Project Title: Online Tutoring Application

Website Name: Tutor-asium

1. PROJECT DESCRIPTION:

Major functionalities:

- User signup: Register a new user to the system.
  - Check the new username or email address if it's already registered to the system using AJAX.
  - Form validation: Check if all mandatory fields are filled out.
  - Check if the password is strong enough. Define the rules of having a strong password. User passwords should be hashed, and hashed versions of passwords should be stored in the database.
- User login
- List all tutors in the system. Users should 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 enter their detailed information (subject list, about me, working hours) and upload a profile picture. They should 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, the availability of the tutor should be checked (both working hours and previously booked appointments).
- For users, upcoming appointments should be listed along with tutor name, date, and time information.
- For tutors, upcoming appointments should be listed along with student, date, and time information.
- For users, total tutoring hours completed should be shown.
- For tutors, total tutoring hours completed, and average rating should be shown.

2. DATABASE DESIGN:

TUTORS:

```
[{
  "_id": {
    "$oid": "62560653ac7a63e1af0cf0a2"
  },
  "name": "Victor Jay",
  "about_me": "I have been tutoring for 10 years now and it's truly been one of the most rewarding experiences of my life.",
```

    "experience": "15",
    "expertise": [
      "Physics"
    ],
    "tutor_img": "",
    "hours": "10",
    "rating": "5"
},{
    "_id": {
      "$oid": "62560653ac7a63e1af0cf0a5"
    },
    "name": "Adam",
    "about_me": "Adam, a master tutor, graduated from Montclair State University and has been a passionate educator for thirteen years.",
    "experience": "13",
    "expertise": [
      "Arts"
    ],
    "tutor_img": "",
    "rating": "4.5",
    "hours": "12"
},{
    "_id": {
      "$oid": "62560653ac7a63e1af0cf0a7"
    },
    "name": "Asha",
    "about_me": "Hello, I am Asha. I am passioante about teachinh. My areas of expertise include general science and Math.",
    "experience": "7",
    "expertise": [
      "Math"
    ],
    "tutor_img": "",
    "hours": "14",
    "rating": "3.8"
},{
    "_id": {
      "$oid": "62560653ac7a63e1af0cf0a8"
    },
    "name": "Ellen",

    "about_me": "I am a recent retired college professor of environmental engineering. I have degrees in computer science and chemical engineering.",
    "experience": "15",
    "expertise": [
      "Chemisrty"
    ],
    "tutor_img": "",
    "hours": "6",
    "rating": "4.8"
},{
    "_id": {
      "$oid": "62560653ac7a63e1af0cf0aa"
    },
    "name": "Martin A.",
    "about_me": "I am highly motivated math and science tutor with over 15 years of experience. I have over 10 years of hands-on experience working as a research chemist.",
    "experience": "15",
    "expertise": [
      "Math"
    ],
    "tutor_img": "",
    "hours": "5",
    "rating": "4.9"
},{
    "_id": {
      "$oid": "62560653ac7a63e1af0cf0ab"
    },
    "name": "Matthew M.",
    "about_me": "Matthew, a master tutor, is a caring, compassionate, and a thorough teacher and tutor. ",
    "experience": "3",
    "expertise": [
      "Math"
    ],
    "tutor_img": "",
    "hours": "13",
    "rating": "3.9"
},{
    "_id": {
      "$oid": "627c3b4a8f071e8aa1bb9706"
    },

```json
  "name": "Rock.",
  "about_me": "Good teacher ",
  "experience": "5",
  "expertise": [
    "Math"
  ],
  "tutor_img": "",
  "hours": "14",
  "rating": "4.0"
}]
```

USERS:

```json
[{
  "_id": {
    "$oid": "627a869022ba0bd3b0a664e0"
  },
  "username": "emily",
  "email": "emily@abc.com",
  "password": "$2a$10$qIWQ5pubinhVH5l72zJYUuAgPdoBmI1EJcUMQcE0hDBu4A8.ZYp8K",
  "favorites": [
    "62560653ac7a63e1af0cf0a2",
    "62560653ac7a63e1af0cf0a2"
  ],
  "hours": "14"
},{
  "_id": {
    "$oid": "627be2c83ad963f03698fb3a"
  },
  "username": "jacob",
  "email": "jacob@abc.com",
  "password": "$2a$10$qIWQ5pubinhVH5l72zJYUuAgPdoBmI1EJcUMQcE0hAbcde.ZYp8K",
  "favorites": []
},{
  "_id": {
    "$oid": "627c1e96c5f4c71328d1afea"
  },
  "username": "jane",
  "email": "jane@abc.com",
  "password": "$2a$10$qIWQ5pubinhVH5l72zJYUuAgPdoBmI1EJcUMQcE0hAbcde.ZYp8K",
```

```
  "favorites": []
}]
```

