Project Report

Title: Online Tutoring Application

Website Name: TutorIt

Team Members: Binal Ashok Shah (BXS180001) and Manav Nareshbhai Prajapati (mnp200002)

Project Description:

Online Tutoring Application is a website where a user can sign up or login. The website will list all tutors in the system and a user will be able to "Search" for a specific tutor name or search for tutors for a given subject (area of expertise). Users will be able to add tutors to their favorite list, access their favorite list and remove tutors from the list. Users should be able to rate a given tutor. They will also enter their feedback/comments. Tutors will be able to sign-up for a tutor account. They will be able to enter their detailed information (subject list, about me, working hours) and upload profile picture. They will be able to edit and update these details as well. Users will be able to make appointments with a tutor of their choice. For making appointments, availability of the tutor can be checked (both working hours and previously booked appointments). For users, upcoming appointments is listed along with tutor name, date and time information. For tutors, upcoming appointments is listed along with student, date and time information. For users, total tutoring hours completed is shown. For tutors, total tutoring hours completed, and average rating is shown.

Database Design:

Appointments

```
const appointmentsSchema = new Schema({
  courseCode: { type: String, required: true },
  userId: { type: Schema.Types.ObjectId },
  tutorId: { type: Schema.Types.ObjectId },
  appointmentDate: { type: Date },
  appointmentLocation: { type: String },
  appointmentTime: { type: String },
```

```
  appointmentDuration: { type: String, default: "1" },
  isBooked: { type: Boolean, default: false },
  isDone: { type: Boolean, default: false },


});
```

Authentication

```
const authenticationSchema = new Schema({
  email: { type: String, required: true },
  rand: { type: String },
  password: { type: String, required: true },
  role: { type: Number },
});
```

Feedback

```
const feedbackSchema = new Schema({
  userId: { type: Schema.Types.ObjectId },
  tutorId: { type: Schema.Types.ObjectId },
  rating: { type: Number },
  comment: { type: String },
});
```

Tutor

```
const tutorSchema = new Schema({

  name: { type: String },
  about: { type: String },
  image: { type: String },
  courses: [
    { type: String }
  ],
  rating: { type: String }

});
```

User

```
const userSchema = new Schema({
   favouriteTutorId: [{ type: Schema.Types.ObjectId }],
   name: { type: String },
});
```

Work division among team members:

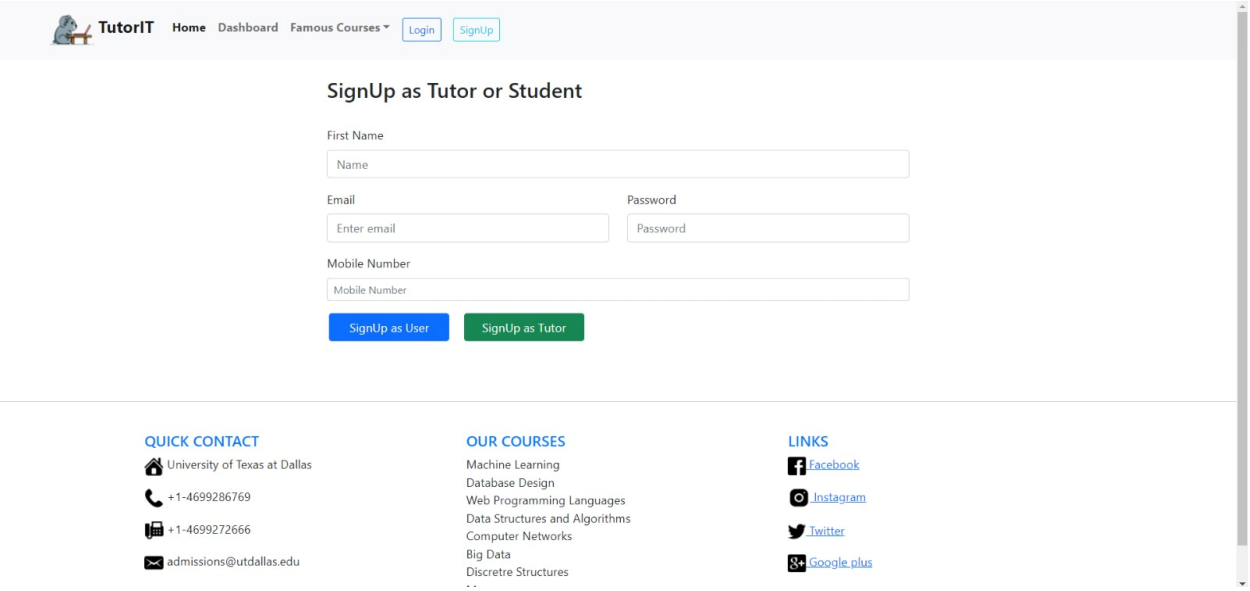
To complete this job, all members worked simultaneously.
Binal: Designed the database schema. Worked on sign up and login
Manav: Designed the front-end. Worked on search, update and list tutors
All members worked together on all other functionalities and on integration of back-end and front-end. All members checked accuracy of the code. All members contributed equally to complete this project.

