



Edify

Web Programming Languages Project

CS6314

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Introduction

The Scope of the project is to create a Tutoring Website with React, NodeJS, ExpressJS, MongoDB(MERN) Stack.

We have created Front-End with custom HTML/CSS with Bootstrap Templates. We have created React Components and NodeJS components and we have created APIs for the Business Logic with ExpressJS.

We have integrated MongoDB with the Back-End to dynamically fetch and write data.

Database Design

User Collection:

1. _id - Default ID
2. email - Unique Email for the user
3. password - Hashed, Encrypted(SHA-1) and Stored
4. person_id - Linking to either students or tutors collection based on user_type
5. user_type - "student" or "tutor"

Example User Document:

```
_id: ObjectId('627dc43a4d688b71f45e55b7')
email: "albus@hogwarts.com"
password: "7507239f3c3eb689db85a29151c0cf5bb5f4a1fd"
user_type: "tutor"
person_id: ObjectId('627dc43a4d688b71f45e55b8')
```

Tutor Collection:

1. _id - Default ID
2. user_id - Link to User Collection
3. email - Email
4. first_name - First Name
5. last_name - Last Name
6. phone_number - Phone Number
7. bio - About me for the Tutor
8. courses - Array of courses taught by the Tutor
9. total_tutoring_hours - Total hours taught by the tutor
10. path - path to the Profile Picture

Example Tutor Document:

```
_id: ObjectId('627d99507315b62680964615')
email: "severus.s@hogwarts.com"
user_id: ObjectId('627d99507315b62680964614')
bio: "Slytherin Head. I'm the Half-Blood Prince!"
courses: Array
  0: "Dark Magic"
  1: " Potions"
phone_number: "5585585580"
first_name: "Severus"
last_name: "Snape"
total_tutoring_hours: 450
path: "person0.jpg"
```

Student Collection:

1. _id - Default ID
2. user_id - Link to User Collection
3. email - Email
4. first_name - First Name
5. last_name - Last Name
6. phone_number - Phone Number
7. bio - About me for the Tutor
8. favourite_tutors - array of Tutor IDs of Favourite Tutors

Example Student Document:

```
_id: ObjectId('627dc4834d688b71f45e55ba')
email: "cedric@hogwarts.com"
user_id: ObjectId('627dc4834d688b71f45e55b9')
bio: "Student"
phone_number: "5585585585"
first_name: "Cedric"
last_name: "Diggory"
total_tutoring_hours: 0
✓ favourite_tutors: Array
  0: "627da2d1f516156efc1fa552"
```

Feedbacks Collection:

1. _id - Default ID
2. tutor_id - Tutor ID
3. count - Number of reviews
4. avg_rating - Average rating of tutors
5. comments - Array of Reviews
 - student_id - ID of the Student who reviewed
 - student_name - Name of the Student who reviewed
 - rating - Rating of the review
 - comment - Comment made with the review

Example Feedback Document:

```
_id: ObjectId('627d9e6b7315b62680964618')
tutor_id: "627d99507315b62680964615"
count: 3
avg_rating: 4.666666666666666
comments: Array
  ▼ 0: Object
    student_id: "627d9ce27315b62680964617"
    student_name: "Harry Potter"
    rating: 4
    comment: "Good but serious and strict"
  ▼ 1: Object
    student_id: "627da58bf516156efc1fa558"
    student_name: "Hermoine Granger"
    rating: 5
    comment: "He's the best"
  ▼ 2: Object
    student_id: "627dc4834d688b71f45e55ba"
    student_name: "Cedric Diggory"
    rating: 5
    comment: "Very good teacher"
```

Appointments Collection:

1. _id - Default ID
2. tutor_id - Link to User Collection
3. student_id - Email
4. student_name - Student Name
5. tutor_name - Tutor Name
6. start_date_time - Appointment Start Date and Time
7. end_date_time - Appointment End Date and Time
8. courses - Array of courses taught by the Tutor

