

PES UNIVERSITY

(Established under Karnataka Act No. 16 of 2013)

Object Oriented Analysis and Design using Java (UE20CS352) Mini Project

E-PAATHASHALA (E-LEARNING PLATFORM)

TEAM MEMBER DETAILS:

Sanjita Chandan PES1UG20CS380

Shaarvari Kiran PES1UG20CS389

Shyam Krishna K PES1UG20CS422

Siddharth M PES1UG20CS425

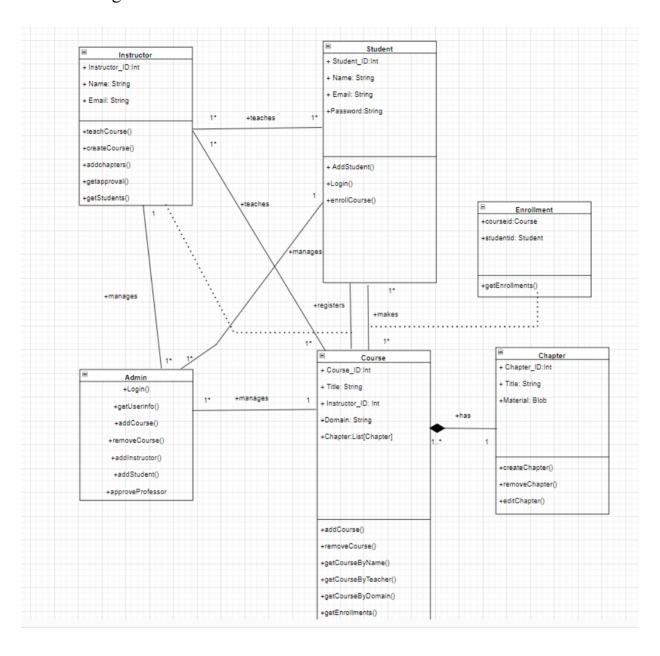
PROBLEM STATEMENT:

Create an e-learning platform using Java that includes a MVC framework along with Frontend.

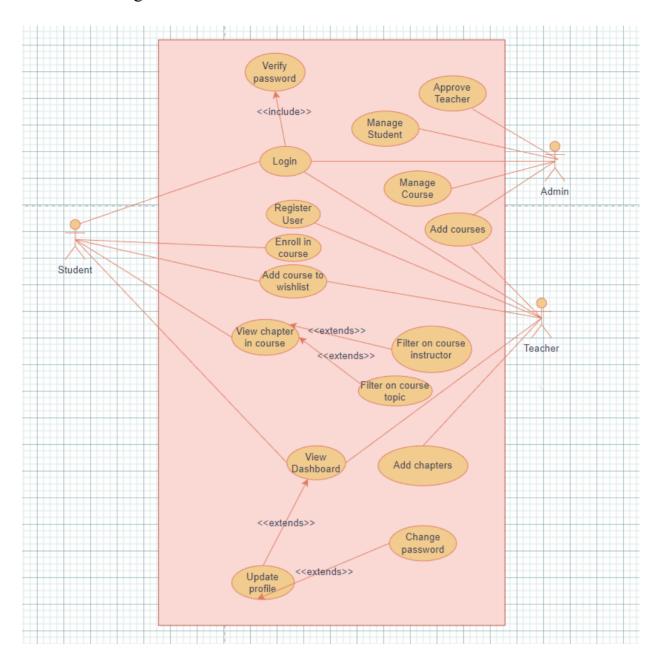
- There should be video-based courses which can be hosted by multiple teachers. The courses should be chapter wise and study materials based on the topic should be provided.
- A filter feature must be implemented where students can view courses offered by their preferred professors and also view all the courses available under a domain.
- The students should be able to enrol for a course and view the material.
- The teacher should be able to create courses, add chapters and view enrolled students.
- The admin must be able to approve teachers, manage students, manage teachers and create courses and chapters.

MODELS:

1. Class Diagram:



2. Usecase Diagram



DESIGN PATTERNS AND PRINCIPLES

Single Responsibility Principle:

- Controllers only handle the incoming requests and delegate the processing to services.
- Services only contain business logic and delegate data access to repositories.
- Repositories only handle data access to the underlying database.
- Models only

Command Pattern:

This behavioral design pattern allows to encapsulate actions as objects, which can be invoked by different clients. In this pattern, a client sends a request to a receiver object, which in turn delegates the request to a command object to perform the necessary actions. We have used it for the GetMapping and RequestMapping methods.

