Project Title
WorkNest-Job Portal Site

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1.Introduction:

Project type: MERN Stack (MongoDB, Express, React, and Node.js) web-based job portal.

The project's goal is to create a digital platform that will make it simple for job searchers to locate and apply for positions, as well as for administrators to publish openings and effectively handle applications. By providing segmented job listings, filters, notifications, and real-time application changes, it seeks to expedite the hiring process.

Target Audience:

- ☐ Job seekers are people who are looking for work in a variety of fields and places.
- ☐ Recruiters/Admins: Employees of the company or site administrators who advertise openings and handle applications.

2.Functional Requirements

- ☐ Search and browse jobs by title, category, location, or salary.
- ☐ View latest and top job listings on the homepage.
- ☐ Edit and update personal profile.
- ☐ Apply for a job with a single click.
- ☐ Receive notifications and track application statuses on the user dashboard.
- ☐ Create and manage company profiles.
- ☐ Post and edit job listings.
- ☐ View, accept, or reject job applications.
- ☐ Manage user applications with status updates.

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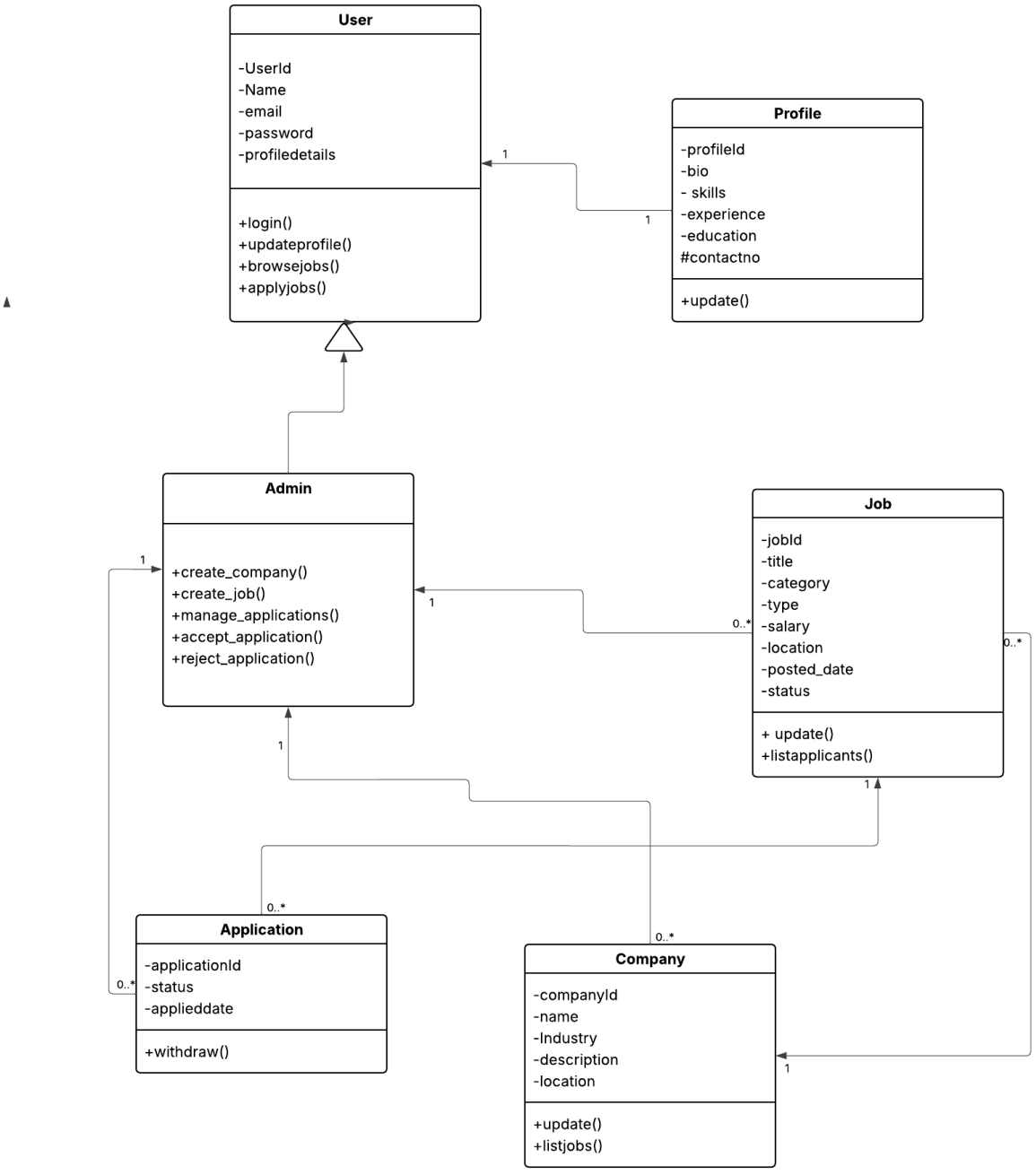
3. Non-Functional Requirements