Example Appointment Document:

```
_id: ObjectId('627d9eca7315b62680964619')
tutor_id: "627d99507315b62680964615"
student_id: "627d9ce27315b62680964617"
start_date_time: "2022-05-13T10:00:00"
end_date_time: "2022-05-13T11:00:00"
course: null
notes: "Waiting to learn from you!"
status: "SCHEDULED"
studentName: "Harry Potter"
tutorName: "Severus Snape"
```



Work Division

Radheshyam Kumar:

Server-Side: Login, SignUp, Feedback

Client-Side: Homepage, Tutors Page

Database Design: Feedbacks, Users

Jayanth Sai Surya Nunnaguppala:

Server-Side: Authentication, Appointments, Tutors

Client-Side: Appointments, Appointment Details, Cards, Login

Database Design: Appointments, Students

Deepika Mamidipelly:

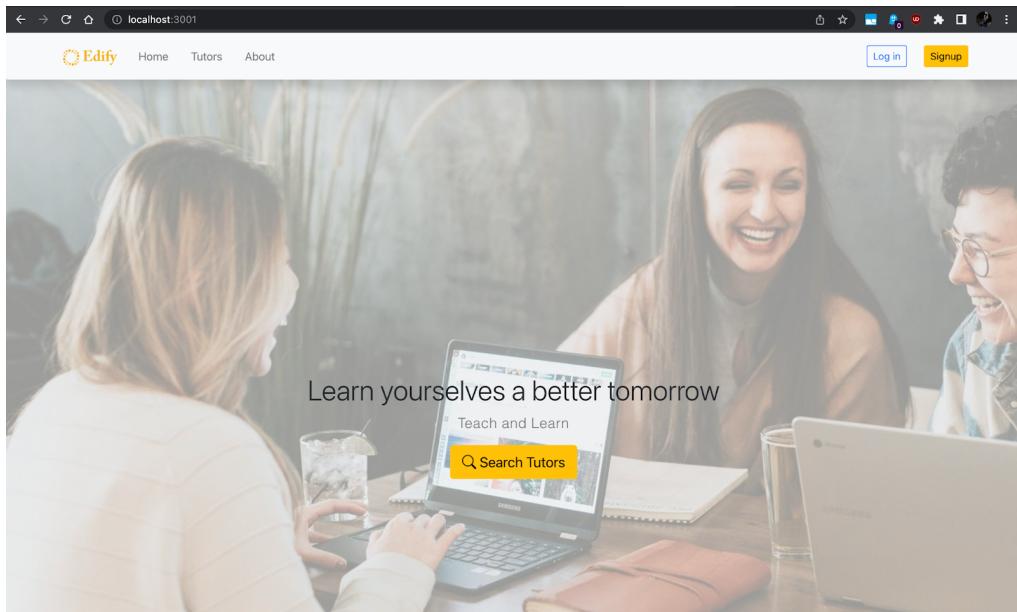
Server-Side: Favourites, Students

Client-Side: Tutor Details, Login , SignUp

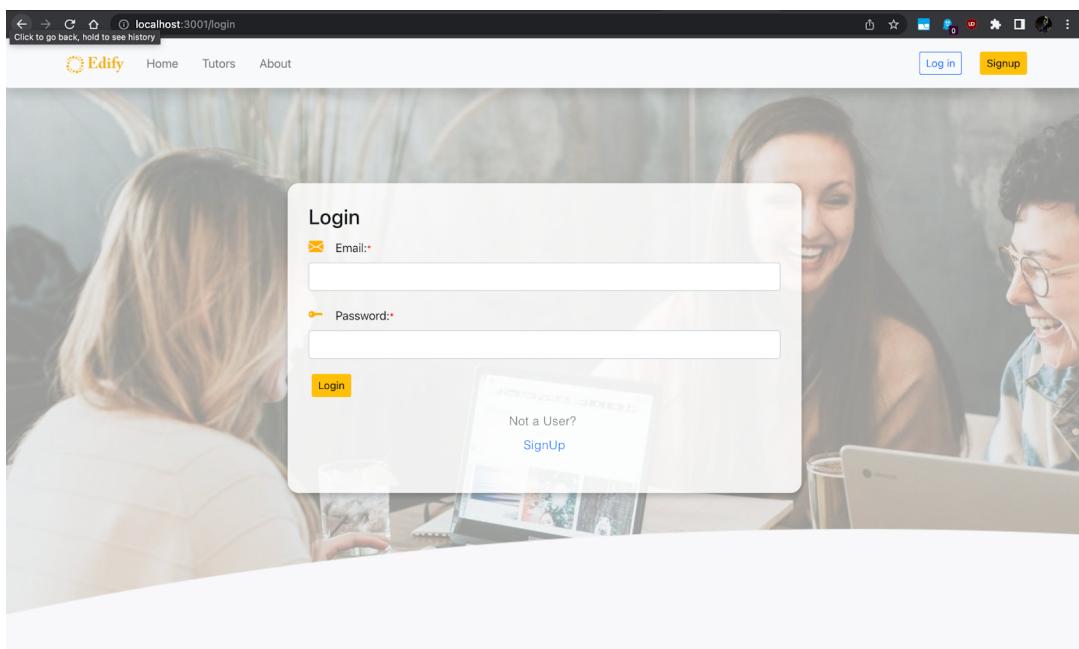
Database Design: Tutors, Students

Screenshots

Home Page:



Login Page:



Signup Page:

The screenshot shows a web browser window with the URL `localhost:3001/signup`. At the top, there's a navigation bar with the Edify logo, Home, Tutors, About, Log in, and Signup buttons. The main content area is titled "SignUp". It contains fields for First Name, Last Name, Email, Mobile, Password, Confirm Password, Bio, User (Student or Tutor selected), Courses, and an "Upload Profile Picture" section with a "Choose File" button. A "Submit" button is at the bottom. The background is a blurred image of two people working together on a laptop.

Tutors Page:

The screenshot shows a web browser window with the URL `localhost:3001/tutors`. The Edify navigation bar includes Home, Tutors, Favorites, Meetings, and About buttons, along with a Sign out button. A search bar at the top says "Search for Tutors or Courses...". Below it is a "Filter" button. Two tutor profiles are displayed. The first profile for "Severus Snape" shows a portrait, 450 Total Tutoring Hours, Hogwarts Certified Wizard, and Slytherin Head. It also lists Dark Magic, Potions as courses and has "Add to Favorites" and "Profile" buttons. The second profile is partially visible below it.

