

# Final Project report

## (CS 6314.002)

# Online tutoring platform



Team 22

Vedant Paresh Shah

VXS200021

Surya Palaniswamy

SXP210002

Ekaterina Lepekhina

EXL210008

There is no better way to learn a skill than through practice. Working on a complete website application for this class was tremendously helpful to develop our web programming and teamwork skills.

Let us share some key details about our work. Our application provides students and tutors with all necessary functionality of a tutoring platform.

### **Functionalities:**

Tutors can sign up and log in.

Tutor can see their appointment information, hours worked and ratings.

Students can sign up and log in

Students can Book, and viewing appointments with a detailed information including tutor's availability, and hours studied.

Design and the blue color palette of the website are aimed at creating a professional and appealing look.

### **Extra Features:**

Student cannot book an appointment without login and will take student to login page directly.

## I. Name for the Website

We named our website “Illuminate online”. The Latin word “lumen” means “light” and is often used in the meaning of enlightenment and education.



The key element of our website logo is a classic Roman temple silhouette. We incorporated it in our design to reflect the ancient origin of the name and the long history of the tradition of education.

## II. Database Design

We used MongoDB for the database technology. MongoDB is a popular choice for application like ours due to it's scalability, ability to handle unstructured data and work without pre-specified schema. Also, MongoDB is fast and provides high level of consistency.

Here is the information about your our data model (example objects):

Tutor Collection:

```
_id: ObjectId('62777d3210e915535617d21a')
name: "Vedant Shah"
email: "vedantshah@gmail.com"
password: "$2b$10$M3IJREPIKTpKlRcmocfZx.Ryk3MRSHwyPLhdwg9Kelv9oict0S4MS"
phoneNo: "1234567890"
image: "https://i.imgur.com/0of0cWE.jpg"
location: "Richardson, TX, USA"
aboutMe: "I have experince for about 15 years in this field of Computer Science..."
details: "Phd in Computer Engineering, Cornell University, USA"
course: Array
  0: Object
    courseId: ObjectId('62777d2710e915535617d218')
    courseName: "Python for Beginners"
    courseDescription: "In this Course I will teach pyhton from the basic and this course if f..."
    courseRating: Object
      courseReviews: 30
      CourseStars: 4.3
  1: Object
  tutorRating: Object
    tutorReviews: 50
    tutorStars: 4.5
  totalHours: 240
```

## Student Collection:

```
_id: ObjectId('6278a1110e915535617d23b')
name: "Harsh Malhan"
email: "harshmalhan@gmail.com"
password: "1sWer5%IJREPIKTpKlRcmocfZx.Ryk3MRSHwyPLhdwg9Kelv9oitc0S4MS"
phoneNo: "9087654321"
image: "_wpl1001.jpg"
coursesEnrolled: Array
  0: Object
    _id: ObjectId('6278a0fd10e915535617d239')
    courseId: ObjectId('62777d2710e915535617d218')
    tutorId: ObjectId('62777d3210e915535617d21a')
    isFavourite: "True"
    rating: 4.9
    commentId: ObjectId('6278a5e710e915535617d25e')
  1: Object
totalHours: 20
```

## Comments Collection:

---

```
_id: ObjectId('628038393769788dbb6418bd')
userId: ObjectId('6278a1a310e915535617d247')
tutorId: ObjectId('62777d7910e915535617d21e')
courseId: ObjectId('62777d7810e915535617d21d')
commentDescription: "Got to learn a lot from this course"
```

