

Holoxi.

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Overview

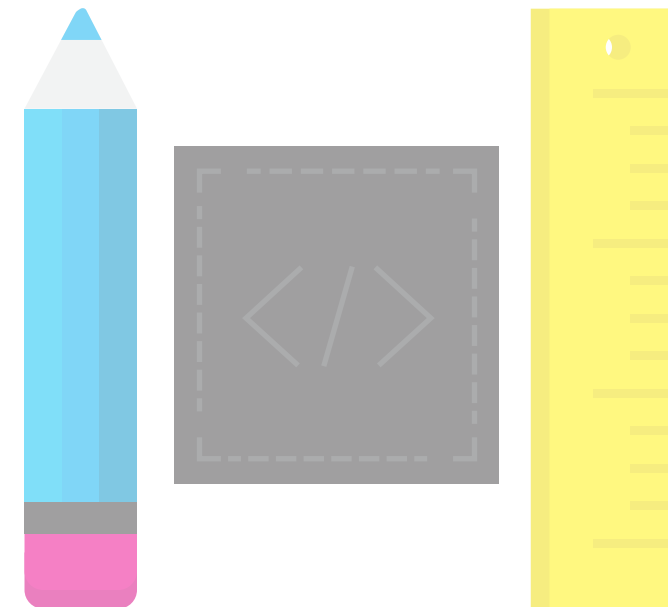
Holoxi is a distributed grading management system targeted toward universities and academic institutions. To give instructors and research assistants some of their precious time back, Holoxi strives to facilitate the process of homework grading by making students grade each other work.

Requirements

The system has the following actors, an instructor, an expert, and a student.

An Expert has the following "use cases":

- An expert can edit course info.
- An expert can view students enrolled in a course.
- An expert can create a submission group.
- An expert can edit a student submission instance.
- An expert can view a student submission instance.



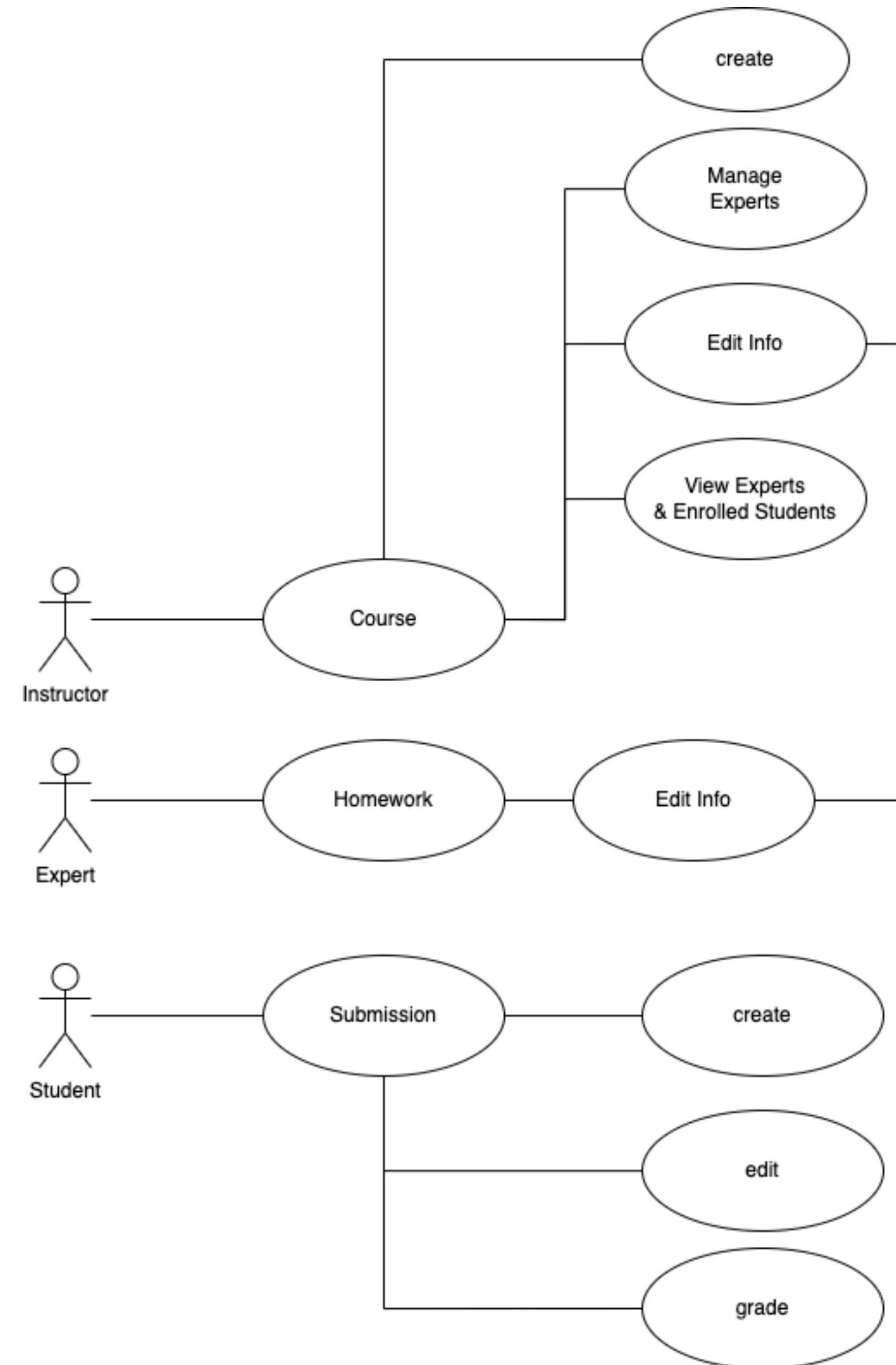
A student can do the following:

- Enroll in a course.
- Submit a homework submission instance.
- Edit submitted submission instance.
- Grade the assigned student submission instance.

An Instructor has all of the expert privileges plus he/she can:

- Create a course.
- Edit experts assigned to a course.

Use cases diagram:

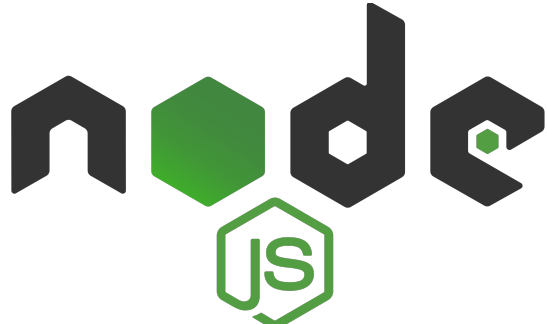



Tech Stack

After understanding the initial requirements, the database "ERD" was created. Regarding technologies the following were used

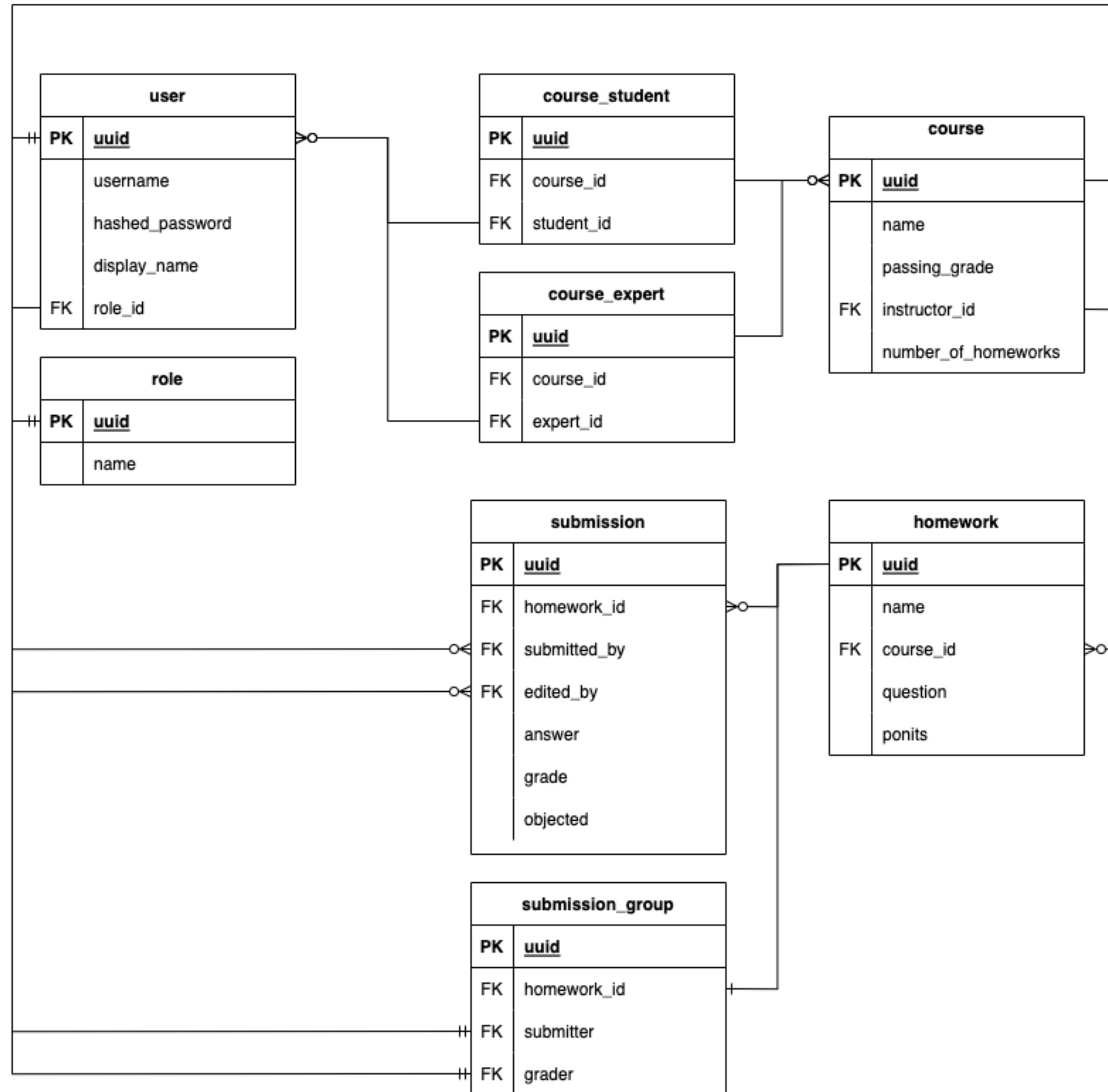
Also an RBAC system was used to manage the users privileges.