Technologies Used:

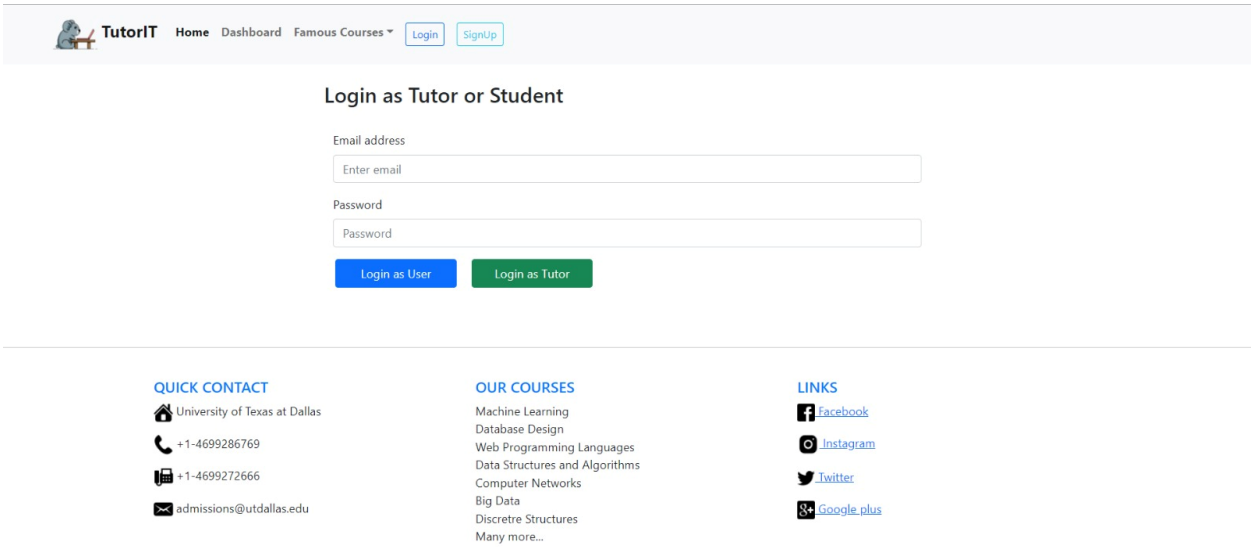
Front-End: React, CSS, Bootstrap
Back-End: Node.js, Express.js, Mongoose
Database: MongoDB Atlas

Project Functionalities with screenshot of the outcome:

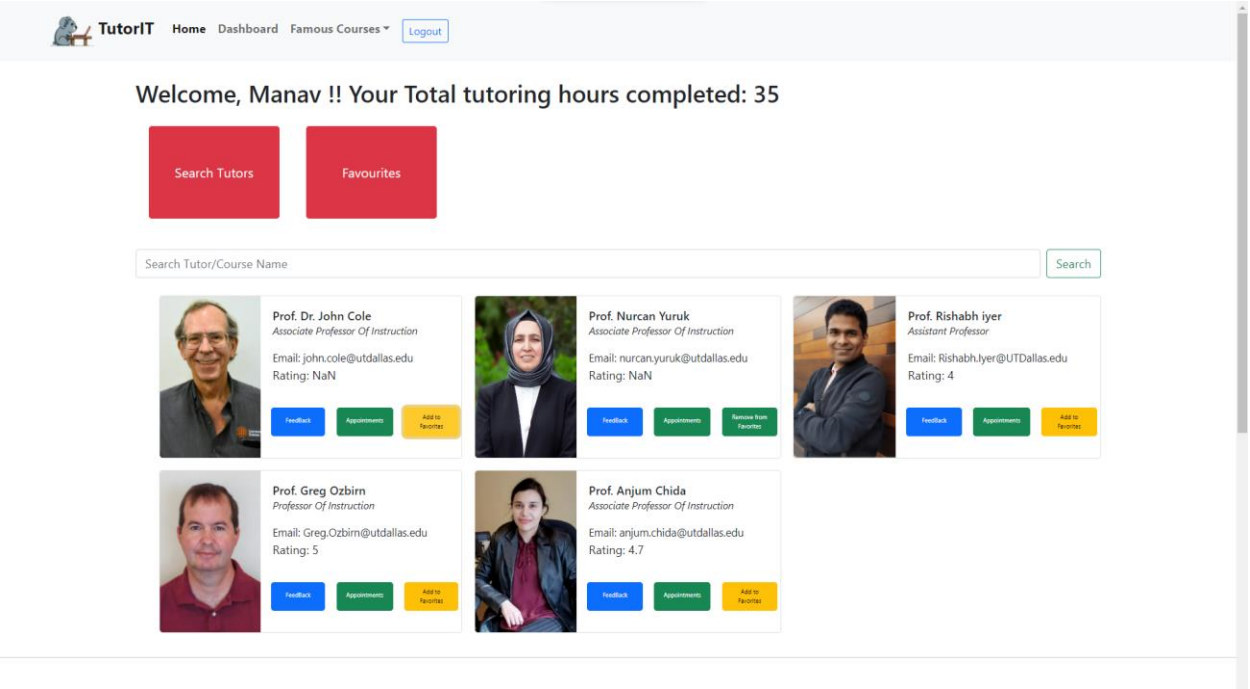
1. User Signup. Registering a new user to the system



