ASCENDION

Capstone Project

Personal BACKGROUND

(Name, Past Experience, Qualification, Career Summary)

Name : Raghunath Singh

Past Experience : Fresher

Qualification : B.tech

Career Summary : A recent Computer Science graduate who enjoys full-stack programming, particularly in JavaScript, Node.js and React. I'm excited to begin my career and apply my abilities to real-world projects, all while continuing to learn and grow in the tech area.

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Knowledge before Training

•Basic understanding of JavaScript fundamentals (functions, loops, DOM manipulation).

•Familiarity with React, including creating components and managing state.

•Some experience working with HTML and CSS for front-end development.

•Oops and Data Structure and Algorithms in JAVA

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Key Takeaways/Learnings from the Program (HTD)

- Developed a solid understanding of **React** for building dynamic UIs.

- Enhanced **JavaScript** skills for both front-end and back-end.

- Learned to build **RESTful APIs** using **Express** and integrate with **MongoDB**.

- Practiced **CRUD operations** across web applications.

- Gained experience using **Jira** for project management.

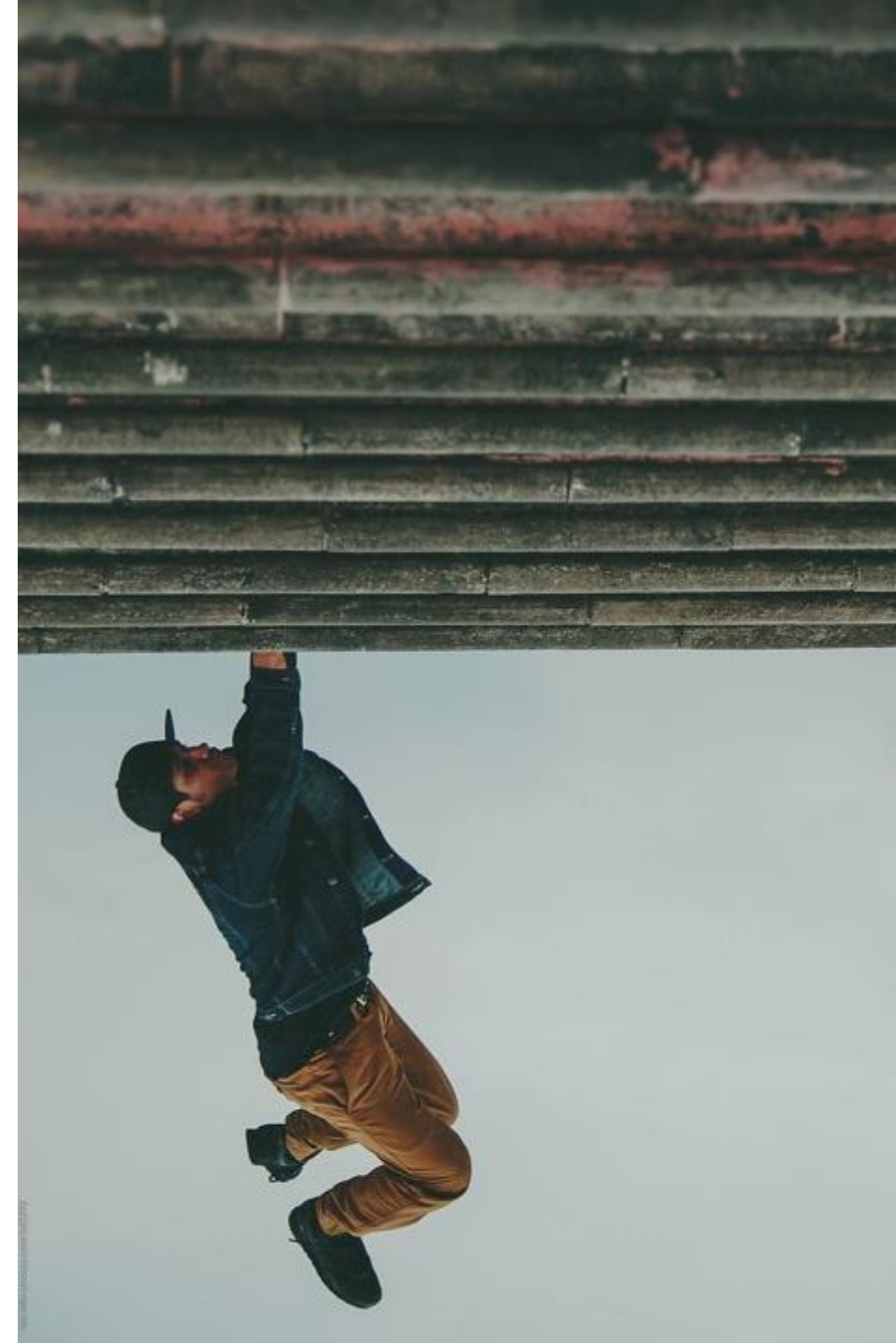- Learned basic **security standards** to protect applications.

