Software Architecture for Grades AF

Many Clients

laptop

desktop

phone

input fields:
course name
grade
credits
weighted/unweighted

User Interface

Request/Body

on submit:
calculateGPAWeighted
calculateGPAUnweighted
calculateLetterGrade
clearFields

Fetch

R E S T A P I

Response/Status

Server

Data

calculateGPAWeighted

Multiply each numeric grade value by the number of credits the course was worth.
Add these numbers together.
Divide 45 by the total number of credits you took, in this example,13.
Your Weighted by Credit Hour GPA = 3.46.

calculateGPAUnweighted

Multiply the numeric value of your grade by the number that course was worth.
Do this for all of your classes and add the numbers together.
Divide that number by how many classes you took.
The number you have at the end is your GPA.

calculateLetterGrade

Enter total amount of points earned from each section.
Enter the percentage each section is weighted.
Multiply and add them together, then divide by total groups to get letter grade.