# Squadron 2022 Web Application

This web application is designed to handle statistical information uploaded in a specific format (.txt) and display the data in a grid view and as a graphical representation of the information.

## Functionality

### File Upload and Validation

* Users can upload a .txt file containing statistical information in the format: color, number, label.
* The server-side validates the uploaded file and its contents to ensure adherence to the specified format.
* Valid rows from the file are stored in a database for further processing.

### Grid View of Uploaded Files

* Displays all attached files in a grid view.
* Files are sorted based on the most recently uploaded one.

### Graphic Display (Bars) of Data

* Generates a graphical representation (bar chart) of the latest uploaded file's data.
* Each bar corresponds to a valid row in the file.
* Bars are colored according to the specified color in the row.
* Bar heights represent the numeric value in the row.

## Technologies Used

* ASP.NET MVC
* Razor Pages
* JavaScript
* HTML and CSS

## Setup Instructions

* Clone this repository.
* Ensure you have the necessary dependencies installed (target framework .NET 6).
* Configure the database connection.
* Build and run the application.
* Migrate database

## How to Use

* Navigate to the file upload section.
* Upload a .txt file in the specified format.
* View the grid displaying all statistics.
* You can delete or update statistic
* View the latest uploaded statistics in the Chart section
* View all uploaded files in the File section, ordered by the latest uploads

## Libraries Used

https://cdn.jsdelivr.net/npm/chart.js