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Problem Statement of the Capstone Project

Development of Service booking website to book services like cleaning, painting, plumbing, electricity using React, Material UI, Redux, Thunk in Front end and MongoDB, Node and Express as backend

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Libraries used in the Frontend:

1. Material UI (for responsiveness)

2. Express-Validator (for validation)

3. JWT Decode

4. React-rating-stars-component

5. React-redux

6. React Router DOM (for routing)

Libraries used in the Frontend:

1. BcryptJS (for password security)

2. Cors

3. Dotenv

4. Express-validator

5. Jsonwebtoken
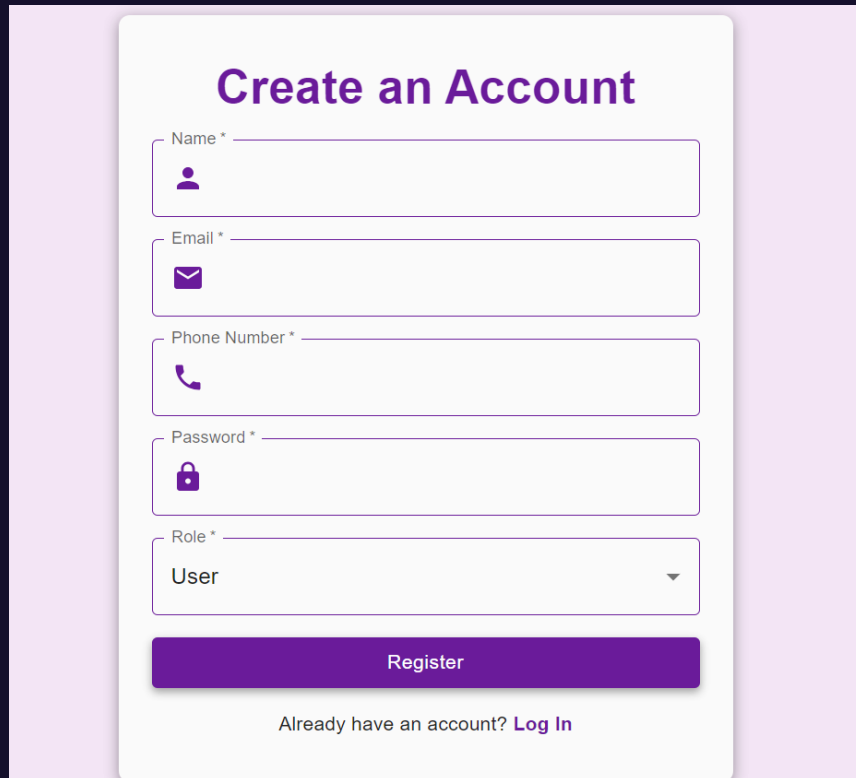
6. Multer

7. Twilio

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List of tools used for Capstone
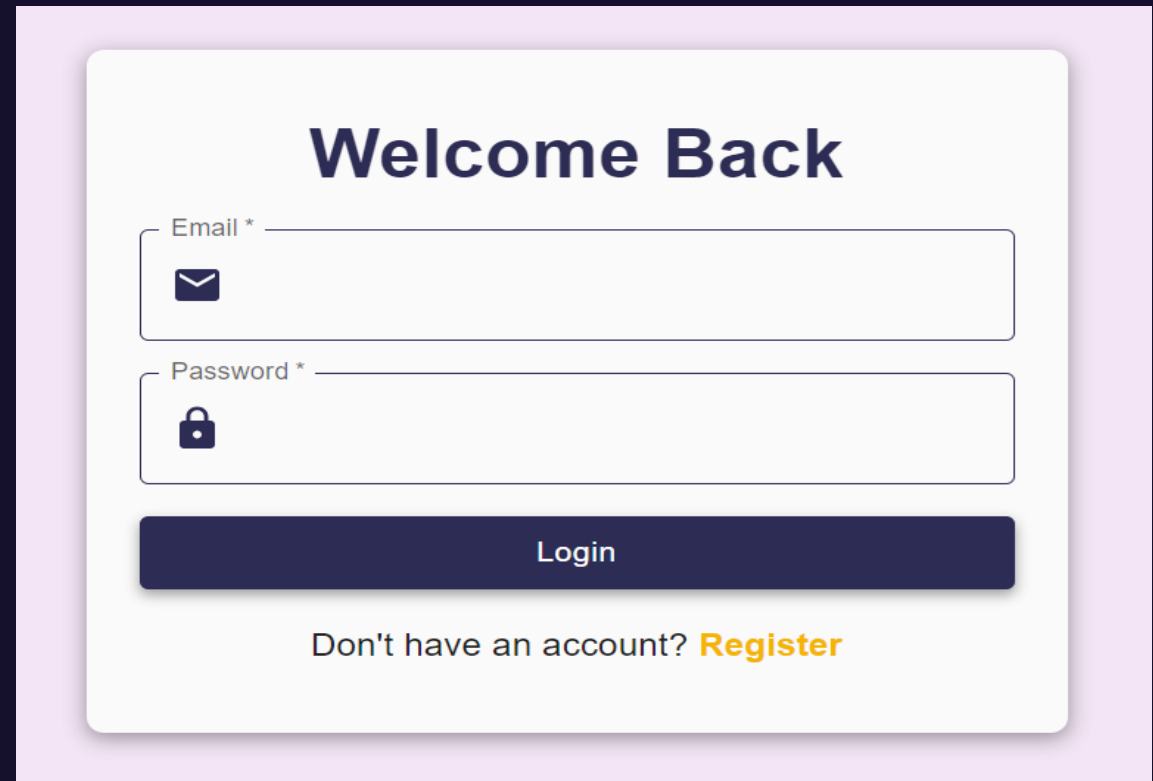
1. Postman

2. MongoDB Compass

3. VS Code

4. Twilio

5. GitHub

Important areas of the Project with screenshots

Only registered User can login to the website. if user is not registered, he has to register first and after registration based on the role user has, user automatically logged in and also generate a token which will authenticate the user and its role

Important areas of the Project with screenshots

The below image is from when admin logged in. Admin can create new category, add new services under the category which allow providers to add their id details into the service.