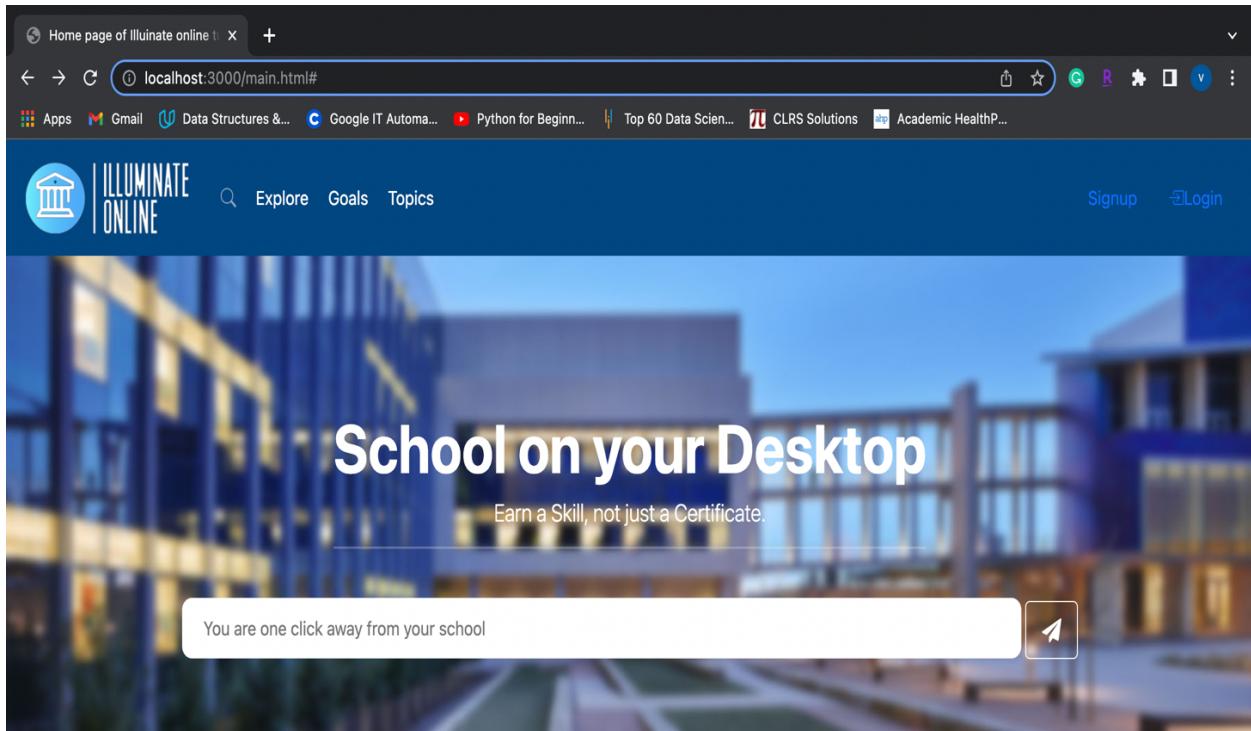
## Appointments Collection:

```
_id: ObjectId('6278ac8610e915535617d277')
userId: ObjectId('6278a11110e915535617d23b')
userName: "Harsh Malhan"
userEmail: "harshmalhan@gmail.com"
tutorId: ObjectId('62777d3210e915535617d21a')
tutorName: "Vedant Shah"
tutorEmail: "vedantshah@gmail.com"
courseId: ObjectId('62777d2710e915535617d218')
courseName: "Python For Beignners"
date: "05/18/2022"
time: "09:00:00"
isScheduled: "True"
```

### III. Illustration of main functionalities

There is a famous proverb: “Better to see something once than to hear about it a thousand times”. Thus, let us present several views of the Illuminate online website.