MongoDB for data store.  **mongoDB**

Node.js & Express.js for the server and APIs.  **node**  **express**

React.js & antd for the creation of UI.  

ERD diagram:



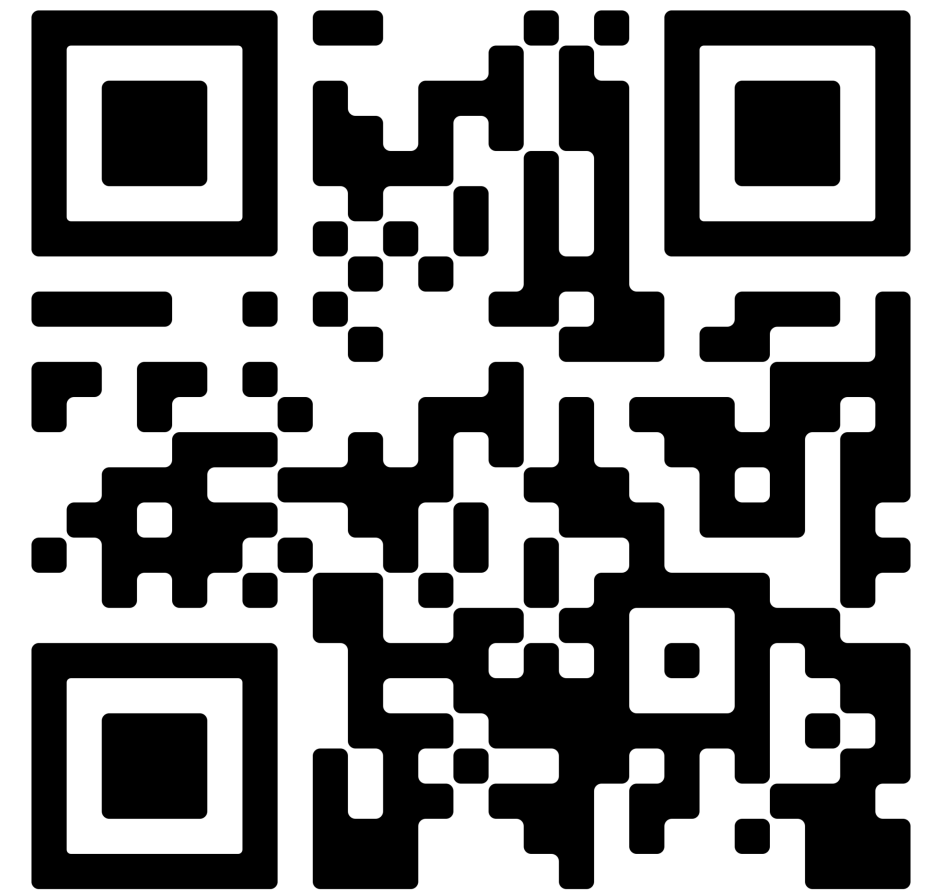
Code

prerequisites:

- *mongoDB*
- *Node.js*
- *npm*

How to run the app:

1. *clone the github repo*
2. *run “npm install”*
3. *“cd frontend” && “npm install”*
4. *Go to main folder “cd ..”*
5. *run “npm run data:seed”*
6. *run “npm run dev”*




SCAN ME



A decentralized way of managing homeworks.

