COURSE REGISTRATION SYSTEM

GROUP 1

Flipkart JEDI 7

AGENDA

01 OUR JOURNEY
02 MEET THE TEAM
03 THE PROBLEM STATEMENT
04 DEVELOPMENT CYCLE
05 TECH STACK
06 UML DIAGRAMS
07 DATABASE SCHEMA
08 CHALLENGES
09 FINAL RESULT
10 FUTURE SCOPE
11 DEMO
12 QUESTIONS?

01

OUR JOURNEY

ACTION PLAN

WEEK 1 (AUG'16 - AUG'22)

UNIX
GIT
UML Diagram

WEEK 2 (AUG'23 - AUG'30)

JAVA 8
Exceptional Handling
SQL
REST API
DropWizard

02

MEET THE TEAM 👋

MEET THE TEAM

ANSHUL SINGH

rookie traveler, CSGO lover, PCMR💗

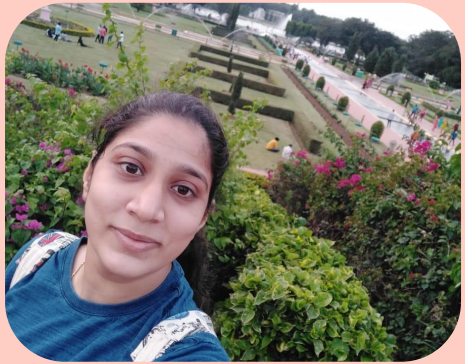
ANURAG AGGARWAL

Afraid of almost everything.
Runs, codes, eats and sleeps.

NIPUN GUPTA

Coffee aficionado, Travelling, cooking ❤

MEET THE TEAM



SREELEKHA NAMUDURI

Addicted to reddit,

Cooking,Travelling

UDIT KUMAR

The Silent One

KUSH GHILOTHIA

Epicurean, Cricket lover

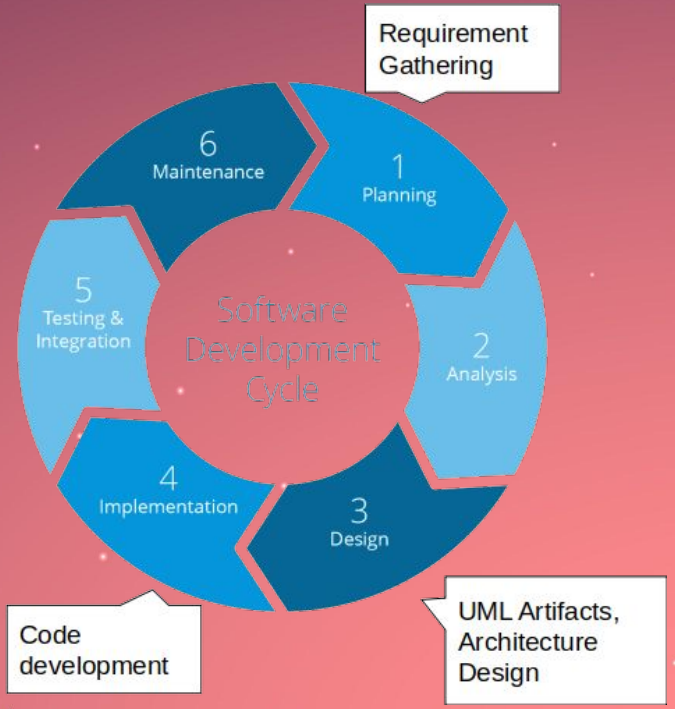
RESPONSIBILITIES

NAME	RESPONSIBILITIES
Anshul and Nipun	Database Design, Use-Case Diagram, Admin Functionalities.
Sreelekha and Udit	Sequence Diagram, Activity Diagram, Student Functionalities
Anurag and Kush	Class Diagram, Professor Functionalities, Documentation

03

THE PROBLEM STATEMENT

To develop a POS application and REST API for Course Registration System using JAVA where the student can register, add/drop course, professors can view courses, enrolled students while admin can manage users, add/drop courses to catalog



