Trainee Assignment:

Objective:

Create a web application with a backend in **C#,** a frontend in **Angular**, and any **SQL database**. The application must manage and visualize maritime-related data.

Requirements:

1. Database

The application must store the following information: Ships (name and maximum speed), Voyages (voyage date, voyage departure port, voyage arrival port, voyage start, voyage end), Ports (port name, port country), Countries that were visited in the last year (country name)

2. Backend

- Implement a REST API using **C# and ASP.NET Core**.

- Retrieve data from the tables.

- (Bonus) Implement Create, Update, and Delete operations.

3. Frontend

- Build the frontend using **Angular**.

- Display data from all tables.

- Create at least one **data visualization** based on the data (e.g., charts, graphs).

4. Technical Stack

- **Mandatory**: C# backend, Angular frontend, Any SQL database, Data visualization

- **Bonus**:

  o Use **NgRx** for state management

  o Add **unit tests** for backend and/or frontend

Deliverable

- Source code (shared through a Git repository).