



# Final Team Project Demonstration

## CourseNet

Presented by Emmanuelle, Jeffrey, Wen,  
Zi, and Kenny

December 18th, 2024



0

# Agenda

# Agenda



Introduction



Use Cases/Actions



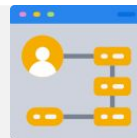
Landing Demonstration



User Action Demonstration



Stored Procedures  
Demonstration



2NF Relational Model  
Diagram



Job Delegation



Q & A



# Introduction

# Business Idea

## Students

A place to enroll  
and setup class  
schedules

Optional  
subscription  
service

## Instructors

Can organize  
classes more  
efficiently

No cost

## Investors

Allowed to place  
ads on site

Pay for ad space

# Tech Stack



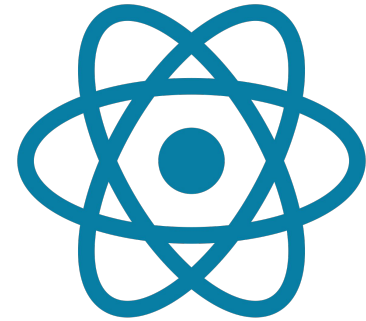
**DBMS**

MySQL



**Backend**

Node.js



**Frontend**

React

# Profit Model

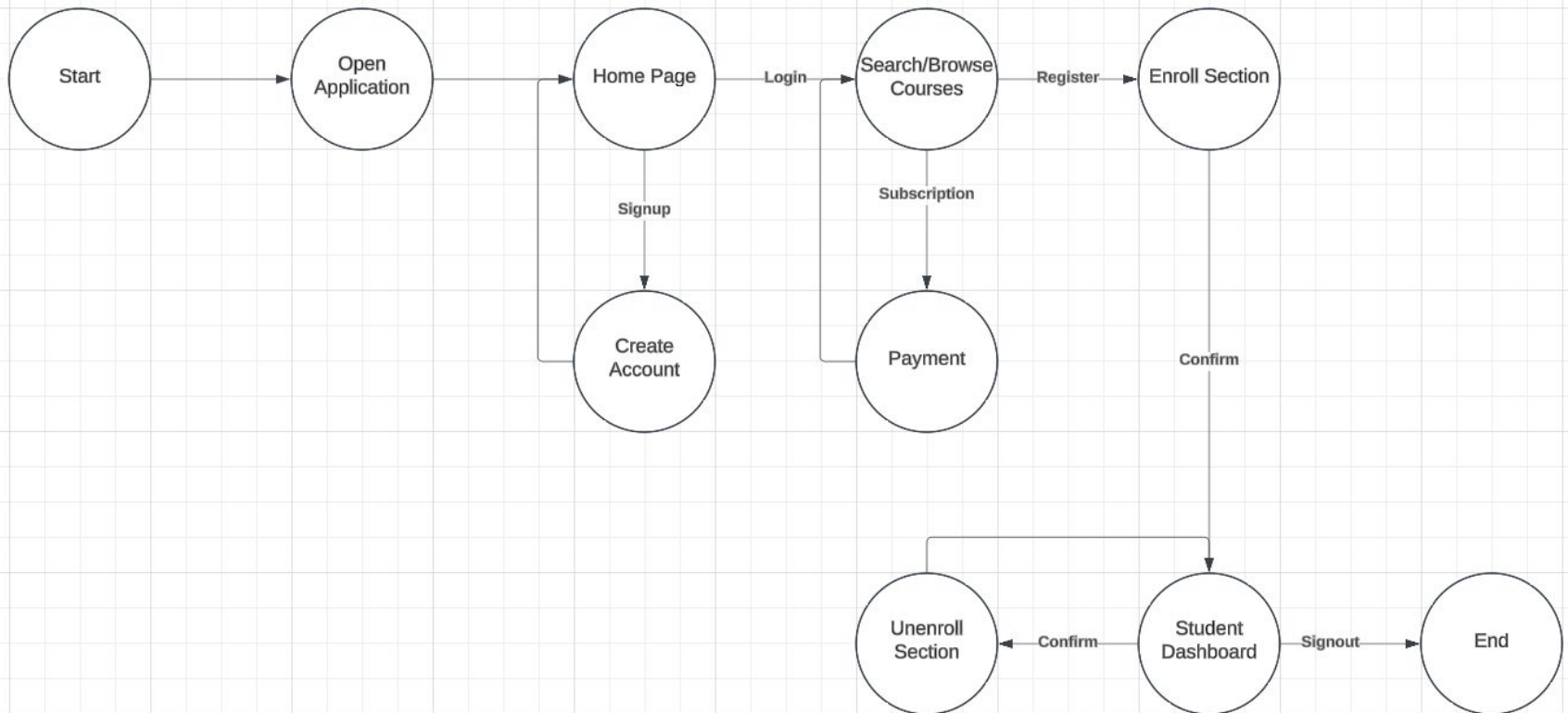
- Subscription based
- Ad placement



2

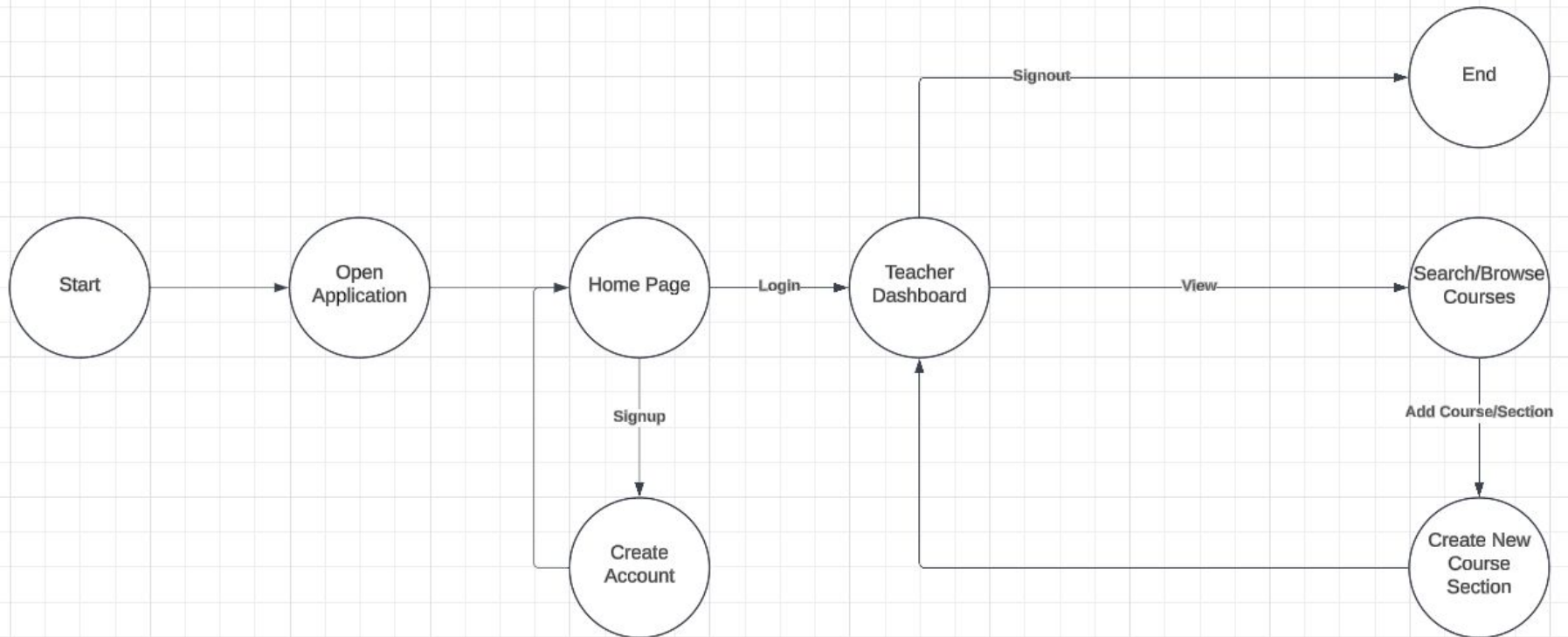
# User Flow

# Use Case (Student)





# Use Case (Instructor)



3

Demo

# Landing Page Demo

DEMO LIVE the choice and effort on your interface, (such as Web Page, App UI, Jupiter Editor, Visual Studio, Java IDE) to merge the services ie. recommendation engine or landing page of the entire business

