Using **C#** and **Windows Presentation Foundation** (**WPF**), design and implement a standalone desktop project management system that fulfils the following requirements:

1. The user must be able to add **multiple projects** and following data must be stored for each project:
2. **Project** **Code**, for example, PR123
3. **Project** **Name**, for example, Casanova
4. **Start and End date**, for example, 15/08/2022 – 28/10/2022
5. **Duration** (number of days between start and the end date)
6. **Estimated Cost.**
7. A List to store the project objects
8. The user must be able to enter a **start and end date** for the project.
9. The application shall display a listof the **projects** with the number of days per project

Class: Project

1. **Properties**
   * Project code, name, start date, end date, duration, and estimated cost
2. **Exceptions / Validations**
   * Throw an exception if the project name is less than 3 characters
   * Throw an exception if the start date is after the end date
3. **Overloaded constructor** 
   * Pass the code, name, start date and end date as parameters and then assign them to project properties.
   * Duration is determined as the number of days between the start and the end date.
4. Methods
   * **calcEstimatedCost** – create a method that will return the estimated cost of the project. The cost is determined as: hourly rate \* number hours in a day (1 day is set to have 8 hours), the method should accept the rate and number of days as arguments / parameters
   * override **ToString()** method that will return the details of the project as follows:

Code: PR123 Name: SISONKE 14 days, EC: R22 400.00

1. Features – Indexes
   * Create an indexer that will return a project object with a specific name
   * Create an indexer that will return all project objects that are over a specified estimated cost

Class : Program – WPF GUI.

***For now, we will start with the class implementation***