Admin also have user control access which means he can delete user from the database as he is authorized
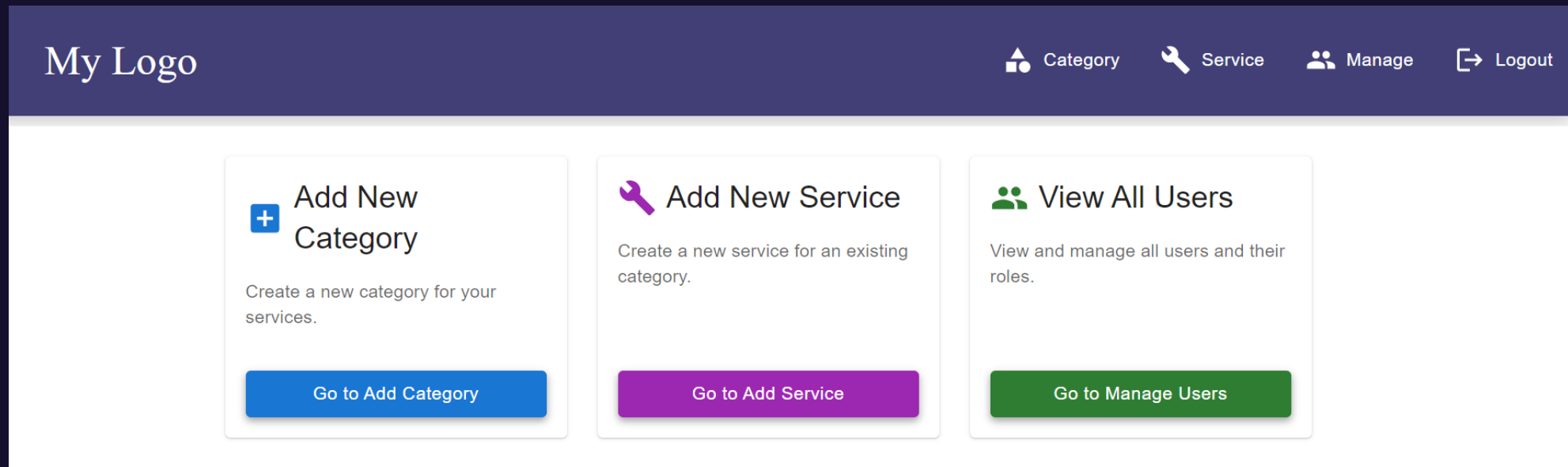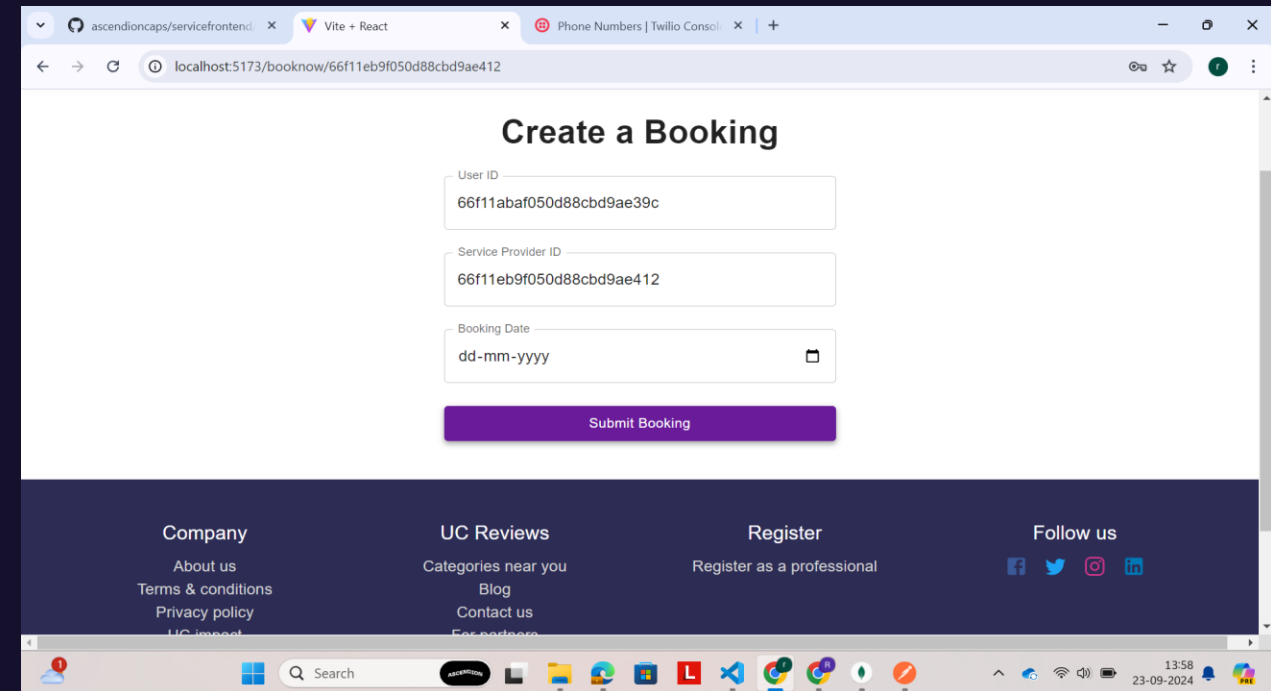