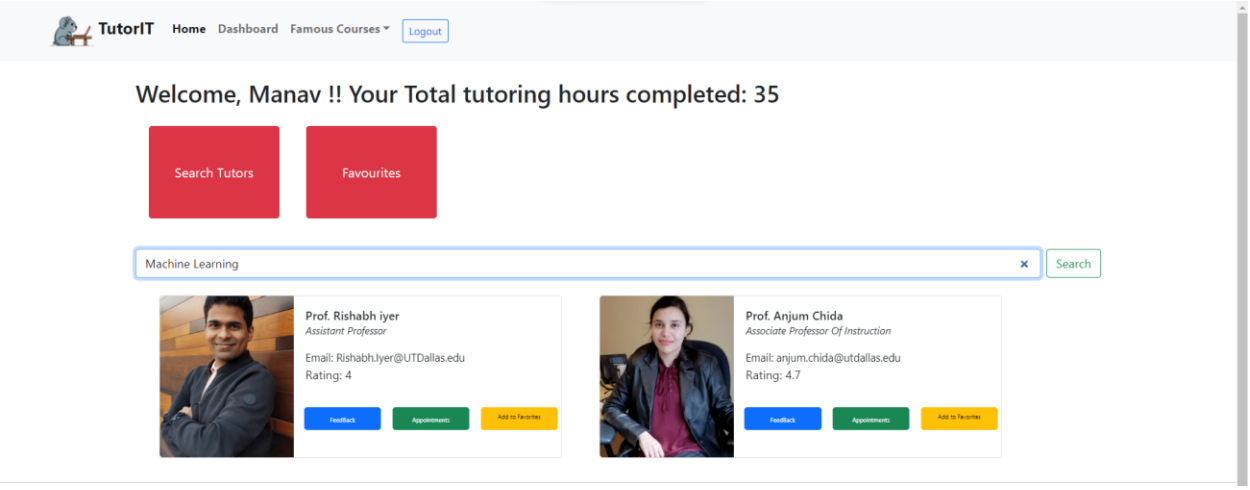
2. User login



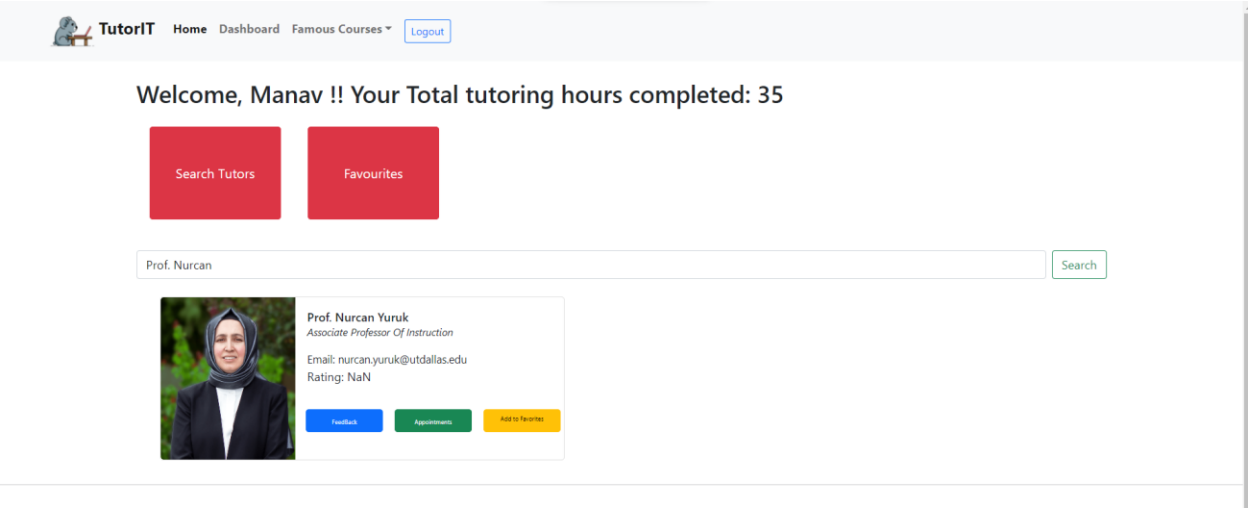
3. Listing all tutors in the system with the ability to “Search” for a specific tutor name or search for tutors for a given subject (area of expertise).