The Home Page we Created in Part-1:



### How we work

Your Choice

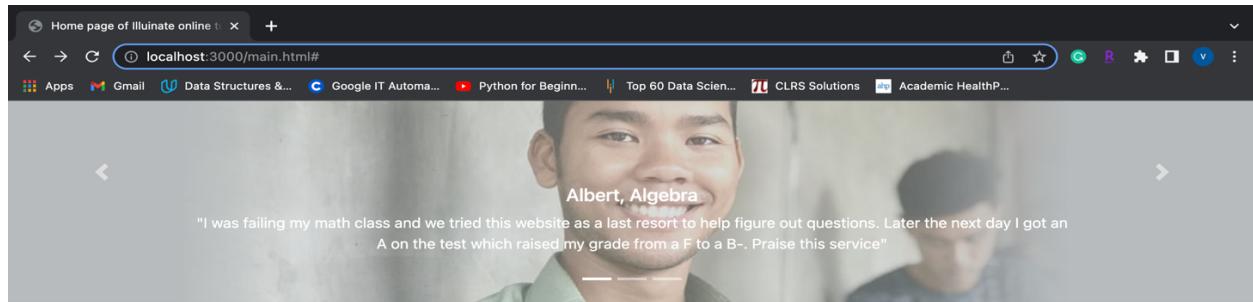


Access from Anywhere



Earn a Skill





Please feel free to follow us on social media to be updated on all the new developments



#### STUDENTS

[Career Choices](#)  
[Code of Conduct](#)  
[Payment Methods](#)  
[Our Blog](#)  
[Contact Us](#)

#### TUTORS

[Register](#)  
[Code of Conduct](#)  
[Training](#)  
[Why choose us](#)

#### NEWSLETTER

Anything about us including investing, collaborating, advertising, developments will be on our newsletter. Be sure to sign up!

Enter your email address



© Illuminate Online  
All rights reserved

## The Tutors search in Part-2:

**Tutor List**

Search for tutors

**Vedant Shah**

Rating :4.7  
Richardson, TX, USA  
vedantshah@gmail.com

I have experience for about 15 years in this field of Computer Science. Currently I am a Tenured professor at the UTD.

[Expand](#)

**Surya Palaniswamy**

Rating :4.6  
Ithaca, NY, USA  
suryapalaniswamy@gmail.com

I have experience for about 20 years in this field of Computer Science. Currently I am a Research professor at the Cornell University.

[Expand](#)

**Ekaterina Lepekhina**

Rating :4.5  
Beverly Hills, CA, USA  
ekaterinalepekhina@gmail.com

I have experience for about 12 years in this field of Computer Science. Currently I am an Instructor professor at the UCLA.

[Expand](#)

**Vedant Shah**

Rating :4.7  
Richardson, TX, USA  
vedantshah@gmail.com

I have experience for about 15 years in this field of Computer Science. Currently I am a Tenured professor at

**Surya Palaniswamy**

Rating :4.6  
Ithaca, NY, USA  
suryapalaniswamy@gmail.com

I have experience for about 20 years in this field of Computer Science. Currently I am a Research professor at

**Ekaterina Lepekhina**

Rating :4.5  
Beverly Hills, CA, USA  
ekaterinalepekhina@gmail.com

I have experience for about 12 years in this field of Computer Science. Currently I am an Instructor professor at

# The Final Project Submitted Screenshots:

React App    x    +    localhost:3001

Logout    Appointments

## Tutor List

Search for tutors

 **Vedant Shah**  
Rating :  
Richardson, TX, USA  
vedantshah@gmail.com

I have experince for about 15 years in this field of Computer Science. Currently I am a Tenured professor at the UTD.

**Expand**

 **Surya Palaniswamy**  
Rating :  
Ithaca, NY, USA  
suryapalaniswamy@gmail.com

I have experince for about 20 years in this field of Computer Science. Currently I am a Research professor at the Cornell University.

**Expand**

 **Ekaterina Lepikhina**  
Rating :  
Beverly Hills, CA, USA  
ekaterinalepekhina@gmail.com

I have experince for about 12 years in this field of Computer Science. Currently I am a Instructor professor at the UCLA.

**Expand**

 **Naivedh Shah**  
Rating :  
Richardson, TX, USA  
naivedhshah@gmail.com

I have experince for about 15 years in this field of

 **Rishi Patil**  
Rating :  
Ithaca, NY, USA  
rishi@patil.com

I have experince for about 20 years in this field of

 **Sid Rai**  
Rating :  
Beverly Hills, CA, USA  
sidrai@gmail.com

Activate Windows  
Go to Settings to activate Windows.

