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Module 5  
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**5-2 Milestone Four: Enhancement Three: Databases**

The artifact I selected for enhancement is my Wild Oasis front- end website and turn it into a full-stack application. I used the “Travlr Getaways” guide but adapted to serve as a wildlife sanctuary website. I chose this project because it shows my ability to apply full-stack development skills in a meaningful context. Instead of trips and resorts, my version focuses on rescued animals, their details, and their stories, which better reflect the mission of my chosen theme.

In Milestone Four, I focused on enhancements from Module 5 and Module 6 of the Full Stack Guide. Module 5 required creating RESTful API endpoints to manage animal data. I developed schemas in Mongoose and linked them to form inputs in the Angular front end. Early on, I ran into validation errors when fields such as ‘img’ or ‘species were missing. Solving these issues taught me the importance of aligning front-end forms with back-end models and gave me experience debugging real-world data consistency problems.

Module 6 emphasized converting the application into a single-page application (SPA) using Angular. This was an important improvement because it shifted the project from a server-rendered app to a modern, client-side framework. I built Angular components and services to consume the API and replaced the guide’s “trip” functionality with animal-specific features. Now the application dynamically displays animal data, and users can make updates. This required me to change the template code while keeping the sanctuary’s needs in mind, which highlighted the importance of flexible design.

I selected this artifact for my ePortfolio because it demonstrates both back-end and front-end skills. On the back end, I developed RESTful services and worked with a NoSQL database. On the front end, I created an Angular SPA with reusable components and routing. Together, these enhancements show that I can design scalable, adaptable software solutions.

Reflecting on this process, I see how much I learned by aligning schemas, troubleshooting validation errors, and restructuring components. I met the outcomes I set in Module One, and I gained confidence in applying full-stack skills to build a project that is functional, adaptable, and meaningful.

Here are screenshots of the new admin page I was able to create and proof that the data updates in MongoDB as well! I am proud that I was able to accomplish this all this week. All code updates can be viewed on my GitHub at: <https://github.com/taylorstapus/Wild-Oasis-Fullstacks>

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