Majaor Project -2

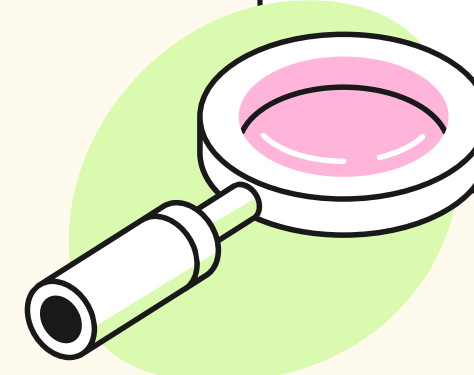# ONLINE LEARNING PLATFORM

STUDY - NOVA

STUDYNOVA

Project Members:

ABHIKANT KUMAR
211B408

Project No: *PP9_P*

Under the Supervision of:

*DR.
PRATEEK PANDEY*

INTRODUCTION

WEB BASED LEARNING PLATFORM

ACCESSIBLE LEARNING

DIVERSE COURSE CATALOG

Virtual Classroom

Live Video/Voice Calls

Collaborative Whiteboard

Screen Sharing

Real-time Chat

MODEL ARCHITECTURE

The platform follows a client-server architecture, with the front end serving as the client and the back end and database serving as the server.

FRONT-END

HTML, CSS, JS & React.js

Dynamic and responsive

Engaging learning experience

BACK-END

build with Node.js and Express.js

Provides APIs for the front end

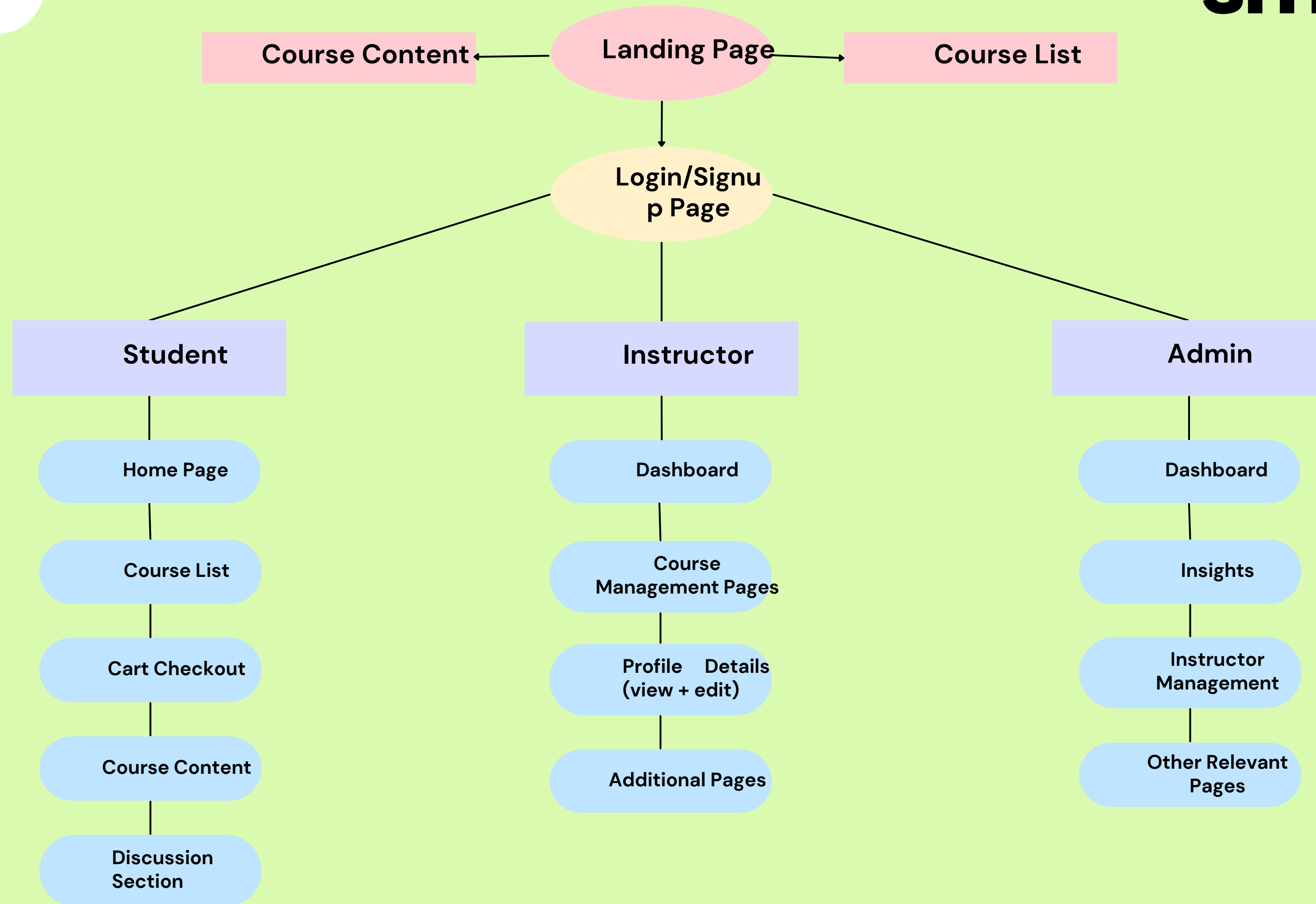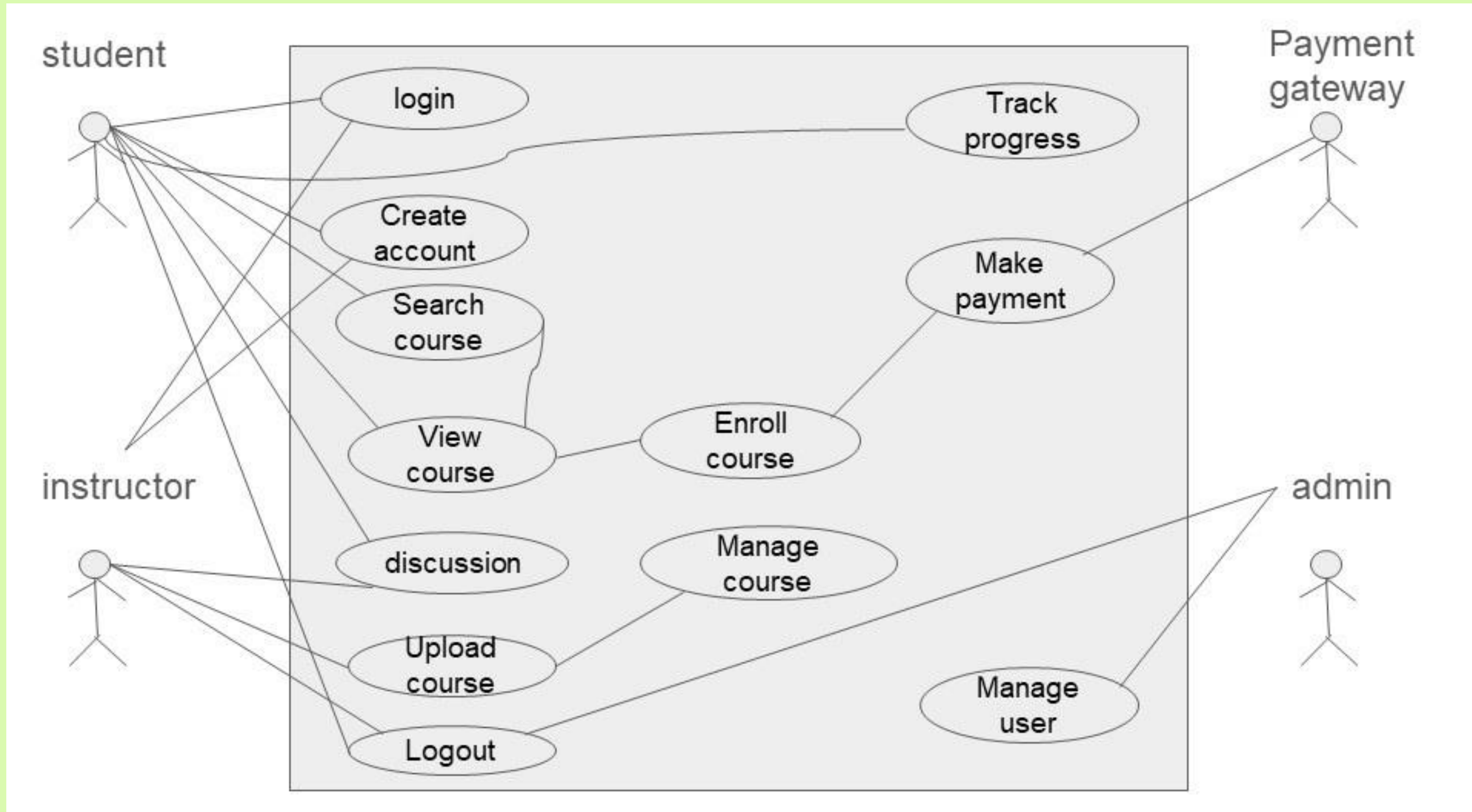User authentication, Course Creation,etc.