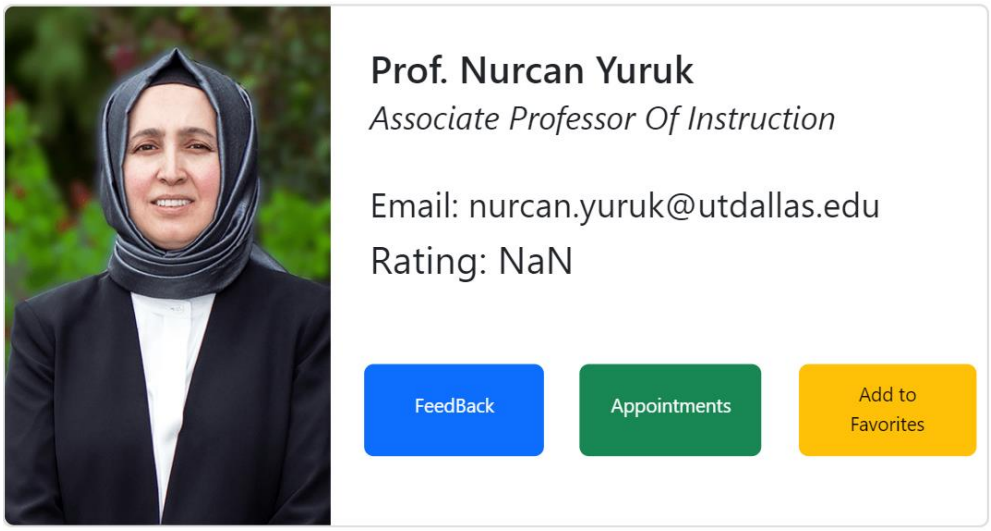
Search By Area of Expertise

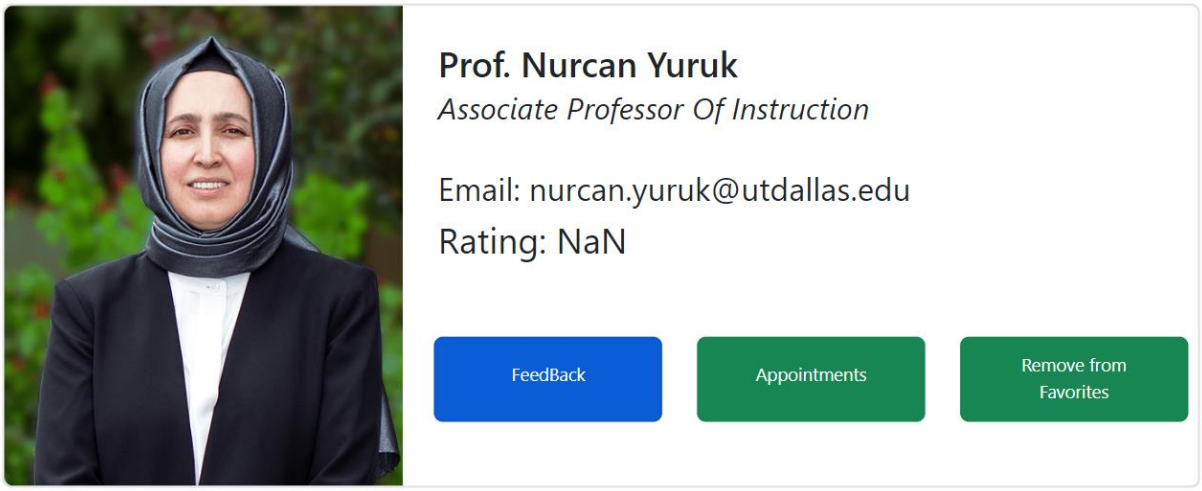


Search by Tutor

