**Application**

# Tools used

**Database**

A Microsoft option very used in the enterprise world

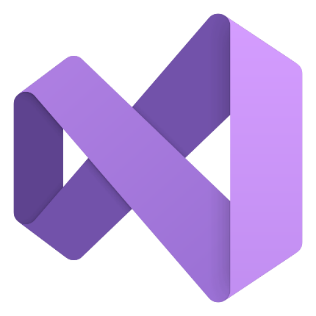
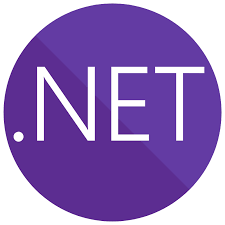


**BackEnd**

**Visual Studio:** Visual Studio IDE created by Microsoft. It provides a comprehensive set of tools and features for developing software applications.

.NET is a software development platform created by Microsoft

**Postman:** for API (developed in .NET) testing

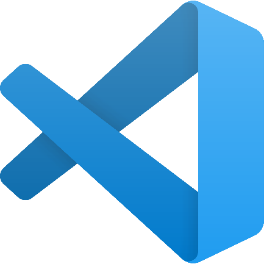
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**FrontEnd (Angular, Visual Studio Code)**

**Visual Studio Code:** is a code editor with multiple and useful plugins

**Angular:** is an open-source front-end web application framework



**Code versioning**

Git using the Github Desktop tool



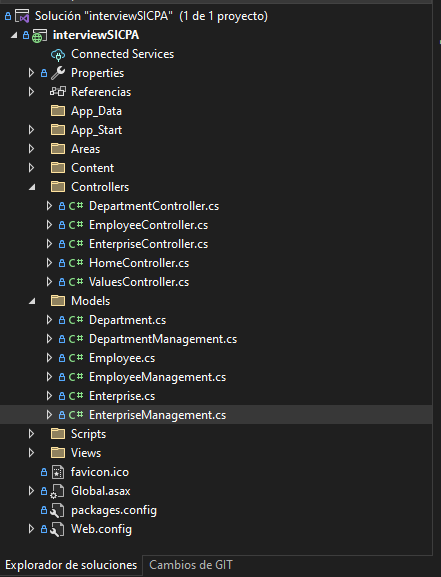
**Methodology**

**Scrum** is an agile project management framework that is widely used in software development. It is a flexible and iterative approach to project management that focuses on delivering value to the customer in short, time-boxed iterations known as sprints.

|  |  |
| --- | --- |
| **Sprint** | **Task** |
| Sprint 1 | * Database model * Database script * Setup |
| Sprint 2 | * Back End Development:   + Models creation   + Management code to connect to databse   + Controllers definitions   + Postman tests |
| Sprint 3 | * Front End Development:   + Angular code (components, Services, modules)   + Interface design * Documentation:   + Installation Guide   + Application Document |

# Project structure

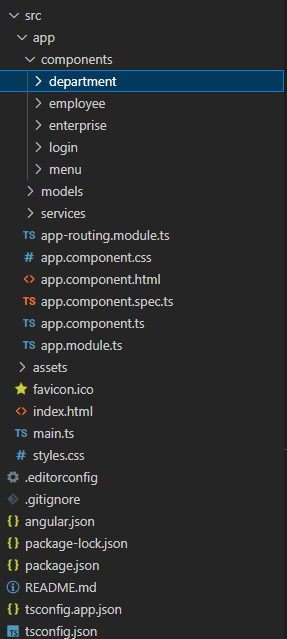
.NET API



**Controllers:** used to manage the behavior of the web API

**Models:** are used to encapsulate the data and logic of an application in a way that can be easily understood, modified, and reused

**Angular**

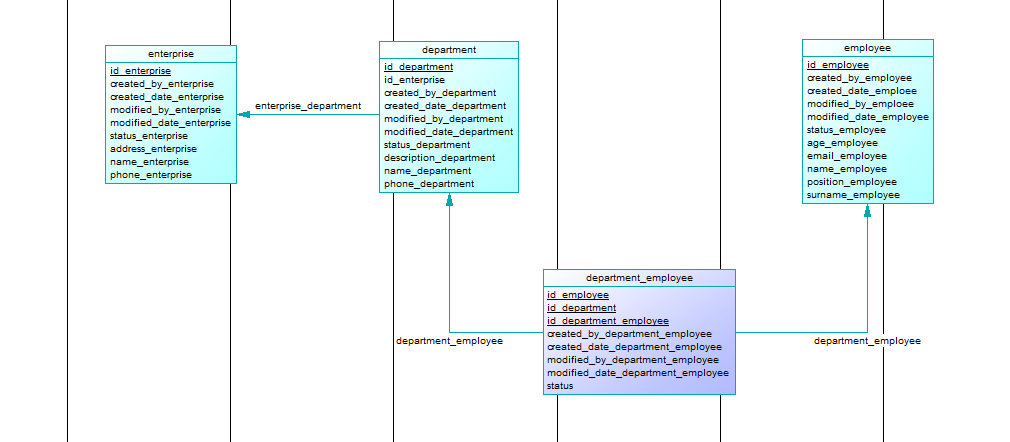


**Components:** a basic building block of the user interface (UI) that encapsulates a part of the UI and its associated functionality.

