**Batch B Group 2**
**Experiment 7**
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# Interactive Data Analysis

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## OVERVIEW

A simple **JavaScript** application which lets a teacher input student's marks. After entering all students' marks it lets the teacher visualize the data to get insights from it.

## GOALS

1. To allow the teacher to enter marks of all students on the home page.
2. To visualize the data entered by the teahcer with the help of different types of charts on the visualization page.

## SPECIFICATIONS

The project stores data temporarily on the local device with javascript. Object data type is used for storing the data of all students. On the home page the form makes sure that no fields are empty and the marks field only accepts number data type so no invalid entry is added to the data. The charts are displayed with the help of Canvas JS.

### Add a Student

We have written a function that adds a new student whenever the user clicks the add button and the details are stored accordingly in the local storage. The details are filled through a function which passes the marks into a Object Data Type and then that is stored locally on the device by using Javascript's localStorage.setItem() method.

### Visualize Data

On this page there are four charts displayed:

1. Pie chart to show distribution of grades.

2. Line bar chart to show distribution of marks.
3. Doughnut Chart to show distribution of marks.
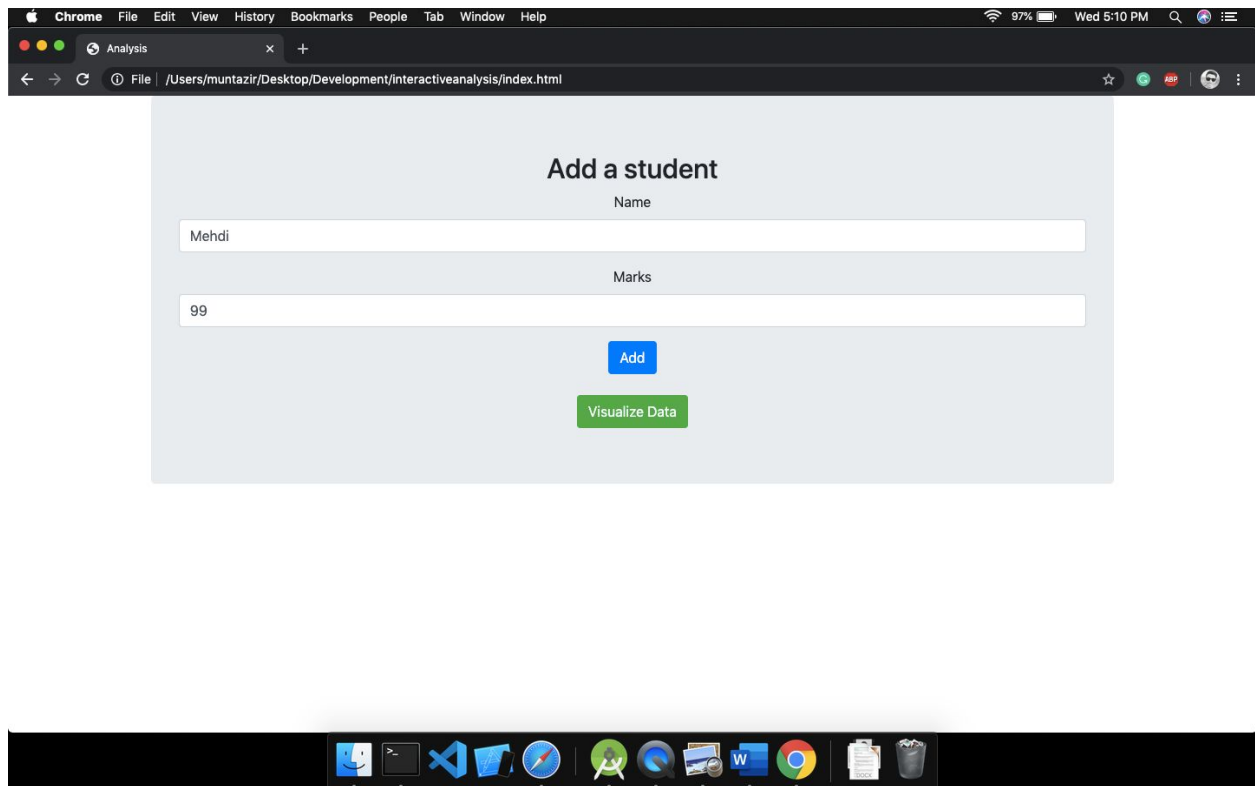4. Pyramid Chart to show distribution of marks.