04

DEVELOPMENT CYCLE

05

TECH STACK 💻

TECH STACK

UML

Lucidchart

Core Language

Java

Framework

Maven

Jersey

REST API

Application Server

Apache Tomcat

Tools

POSTMAN

Advanced REST client

SQL Database

MySQL

Navicat

Code Collaboration

GitHub

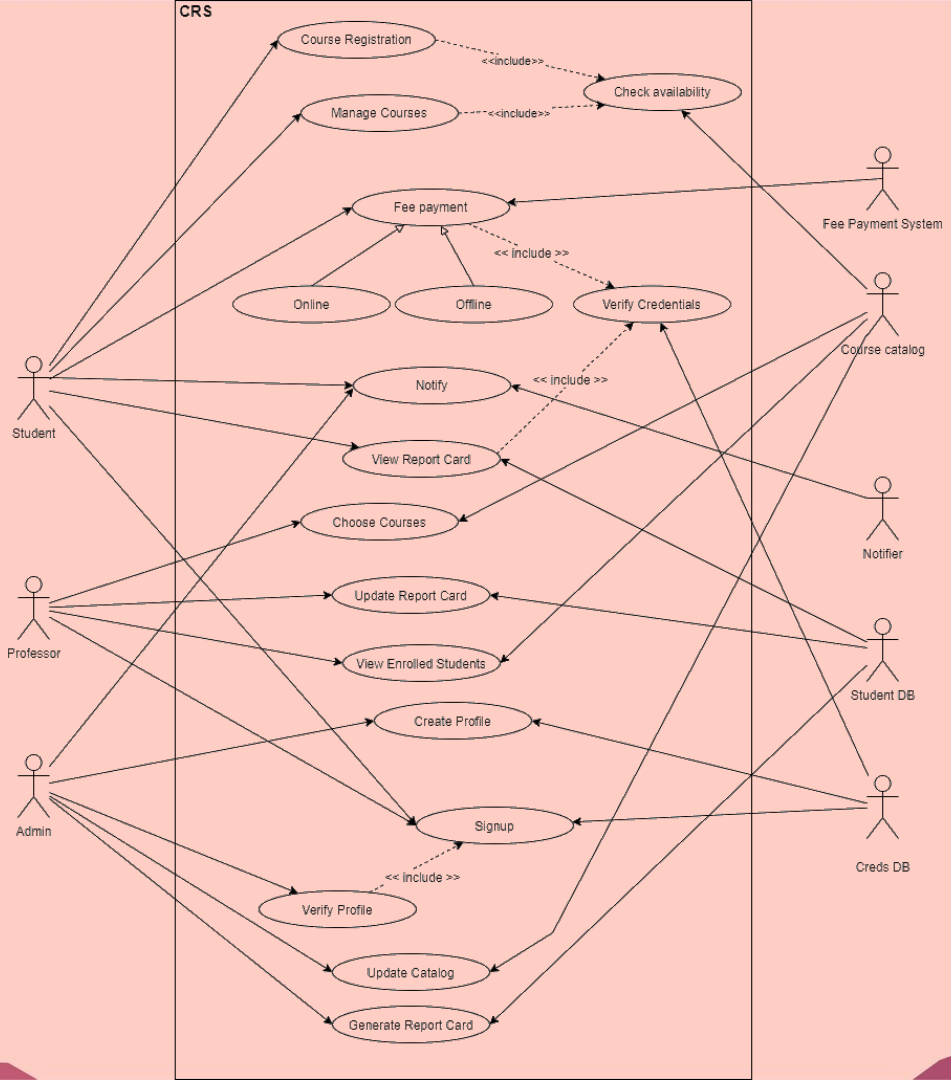