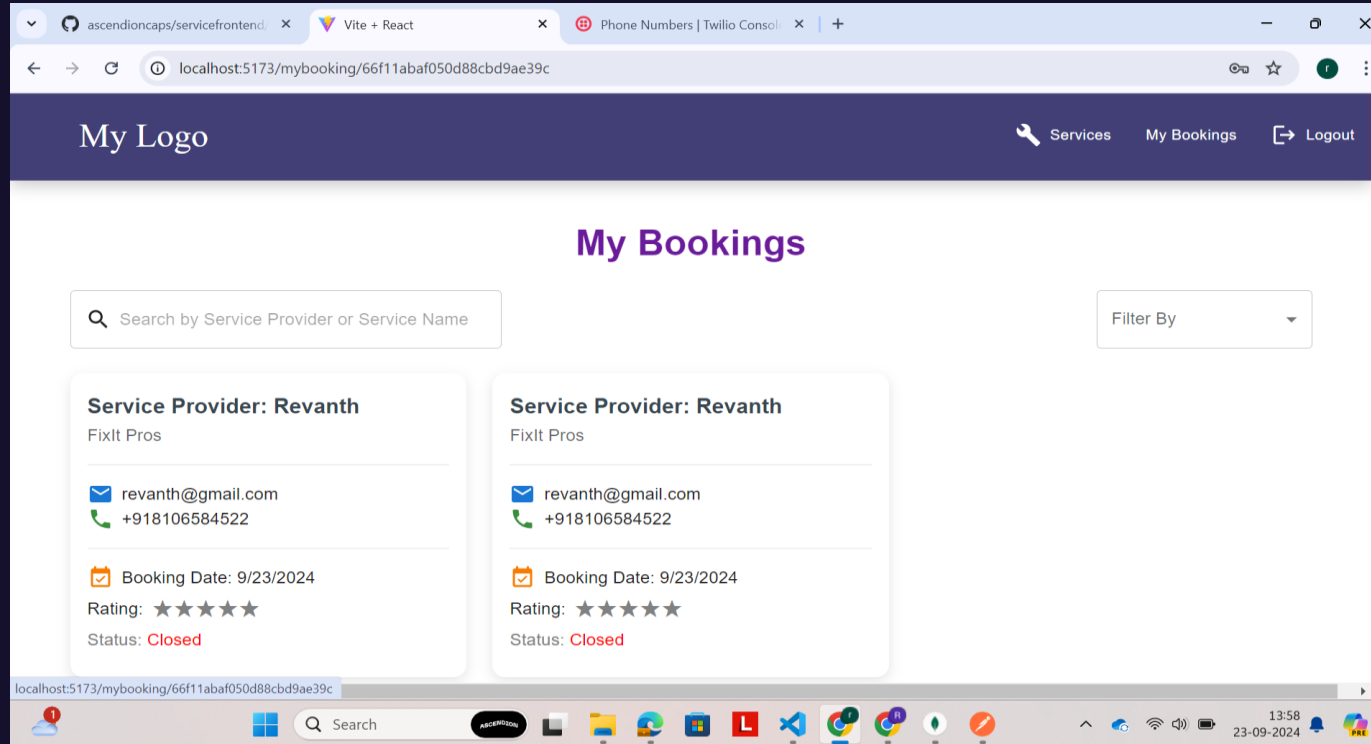## Important areas of the Project with screenshots
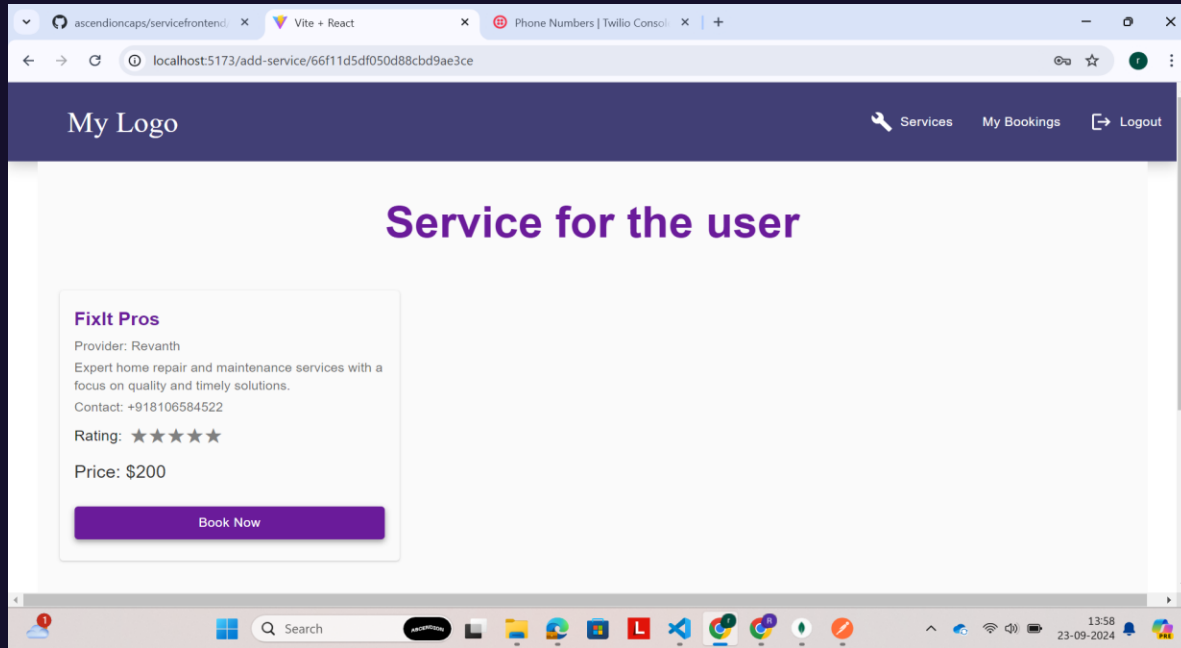
User can see the services and can book for the same and it will notify to the respective providers that work has been assigned and provider respond back to the same requested service