- ☐ **Performance:** Fast and responsive UI with optimized backend performance.
- ☐ **Security:** JWT-based authentication for user/admin access control.
- ☐ **Scalability:** Built to support large user bases and job records.
- ☐ **Usability:** Clean, intuitive interface for both admins and users.
- ☐ **Availability:** The system should maintain high uptime and reliability.
- ☐ **Maintainability:** Modular code structure following best practices for future enhancements.

4.Class Diagram



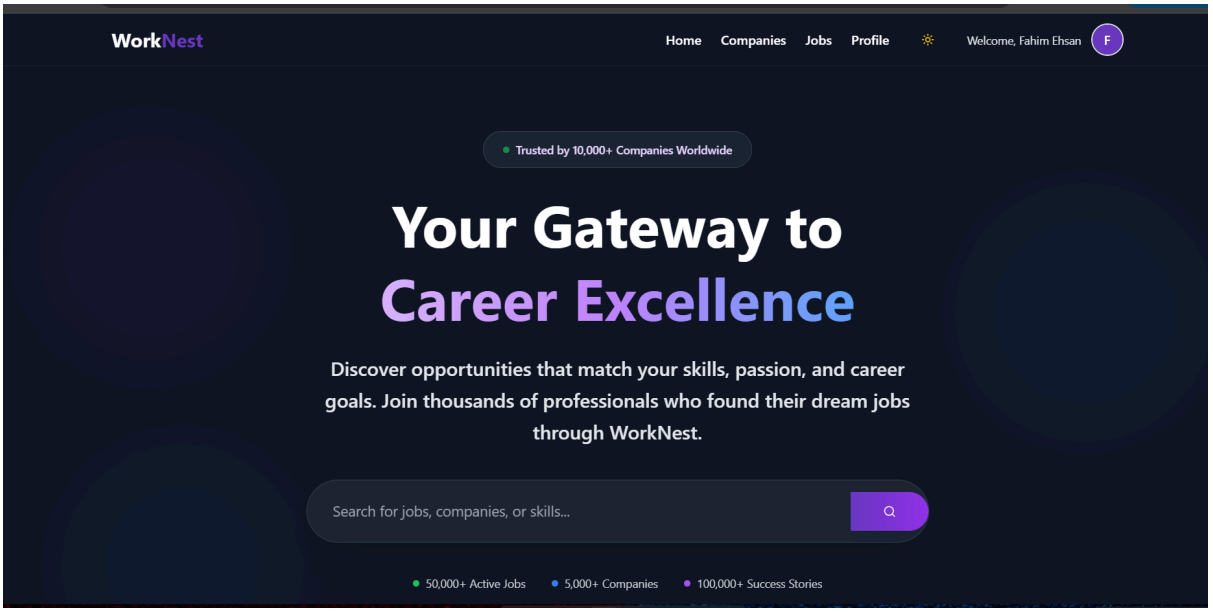
5. Tools and Technologies

- ☐ **Frontend:** React.js, HTML, CSS, JavaScript, Tailwind CSS
- ☐ **Backend:** Node.js, Express.js
- ☐ **Database:** MongoDB
- ☐ **Version Control:** Git, GitHub
- ☐ **Package Manager:** npm