Tutor Details Page:

A screenshot of a web browser displaying the Edify Tutor Details page for a tutor named Severus Snape. The page features a large profile picture of Snape in his Slytherin robes. Key information displayed includes:

- Name:** Severus Snape
- Courses:** Dark Magic, Potions
- About me:** Slytherin Head. I'm the Half-Blood Prince!
- Total Tutoring Hours:** 450
- Appointments:** A form for booking an appointment with start date set to 05/13/2022 and time slot set to 8 AM - 9 AM. A "Book" button is present.
- Student feedback:** Average rating of 4.67 / 5 based on 5 reviews, accompanied by a 5-star rating icon.

The background of the page shows a blurred image of students in a classroom setting.

Only Available Appointments are Shown:

A screenshot of the same Edify Tutor Details page for Severus Snape, but with a dropdown menu open over the time slot selection field. The dropdown lists the following available time slots:

- 8 AM - 9 AM
- 9 AM - 10 AM
- 11 AM - 12 PM
- 12 PM - 1 PM
- 1 PM - 2 PM
- 3 PM - 4 PM
- 4 PM - 5 PM

The rest of the page content remains the same, including the profile picture, course information, and student feedback.

Reviews:

A screenshot of a web browser window titled "Edify" showing a "Student feedback" page. The URL in the address bar is `localhost:3001/tutors/627d99507315b62680964615`. The page displays an average rating of 4.67 / 5 based on 5 star ratings. Below the rating, three student reviews are listed:

- Harry Potter**: Good but serious and strict
- Hermione Granger**: He's the best
- Cedric Diggory**: Very good teacher

At the bottom, there is a text input field labeled "Add your comment here" and a yellow "Comment" button.

