CSE 310 – Applied Programming Module Plan

Name: Santiago Benjamín Irigoyen

Date: 5/9/2025 Module # (1-3): 1

Identify which module you have selected to work on.	Place an "X" in front of your selected
module.	
Cloud Databases	Language – Java
Data Analysis	Language – Kotlin
Game Framework	Language – R
GIS Mapping	Language – Erlang
Mobile App	Language – JavaScript
Networking	X Language – C#
SQL Relational Databases	Language - TypeScript
Web Apps	Language – Rust
Language – C++	

2. At a high level, describe the software you plan to create that will fulfill the requirements of this module. Describe how each requirement will be met. This may change as you learn more about the technology or language you are learning.

For this module, I plan to build a console application in C# that demonstrates the use of classes and objects. The program will allow the user to interact through the console and will save some data to files. This project will give me practice with object-oriented programming and file handling in C#.

How the project meets the requirements:

- 1. Classes and objects: I will create at least two classes to represent different parts of the program.
- 2. **Inheritance and polymorphism:** One class will inherit from another, and I will override a method to show polymorphic behavior.
- 3. **User interaction:** The program will ask for input and display results in the console using *Console.ReadLine()* and *Console.WriteLine()*.
- 4. **File storage**: Some data will be saved to a file using *StreamWriter* and loaded back with *StreamReader*
- 3. Create a detailed schedule using the table below to complete your selected module during this Sprint. Include the task and duration for each day. You are expected to spend 24 hours every Sprint working on this individual module and other activities in the course. Time spent on this individual module should be at least 12 hours.

	First Week of Sprint	Second Week of Sprint
Monday	Review C# basics: classes,	Implement inheritance and
	objects, inheritance	override methods to show
		polymorphism
Tuesday	Plan program structure and	Refine program logic and
	create class outlines	class interactions
Wednesday	Implement main classes with	Test file handling thoroughly
	basic methods	and fix bugs
Thursday	Add user input/output	Test complete program flow
	functionality with	end-to-end
	Console.ReadLine() and	
	Console.WriteLine()	
Friday	Implement file handling to	Debug remaining issues and
	save and load data	polish code
Saturday	Test classes individually and	Final review and submit
	debug issues	module work

4. Identify at least two risks that you feel will make it difficult to succeed in this module. Identify an action plan to overcome each of these risks.

Risk	How I Will Address It
Difficulty understanding inheritance	Start with small examples, use tutorials, and ask for help if
or polymorphism	needed
Bugs or runtime errors in the	Test each part as it is developed, use the VS Code debugger,
program	and check results step by step