Conclusion

This assignment applied functional decomposition to an Event Ticket Booking Application in order to systematically understand its structure, behavior, and underlying logic. By breaking the system into five clearly defined layers, the analysis revealed not only user-visible features but also the hidden system processes that ensure reliability, scalability, and correctness.

The decomposition exercise highlighted the importance of separating core functionality from conditional logic, automation, and exception handling. System-only operations such as seat locking, inventory synchronization, payment verification, and fraud detection play a critical role in maintaining fairness and stability, especially under high concurrency and failure scenarios. Identifying these elements early helps prevent design oversights that are not immediately visible at the interface level.

This structured breakdown will directly support navigation and interaction design in Module II. The clear mapping of user actions to system responses provides a strong foundation for designing intuitive flows, consistent information architecture, and resilient user journeys. Additionally, the identification of missing features and edge cases ensures that future design decisions account for accessibility, error recovery, and real-world usage conditions.

Overall, this functional decomposition demonstrates how complex digital systems can be analyzed methodically, enabling better design decisions, improved user experience, and more robust system behavior in subsequent stages of development.