Favorites page:

A screenshot of a web browser window titled "Edify" showing the "Favorites" page. The URL in the address bar is `localhost:3001/favorites`. The page displays a profile for a tutor named **Severus Snape**, who is listed as having **Total Tutoring Hours: 450**. The profile includes the Hogwarts badge, the title **Certified Wizard**, and the description **Severus Snape**, *Slytherin Head. I'm the Half-Blood Prince!*. The courses listed are **Dark Magic Potions**. At the bottom of the profile box is a yellow "Remove from Favorites" button.

Meetings Page:

The screenshot shows a web browser window for the 'Edify' platform at the URL localhost:3001/appointments. The page has a header with the Edify logo, navigation links for Home, Tutors, Meetings, and About, and buttons for Edit Profile and Sign out. The main content area is titled 'My Appointments' and displays five scheduled meetings in a grid format. Each meeting entry includes a clock icon, the time range, the date, and a person icon followed by the name 'Meeting with Severus Snape'. The background of the page features a blurred image of three people sitting around a table.

Time	Date	Details
10:00 AM - 11:00 AM	Fri May 13 2022	Meeting with Severus Snape
2:00 PM - 3:00 PM	Fri May 13 2022	Meeting with Severus Snape
1:00 PM - 2:00 PM	Sat May 14 2022	Meeting with Severus Snape
1:00 PM - 2:00 PM	Sun May 15 2022	Meeting with Severus Snape
4:00 PM - 5:00 PM	Thu May 19 2022	Meeting with Severus Snape

Edit Profile Page:

The screenshot shows a web browser window for the 'Edify' platform at the URL localhost:3001/edit. The page has a header with the Edify logo, navigation links for Home, Tutors, Meetings, and About, and buttons for Edit Profile and Sign out. A modal dialog box is open in the center, titled 'User Details', containing fields for First Name, Last Name, Email, Mobile, Bio, and Courses. The bio field contains the text 'Slytherin Head. I'm the Half-Blood Prince!' and the courses field contains 'Dark Magic, Potions'. A yellow 'Confirm' button is at the bottom of the form. The background of the page features a blurred image of three people sitting around a table.

Field	Value
First Name	Severus
Last Name	Snape
Email	severus.s@hogwarts.com
Mobile	5585585580
Bio	Slytherin Head. I'm the Half-Blood Prince!
Courses	Dark Magic, Potions

A platform for students to learn from any course from a suitable professor of their choice, while parallelly

[Links](#)

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Appointment Details:

A screenshot of a web browser displaying the Edify application. The URL in the address bar is `localhost:3001/appointments/627dbad14d688b71f45e5aa`. The page title is "Edify" and the sub-page title is "Appointment Details". The main content area shows the following information:

- Status: SCHEDULED
- Tutor: Severus Snape
- Student: Hermoine Granger
- Date: Thu May 19 2022
- Time: 4:00 PM - 5:00 PM
- Course:

On the right side of the content area, there is a graphic featuring a red calendar icon and a large clock with a blue checkmark indicating the scheduled time. The background of the page shows a blurred image of two people, a man and a woman, sitting at a desk.

Conclusion

We have created a Web Project - Edify with all the basic functionalities.

Further improvements can be made to the project like,

- Email Notifications
- Hosting the Project on Cloud

It was a very interesting project where we learned a lot while creating it. Using React made it very easy to integrate and reduced redundancy.

Here's the video link for the Demo. Our demo is Harry Potter themed including Tutors and Students. Please Enjoy!!

Link: <https://youtu.be/18o-cdOs5hM>

Note: Our Recording Software didn't show the pop-ups(Appointment timings drop-down) but we only show the available appointments for booking. Please refer to the screenshots above for the drop-down snapshot.

