# Library Management System

**CSCI 5448** 

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#### Structure of presentation

- Framework/Tools used
- Walk-through Demo 1
- Walk-through Demo 2
- Design Pattern Used Bridge
- Design Pattern Used MVC

#### Framework/Tool used

- ASP.NET Framework.
- C# as our Object Oriented language.
- Visual Studio as our IDE.
- MS SQL as our Relational Database.

### Walk-through Demo 1

Below is one of the Use cases we had in our Part 2.
 Let's see a live demo of that.

Use case name	SearchLibrary
Participating actors	Initiated by Student
Flow of Events	1. Student selects search tab
	2. Student selects category to perform search
	3. Student enters text to search
	4. Student hits search button
Entry Conditions	Student is logged into LibraryManagementSystem
Quality Requirements	Query can be performed on database

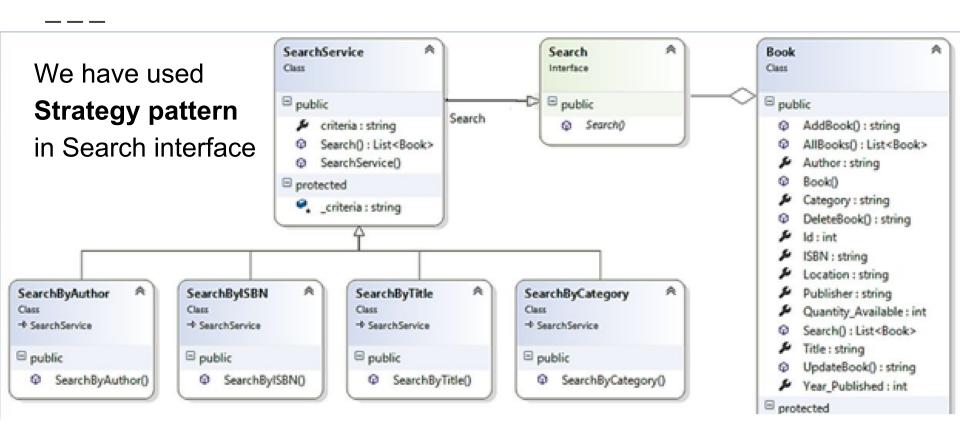
#### Walk-through Demo 2

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Below is another Use case we had in our Part 2.
 Let's see a live demo of that.

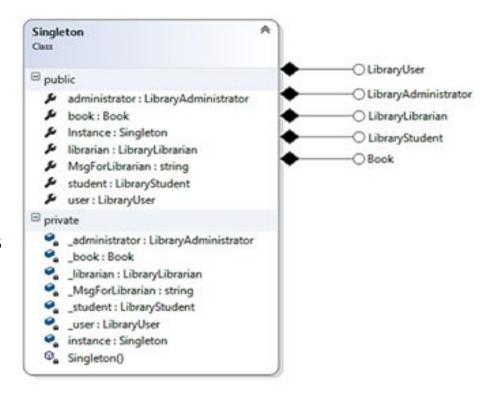
Use case name	Update CopiesofBooks
Participating Actors	Administrator
Flow of Events	1. Administrator selects update tab
	2. Administrator increments/decrements numbers of book in library
Entry Conditions	Administrator is logged into LibraryManagement System

### Design Pattern used - Strategy



#### **Design Pattern used - Singleton**

Also we have used the **Singleton**pattern to have a single ready
instance of all our basic models
available at runtime so that we
would not have to instantiate each
of them every time the controller is
called



## Thank you