I have experince for about 12 years in this field of

React App    x    +    localhost:3001/tutorappointments

Logout

## Your appointments are as follows

Web Programming with Javascript  
2022-05-16:12:04

The total hours completed for you is: hrs

React App

localhost:3001/tutorauthentication

**Tutor Login**

Email:

Password:

**Login**

React App

localhost:3001/tutorsignup

**Tutor signup**

Name:

Email:

Password:

Phone:

Image:  No file chosen

Location:

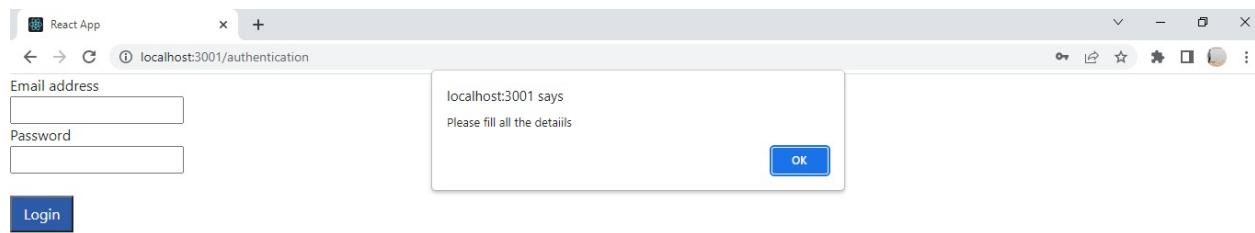
About me:

Details:

**Submit**

localhost:3001 says  
Please fill all fields

OK



Activate Windows  
Go to Settings to activate Windows.

---

(Due to Some Errors and Time Constraints we weren't able to add the homepage to the final submission and have used tutors search as our Homepage)

## **IV. Work division among team members**

- Part 1

- UI Design:

Vedant Shah and Surya Palaniswamy came up with the name and logo idea and designed the logo. Ekaterina Lepekhina performed the analysis of the design of 5 popular tutoring platforms (layout, color palette, functionality). Vedant Shah developed a professional-looking footer and Surya Palaniswamy worked on the header. Ekaterina Lepekhina worked on the jumbotron section, including image editing. The rest of the work has been performed together.

- Part 2

- React Application:

Surya Palaniswamy did most of the work for the search mechanism of the application. Vedant Shah and Ekaterina Lepekhina developed the React part for the page with tutors profiles: reading information from json file, laying it out as professionally designed cards and styling. Surya Palaniswamy developed the layout design for the tutors page.

- Part 3

- API implementation (Node.js):

Basic database logic was initially developed by Vedant Shah and edited by Surya Palaniswamy and Ekaterina Lepekhina. Surya Palaniswamy developed the listing of all tutors/appointments and tutor/appointment display. Vedant Shah implemented the logic to add a new tutor/appointment and update an existing tutor. Ekaterina Lepekhina worked on deletion of an existing tutor/appointment.

- Part 4

- Complete Application:

At this stage we were integrating and updating previously created parts of the project to make everything work together. Surya Palaniswamy and Vedant Shah worked on the appointments booking and listing, Student/Tutor SignUp/Login. Vedant Shah and Ekaterina Lepekhina updated React application and improved the design and website layout.

Final Submission Video:-

Video-Link : <https://vimeo.com/709973371>

(Due to Some Constraints we weren't able to add the homepage to the final submission and have used tutors search as our Homepage)

Not Final Video:-

Video-Link: <https://vimeo.com/709955454>

(Also, this is another video. This is what we were going to implement but due to some Constraints we weren't able to integrate the Part-1 n Part-2 of the project so this is what we had in mind while creating the project.)