GITHUB LINK

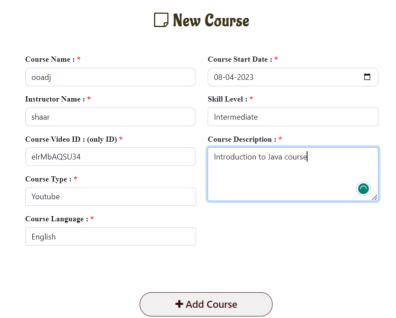
https://github.com/shyamk10/E-Paathashala

INDIVIDUAL CONTRIBUTIONS

- 1. Sanjita Chandan Ballapur (PES1UG20CS380)
 - Create course functionality with model, service, repository and controller
 - Frontend implementation for the same
- 2. Shaarvari Kiran (PES1UG20CS389)
 - Login functionality with authentication using Controller
 - Frontend implementation for the same
- 3. Shyam Krishna K (PES1UG20CS422)
 - Create chapter for course using model, service, repository and controller
 - Frontend implementation for the same
- 4. Siddharth M (PES1UG20CS425)
 - Admin approves/rejects professor using service
 - Frontend implementation for the same

SCREENSHOTS

1. Create course



Course List





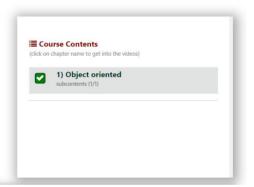
2. Create chapter

NEW CHAPTERS

Course Name: *
ooadj
Please choose course name from the drop-down
Chapter-1 Name: *
Object oriented
Chapter-1 URL: *
drQK8ciCAjY
Please Provide the Chapter-1 video ID as the URL here
+ Add
★ Add Chapter

Welcome to ooadj course 👏







3. Enroll in course

ooadj

937NXutdT6Cy

Instructor Name: shaar

Instructor Institution:

Enrolled Date: 2023-04-08

Learners: 1 learners enrolled previously

Course Type: Youtube contents

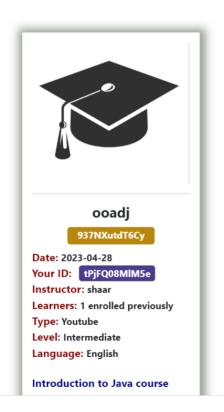
Level: Intermediate

Language: English

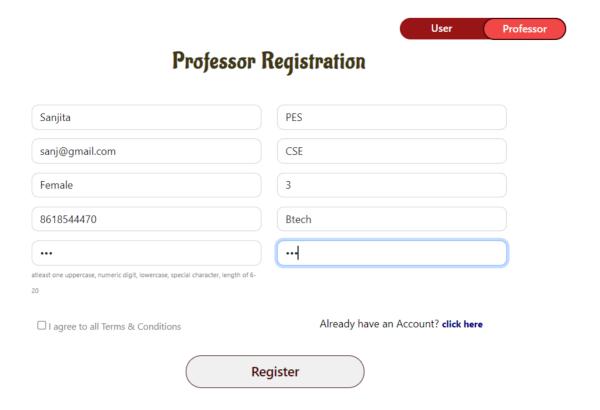
Introduction to Java course



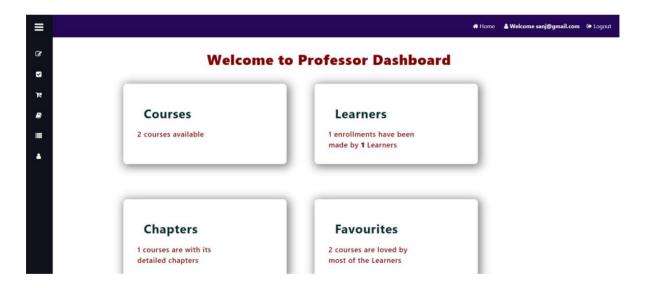
My Learning



4. Create professor



Professor Dashboard



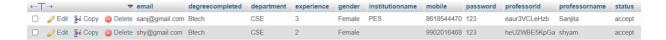
Professor added to the database:



5. Approve professor

Approve Professor Here

IDENTITY	NAME	EMAIL	DEGREE	EXPERIENCE	DEPARTMENT	MOBILE	STATUS
	Sanjita	sanj@gmail.com	Btech	3 years	CSE	8618544470	Accept Reject
	shyam	shy@gmail.com	Btech	2 years	CSE	9902016468	Accepted



6. Add wishlist

ooadj

937NXutdT6Cy

Instructor Name: shaar

Instructor Institution:

Enrolled Date: 2023-04-08

Learners: 1 learners enrolled previously

Course Type: Youtube contents
Level: Intermediate
Language: English

Introduction to Java course











7. View Statistics

