Final Project Plan

I have chosen the "Open-ended project".

The program that I will create is an employee management system that allows a company to manage their employee information, including their name, job title, salary, and vacation days. The system will allow the company to add new employees, remove employees, and calculate bonuses based on employee performance.

To achieve this, the program will consist of 8 classes. The Employee class will be the base class for all other classes and will define the basic properties and methods for an employee. The Manager and HRAdmin classes will inherit from the Employee class and add their own specific methods and properties for managing employee data. The EmployeeList class will manage a list of employees, while the BonusCalculator class will calculate employee bonuses based on their performance. The InputHandler class will handle user input, and the OutputHandler class will display program output.

I’ll use principles such as Abstraction, Encapsulation, Inheritance, and Polymorphism. The program will solve a common problem that many companies face (including the one I work for), which is the need to manage employee data and calculate employee bonuses.