git

CODEBUNK

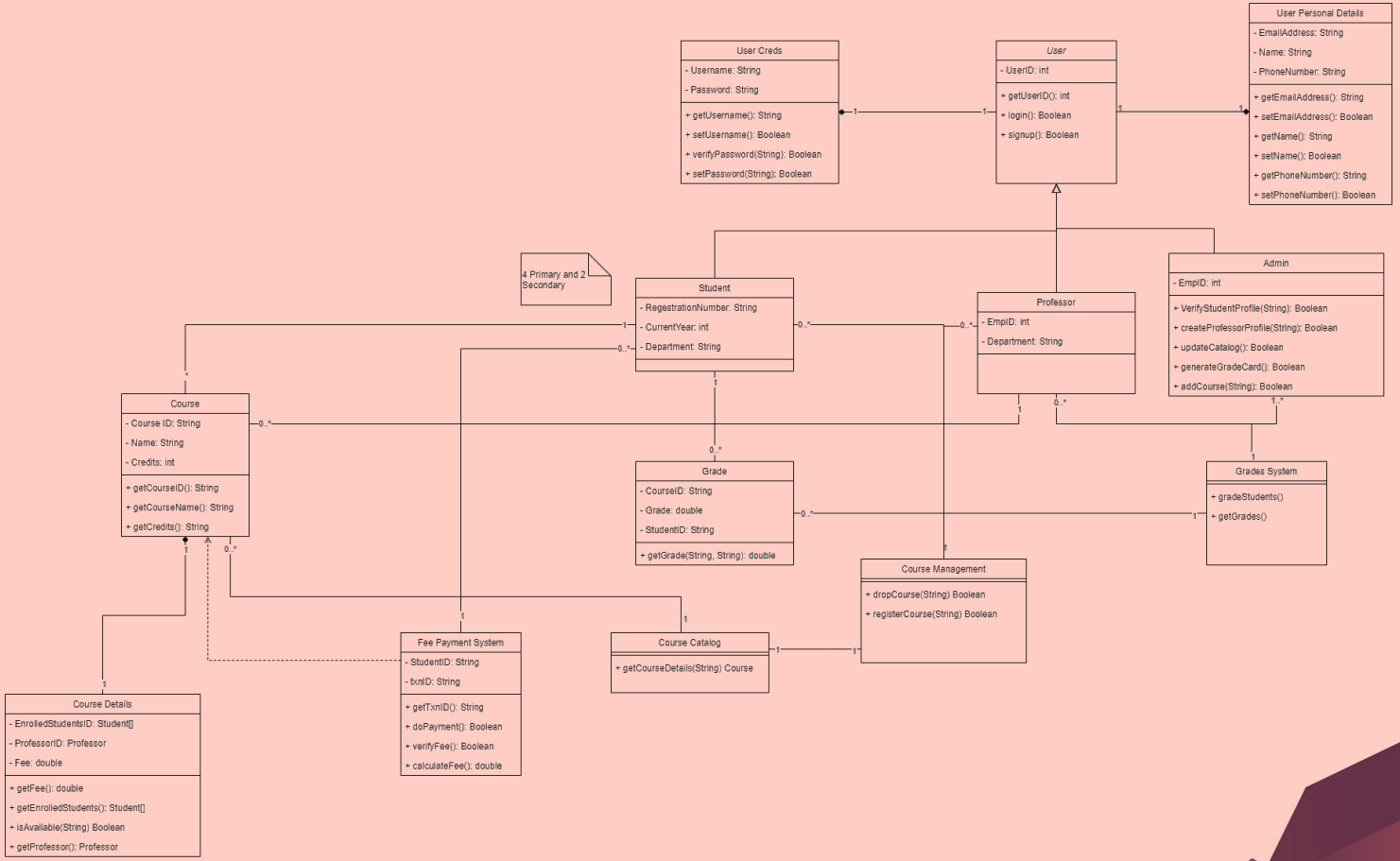
06

UML DIAGRAMS

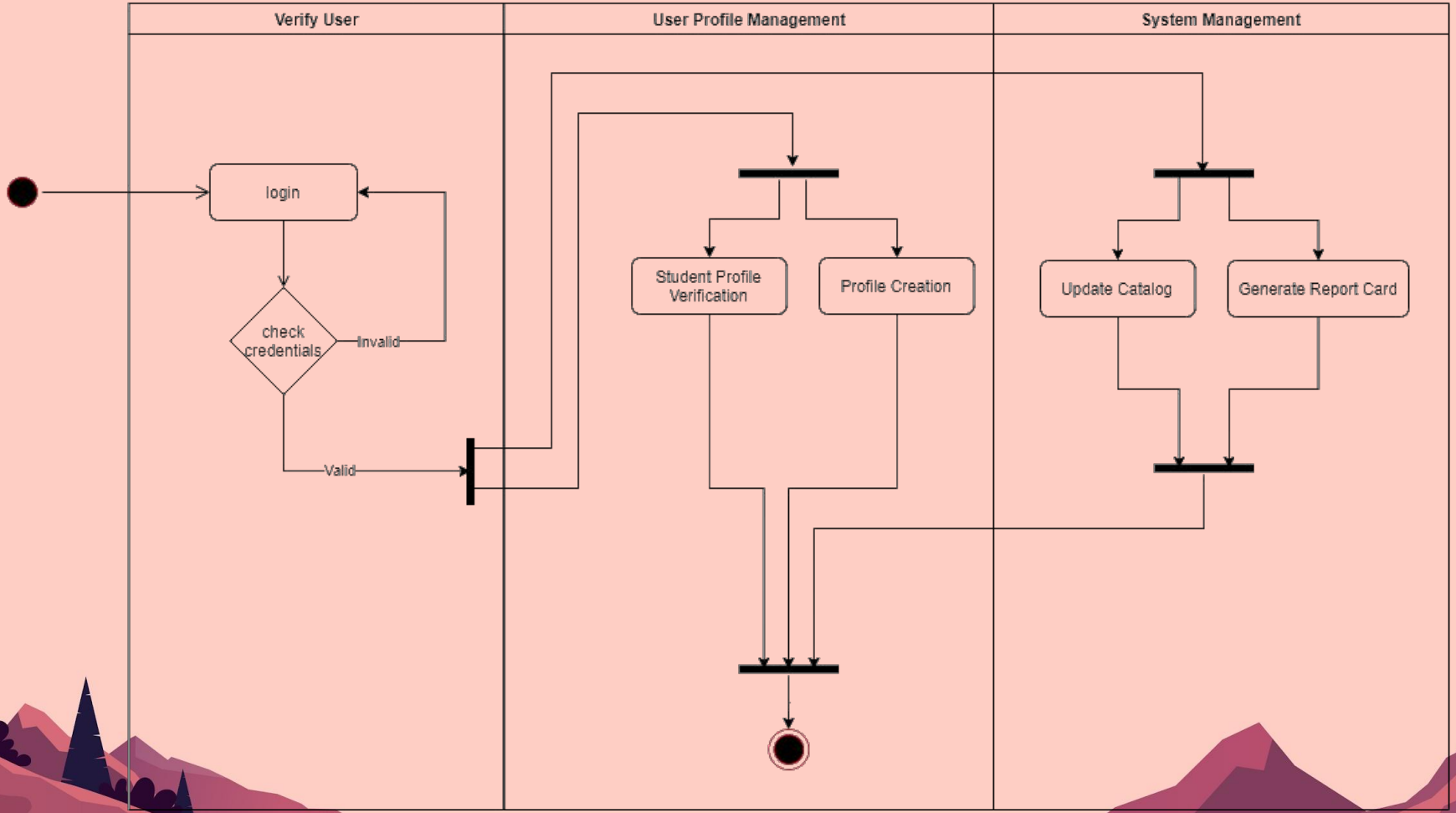
USE CASE DIAGRAM