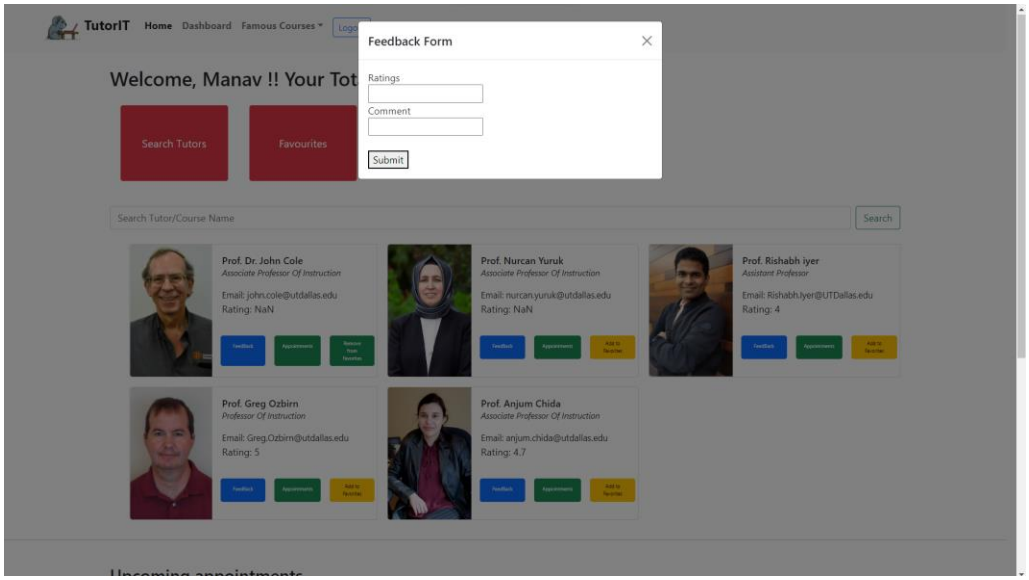


4. Ability to add tutors to user's favorite list, access their favorite list and remove tutors from the list.

