

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
“JNANA SANGAMA”, BELAGAVI - 590 018



A REPORT ON INTERNSHIP

Carried Out at

“Swizosoft”

Submitted by

Sughosha S V

4SF20CS158

In partial fulfillment of the requirements for the VIII semester

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE & ENGINEERING

Under the Guidance of

Internal Guide

External Guide

Mr. Kishore Kumar

Mr. Mehboob khan

Assistant Professor

Trainer

Dept. of CSE, SCEM

Swizosoft

at



SAHYADRI

COLLEGE OF ENGINEERING & MANAGEMENT

(An Autonomous Institution)

MANGALORE

2023 - 24

SAHYADRI
COLLEGE OF ENGINEERING & MANAGEMENT
An Autonomous Institution
MANGALORE

Department of Computer Science & Engineering



CERTIFICATE

This is to certify that the internship has been carried out by **Sughosha S V (4SF20CS158)**, the bonafide student of Sahyadri College of Engineering & Management at **Swizosoft** from **12/02/2024 to 12/03/2024** in partial fulfillment of the requirements for the **VIII Semester of Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi** during the year 2023 - 24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The internship report has been approved as it satisfies the academic requirements in respect of internship prescribed for the said degree.

Internal Guide

Mr. Kishore Kumar
Assistant Professor
Dept. of CSE

Internship Coordinator

Mr. Srinivas P M
Assistant Professor
Dept. of CSE

HOD

Dr. Mustafa Basthikodi
Professor & Head
Dept. of CSE

External Viva:

Examiner's Name

Signature with Date

1.

.....

2.

.....

Internship Completion Certificate



SWIZOSOFT, MANGALORE-574143

CERTIFICATE

OF COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO:

Sughosha S V

This is to certify that **Sughosha S V** with USN **4SF20CS158** has successfully completed an internship with Swizosoft in the domain of **Full Stack Web Development** for the duration of 1 Month from 12th February 2024 to 12th March 2024.

During the internship period, Sughosha S V demonstrated exceptional skills, dedication, and a keen interest in Full Stack Web Development. They actively participated in various projects, contributed valuable insights, and collaborated effectively with the team.

We acknowledge Sughosha S V's commitment to learning and professional development throughout their internship. Their contributions have been commendable and have significantly added value to our organization.

We wish Sughosha S V continued success in their academic and professional endeavors.

6TH APRIL 2024

DATE



CERTIFICATE ID: SZSINT000044

VERIFY AT: VERIFY.SWIZOSOFT.COM

NITISH B
CHIEF EXECUTIVE OFFICER
SWIZOSOFT
MANGALORE - 574 143

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MANGALORE

Department of Computer Science & Engineering



DECLARATION

I hereby declare that the entire work embodied in this Internship Report and the project entitled "**Realtor**" as a part of internship has been completed by me at **Swizosoft** under the supervision of **Mr.Kishore Kumar** and **Mehboob khan**, in partial fulfillment of the requirements for the VIII Semester of **Bachelor of Engineering in Computer Science & Engineering**. This report has not been submitted to this or any other University for the award of any other degree.

Place: Mangaluru

Sughosha S V

Date:

4SF20CS158

VIII Sem, B.E., CSE

SCEM, Mangaluru

Executive Summary

The internship experience at Swizosoft was designed to provide interns with a comprehensive training methodology aimed at cultivating foundational concepts and power skills crucial for their professional development. The training approach integrated various learning modalities, including blended learning, self-paced digital learning, and regular engagement with trainers. This multifaceted approach ensured a dynamic and immersive learning experience for interns throughout their training period.

The first part, which lasted four weeks and involved about forty hours of coursework, concentrated on core ideas. After that, they began their core track training which involved in-depth instruction. The training materials were chosen with certain technology tracks in mind, giving us the opportunity to gain specialised knowledge related to our areas of interest. Access to Udemy courses was given as a necessary part of the training. These Udemy courses provided the fundamental groundwork for the core track training that followed, equipping with the knowledge and abilities needed to tackle the more advanced education. Before beginning the core track training, it was mandatory to finish the Udemy course material, which ensured that we had a firm grasp of the essential ideas and principles related to the technological tracks they had selected. Power skills seminars, intended to improve our soft skills and interpersonal competencies, were an essential component of the training technique. Over the course of these 40-hour sessions, I have gained insightful knowledge about web-technologies, problem-solving and effective communication. A combination of self-paced digital learning modules and blended learning was used in the training delivery. The interns were required to commit a minimum of fifteen hours a week to self-study activities, which were complemented by weekly review and quality assurance meetings. In order to assess the competency and preparation for onboarding, assessment was crucial. Multiple chances were given to interns to finish objective tests that covered both technical and soft skills. Interns were able to move on to the next stage of their journey by passing evaluations, actively participating, and achieving at least 70%

attendance and learning progress.

