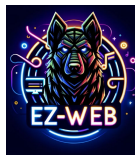




JRH ARCHITECTS WEBAPP

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Client

JRHArchitects offers an immersive architectural experience, providing design solutions tailored to the needs and budgets of its clients. Their services cover a wide range of projects, from residential to commercial and multifamily housing, adapting to each client in a personalized manner. Furthermore, the firm has a strong commitment to sustainability, making decisions that benefit both communities and the environment, ensuring that each project has a positive and responsible impact on society.

Problem

One of the key challenges for JRHArchitects is the lack of a centralized system to showcase previous projects and services, limiting its ability to attract new clients. The firm also struggles with inefficient file submission and documentation processes, making project management cumbersome. Additionally, the absence of a platform for facilitating client interaction and communication hinders operational efficiency and reduces the overall client experience. Addressing these issues is critical for improving service delivery and streamlining operations.

Conclusion

The development of the website for JRHArchitects has addressed the need for a digital platform that serves as both a portfolio and a management tool for clients. By allowing users to view services, access previous projects, and submit documentation efficiently, the website not only enhances client interaction but also optimizes the company's operational processes. This project has enabled JRHArchitects to move toward greater digitalization, ensuring better organization and facilitating the management of crucial files for the firm's continued success. With this solution in place, the company is well-positioned to improve its service and continue delivering value to its clients in a modern and accessible manner.

Future work

The next step for JRHArchitects will be to optimize the backend by adding new functionalities according to future needs and improving efficiency in file management. Security measures will also be implemented to protect data, such as regular backups and scalable databases, ensuring the integrity and reliability of the platform in the long term.

User interface

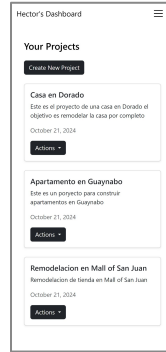


Figure 1 Client dashboard project management view

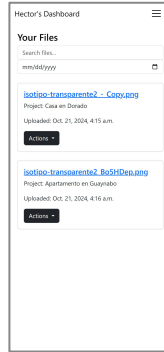


Figure 2 Client dashboard files management view

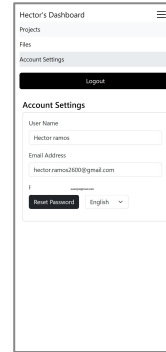


Figure 3 Client dashboard account settings view

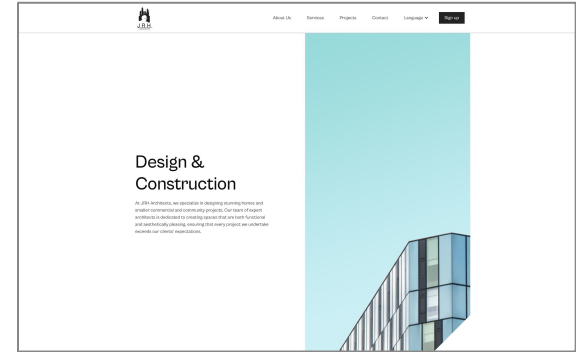


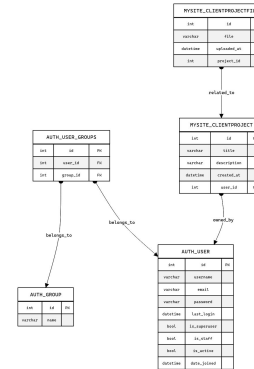
Figure 4 JRH Architects website

Tools and programs

Various key tools and technologies were employed in this project. Relume was used as a resource for structuring and organizing the web design, while Webflow facilitated the visual creation of the site. Google's Project IDX provided a more efficient development environment. ChatGPT was utilized for idea generation and technical solutions support. Google Drive was used for file management and storage, and Notion was key for project organization and tracking. The backend was built using Django, a robust Python framework, while JavaScript, HTML, and Bootstrap were employed for frontend development, ensuring an interactive, responsive, and user-friendly interface.



Database diagram



References

- Relume - Relume. (n.d.). Retrieved from <https://www.relume.io>
- Webflow - Webflow. (n.d.). Retrieved from <https://www.webflow.com>
- Project IDX (Google) - Google Cloud. (n.d.). Retrieved from <https://cloud.google.com/blog/products/application-development/introducing-project-idx>
- ChatGPT - OpenAI. (n.d.). Retrieved from <https://openai.com/chatgpt>
- Google Drive - Google Drive. (n.d.). Retrieved from <https://www.google.com/drive>
- Notion - Notion Labs Inc. (n.d.). Retrieved from <https://www.notion.so>
- Django - Django Software Foundation. (n.d.). Retrieved from <https://www.djangoproject.com>
- JavaScript - Mozilla Developer Network. (n.d.). Retrieved from <https://developer.mozilla.org/en-US/docs/Web/JavaScript>
- HTML - W3C. (n.d.). HTML Specification. Retrieved from <https://www.w3.org/html>
- Bootstrap - Bootstrap. (n.d.). Retrieved from <https://getbootstrap.com>