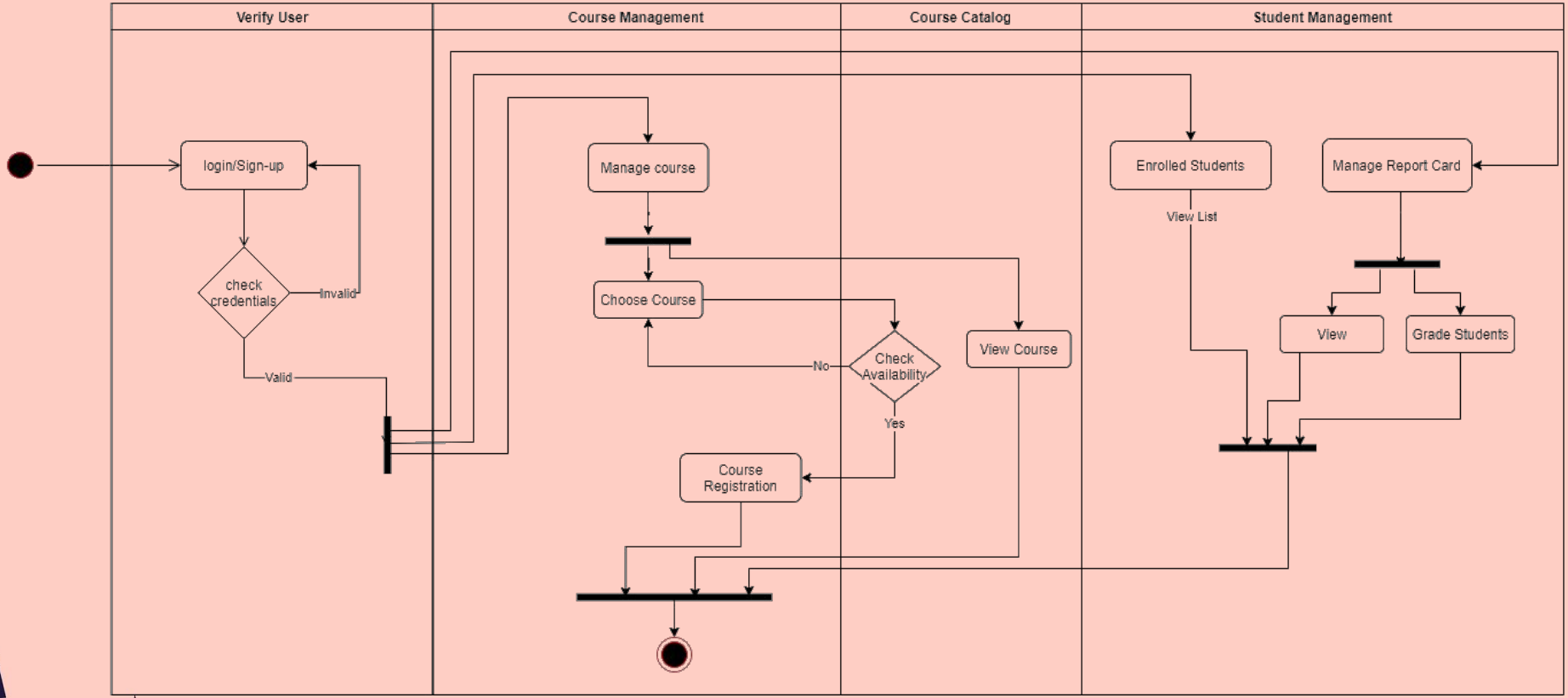
CLASS DIAGRAM



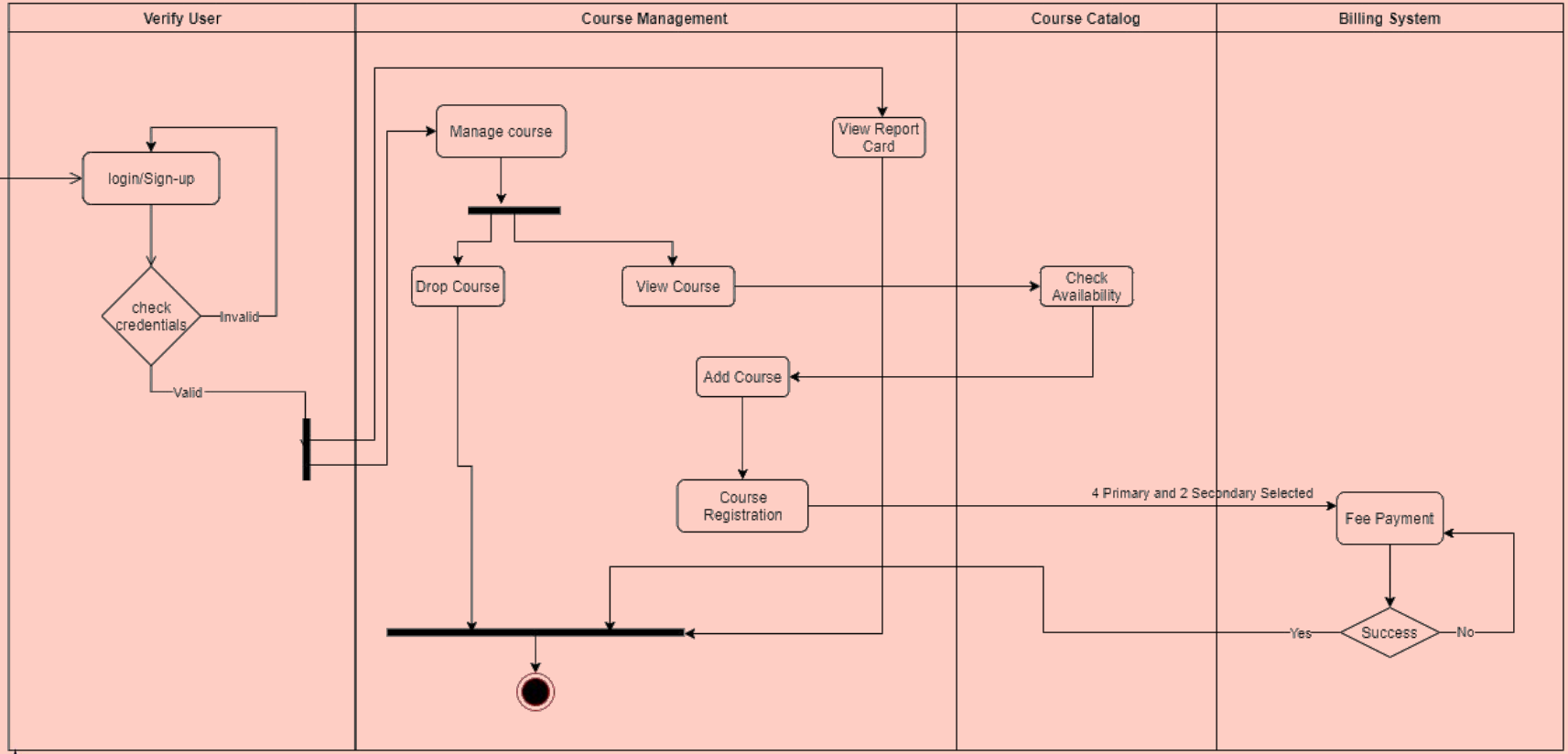
Admin Activity Diagram

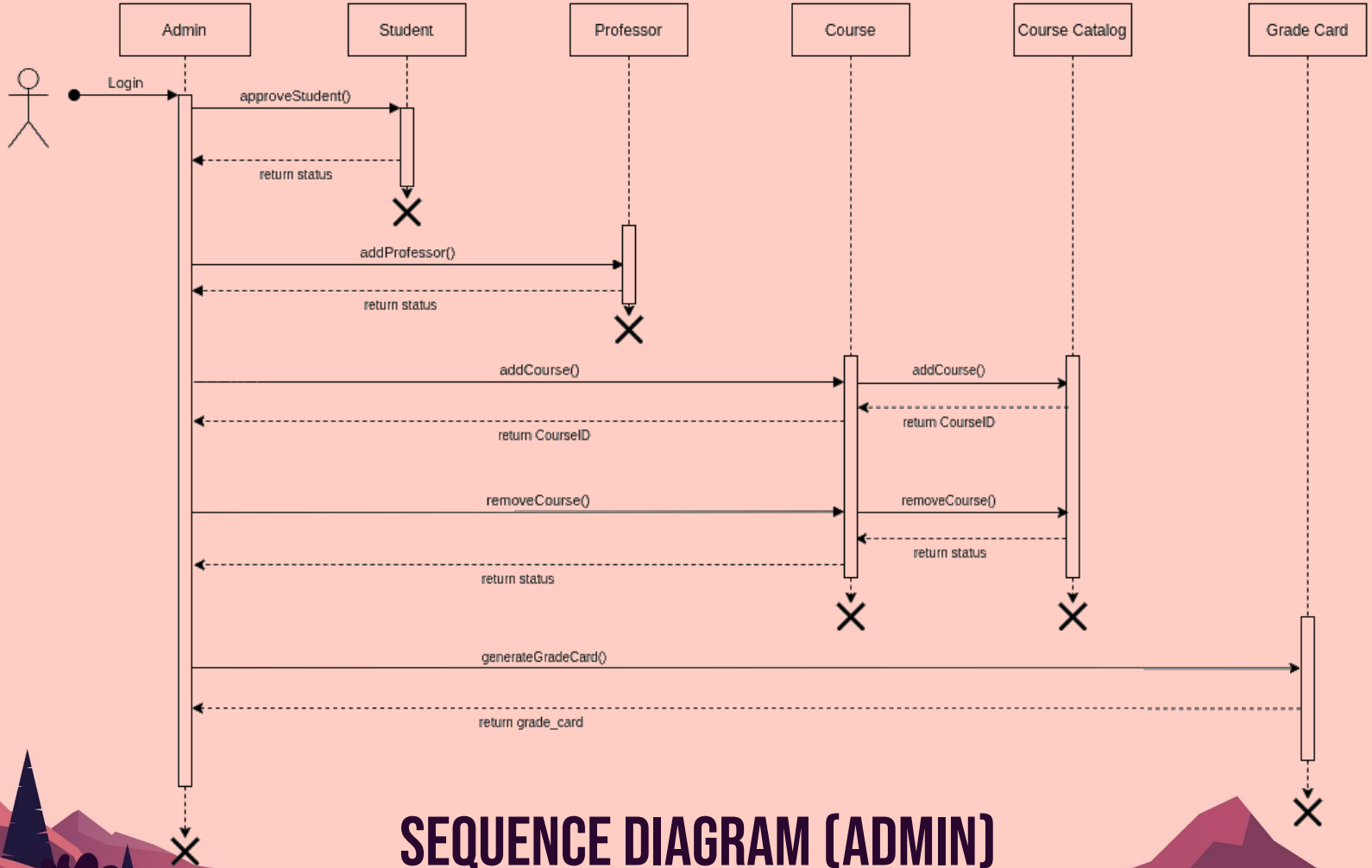