In conclusion, the internship program at Swizosoft provided me with an immersive and structured learning environment, enabling to build a strong foundation of technical knowledge and soft skills necessary for future endeavors in the field of technology. By combining rigorous courses, practical assignments, and mentorship, Swizosoft nurtured talent and promoted a culture of lifelong learning.

Acknowledgement

It is with great gratification and exhilaration that I am submitting a report on internship carried out at “**Swizosoft**” as a part of the curriculum of Visvesvaraya Technological University, Belagavi in partial fulfillment of the requirements for the VIII Semester of Bachelor of Engineering in Computer Science & Engineering. I have completed the project entitled “**Snapwave**” during the internship.

I am profoundly thankful to my internal guide, **Mr.Kishore Kumar**, Assistant Professor, Department of Computer Science & Engineering and external guide **Mr.Mehboob khan** , Trainer, Swizosoft, for innumerable acts of timely advice, encouragement and I sincerely express my gratitude to them.

I also thank to **Mr. Srinivas P M**, Internship Coordinator & Assistant Professor, Department of Computer Science & Engineering for her constant encouragement and support extended throughout.

I express my sincere gratitude to **Dr. Mustafa Basthikodi**, Professor & Head, Department of Computer Science & Engineering for his invaluable support and guidance.

I sincerely thank **Dr. S. S. Injaganeri**, Principal, Sahyadri College of Engineering & Management, who have always been a great source of inspiration.

Finally, yet importantly, I express my heartfelt thanks to my family & friends for their wishes and encouragement throughout the work.

Sughosha S V (4SF20CS158)

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Introduction

Swizosoft pioneers software training, web development, and graphic design. Their collaborative platform nurtures talent through hands-on courses, mentorship, and real projects. They craft compelling digital experiences, empowering clients' online presence. Internships bridge theory and practice, shaping the next-gen tech workforce. Committed to excellence, innovation, and a brighter future.

1.1 Company Profile

Swizosoft was established on October 24, 2023, in the vibrant city of Mangalore, Karnataka, India. Swizosoft is a dynamic and innovative company dedicated to shaping the next generation of tech enthusiasts. Specializing in comprehensive training programs related to software development, our mission is to bridge the gap between knowledge and practical skills.



Figure 1.1: Company Logo

1.2 Vision

To empower individuals with the knowledge and skills needed to thrive in the ever-evolving world of technology. At Swizosoft, we envision a future where every aspiring individual has access to quality software training, unlocking their potential and contributing to the digital transformation of businesses and communities.

1.3 Mission

At Swizosoft, our mission is to be a leading hub for software training, web development, and graphic design services. We are committed to delivering comprehensive and hands-on training programs that equip our learners with the expertise required in the dynamic field of software development. Through our website, we aim to foster a collaborative learning environment, offering cutting-edge courses, personalized mentorship, and real-world project experiences. Our mission extends to providing top-notch website building and graphic design services, helping businesses and individuals establish a strong online presence. We strive to blend creativity and functionality to bring our clients' visions to life, enhancing their digital footprint. Furthermore, Swizosoft is dedicated to nurturing talent through regular internship opportunities, allowing individuals to gain practical experience in a real-world setting. By offering internships 2-3 times a year, we aim to bridge the gap between theoretical knowledge and practical application, fostering the growth of the next generation of tech professionals. Ultimately, Swizosoft is driven by a passion for excellence, continuous learning, and innovation. We are committed to being a catalyst for positive change in the tech industry, empowering individuals to shape a brighter and technologically advanced future.

1.4 Policies

At Swizosoft, we believe in the transformative power of education. Our team of experienced professionals is committed to providing top-notch training in software development, equipping individuals with the skills needed to thrive in the fast-paced world of technology. Whether you're a beginner or an experienced professional looking to upskill, Swizosoft has the right learning path.