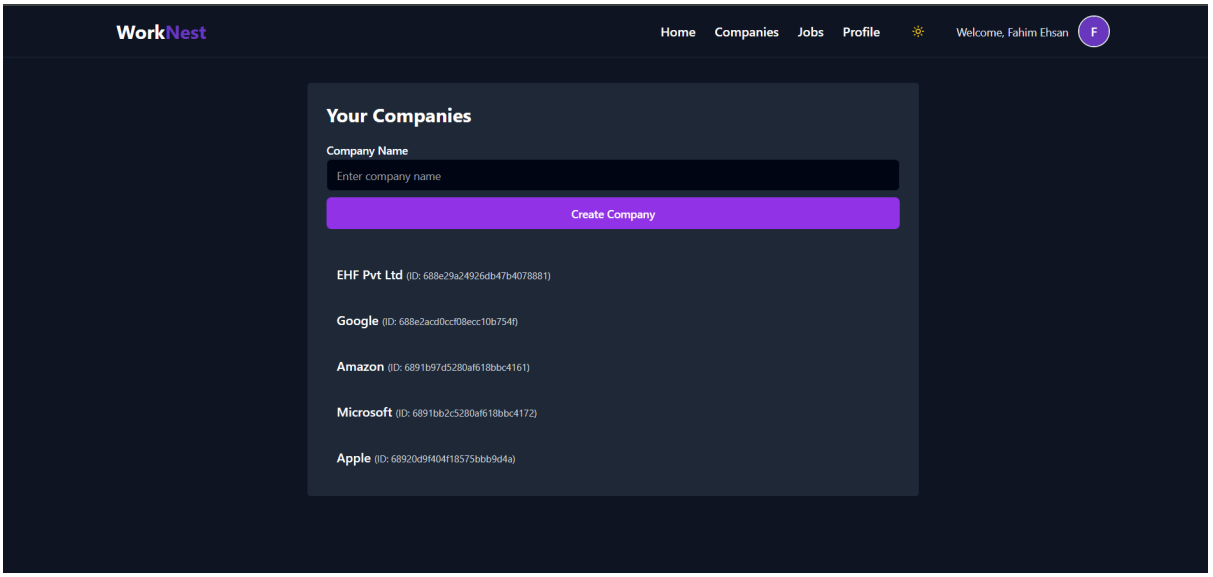
6. Compatibility with System Environment

- ☐ **Client Side:** Compatible with modern browsers (Chrome, Firefox, Edge)
- ☐ **Server Side:** Works with Node.js runtime
- ☐ **Database:** Compatible with MongoDB Atlas or local MongoDB installations