[Account Login](#)

[New Account](#)

 _munther





☐ Remember me

Log in



A decentralized way of managing homeworks.

Account Login

New Account

* Username:

student.1

* Password:

.....

Display Name:

Student One

* Role:

Student



Create my account



Courses ^

All courses

+ Create course

Homeworks v

Courses

| | | |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------|
|  | <div>Introduction to web programming</div> <div>Students: 7 Experts: 1 Homeworks: 2 Passing Grade: 60</div> | <div>View</div> <div>Edit</div> |
|  | <div>Blockchain</div> <div>Students: 7 Experts: 1 Homeworks: 4 Passing Grade: 50</div> | <div>View</div> <div>Edit</div> |
| <div>+ Create Course</div> | | |

Course Info
Basic information
about the course

Complete
Review & submit

* Course name

Algorithms

* Passing grade

60

* Number of homeworks

4

next

Course Info

Basic information
about the course

Complete

Review & submit



Course was created successfully!

Back to main page

Course Info







| | | | |
|---------------|------------|---------------------|-----------------|
| Course name | Algorithms | Instructor | MohiEldin Ahmed |
| Passing Grade | 60 | Number Of Homeworks | 4 |

Course Info

Edit

| | | | |
|---------------|---------------------------------|---------------------|-----------------|
| Course Name | Introduction to web programming | Instructor | MohiEldin Ahmed |
| Passing Grade | 60 | Number Of Homeworks | 2 |

Enrolled Students

| | |
|-------------------------------------------------------------------------------------|---------------------------------------|
|  | İrem PEKKIYAK irem |
|  | AbdElkarim Mohamed zoo.fame |
|  | Bahaeldeen Ahmed baha.ahmed |
|  | Kamal kimo |
|  | Berkay mr.ruin |
|  | Mahmut Serdar serdar |

Basic info

Experts

* Course Name

Introduction to web programming

* Passing grade

60

* Number of homeworks

2

save

Basic info

Experts

Experts

MohiEldin Ahmed

save

Courses ▾

Homeworks ▾

Introduction to web programming

HW 1

Points: 60

[view submissions](#)

edit

HW 2

Points: 60

[view submissions](#)

edit

Blockchain

HW 1

Points: 50

[view submissions](#)

edit

HW 2

Points: 50

[view submissions](#)

edit

HW 3

Points: 50

[view submissions](#)

edit

HW 4

Points: 50

[view submissions](#)

edit

Algorithms

Submit

Grade

Grade student submission

| | | | |
|----------|---------------------------------|--------|----|
| Question | What's HTML ? | Points | 60 |
| Answer | A semantic language for the web | | |
| Grade | | | |

* Grade

60

submit

Submit

HW 2

Grade

Question

What's HTML ?

Grade

40

Object

Answer

A web language

Submit Answer

Courses

Homeworks

All homeworks

+ Create home...

/ All Homeworks / Introduction to web programming / HW 2

Info

Groups

Submissions

| Submitter | Grade | Graded By | Status | |
|--------------------|-------|--------------------|----------|----------------------|
| Berkay | 60 | AbdElkarim Mohamed | | view |
| AbdElkarim Mohamed | 40 | Berkay | objected | view |

Submitted By

| | | | |
|--------|--------------------|----------|----------|
| Name | AbdElkarim Mohamed | Username | zoo.fame |
| Answer | A web language | | |
| Grade | 40 | Objected | Yes |

* Grade

40

Update grade

Graded By

| | | | |
|-------|--------|----------|---------|
| Name | Berkay | Username | mr.ruin |
| Grade | 60 | | |

* Grade

60

Update grade

Courses

Homeworks

/ All Homeworks / HW 2 / mr.ruin

Submitted By

| | | | |
|--------|---------------------------------|----------|---------|
| Name | Berkay | Username | mr.ruin |
| Answer | A semantic language for the web | | |
| Grade | 40 | Objected | No |

* Grade

40

Update grade

Graded By

| | |
|-------|----------|
| Name | Username |
| Grade | |

Handled by an expert

Courses

Homeworks

/ All Homeworks / Introduction to web programming / HW 2

Info

Groups

Submissions

Submitter

Grade

Graded By

Status

Berkay

40

Expert One

view

AbdElkarim Mohamed

60

Expert One

view

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Thank You !