1.5 Products

- **App Development:** App development offers numerous benefits to companies, making it a valuable investment. Through this, companies gain a competitive edge by offering innovative solutions tailored to their customers' needs, enhancing brand loyalty and market presence. Through app development, companies can streamline internal processes, improving efficiency and productivity. Additionally, apps provide valuable data insights, allowing businesses to better understand user behavior and preferences. This data-driven approach enables informed decision-making and targeted marketing strategies. App Development fosters creativity and innovation within the organization, encouraging teams to think outside the box and come up with groundbreaking ideas. Having a well-designed and functional app can significantly enhance the company's reputation, showcasing its commitment to technology and customer satisfaction.
- **Poster Design :** Vibrant hues dance across a dynamic canvas in this eye-catching poster design. Bold typography commands attention, guiding viewers through a visual journey. Intricate details intertwine with modern elements, creating a harmonious balance. Unleash the power of creativity with this captivating poster, a fusion of artistry and contemporary expression.

1.6 Services

- **Training:** Software training empowers individuals with essential skills to navigate, utilize, and master diverse software applications. From introductory sessions to advanced workshops, it covers topics like user interfaces, functionalities, troubleshooting, and best practices. Practical exercises ensure hands-on experience, fostering proficiency and confidence in leveraging software tools for optimal productivity.
- **Website Building :** Website Building Revolutionize your business with our cutting-edge software building service. Our expert developers craft tailored solutions, ensuring seamless integration and optimal performance. From ideation to deployment, we prioritize innovation and efficiency. Elevate your digital presence with our robust, scalable, and customized software solutions, propelling your success in the digital era.

- **Graphic Design:** Graphic design is a creative discipline melding visual elements to convey messages. Combining artistry and technology, designers use color, typography, and imagery to craft compelling visuals. From logos to websites, graphic design enhances communication, ensuring aesthetics and functionality harmonize. It's a dynamic field driving innovation in print and digital media.

Task Performed

2.1 First Week

The first week focused on getting a solid grounding in the basics of web development. I learned about HTML, CSS, and JavaScript, and how they work together to create interactive web pages.

HTML (Hypertext Markup Language): I discovered how HTML serves as the backbone of any web page. I practiced creating different elements, such as headings, paragraphs, lists, and links, and explored HTML's semantic structure, including <html>, <head>, and <body> tags. I also learned how to include images and define the overall structure of a webpage.

CSS (Cascading Style Sheets): With CSS, I explored various methods to style HTML elements. This included learning about selectors, properties, and values, and how to use them to change the appearance of a webpage. I experimented with layout techniques, colors, fonts, margins, padding, and other style-related aspects. I also learned about CSS frameworks and their role in expediting design.

JavaScript: I dove into the basics of JavaScript, exploring its syntax, data types, and control structures like loops and conditionals. I also learned how to manipulate the Document Object Model (DOM) to create dynamic content on web pages. This week ended with building simple static web pages that demonstrated the use of HTML, CSS, and JavaScript.

2.2 Second Week

In the second week, I transitioned to backend development, focusing on Node.js and Express.js. This was my first exposure to server-side programming and the concepts

behind building server-side applications.

Node.js: I learned that Node.js allows running JavaScript on the server-side, opening the door to creating full stack applications with JavaScript throughout. I explored how Node.js interacts with the operating system, handles asynchronous operations, and manages server tasks.

Express.js: Express.js is a web application framework for Node.js, designed to simplify building server-side applications and APIs. I learned about key concepts like routing, middleware, and handling different HTTP methods, such as GET, POST, PUT, and DELETE. By creating a simple Express.js server, I understood how to define routes, process incoming requests, and send appropriate responses.

Middleware Functions: Middleware in Express.js played a crucial role in enhancing server functionality. I learned about different types of middleware, such as those for logging, error handling, parsing request bodies, and authentication. This gave me a comprehensive view of server-side development and how to ensure applications are robust and secure.

2.3 Third Week

The third week was all about integrating databases with backend applications and managing code through version control systems.