## Project link :

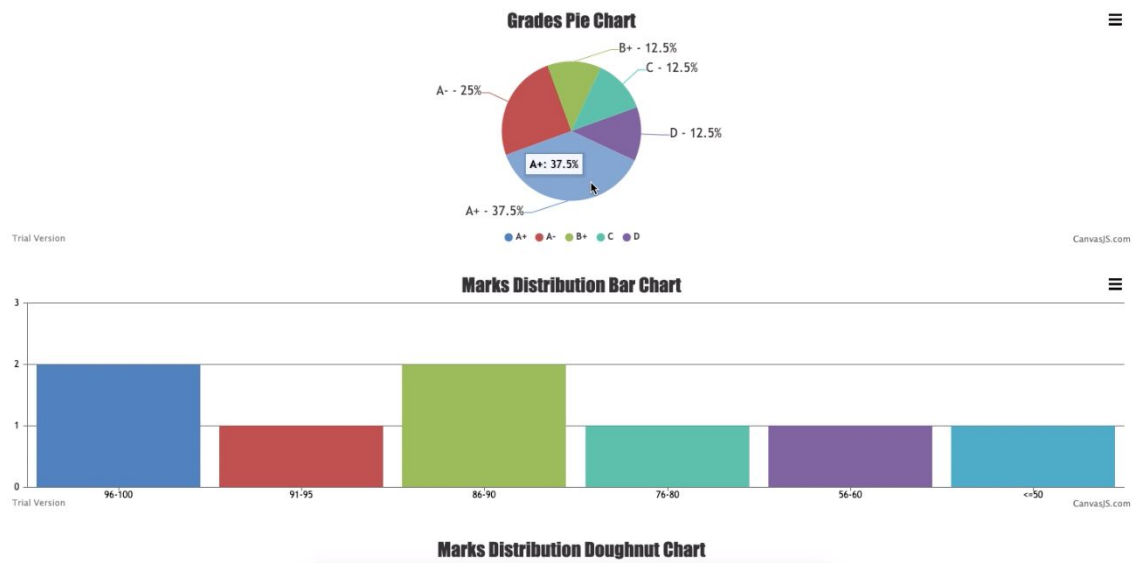The project code and <u>DEMO VIDEO</u> is present in the link given below and in the **interactiveanalysis** folder.

https://github.com/PatkarAditya22/JS-mini-projects
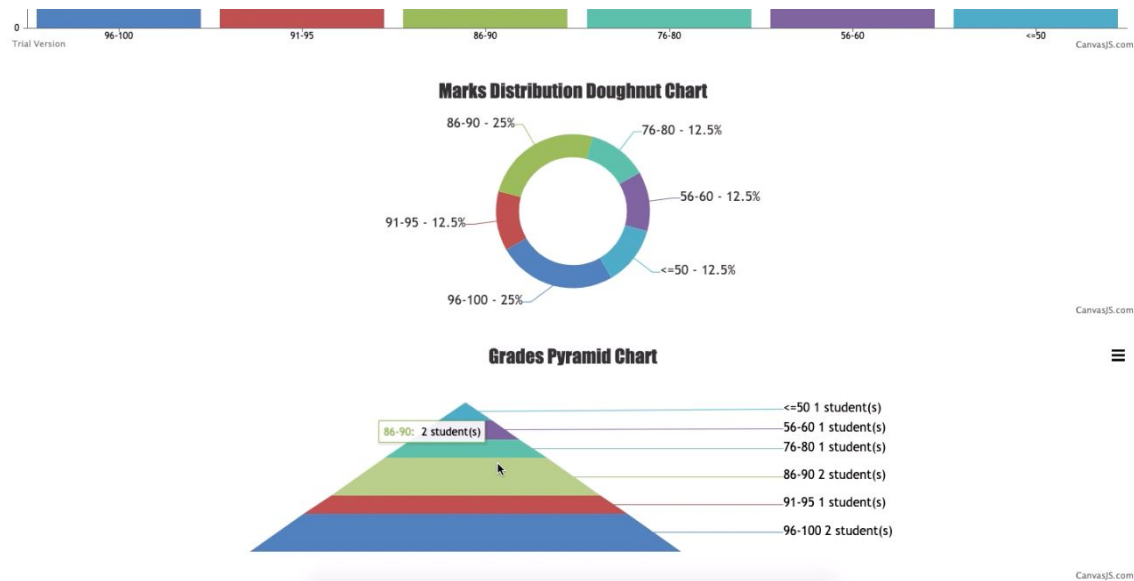
## Screenshots :

## index.html

**visualization.html(1st half)**



**visualization.html(2nd half)**



# Conclusion :

Thus we learned various JavaScript concepts and performed the experiment successfully.