APPOINTMENTS:

```
[{
  "_id": {
    "$oid": "627c3bfbc5f4c71328d1aff4"
  },
  "tutor": "Victor Jay",
  "username": "emily",
  "date": {
    "$date": "2022-05-11T22:00:00Z"
  }
},{
  "_id": {
    "$oid": "627c3c16c5f4c71328d1aff5"
  },
  "tutor": "Victor Jay",
  "username": "jacob",
  "date": {
    "$date": "2022-05-11T23:00:00Z"
  }
}]
```

RATINGS:

```
[{
  "_id": {
    "$oid": "627c3686c5f4c71328d1afed"
  },
  "username": "emily",
  "tutorId": "62560653ac7a63e1af0cf0a5",
  "ratings": "4.5",
  "feedback": "Good explainer"
},{
  "_id": {
    "$oid": "627c3726c5f4c71328d1afee"
  },
  "username": "emily",
```

"tutorId": "62560653ac7a63e1af0cf0a2",

"ratings": "5",

"feedback": "Really good"

}]

3. LANGUAGES/FRAMEWORK USED:

Front-end: HTML, CSS, JavaScript, Bootstrap, React.js

Back-end: JavaScript, Node.js, Express.

Database: MongoDB
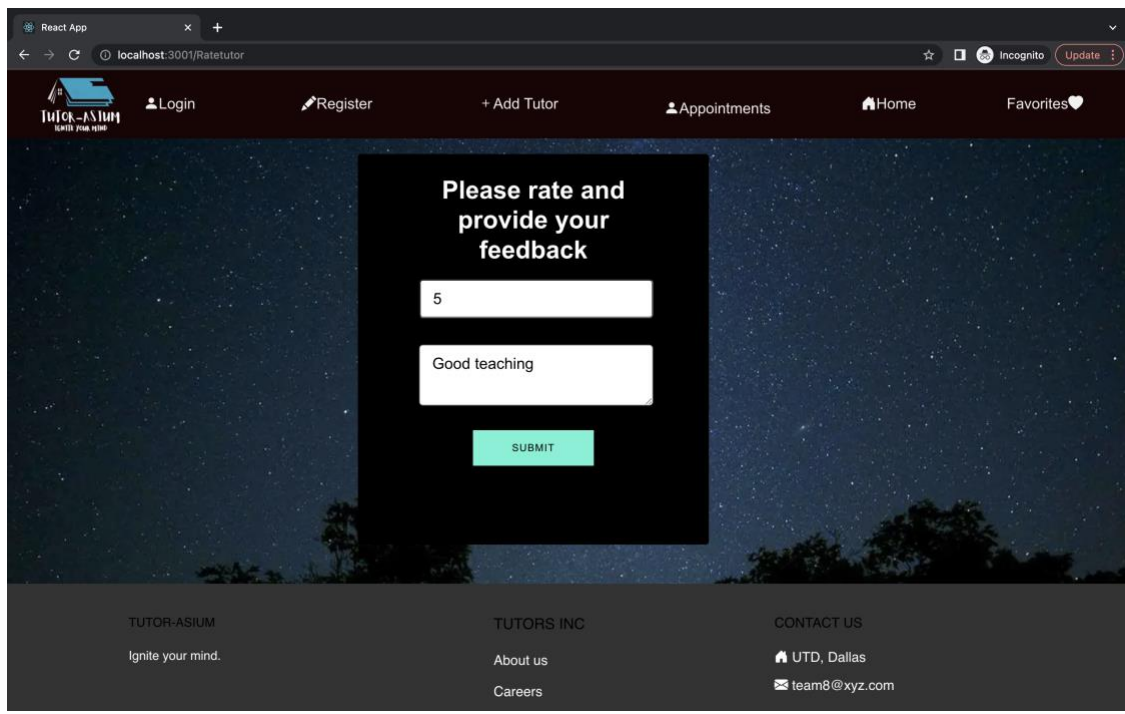