MongoDB: I was introduced to MongoDB, a NoSQL database, and learned how to create collections, documents, and indexes. I explored CRUD (Create, Read, Update, Delete) operations with MongoDB and practiced querying data using MongoDB's query language. This knowledge helped me understand how to store and retrieve data from a database.

Express.js with MongoDB: Integrating Express.js with MongoDB allowed me to create server-side applications that interact with databases. I learned how to connect to MongoDB from Express.js, handle data operations, and ensure data consistency. This involved creating routes for database operations and managing data flow between the server and database.

Git and GitHub: Version control is essential for any software project, and I learned the basics of Git, including commands for initializing repositories, making commits, branching, and merging. GitHub, a platform for remote repository hosting and collaboration, was another key learning point. I explored how to push and pull code to/from GitHub,

create pull requests, and collaborate with other developers.

2.4 Fourth Week

The final week was dedicated to applying everything I had learned to a personal project. I chose to create a Realtor website clone using React, Tailwind CSS, and Firebase.

React: I used React to build the frontend of the Realtor website. This involved creating React components, managing state with React Hooks, and handling user interactions. I implemented routing within the React application, allowing users to navigate between different pages seamlessly.

Tailwind CSS: For styling, I used Tailwind CSS, a utility-first framework. This approach made it easier to design a responsive and visually appealing website without writing extensive CSS code. I applied various Tailwind utilities to style components, control layout, and ensure the website looked polished.

Firebase: Firebase provided backend services for the project. I used Firebase Authentication to implement user sign-in and Firebase Firestore to store and retrieve data. This enabled users to create accounts, log in, and view property listings. I also integrated Firebase Storage for hosting media files, allowing the Realtor website to display images and other assets.

Outcomes

3.1 Learning Outcomes

During my internship journey at Swizosoft, I have experienced a comprehensive range of learning outcomes, encompassing both technical and non-technical skills.

- **Technical skills :** I have developed a thorough understanding of the Web Development, I got an opportunity to use many technologies such as HTML, CSS, Javascript, Nodejs, Express, Postman, Github, Render, Mongodb, Cloudinary. These technological abilities may be useful in upcoming opportunities.
- **Collaboration and teamwork :** Collaboration and teamwork have been pivotal aspects of my web development journey, Engaging with peers, sharing insights, and collectively working on projects have not only strengthened our bond but also facilitated mutual learning. Through collaborative efforts, we've tackled challenges, brainstormed innovative ideas, and provided constructive feedback to enhance our understanding.
- **Problem-solving :** Developed excellent problem solving skills as a individual. Encountered various challenges in developing web and its backend api. I was able to enhance our problem-solving abilities with the guidance of mentors and independent research.
- **Presentation :** I was expected to provide daily reports on our project progress. So in order to receive feedback or suggestions to better the project, and expected to provide the mentors with our daily work. This helped us improving our presentation and communication skills.

3.2 Project Outcomes

The Realtor website clone I developed as part of my internship project showcases a range of features designed to provide users with a comprehensive platform for exploring real estate properties. The website allows users to view detailed property listings with information such as location, price, and property type. I implemented user authentication to enable personalized experiences, allowing users to create accounts, sign in, and save their favorite properties. The frontend, built with React and styled with Tailwind CSS, offers a responsive and user-friendly interface, while the backend, powered by Firebase, ensures real-time data updates and secure data management. This project reflects a robust combination of frontend and backend technologies to create a functional and visually appealing Realtor website.

3.2.1 Home page

The Home page displays a list of real estate properties with key details like location, price, and property type. It provides quick access to detailed property descriptions and allows users to browse through various listings.