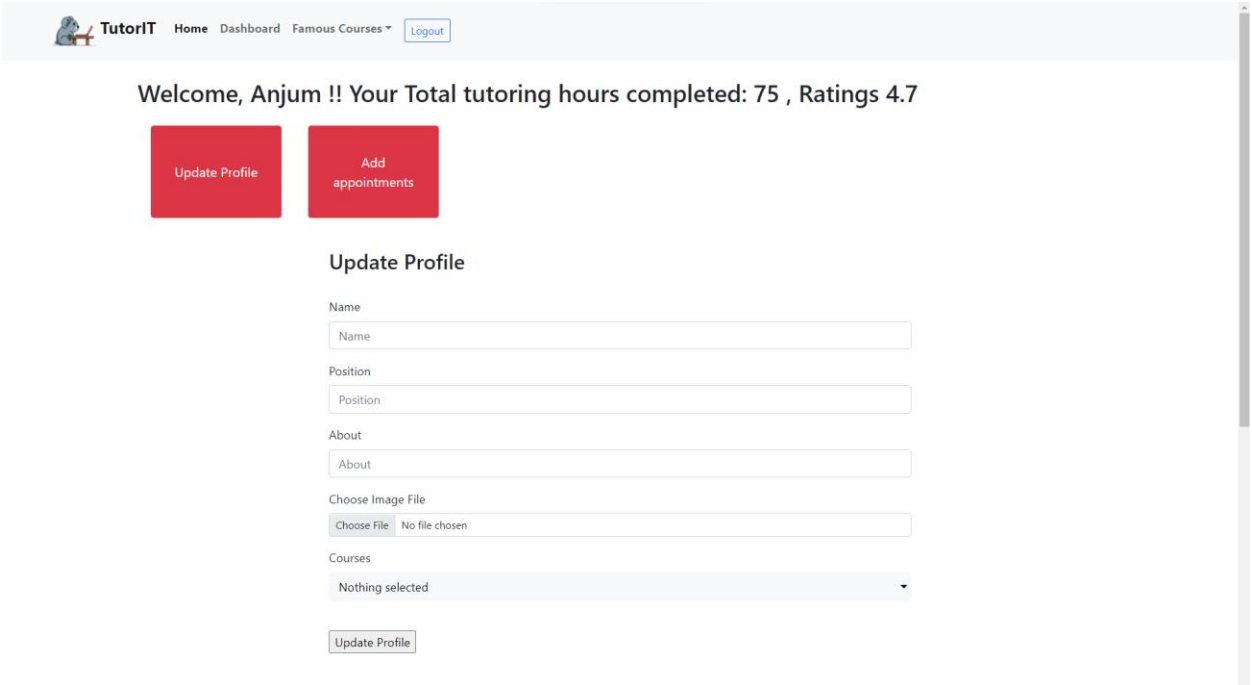




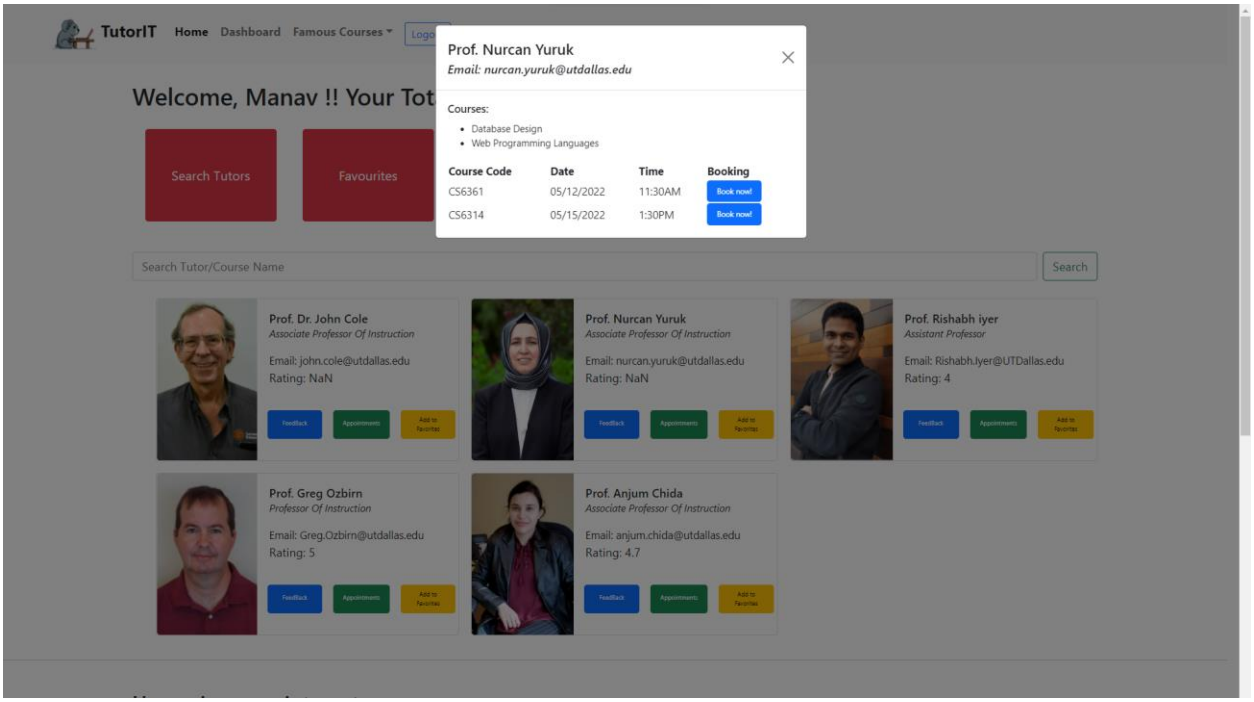
5. Ability to rate a given tutor and enter feedback/comments.