4. SCREENSHOTS:
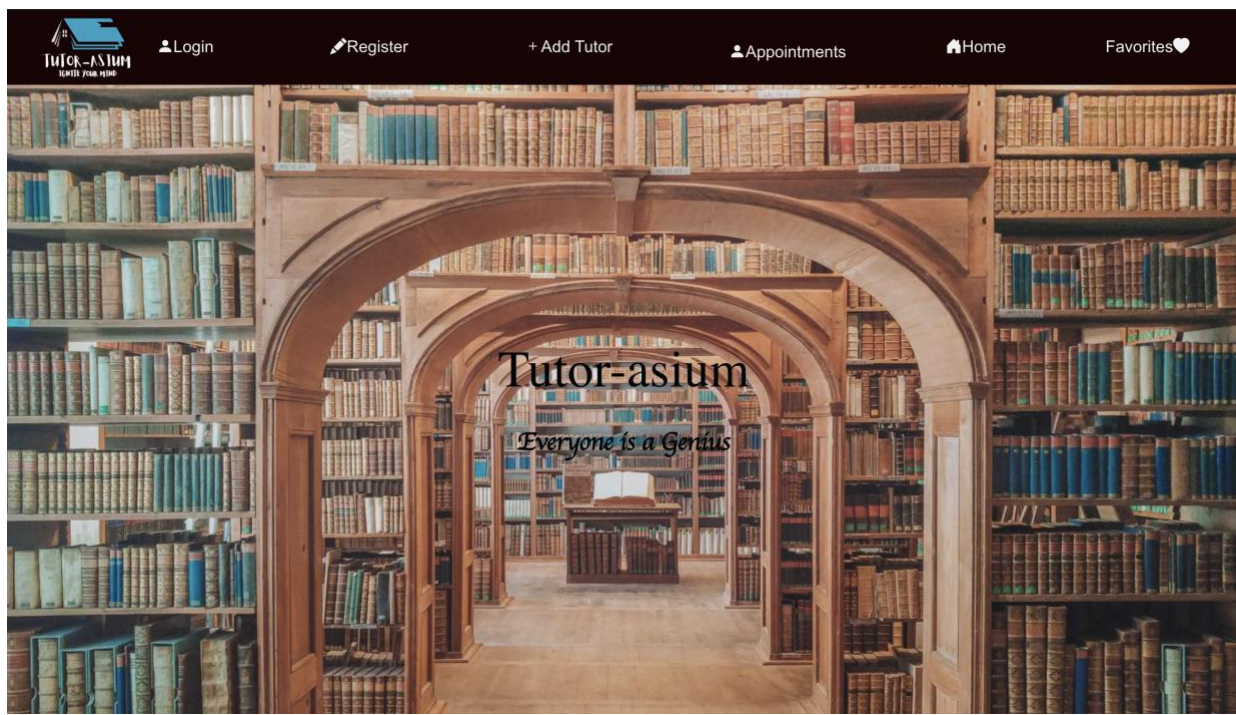
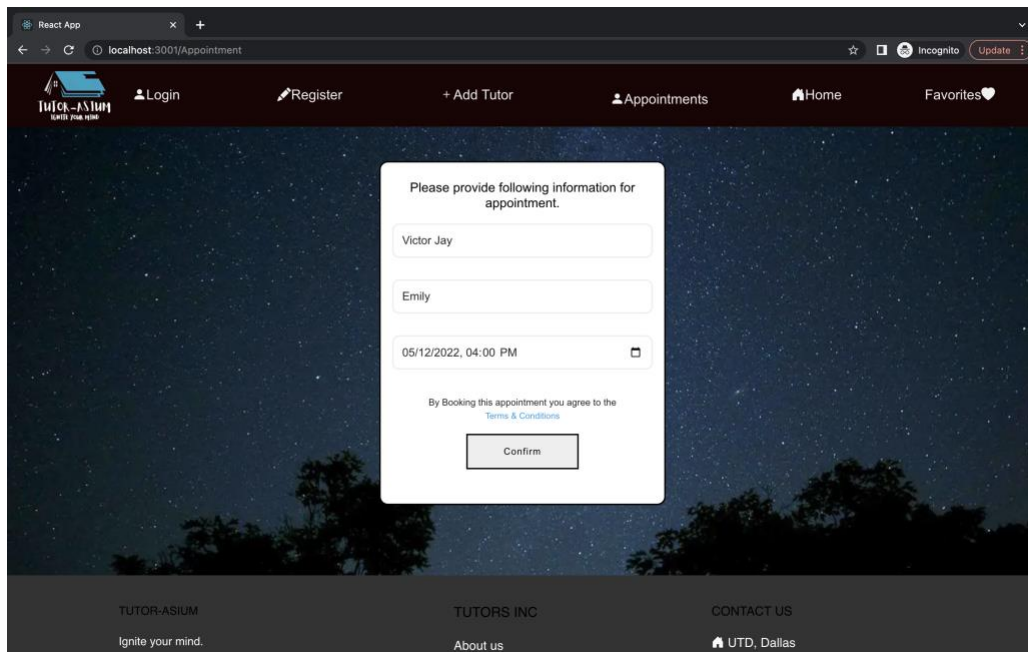
Screenshot 1: Home Page
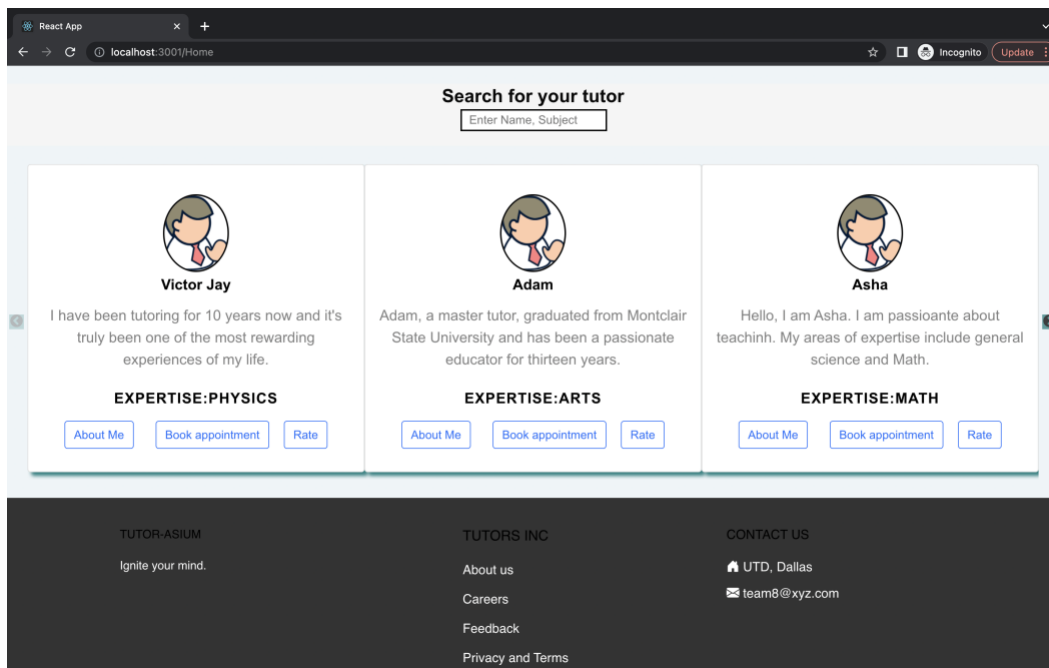
Screenshot 2: Home Page (Tutor List page)
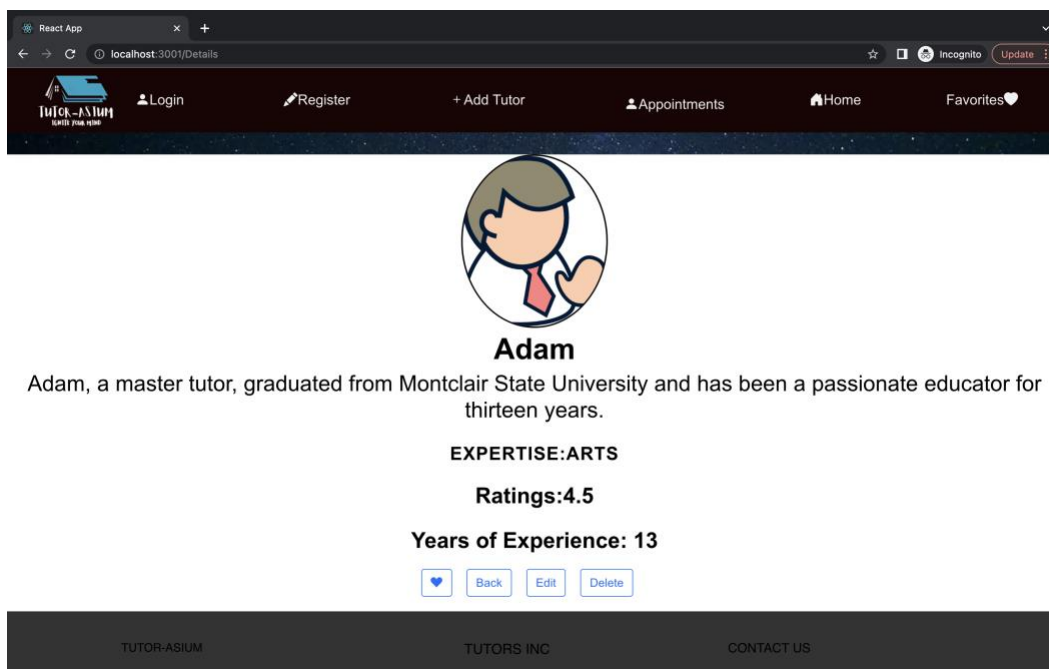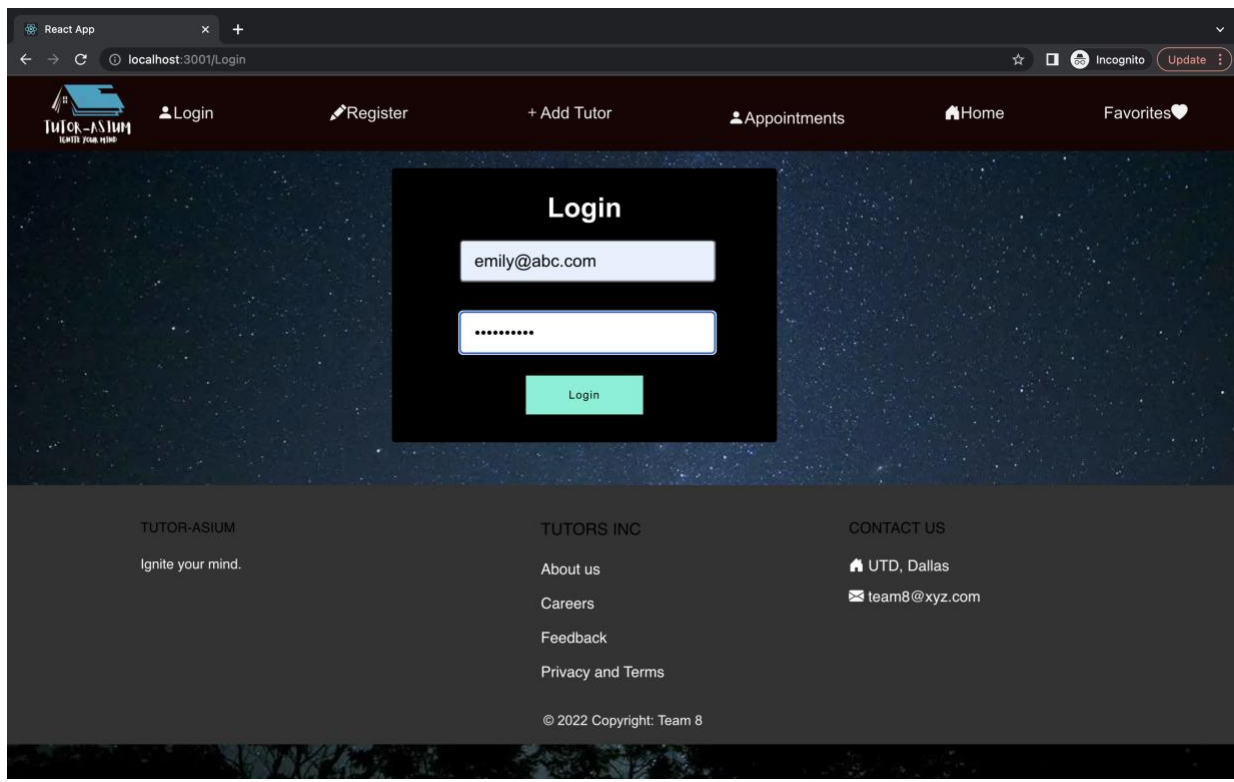