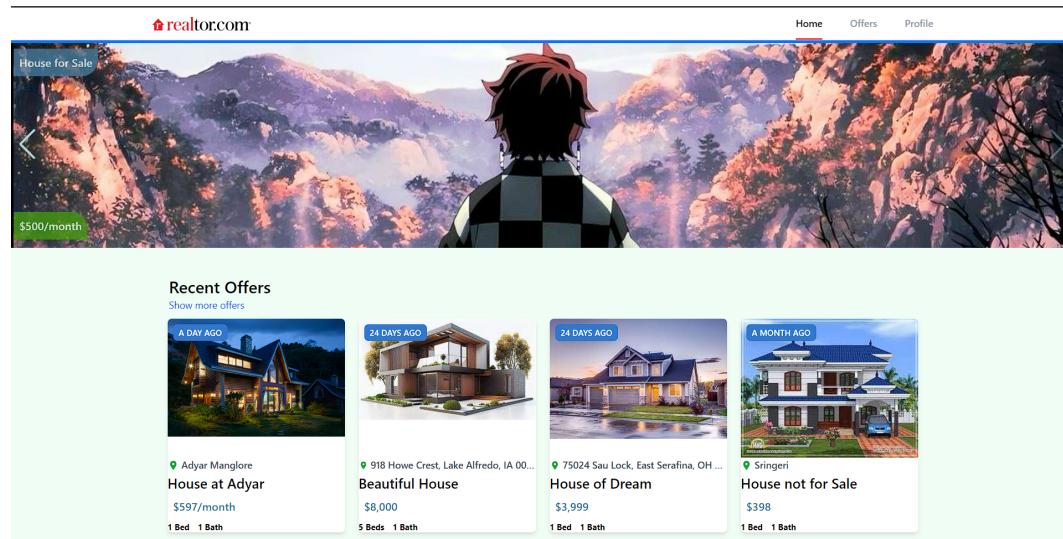


Figure 3.1: Home page

3.2.2 Signup page

The Sign-up page allows users to create an account either by entering their email and password or by signing in with Google through Firebase Authentication. This page provides a secure and user-friendly registration process with a seamless option to sign in via a Google account.

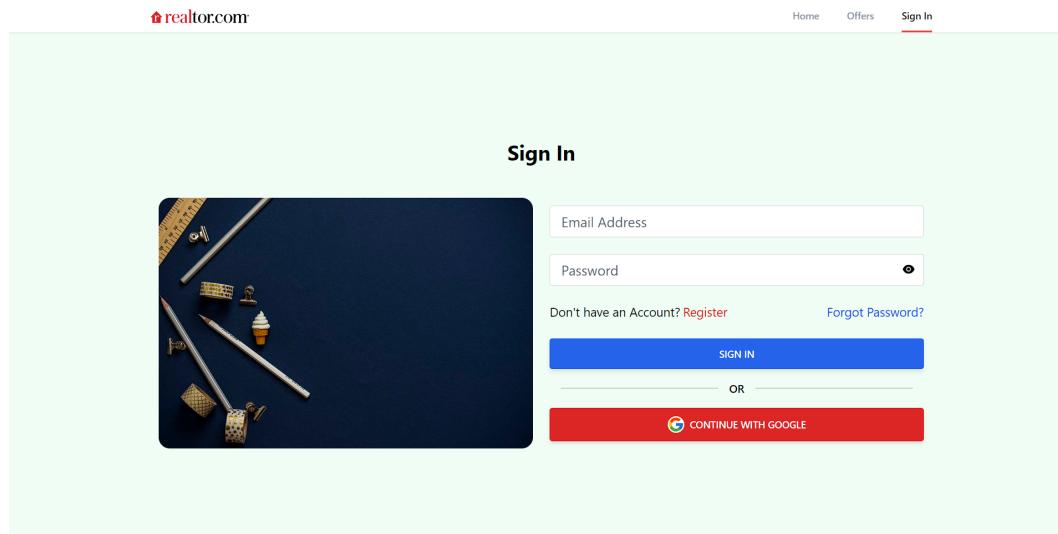


Figure 3.2: Signup page

3.2.3 Signin page

The Sign-in page allows users to log into their accounts by entering their email and password. It also offers a "Sign in with Google" option through Firebase Authentication for a quick and convenient login experience.