Professor Activity Diagram

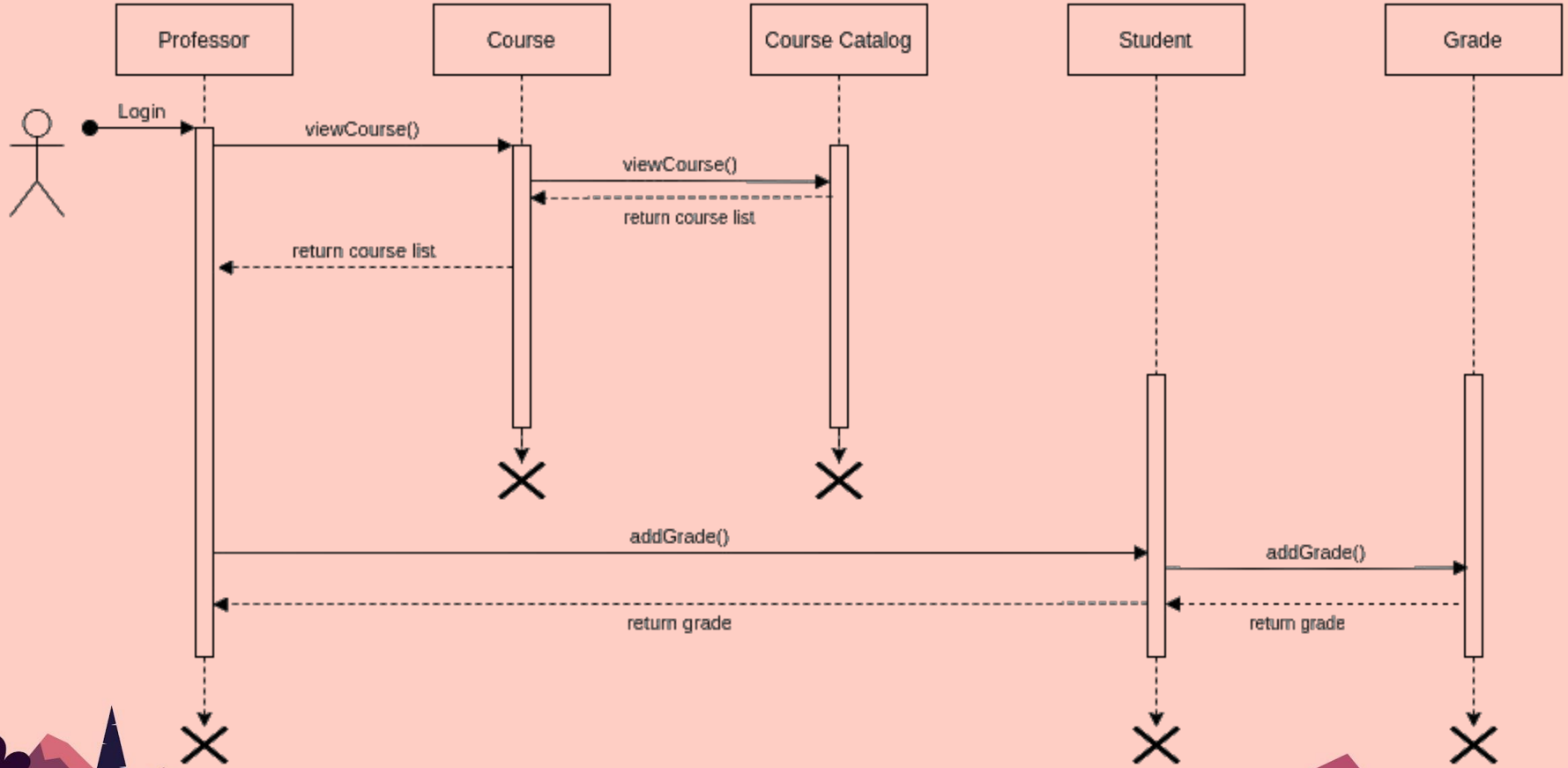


Student Activity Diagram

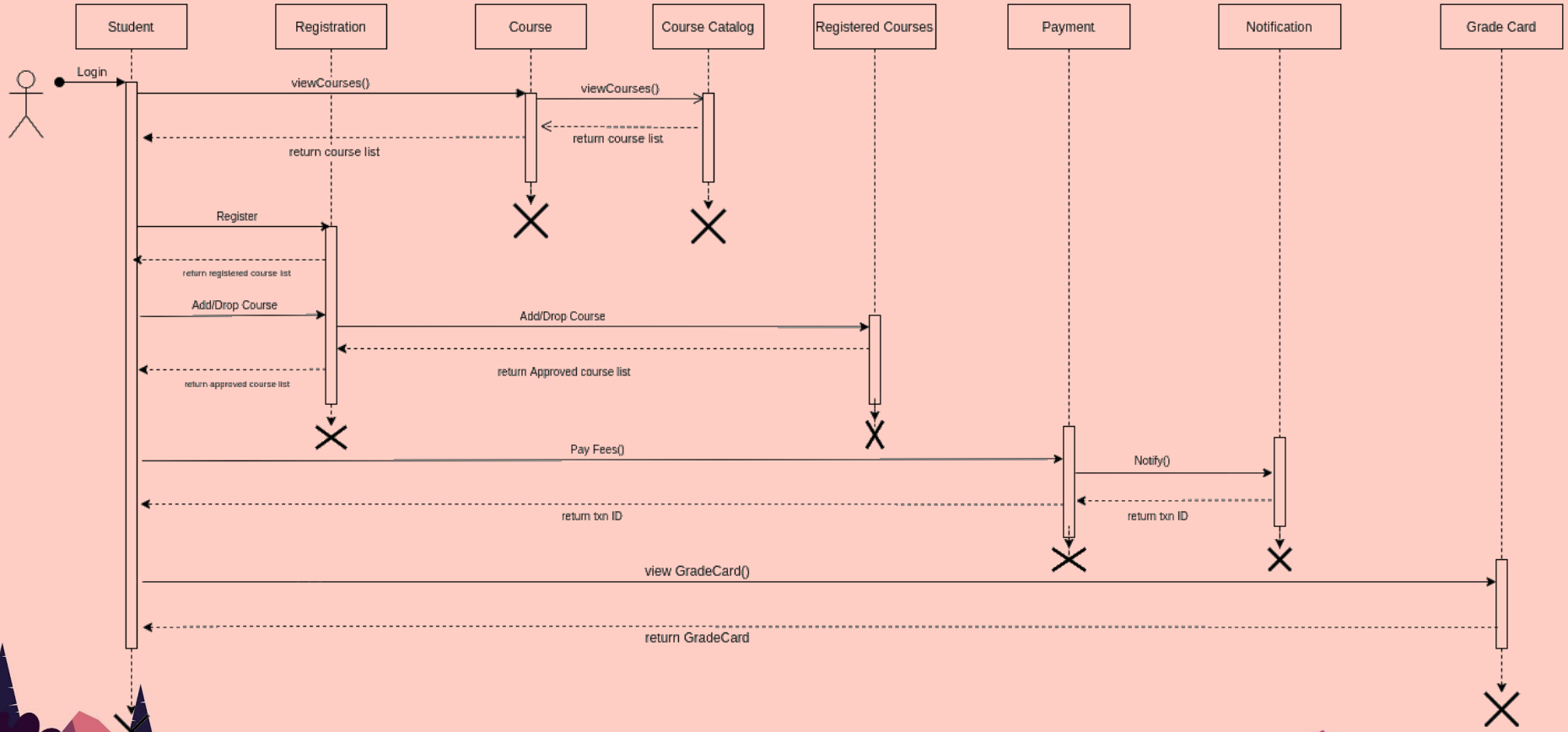




