Michael Ladderbush

I selected this artifact because it represents a comprehensive Java application that I developed to manage contacts, appointments, and tasks. It showcases my proficiency in Java programming and object-oriented design, which are fundamental skills in software development. By enhancing this artifact, I aimed to demonstrate my ability to iteratively improve and extend a software project based on changing requirements and objectives.

In Module One, I focused on enhancing the functionality related to managing appointments and tasks. Specifically, I wanted to implement functionality to allow contacts to relate to and contain appointments and for appointments to do the same with tasks. I also wanted this feature to associate contacts, appointments and tasks with one another while ensuring that objects remained unique and did not get added to others that didn’t match IDs. I wanted my services, suppliers and objects to generate unique objects with descriptive variables that could be expanded upon easily in the future. I plan to further improve this artifact by adding REST Apis that can be served to a frontend application and by improving the current project this goal can be accomplished more easily in the future. This enhancement required an understanding of class relationships, dependency management, and proper object orientation.

Through this process, I demonstrated skills in object-oriented design by carefully considering class relationships and encapsulation to ensure a clean and maintainable design. I managed dependencies between classes effectively, ensuring that each class encapsulates its responsibilities and interacts with other classes through well-defined interfaces. This approach promotes modularity and code reusability. Overall, enhancing this artifact allowed me to showcase my skills in software development, particularly in Java programming, object-oriented design, problem-solving, and testing. It reflects my ability to analyze requirements, design robust solutions, and iteratively improve software projects.