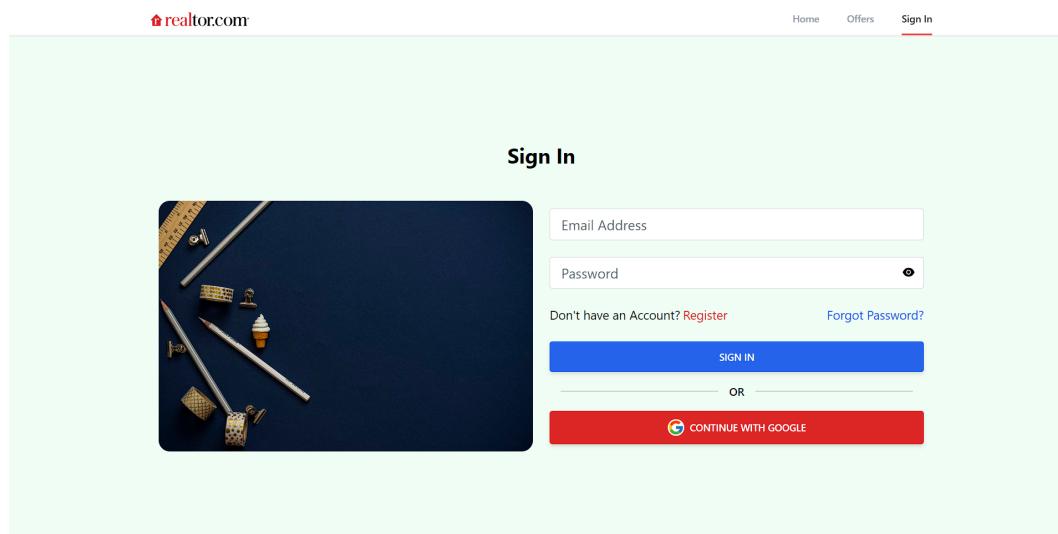


Figure 3.3: Signin page

3.2.4 Reset password page

The Forgot Password page helps users reset their account password if they've forgotten it. By entering their registered email address, users receive a password reset link to their email, allowing them to regain access to their account securely.

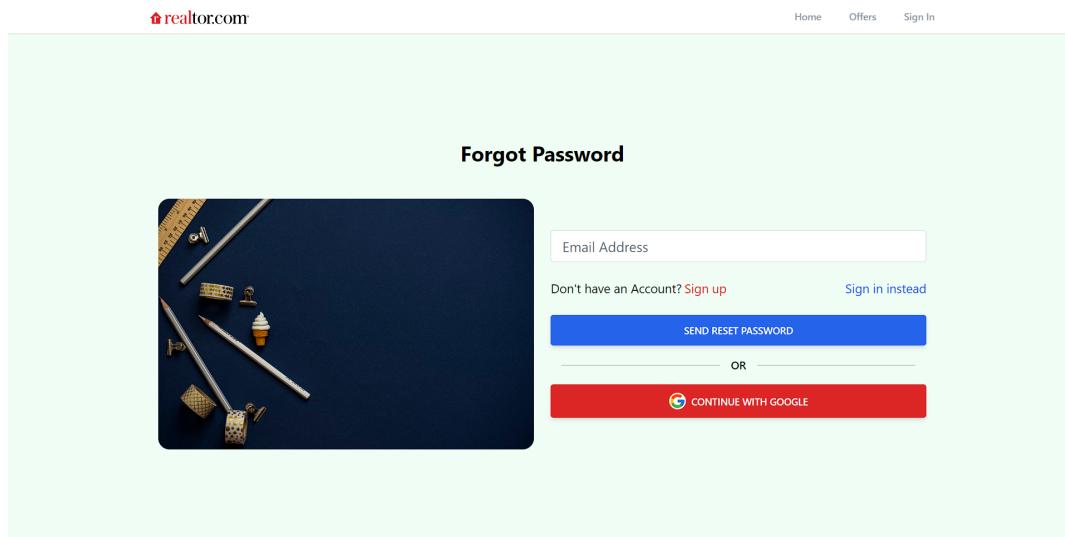


Figure 3.4: Reset password page

3.2.5 Create Listing page

The Create Listing page allows users to submit new property listings to the website. It provides fields for essential details such as property type, location, price, description, and images. This page includes a simple and intuitive interface, guiding users through the process of creating a new listing.

Figure 3.5: Create listing page

3.2.6 Profile page

The User Profile page displays all the property listings created by the user. It provides a personalized view where users can see the details of each listing they've submitted. This page also includes options to edit or delete a listing, offering full control over their property entries on the website.