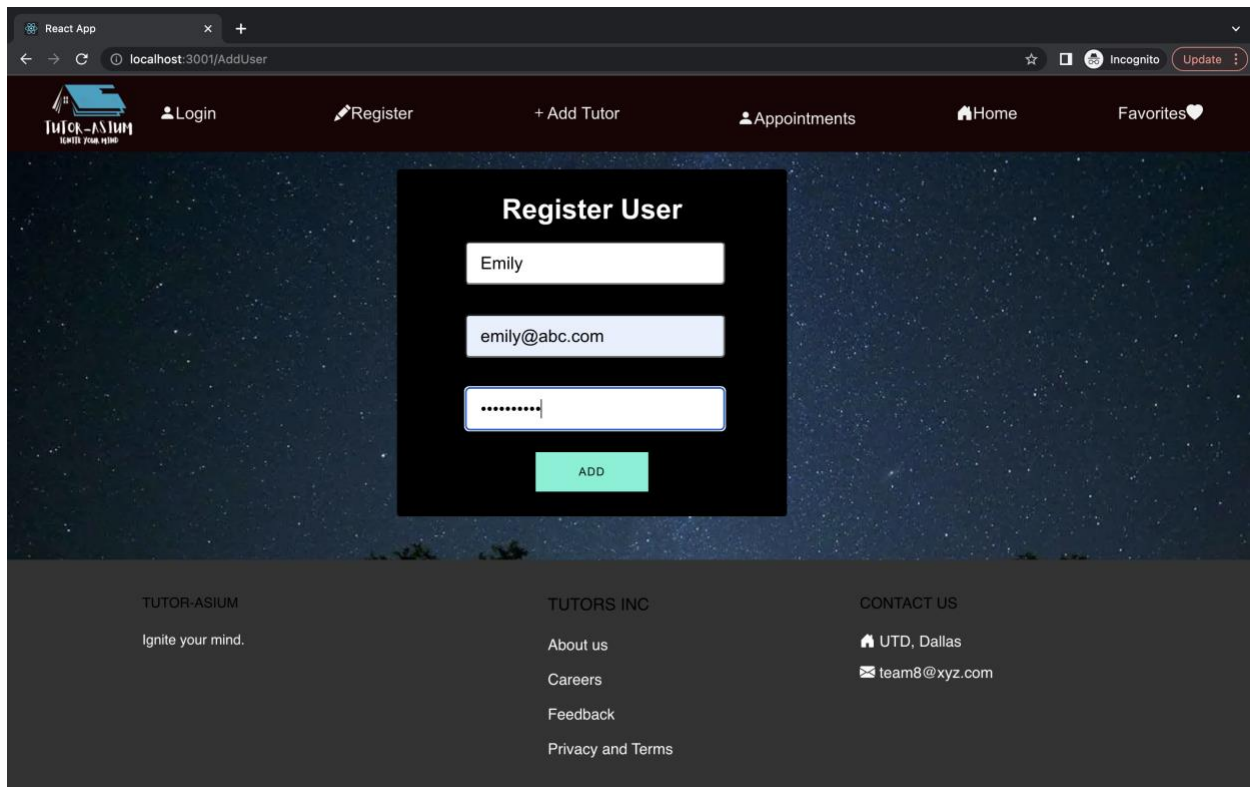*Screenshot 3: Tutor detail*

Screenshot 4: Feedback page