DATABASE

Build with MongoDb

Stores unstructured and semi-structured data
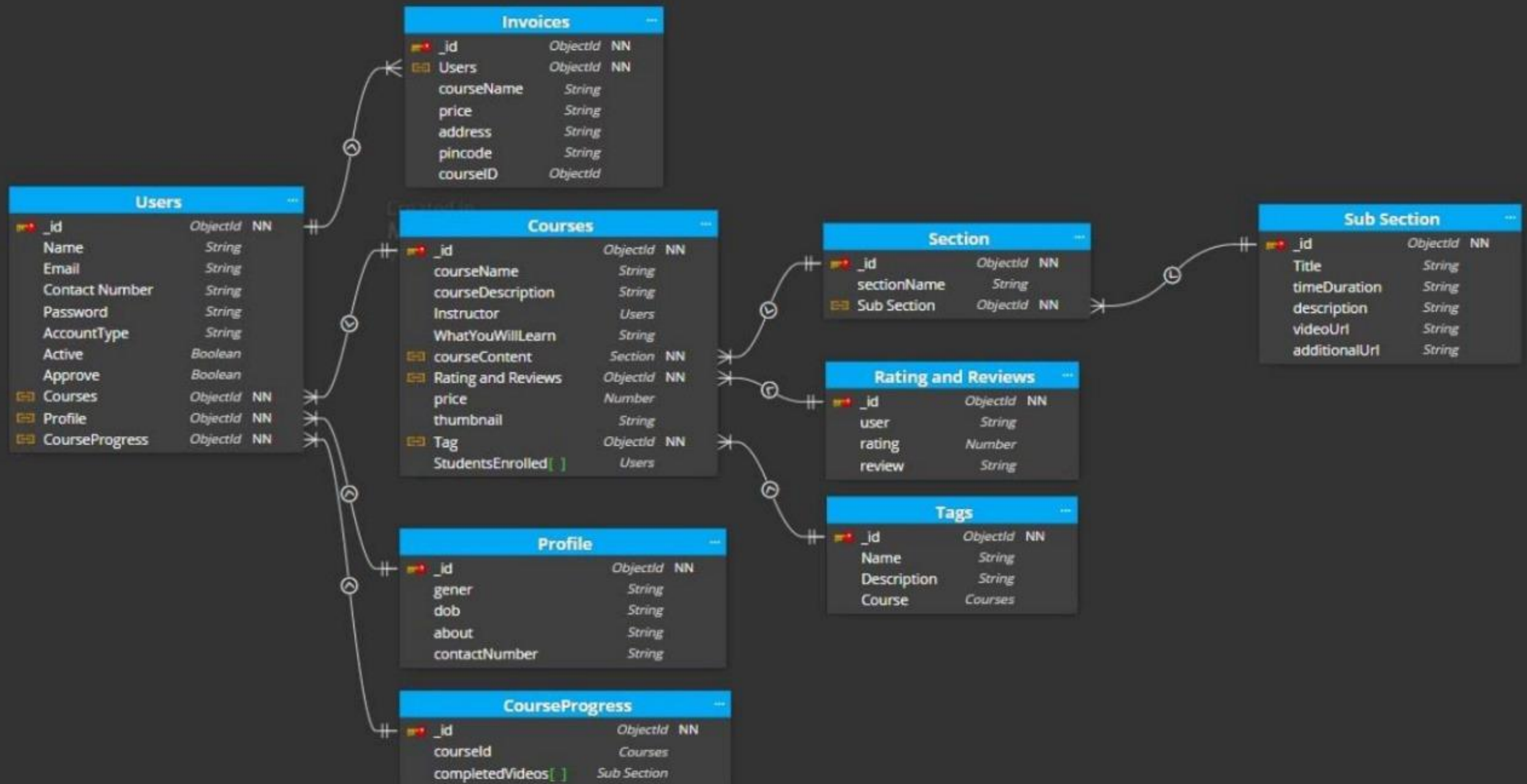
Flexible and scalable

SITEMAP

Landing Page

Course Content ← Landing Page → Course List

Landing Page → Login/Signup Page

Login/Signup Page

- Student
- Instructor
- Admin

Student
- Home Page
- Course List
- Cart Checkout
- Course Content
- Discussion Section

Instructor
- Dashboard
- Course Management Pages
- Profile Details (view + edit)
- Additional Pages