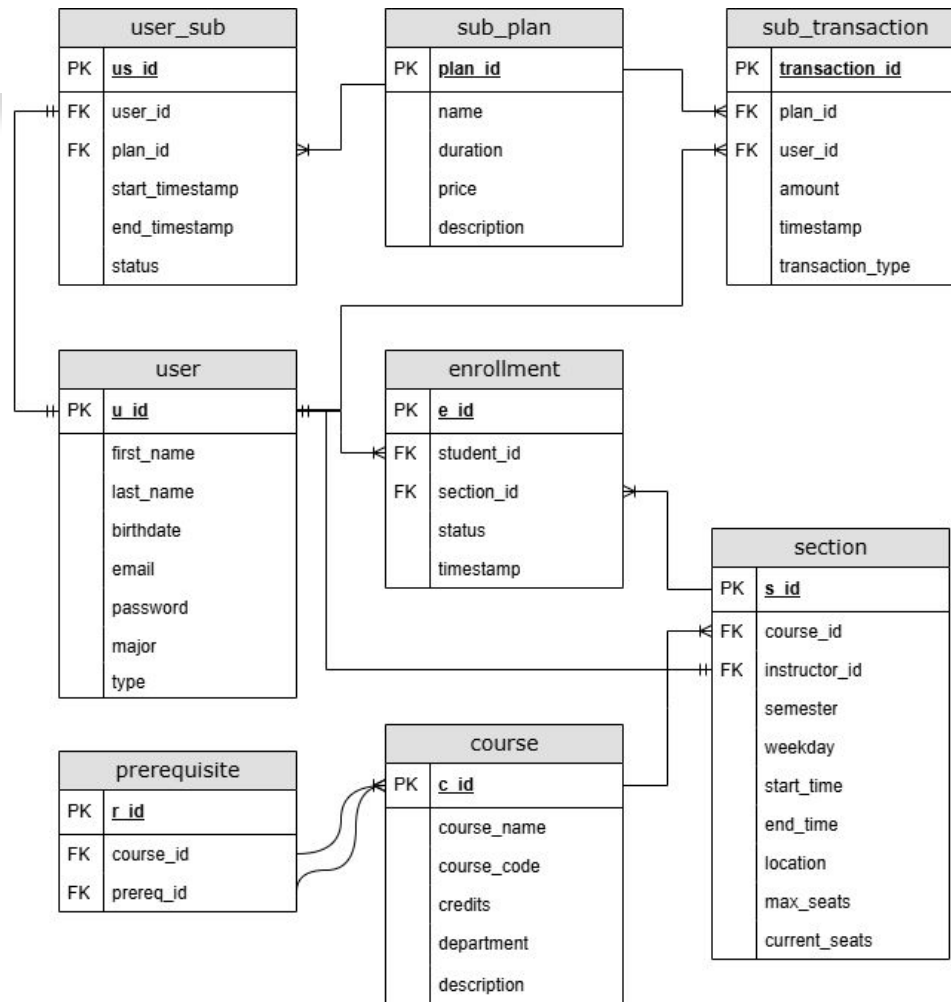
# User Action Demo

DEMO Live one valid user action within the project, such as registration, purchasing, or interacting with the recommendation engine, highlighting the user experience and functionality. (via such as Web Page, App UI, Jupiter Editor, Visual Studio, Java IDE)

# 4

## Relational Data Modeling

# 2NF Relational Model Diagram



# Stored Procedures Demonstration

- Procedure to drop all rows in section matching a semester.
  - Given the input of the semester, all sections that have the same semester as the input will be deleted.
  - This is useful when the semester is over and the sections are no longer needed.
- Procedure to change course\_id for a section.
  - Given the input of the old course id and new course id, the course id will be updated with the new one.
  - This is useful for correcting incorrect course id or reassigning sections.

5

# Closing Remarks



# Job Delegation and Team Work

# Github Summary (Wen Jie Long)

Add: registration and login ...

 wlong1 committed last week

Added dashboard backend ...

 wlong1 committed last week

Added endpoints for course section listing, details, and create section

 wlong1 committed 4 days ago

Added create course section

 wlong1 committed 3 days ago

Finished instructor dashboard

 wlong1 committed 3 days ago

Create stored procedures.sql

 wlong1 committed yesterday

Added course section listing ...

 wlong1 committed yesterday

Added course sections detailed page ...