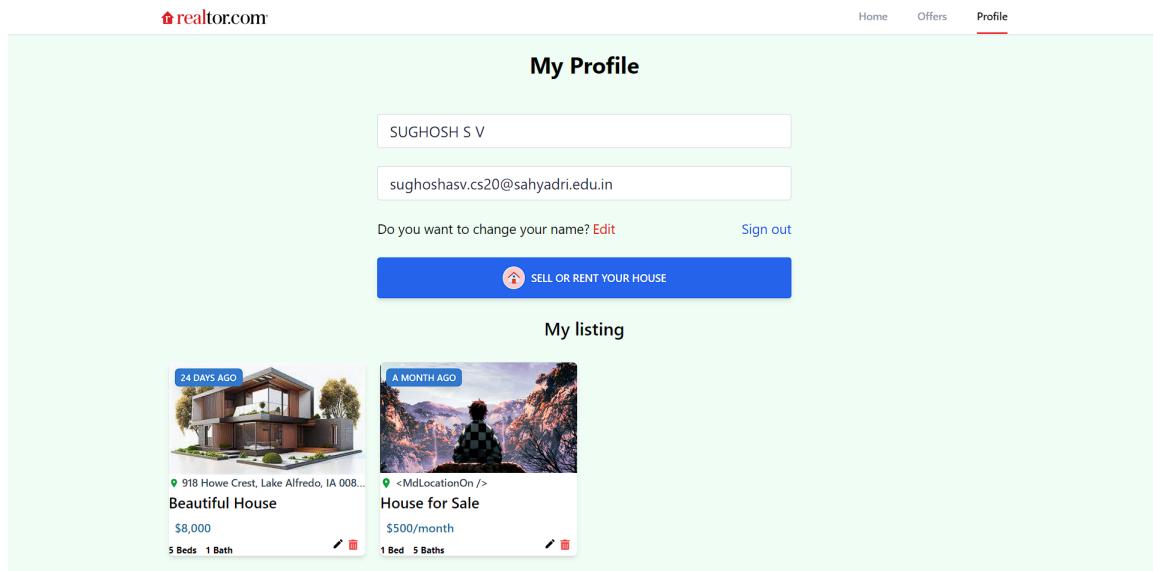


Figure 3.6: Profile page

3.2.7 Offers page

The Offers page displays a list of property listings that currently have special offers or discounts. Each listing on this page includes details about the offer,

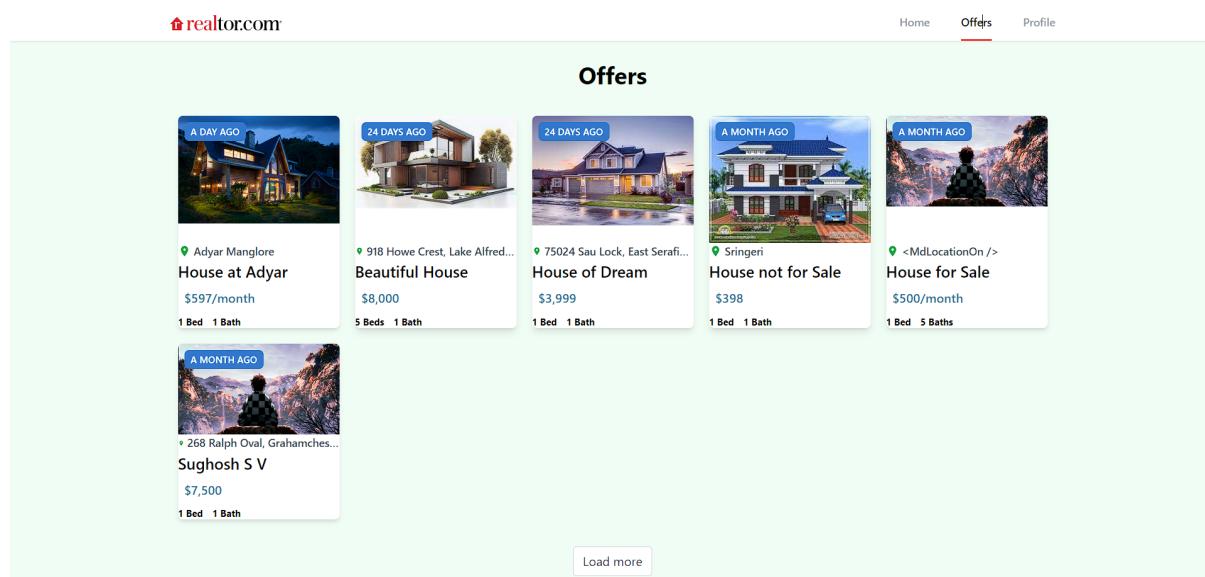


Figure 3.7: Offers page

3.2.8 House details page

The House Details page provides comprehensive information about a specific property, including its location, price, type, and detailed description.