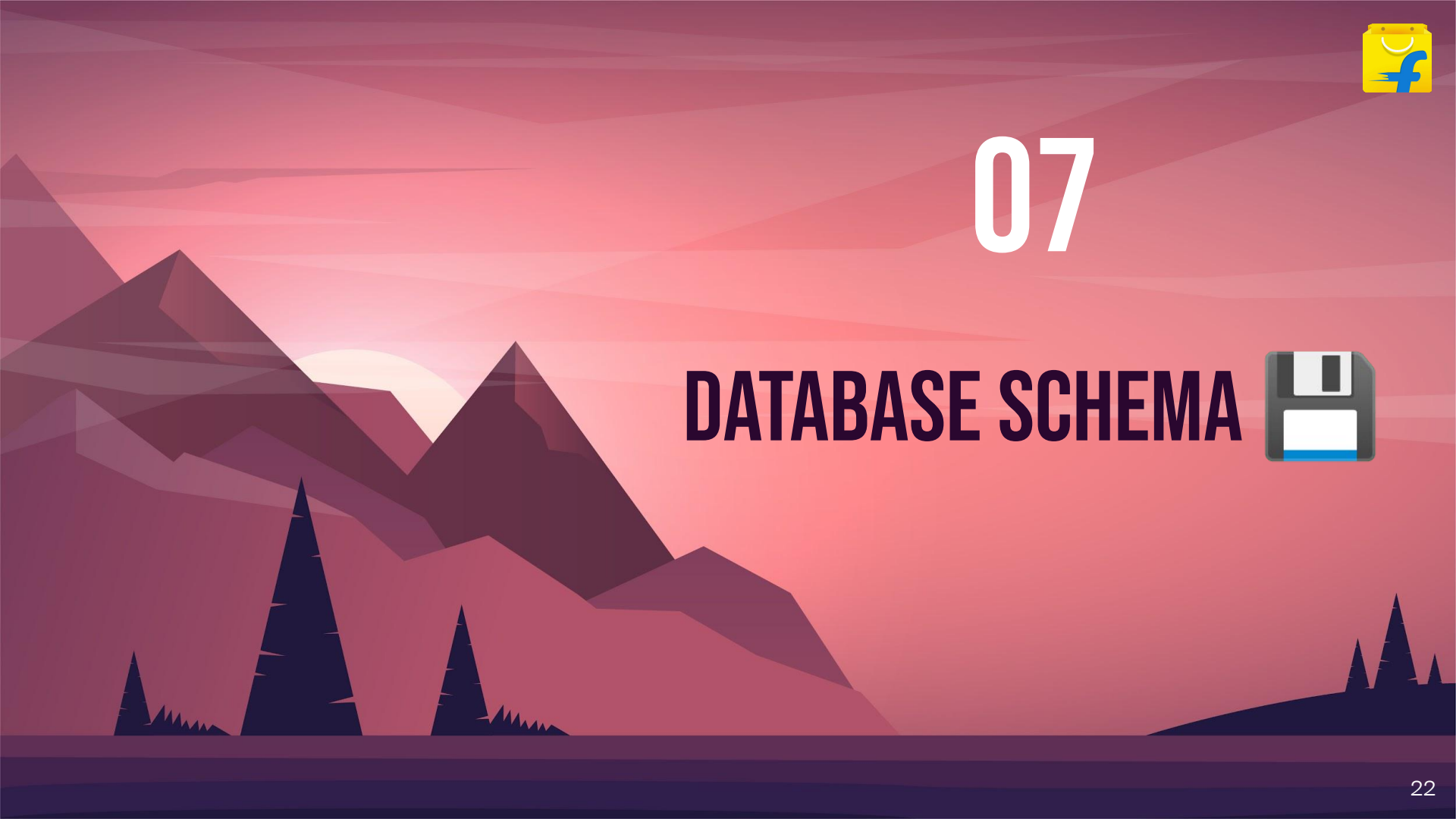
SEQUENCE DIAGRAM (ADMIN)



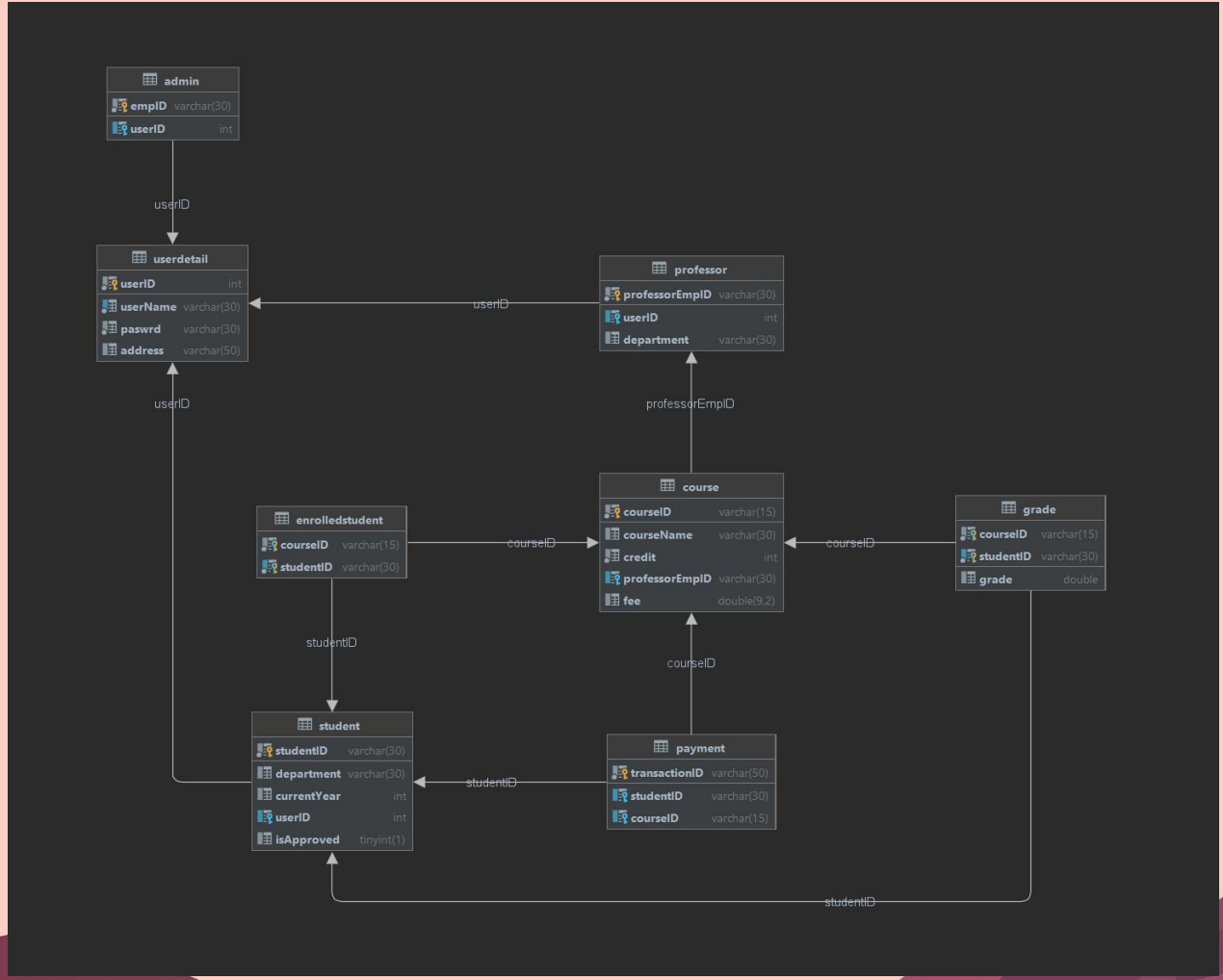
SEQUENCE DIAGRAM (PROFESSOR)