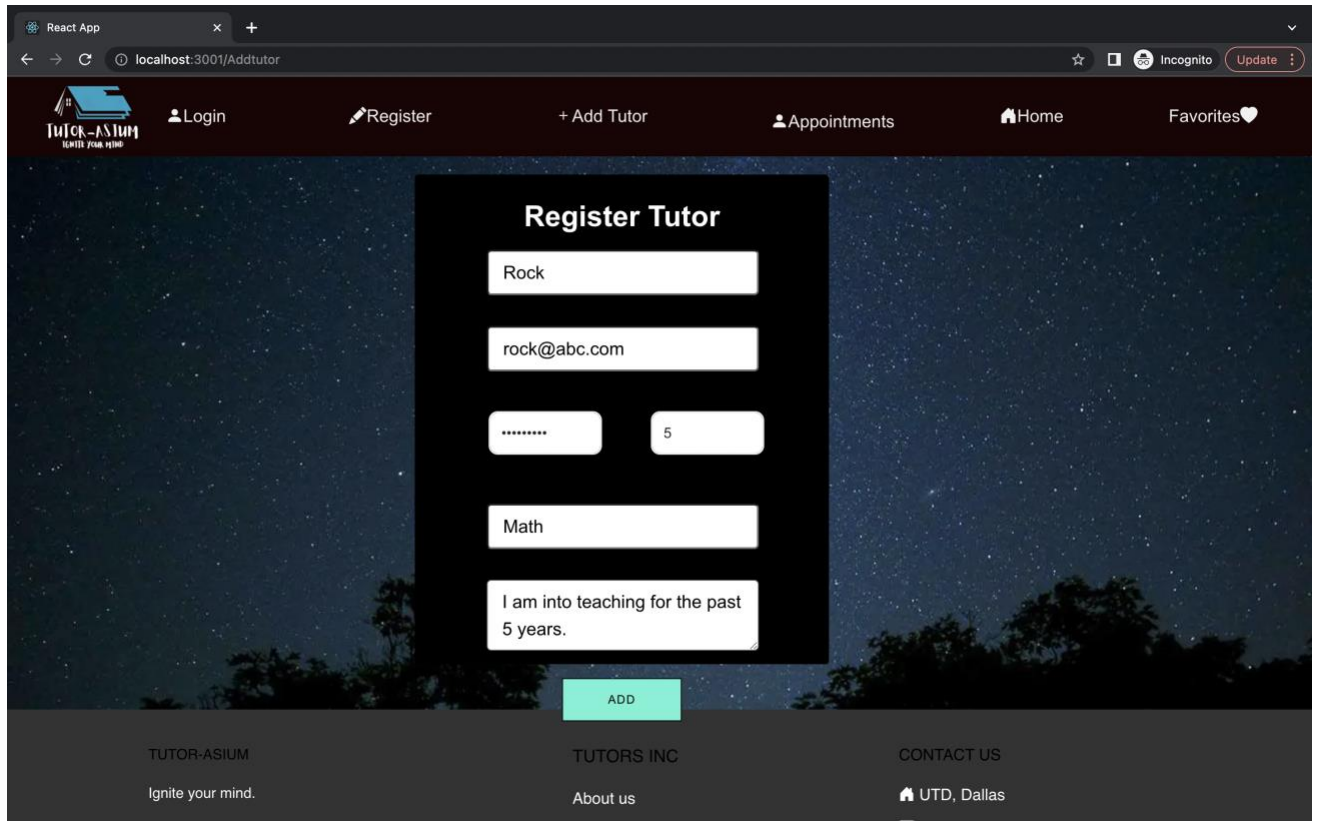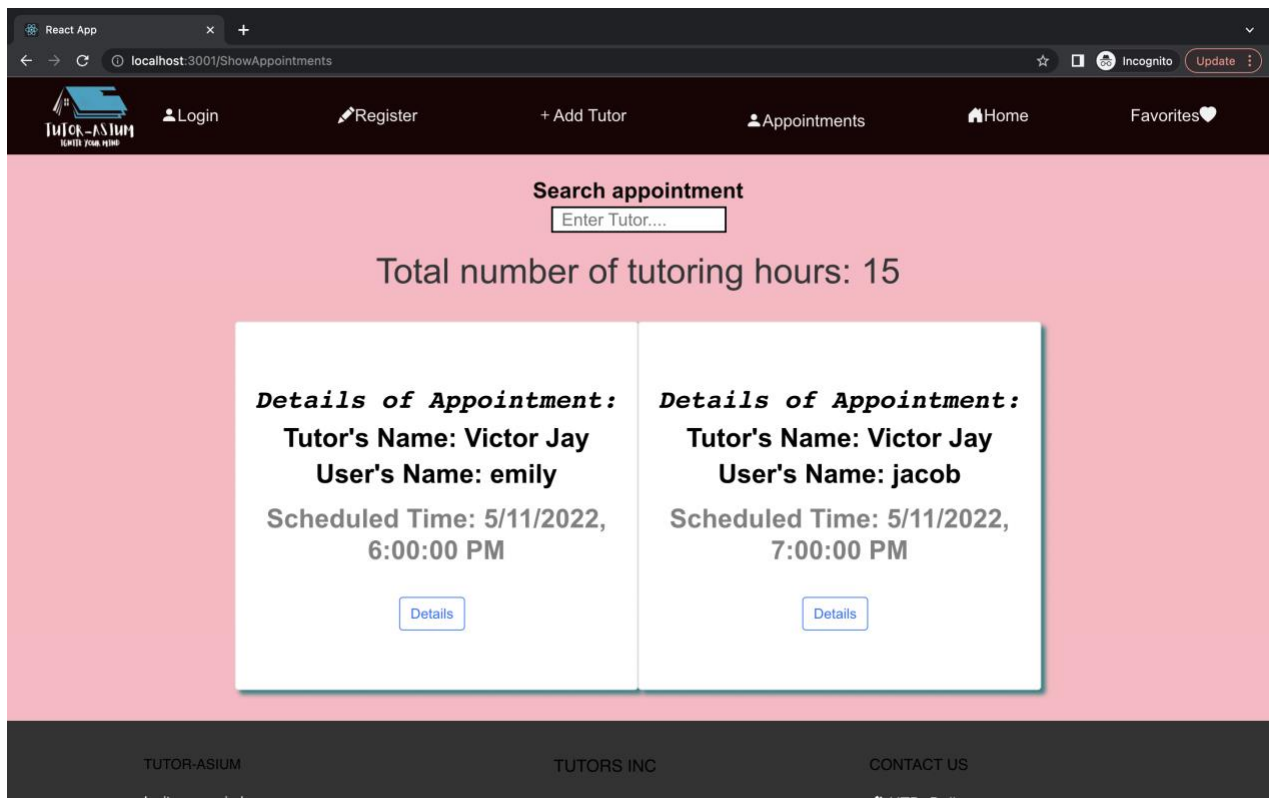