User can provide the booking date for which the booking will be done.

Important areas of the Project with screenshots

User can view the status of their booking and also has search filtering mechanism based on status

Important areas of the Project with screenshots

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Provider can view the bookings and takes the action for changing the status from completed to closed he has to attached photo of the work before working and after working
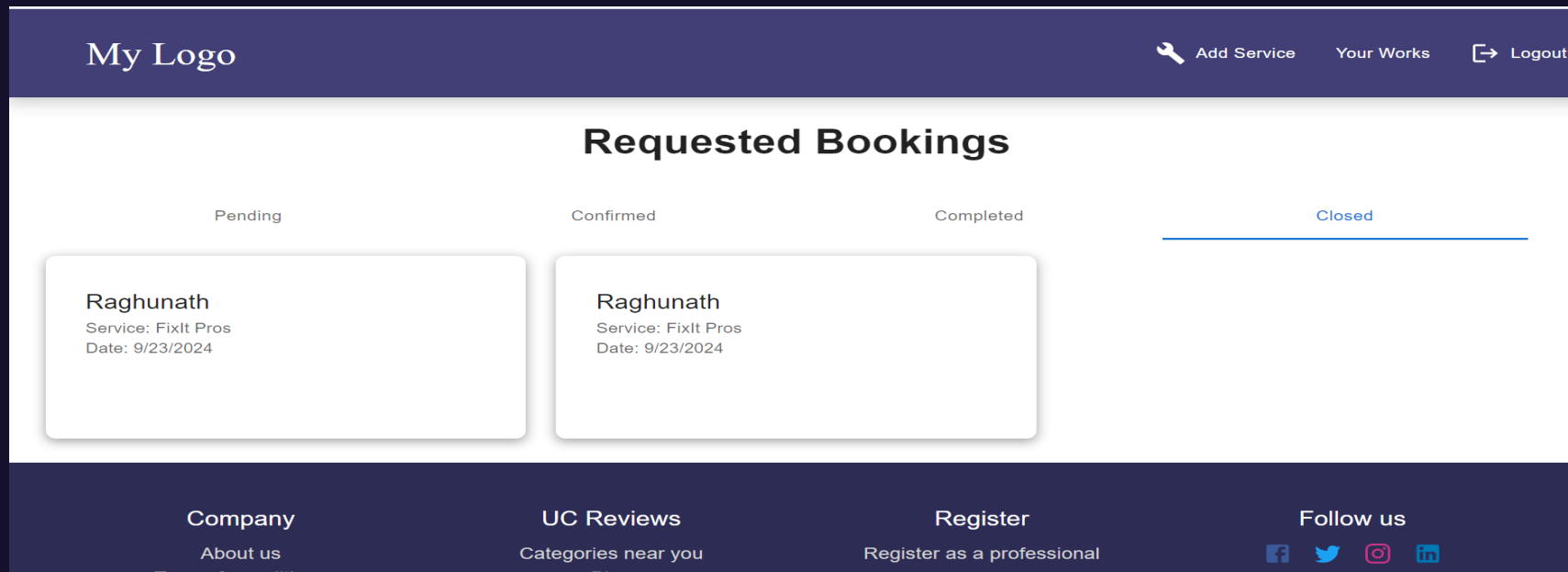
Conclusion

1. Did the fully functional website as per the company requirements.

2. Made the Simple UI to have better user experience.

3. Made the role-based login for user and providers

4. Given admin control for creating category and service.

5. Provider can add their company under the service created by the admin

6. User can book, and the service and the respective provider will be notified, and provider can either accept or reject the request

7. OTP will be sent, to user number only if the work is completed.

Thank You

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