SEQUENCE DIAGRAM (STUDENT)


07
DATABASE SCHEMA

DATABASE SCHEMA



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CHALLENGES 🚧

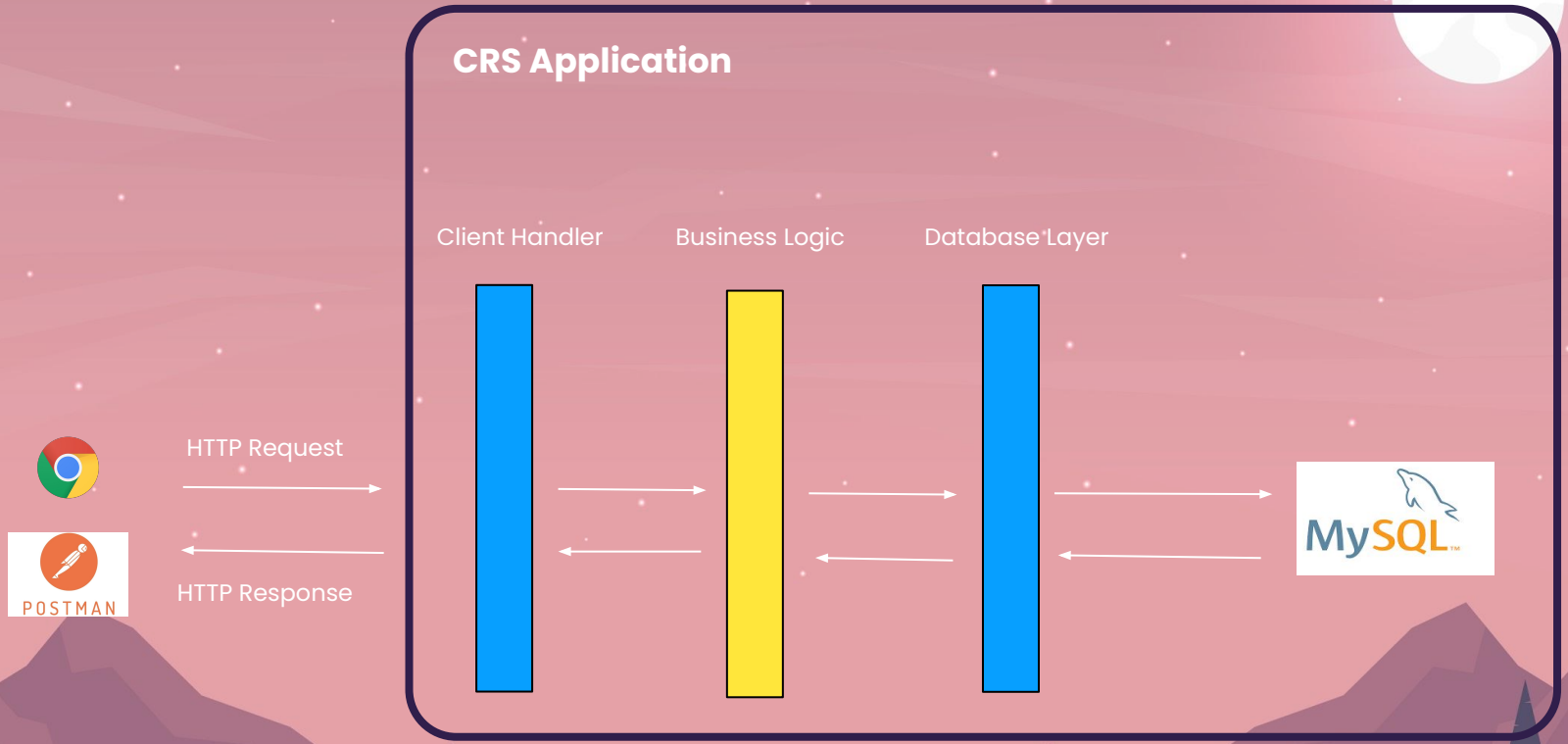
HURDLES

- ➔ Understanding the problem statement
- ➔ Collaboration issues such as merge conflicts in Git
- ➔ UML diagram conventions
- ➔ Installation of softwares on multiple environments and version compatibility issues
- ➔ POS application development using layered architecture(issues with creating file structure)
- ➔ Running Apache TomCat server

09

FINAL RESULT 🔥

ARCHITECTURE



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FUTURE SCOPE

1. Notification to Professor when a student enrolls in their course.
2. Daily Cron Job to Email admin about pending approval for new sign ups.
3. Option to block a student/ remove a student and make the course available correspondingly.
4. Better auth token creation - JWT.

11

DEMO

12

QUESTIONS? 🤔

THANK YOU