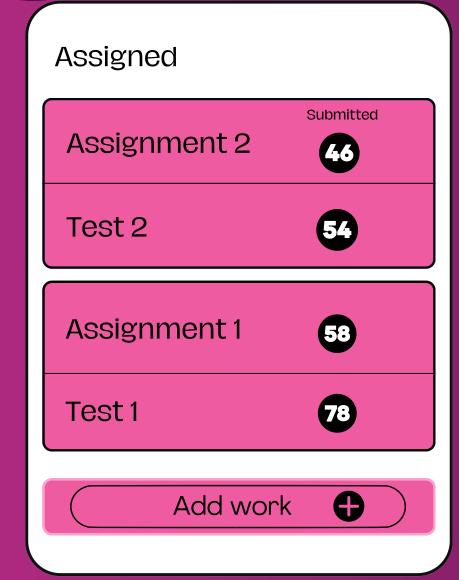


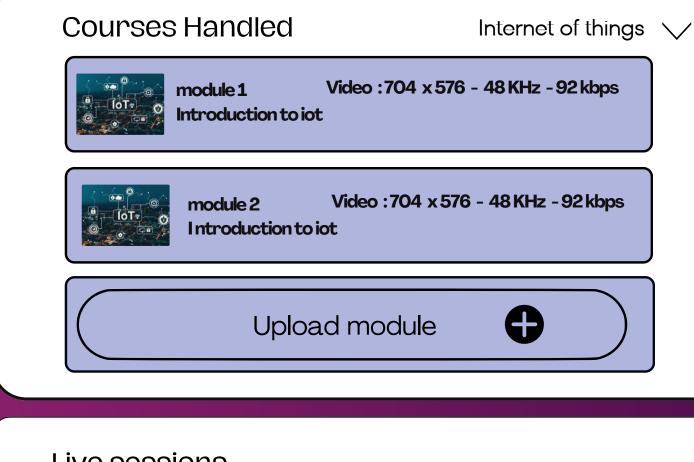


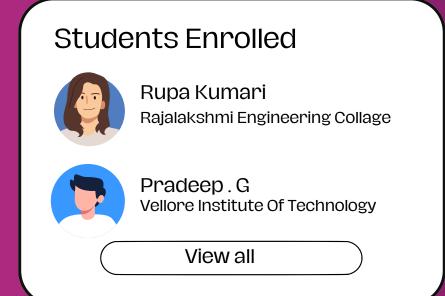


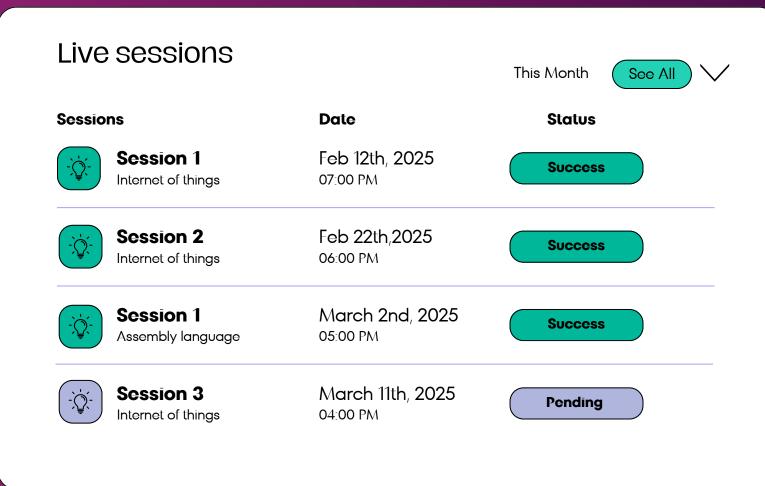




















- Dashboard
- Student assignment
- Courses handled
- Account
- Messages
- Settings
- → Logout
- ବ୍ଲି Student forum
- ? Help

## REFERENCES LINKS

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