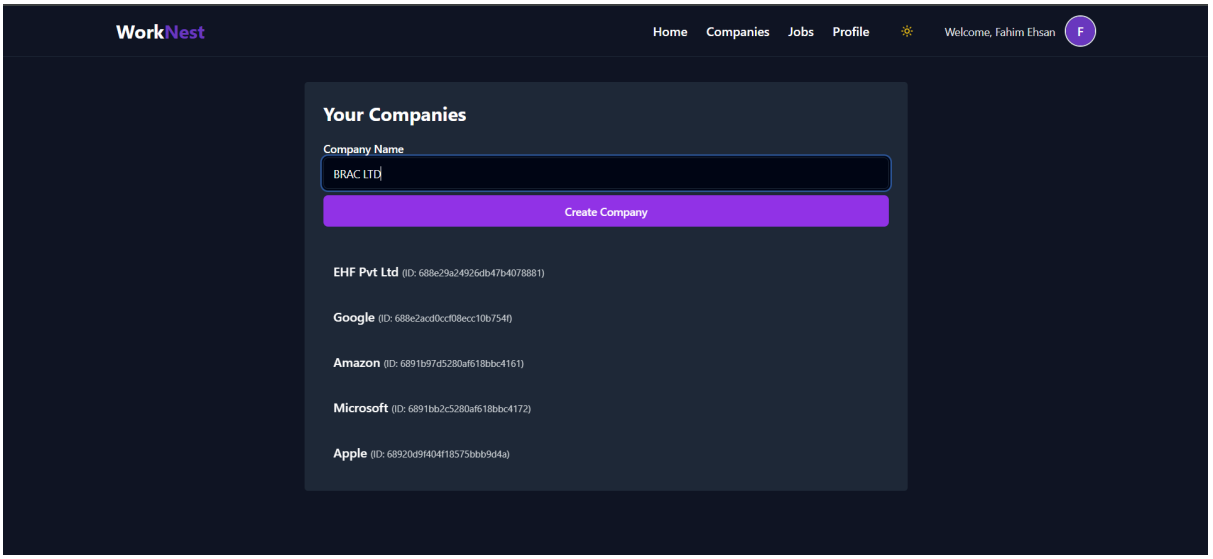
7.Implementation



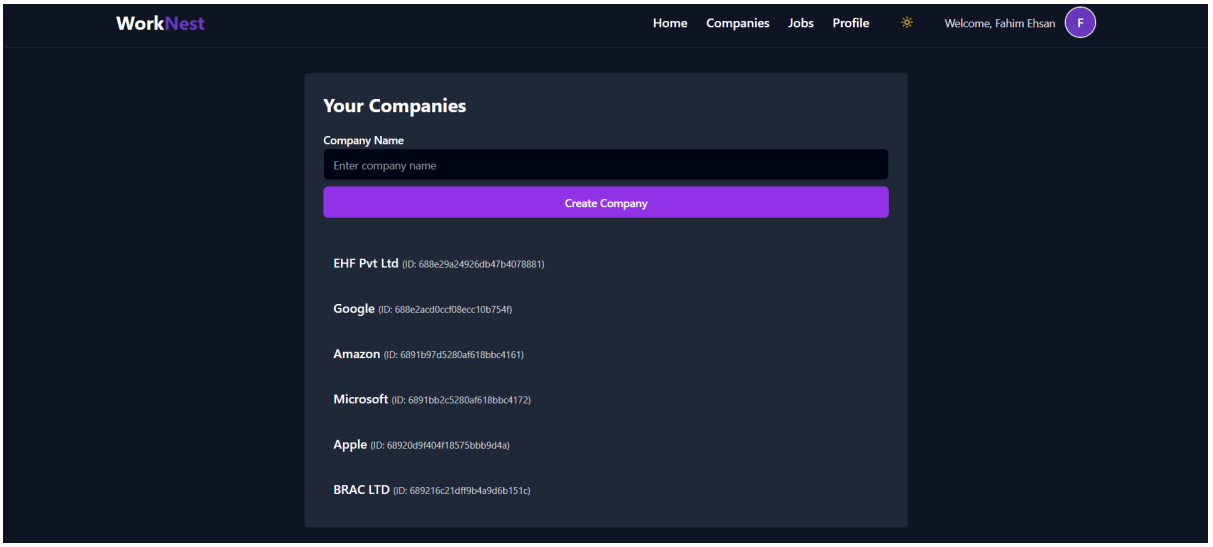
This is the Homepage.



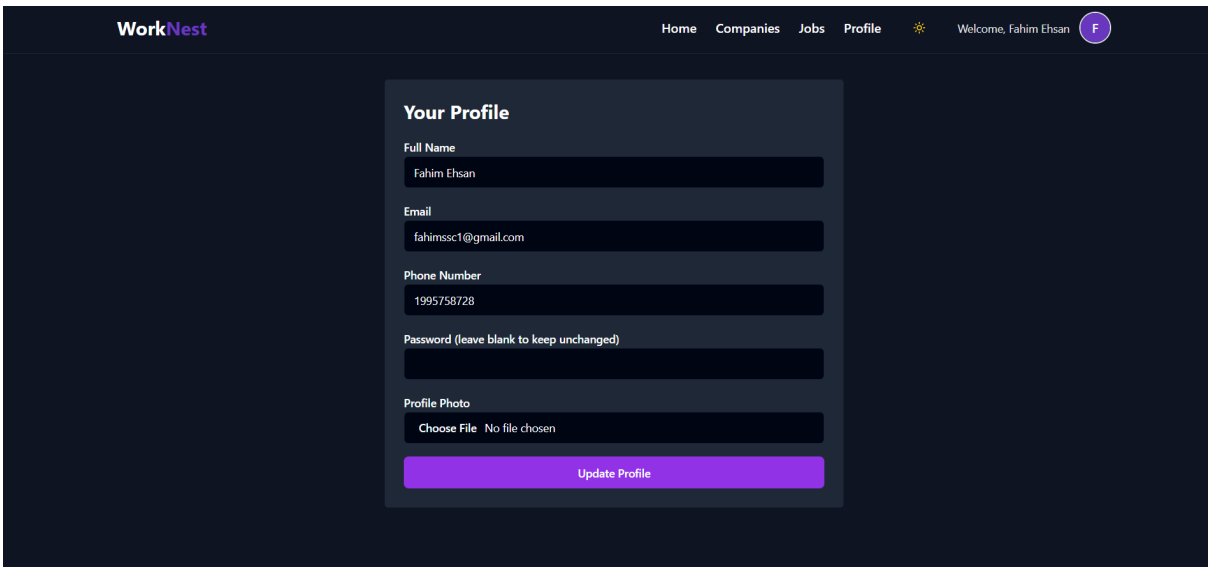
Here as an Admin we can create a company. It's one of my features