Admin
- Dashboard
- Insights
- Instructor Management
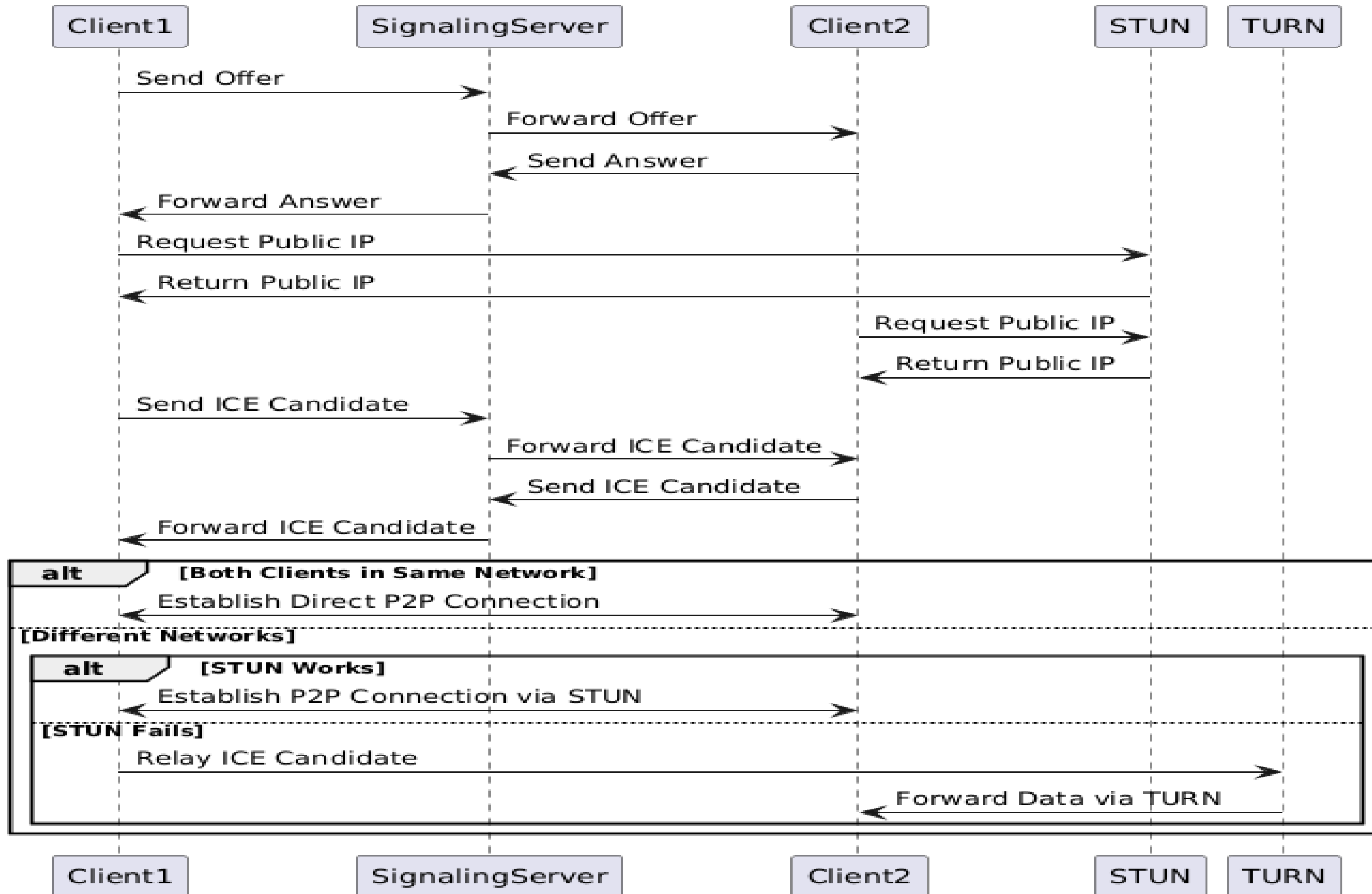- Other Relevant Pages

USE-CASE DIAGRAM

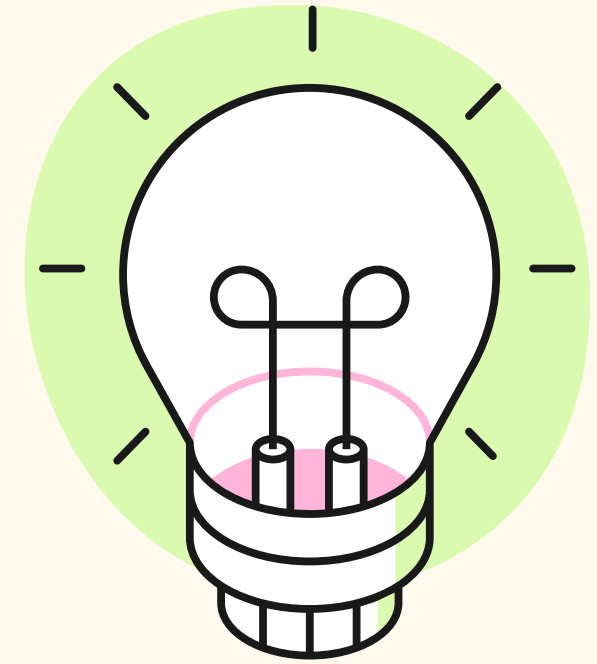# Document Model of DataBase

Sequence diagram Virtual Room

Project Improvements

Gamification features

Mobile app

M.L. -powered recommendations

AR/VR integration

THANK YOU