:::: Scope of Work Document

Scope of Work (SOW) - Is an agreement between an employee/contractor and employer outlining services work to be completed by the employee. SOW's are used commonly in technology jobs and contract work.

Please submit your Scope of Work Document by <mark>Jul 2</mark> detailing the project you plan to complete. (Make a copy and answer the questions below about your Application. You will submit with your Final Project PowerPoint/Slideshow)

Deliverables:

Describe your application in detail. What does it do? How does it work?

I'm developing a Concert Ticket Reservation System that uses a C++ console-based application that allows users to view available seats, book tickets, and cancel reservations for a fictional concert event. The system simulates a venue with a fixed number of seats, each represented by a seat number. Users can interact with the system through a simple menu-driven interface.

The application allows users to view a list of all available seats, choose and reserve a specific seat number, cancel a previously booked seat, and exit the session when finished.

The system uses a one-dimensional array to keep track of which seats are available or booked. When a user wants to book a seat, they enter a seat number, and the system checks if it's free. If it is, the seat gets marked as booked. If the user wants to cancel a seat, they enter the seat number, and the system makes it available again. The program can also save and load seat data using files, so seat reservations can be remembered the next time the program runs.

Milestones:

Core Features(min 3)

1. Book a Ticket – Users can choose a specific seat number to reserve if it's available.
2. Cancel a Ticket – Users can cancel a reserved seat, making it available again.

3. Display Available Seats – The program shows a list of all currently unbooked seats.

Special Features - How do you want it to work in the future after you have more time to develop the idea and your programming skills?

In the future, I would like to improve the system by adding user authentication so multiple people can have their own accounts and booking history.

Timeline: **FINAL PROJECT & PRESENTATION: Jul 2, 2025**.