Screenshot 5: Appointment Page
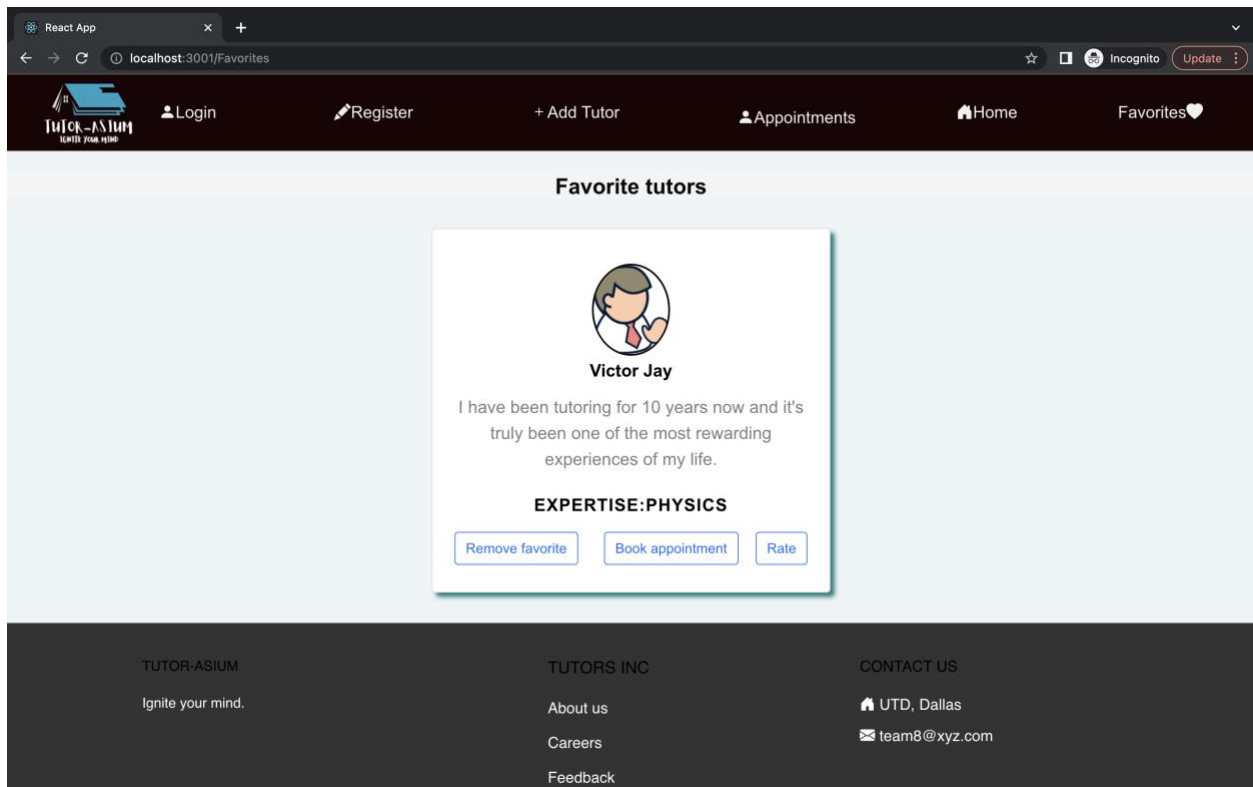
Screenshot 6: Login Page

Screenshot 7: Register User Page

Screenshot 8: Register tutor Page

Screenshot 9: Appointments Page

Screenshot 20: Favorite tutors Page