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For my ePortfolio enhancement plan, I’d like to use my final project from CS 465 as the single artifact to fulfill all three required enhancement categories: software design and engineering, algorithms and data structures, and databases. I understand this course wasn’t one of the listed options in the guidelines, but I believe the project is strong enough to meet the expectations of the rubric. It was the most in-depth and complete project I developed during the program, and it aligns well with my career goal of becoming a full-stack developer. I’d like to know if you think this approach would work. I’m a bit concerned that using a single artifact for all three enhancements might be more difficult to accomplish than using three separate artifacts focused on specific areas, so I’m open to going that route instead if needed.

Software Design & Engineering:  
I’m considering refactoring the front end of the application to improve code structure and organization. This could involve breaking up components into feature-specific modules, cleaning up the layout with Angular Material, and improving responsiveness on different screen sizes. On the backend, I may restructure the code to separate routing, controllers, and middleware more clearly, making it easier to maintain and extend in the future.

Algorithms & Data Structures:  
One area I may focus on is improving the booking logic, especially how it handles overlapping date ranges to prevent conflicts. I could also work on optimizing the trip search and filtering functions by improving how data is processed and returned, possibly using more efficient conditionals or restructuring how data is sorted and filtered.

Databases:  
For the database side, I’m thinking of enhancing the MongoDB schema to make better use of subdocuments or references, depending on the data relationships. I may also add more thorough validation using Mongoose and consider creating aggregation pipelines for admin dashboards that display statistics like most booked destinations, user activity, and revenue summaries.

Overall, I think using a single artifact for all enhancements would allow me to produce a more polished, well-rounded full-stack project that could stand out more on a resume or portfolio site.