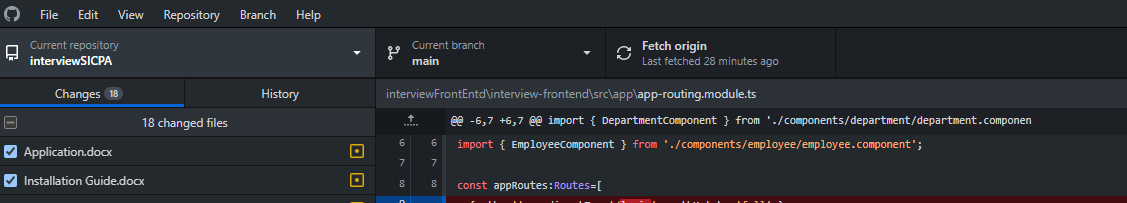
**Services:** are typically used to implement common functionality that is not specific to a single component, such as data access, logging, authentication, or communication with a server.

**Database**

Physical model



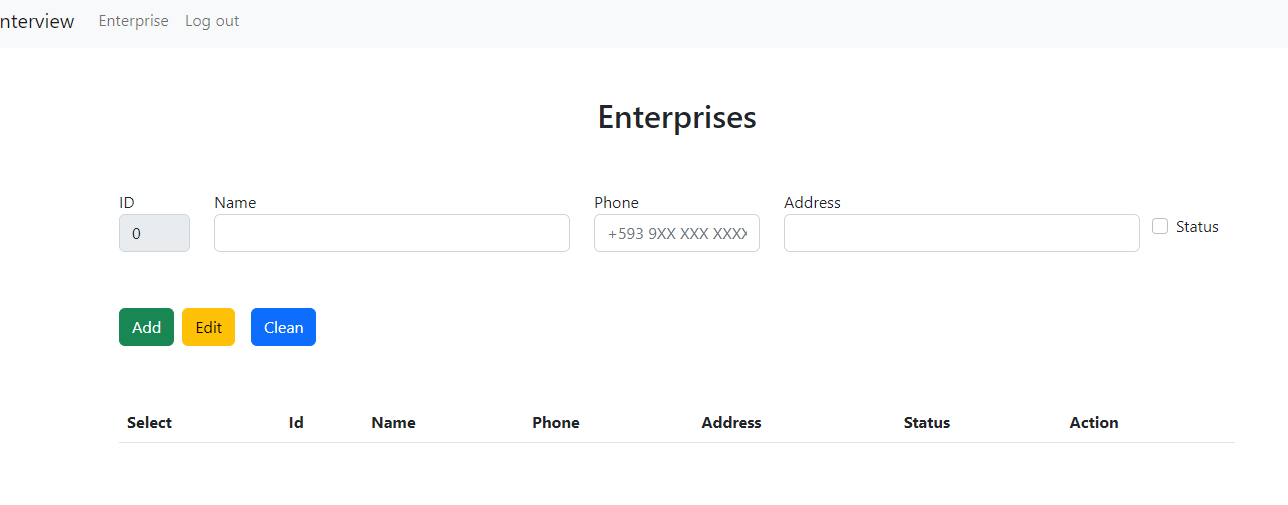
**Github repository**



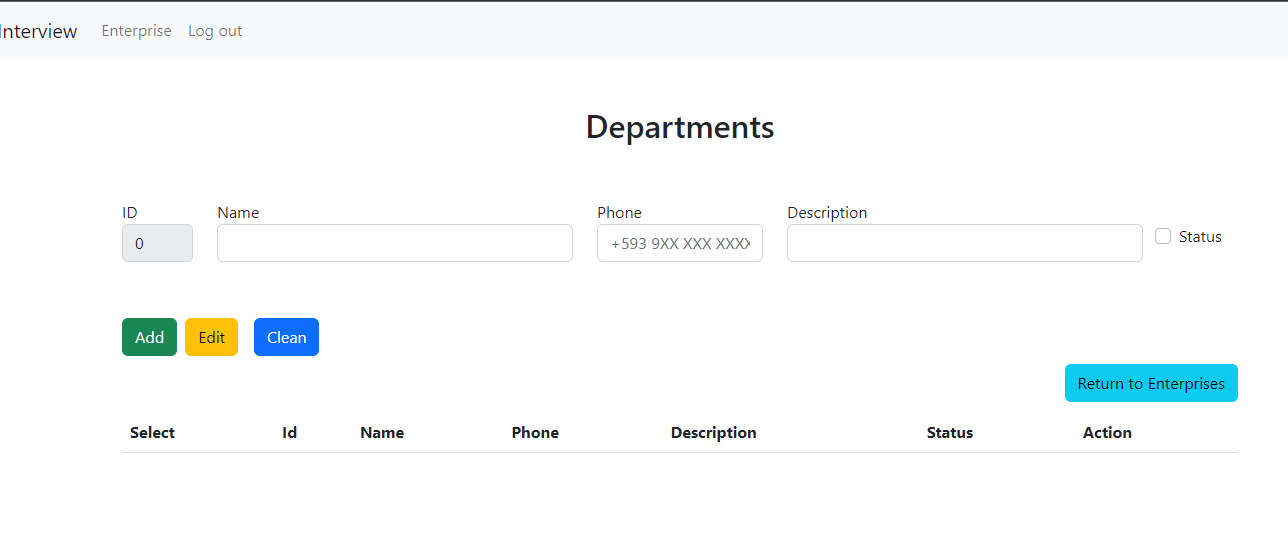
**Application runing**

Each module has the respective, Add, Edit methods and loads a table with all the respective records

# Main page Enterpise CRUD



# Department CRUD



# Employee CRUD