 wlong1 committed 11 hours ago

# Github Summary (Jeffrey Umanzor)

**updated login and register pages**



J-Umanzor committed last month

**updated header and created homepage**



[J-Umanzor](#) committed last week

**Added Course Display**



[J-Umanzor](#) committed 2 days ago

**updated db to have course sections**



J-Umanzor committed 2 days ago

**redirect instructor login to instructordashboard page**



J-Umanzor committed yesterday

**added button to instructor dashboard and createCourseSection pages**



J-Umanzor committed yesterday

**add section details to instructor dashboard**



J-Umanzor committed yesterday

**added homepage button to course enroller**



J-Umanzor committed yesterday

**added working enroll/unenroll to course enrollment page**



J-Umanzor committed 19 hours ago

**fix seats available display**



J-Umanzor committed 19 hours ago

**add view enrolled sections page**


























J-Umanzor committed 18 hours ago


**fix: dynamically fetch user ID for course enrollment**







J-Umanzor committed 25 minutes ago

# Github Summary (Emmanuelle Padilla)

CourseNet: 1.0 	
 epadilla03	 21000fed  +476 -78
19 changed files	
Help.js	
package-lock.json	
package.json	
src\App.css	
src\App.js	
src\App.test.js	
src\logo.svg → src\Assets\logo.svg	
src\Components\Header\header.css	
src\Components\Header\header.js	
src\Components\Main\mainContent.css	
src\Components\Main\mainContent.js	
src\Pages\Home\home.js	
src\Pages\Login\login.css	
src\Pages\Login\login.js	
src\Pages\Register\register.css	
src\Pages\Register\register.js	
src\index.js	
src\reportWebVitals.js	
src\setupTests.js	

**Navigation page and updated routing**  
 epadilla03 • 3 days ago

**On login route to dashboard**  
 epadilla03 • 3 days ago


<input type="checkbox"/>	Name		Container ID	Image	Port(s)	CPU (%)	Last state	Actions		
<input type="checkbox"/>	<input type="radio"/>	nice_proskuriak	dc0103f2d32a	0f9a3175b	5000:8080	N/A	7 seconds			

The screenshot shows the SQL Server Enterprise Manager interface. The 'coursenet' database is selected, and the 'Tables' folder is expanded. The following tables are listed:

- course
- enrollment
- prerequisite
- section
- sub\_plan
- sub\_transaction
- user
- user\_sub

Below the tables, the 'Views', 'Stored Procedures', and 'Functions' folders are also visible.

# Github Summary (Kenny Zhu)

 **kzhu002** move db from sqlite to mysql

```
CREATE TABLE course (  
  c_id INT PRIMARY KEY AUTO_INCREMENT,  
  course_name VARCHAR(30) NOT NULL,  
  course_code VARCHAR(10) NOT NULL,  
  credits INT NOT NULL,  
  department VARCHAR(20),  
  description VARCHAR(100)  
);
```

```
CREATE TABLE user (  
  u_id INT PRIMARY KEY AUTO_INCREMENT,  
  first_name VARCHAR(20) NOT NULL,  
  last_name VARCHAR(20) NOT NULL,  
  birthdate DATE,  
  email VARCHAR(100) UNIQUE NOT NULL,  
  password VARCHAR(100) NOT NULL,  
  major VARCHAR(20),  
  is_subscribed BOOLEAN DEFAULT FALSE,  
  type VARCHAR(20) DEFAULT 'student'  
);
```

```
CREATE TABLE section (  
  s_id INT PRIMARY KEY AUTO_INCREMENT,  
  course_id INT,  
  instructor_id INT,  
  semester VARCHAR(20),  
  weekday VARCHAR(10),  
  start_time TIME,  
  end_time TIME,  
  location VARCHAR(10),  
  max_seats INT,  
  current_seats INT,  
  FOREIGN KEY (course_id) REFERENCES course(c_id),  
  FOREIGN KEY (instructor_id) REFERENCES user(u_id)  
);
```

```
CREATE TABLE user_sub (  
  us_id INT PRIMARY KEY AUTO_INCREMENT,  
  user_id INT NOT NULL,  
  plan_id INT NOT NULL,  
  start_time TIMESTAMP NOT NULL,  
  end_time TIMESTAMP NOT NULL,  
  status ENUM('active', 'expired', 'canceled') NOT NULL,  
  FOREIGN KEY (user_id) REFERENCES user(u_id),  
  FOREIGN KEY (plan_id) REFERENCES sub_plan(plan_id)  
);
```

Q & A