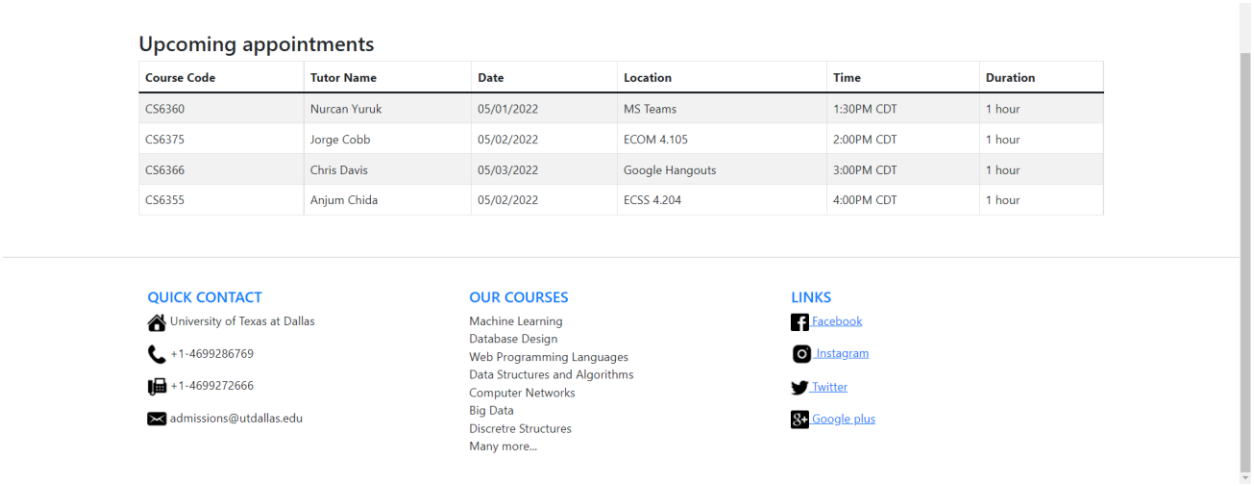
6. Tutors will be able to sign-up for a tutor account. They will enter their detailed information (subject list, about me, working hours) and upload profile picture. They should be able to edit and update these details as well.



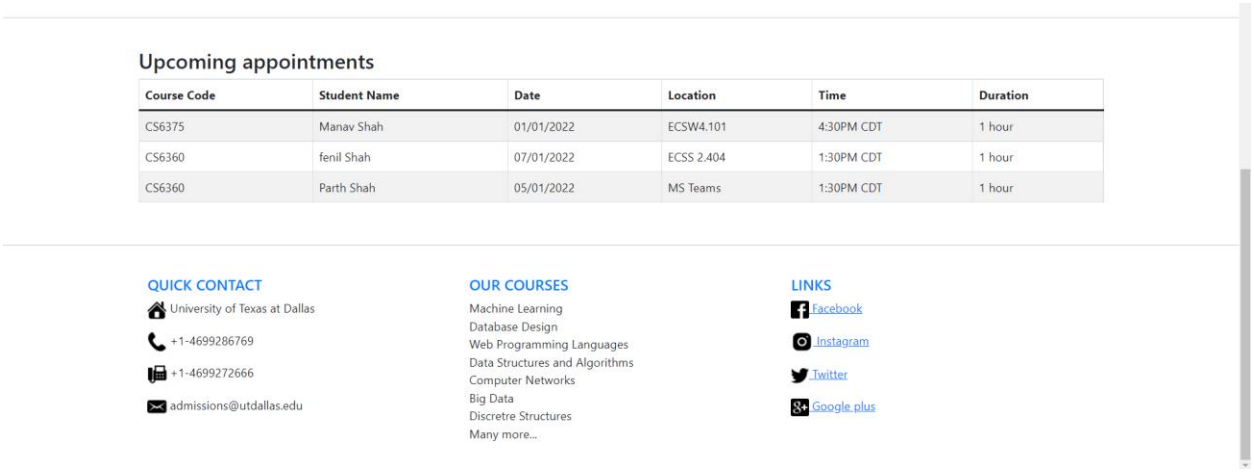
7. Ability to make appointments with a tutor of choice.



8. For users, listing upcoming appointments along with tutor name, date and time information.



9. For tutors, listing upcoming appointments along with student, date and time information.



Upcoming appointments

Course Code	Student Name	Date	Location	Time	Duration
CS6375	Manav Shah	01/01/2022	ECSW4.101	4:30PM CDT	1 hour
CS6360	fenil Shah	07/01/2022	ECSS 2.404	1:30PM CDT	1 hour
CS6360	Parth Shah	05/01/2022	MS Teams	1:30PM CDT	1 hour

