Programming Project

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PROJECT DESCRIPTION

The project contains two applications.

The first one is a **C++** app that creates a file with random data as a histogram using a gaussian distribution generator.

The second one is a web app with an includes a Node.js server (Back-End) and a Angular.js application (Front-End). The Node.js Server is in charge to read the **data files and run the C++ application** and the Angular app request the data and creates an interactive chart.

SPECS

Back-End
- Node.js (v5.10)
- Express (v4.13)

Front-End
- Angular.js (v1.5)

The chart has the following capabilities:
- Move x and y axis
- Mouse over action with info of the values in the chart
- Responsive layout
- Download chart as PNG
- Zoom & pan the area
- Change the size of the *histogram bins*
- Change the start/end range for the *histogram bins*

ARCHITECTURE