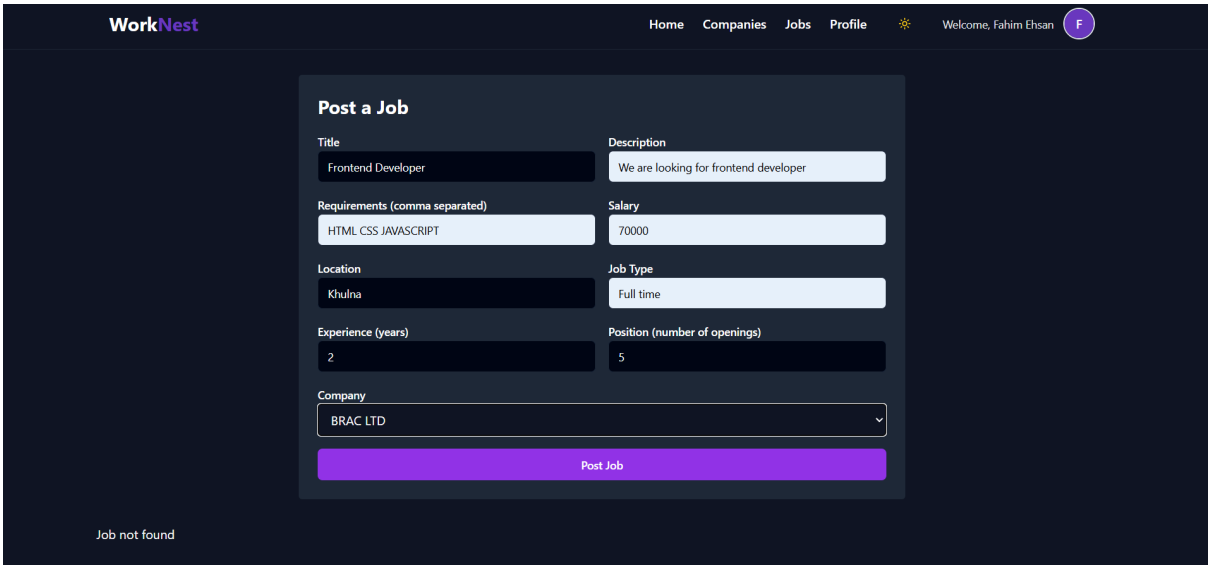
Here we created a company named BRAC LTD.



Here the company was created successfully.



Users can update his/her profile. But here I had an issue so there is a problem.



Admin can post a job for a company . But here I am facing some problems .

8.Challenges

I faced many challenges while working on this project. My first problem was with installing npm packages. It didn't work properly at first, and I had to spend time fixing it. Then, I had a hard time connecting to MongoDB, which was very frustrating. Another big challenge was creating the server. It took me almost a full day to set it up and make it work. Even though these parts were difficult, they helped me learn a lot and improve my skills.

9.Conclusion

WorkNest Job Portal aims to provide a simple and effective platform for job searchers and businesses, expediting the recruiting process with categorized postings, filters, and real time updates.Developing this project was difficult but rewarding. Although developing the initial feature was difficult, it provided me with excellent experience in full-stack development using the MERN stack. Overall, it was a fantastic learning experience that boosted my abilities and confidence.

10. References

1.https://ui.shadcn.com/docs/installation/vite

2.https://github.com/