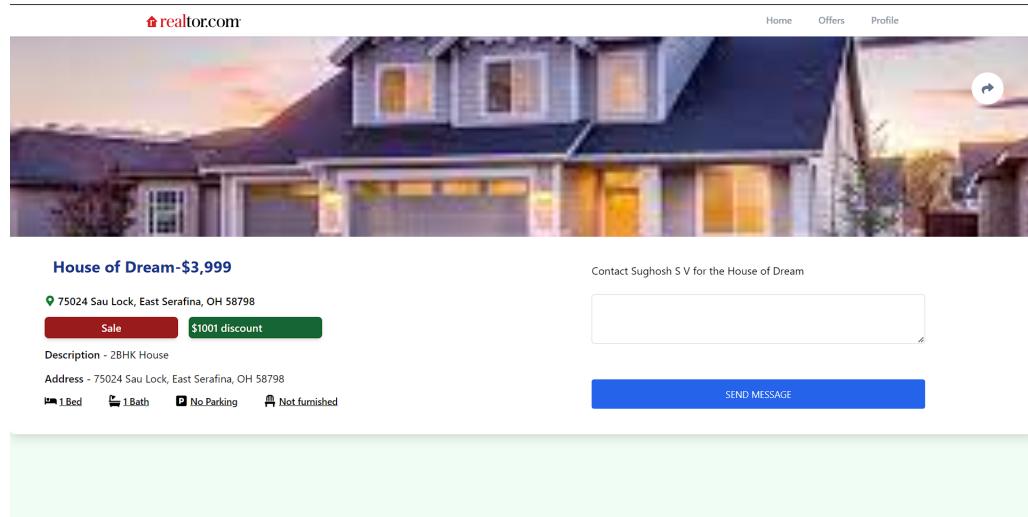


Figure 3.8: House details page

3.2.9 Database

Firebase serves as the cloud-based database solution for my project, providing secure storage and real-time data synchronization. I used Firebase Authentication to manage user accounts, allowing users to sign up with email and password or sign in with Google. Firebase Firestore handles property listings and user profiles, offering seamless interactions across the application.

Identifier	Providers	Created	Signed In	User UID
sugoshashv.cs20@sah...	G	Mar 27, 2024	Apr 24, 2024	yuJAgewrayyXcitzcTGBFLIC1kul...
aia.com	E	Dec 2, 2023	Dec 2, 2023	zdp1Ub87CMRGPPhs53QhD...
ads@gmail.com	E	Nov 29, 2023	Nov 29, 2023	E5IXSpS9ldiPAK9fdvapylZ6...
test@gmail.com	E	Nov 29, 2023	Nov 29, 2023	aXVvazZ8XCrnQtqR9KyAb09VV...
s07711423@gmail.com	G	Nov 29, 2023	Apr 23, 2024	ASMiHLC6HHZEklw88Cx7k4...
sugoshashv@gmail.com	GG	Nov 29, 2023	Apr 24, 2024	0wAZis4GVqfr99E3Nw5d40F...
asd@gmail.com	E	Nov 29, 2023	Nov 29, 2023	4kjRs5WxuhNSW6InGCY4hP...

Figure 3.9: Database

Conclusions

In conclusion, my internship at Swizosoft working on the Realtor website clone project has been a transformative experience, enhancing both my technical skills and personal growth. Through intensive training and hands-on project work, I developed proficiency in key aspects of full stack web development, including frontend and backend technologies, user authentication, and database integration. The collaborative environment and focus on problem-solving have strengthened my professional capabilities, equipping me to meet the demands of real-world projects.

As I look ahead, I carry with me a robust skill set and a greater sense of confidence, thanks to the mentorship and support from the Swizosoft team. I am deeply appreciative of the learning opportunities and guidance I received during this internship. I am excited to apply my knowledge and experiences to future challenges, confident that this journey has set a solid foundation for a successful career in web development.

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- [5] <https://v2.tailwindcss.com/docs/>
- [6] <https://react-icons.github.io/react-icons/>