You are tasked with creating a sales report application which an end user can interact with via C sharp. A relational database (MySQL) should be used to store and persist the sales data. The database requires **a single Sales table** containing the following fields:

* SaleID (INT) – Primary Key
* Product Name (VARCHAR)
* Quantity (INT)
* Price (FLOAT/DECIMAL)
* SaleDate (DATE) – should automatically default to the todays’ date

*Ensure the database and its table are created with the appropriate names, data types and constraints.*

The following requirements must be met in the C SHARP application:

* On start-up, users should be presented with 2 options which are:

1. Data Entry
2. Reports

* Should the user select option **1. Data Entry**, they should be able to add a new sales record to the sales table
* Should the user select option **2. Reports**, they should then be presented with 4 options which are:

1. Report of the **list of products** sold in a **specific year** (e.g., List of all sales details in the year 2020)
2. Report of the **list of products** sold in a **specific month** of a year (e.g., List of all sales details for the month of August in the year 2020)
3. Report of the **total sales** in a **specific year** (e.g., Total Sales for 2021)
4. Report of the total sales in a **specific month** of a year (e.g., Total Sales for August 2021)

* MySQL queries must be written for ALL of the above options, and should the user select any of the 4 options, they should be presented with the relevant report

***IMPORTANT:*** *Some reports would be filtered by the year the user enters, but others require the user to enter a month AND year to filter the reports.*

*The project must be completed using solely C SHARP and MySQL.*

**Submission**

You should create a Git repository that contains the code for the application. You are also expected to make a README.md file and to fill this README with information of this project. It should contain the following headers:

* Why are we doing this?
* How I expected the challenge to go.
* What went well?
* What didn't go as planned?
* Possible improvements for future