Technicians HUB

Someday we are in need for a technician to repair something at our home or company. In the normal case we're asking a neighborhood or a friend if he/her knows a good technician to do the job for us.

Technicians HUB is a web platform designed to connect users with skilled technicians effortlessly. Whether you need a plumber, electrician, HVAC technician, or any other service provider, our platform enables you to find, review, and hire professionals with ease.

Github Repository:

https://github.com/ehabsmh/technicianHUB-v1

Api documentation:

https://documenter.getpostman.com/view/25562679/2sA3XY7HwW#intro

Technologies

Backend:

- NodeJS
- ExpressJS
- MongoDB using Mongoose ODM

Frontend:

- Reactjs
- Tailwindcss

Devops:

Docker

Third Services

- Jsonwebtoken
- bcrypt
- Nodemailer
- JOI validations

CHALLENGES

Security:

- Protecting user data, including personal information.
- Implementing robust authentication and authorization mechanisms (e.g., JWT).

Trust and Safety:

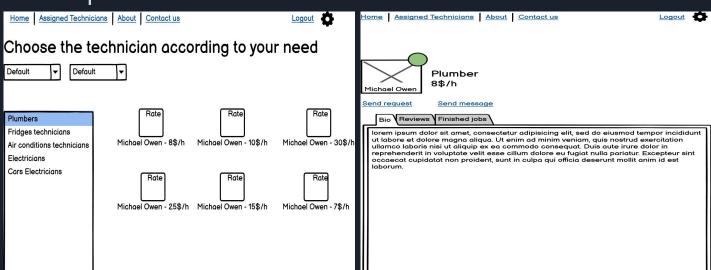
- Building trust with users by ensuring technicians are vetted and reliable.
- Implementing features like reviews, ratings, and background checks for technicians.

Trello board https://trello.com/b/a3Wur5Xm/alx-graduation-project

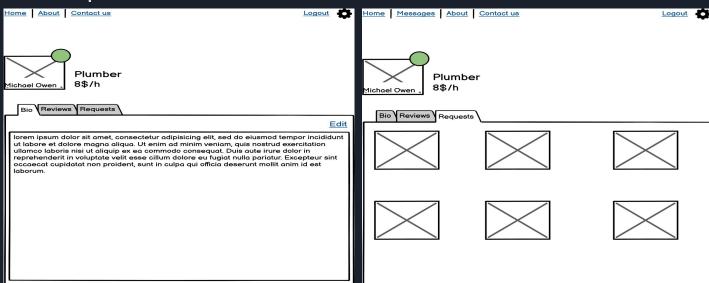
Mockups - login/register



Mockups - customers view



Mockups - technician view



Data Modelling

```
users
```

```
_id: ObjectId,
firstName: String,
lastName: String,
email: String,
password: String,
phone: Number,
address: string,
birthDate: String,
role: String, enum(user, technician),
picture: string,
emailConfirmed: Boolean,
customerDetails: {
  assignedTechIds: [...Oids],
technicianDetails: {
  service: String,
  salary: Number,
  bio: String,
  rate: Number,
  reviewsCount: Number,
  isAvailable: Boolean
createdAt: datetime,
updatedAt; datetime
```

```
_id: ObjectId,
     reviewedBy: ObjectId,
     reviewedFor: ObjectId,
     content: String,
     rate: Number,
     created_at: datetime,
     updated_at: datetime,
jobRequest
                                      chats
    _id: ObjectId,
                                            _id: ObjectId,
   requestTo: ObjectId,
                                            senderld: Objectld,
   requestBy: ObjectId,
                                            receiverId: ObjectId,
   title: String,
                                            message: String,
   description: String,
                                            created_at: datetime,
   createdAt: datetime
                                            updated_at: datetime,
iobState
```

reviews

What I've learned?

Backend

- Mongoose ODM
- signing and verifying a json web token.
- Sending emails and handling email confirmations
- What is Middleware and how to use it.

Frontend

- State Management using Context API.
- Component life cycle.
- Handling routes with Protected Routes.

Next Steps

• Embedding Google maps to track technicians locations, and get nearby technicians

Q&A Thank you