

## **Final Practice (DAM 2 ): Desarrollo de Interfaces.**

### **Project and Employee Management for an IT Consulting Firm in WPF**

#### **Statement:**

Develop a desktop application using WPF for an IT consulting company that needs to manage its projects , employees , and billing efficiently. The application must meet the following requirements:

**Project Management** : Users will be able to create, edit and delete projects, including relevant information such as project code (PK), name, description and budget. The application will not require database persistence, managing all data in memory during execution.

**Employee Management (Project Costs)** : Implements the functionality to manage employees, allowing records to be added, edited and deleted without the need for a persistent database. Each employee must include basic information such as name, role and hourly cost.

**Invoice Creation (Project Revenue)** : The application shall allow for the recording of project invoices representing revenue generated by work performed on projects . Users will be able to associate invoices to specific projects with an invoice number (PK), specifying the services provided and the final amount , thus generating an income summary.

**Assigning Employees to Projects** : Users should be able to assign employees to specific projects and record hours worked on workdays, as well as charge costs related to travel or other expenses that may arise in the development of the projects. The project cost is calculated as the cost of the employees per hour plus the different costs that may be incurred by the project (travel, licenses, guards, etc.). Remember that an employee can work on several projects simultaneously.

**Statistics Display** : The application must include a section that allows viewing statistics on projects, such as total hours worked in the month , total costs monthly and benefits. Facilitating decision making and performance monitoring. Company management wants to be able to filter out projects that are below the minimum profitability of 35% (Cost/Income).

**Intuitive Interface** : Design an attractive and easy-to-use graphical interface, using WPF controls seen in class ( DataGrid , buttons, labels, etc.). You must ensure that users can manage information in the most comfortable and simple way possible .

**Delivery** : The project must be delivered in a GitHub repository, along with a README file explaining how to run the application and its main features.