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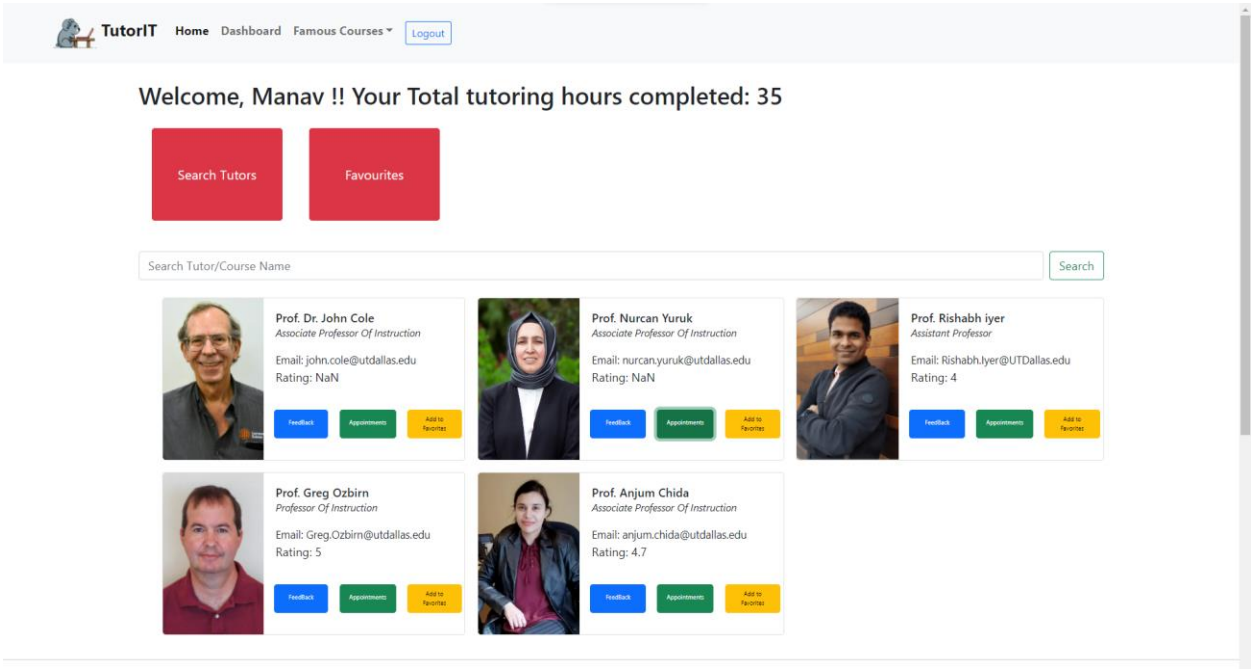
10. For users, showing total tutoring hours completed.



TutorIT Home Dashboard Famous Courses Logout

Welcome, Manav !! Your Total tutoring hours completed: 35

Search Tutors | Favourites

Search Tutor/Course Name | Search

Prof. Dr. John Cole
Associate Professor Of Instruction
Email: john.cole@utdallas.edu
Rating: NaN
Feedback | Appointments | Add to Favorites

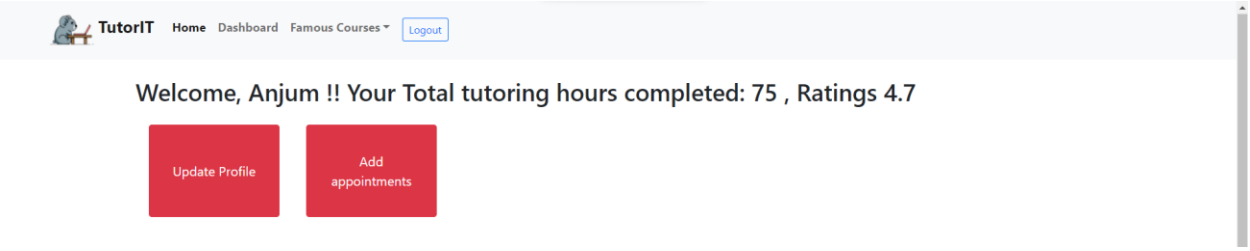
Prof. Nurcan Yuruk
Associate Professor Of Instruction
Email: nurcan.yuruk@utdallas.edu
Rating: NaN
Feedback | Appointments | Add to Favorites

Prof. Rishabh Iyer
Assistant Professor
Email: Rishabh.Iyer@UTDallas.edu
Rating: 4
Feedback | Appointments | Add to Favorites

Prof. Greg Ozbirn
Professor Of Instruction
Email: Greg.Ozbirn@utdallas.edu
Rating: 5
Feedback | Appointments | Add to Favorites

Prof. Anjum Chida
Associate Professor Of Instruction
Email: anjum.chida@utdallas.edu
Rating: 4.7
Feedback | Appointments | Add to Favorites

11. For tutors, showing total tutoring hours completed, and average rating.



Video Link: https://drive.google.com/drive/folders/1w9EalWDvyEIvTAMiGS8xAEDSkRr5hPAi?usp=sharing