



GPA CALCULATOR

PRESENTED BY

Course Instructors

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ABSTRACT

What is GPA?

GPA is a measure of achievement, which can be used to indicate progress during your degree studies (cumulative) and/or as the final measure of achievement at the end of your degree (summative). Grade points are assigned to individual modules (or courses) using a GPA scale. A GPA score is then calculated using the grade points from the modules that contribute to the final award (either at particular stages during a degree and/or at the end of a degree programme).

Why is GPA being introduced?

It is well-recognised that the UK honours degree is an established and highly-valued qualification, but the broad degree categories or 'classes' of the honours degree classification system (e.g. 2i, 2ii) do not sufficiently differentiate student performance. For example, there is a difference in achievement between a student who gains a 'low 2i' (e.g. 60%) and a student who gains a 'high 2i' (e.g. 67%) yet they are likely to both be awarded a 2i degree. Similarly, a student may have gained a 2ii, and whether this was in fact near a 2i class might not be readily recognised by employers. A national initiative has explored the use of GPA in UK higher education. By working with a representative group of higher education providers, the initiative has looked at how GPA might be used to enhance the reporting of student achievement in the UK. This initiative has identified how GPA offers particular benefits to students:

- Increased clarity in relation to student achievement and performance – a specific grade is determined for each student (e.g. 3.75) rather than a degree class.
- International recognition – GPA is a system that is widely used and understood, an important consideration in ensuring that UK graduates are best placed in an increasingly global marketplace. Through using GPA, your degree results would be more readily comparable with those of graduates in other countries. The national initiative on GPA worked with universities and colleges to develop and propose a commonly-agreed GPA scale, which is similar to the globally recognised North American GPA scale

How will GPA be introduced?

The national GPA initiative recommended that a period of what is termed 'dual running' be introduced in the short to medium term. This is where higher education providers use both the current honours degree classification and GPA as measures of student achievement. During this 'dual running' period, a university or college may decide and plan to use GPA, replacing the honours degree classification system; your institution would provide details to its students about this. This period of 'dual running' would be valuable because it would mean that:

- There can be more wide-ranging communication and consultation on GPA adoption with students, staff groups, organisations and agencies across and beyond higher education (e.g. employers, professional, statutory and regulatory bodies).
- Further evidence can be gathered to fully evaluate the use of GPA as a measure of achievement. Within five years, there will be a national review of the adoption of GPA for UK higher education.

How will introducing GPA affect my institution's assessment regulations?

In introducing GPA, your institution will make the necessary changes to assessment regulations and ensure the enhancement of related practices, such as marking. They will, for example, determine the detail on which modules or courses contribute towards a final GPA, and for regulations about reassessed module grades or extenuating circumstances. Assessment issues, such as extenuating circumstances are handled in different ways by different universities, and the introduction of GPA may lead a university to revise its processes.

What about my degree result?

As with your degree classification, GPA can be included on formal records, such as your degree transcript or Higher Education Achievement Report (HEAR). Your university or college will provide you with further details about their plans for introducing GPA and how your degree results will be issued.

SOFTWARE SPECIFICATIONS REQUIREMENT FOR TRANSPORT SYSTEM

1. PROJECTSCOPE

This system will help to manage and calculate the GPA systematically. In this management system, we will provide an interface that can be used by the customers to calculate the GPA using grades. The management of the GPA calculator can keep a track of their Marks, details etc...

2. OVERALL DESCRIPTION

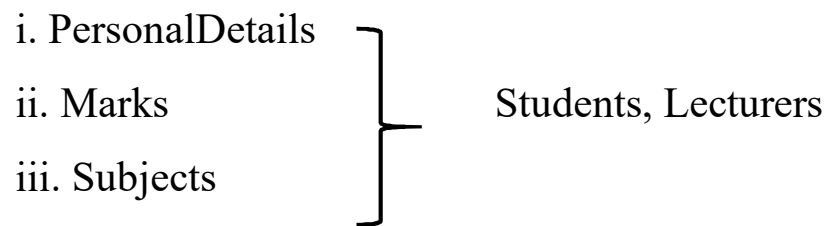
The GPA Calculator system helps the Colleges to manage the Marks of students more effectively and efficiently by computerizing details of Student details, Marks and other controls.

3. SOFTWARE REQUIREMENTS SPECIFICATION

3.1 FUNCTIONAL REQUIREMENTS

- i. Minimum Windows XP. Better environment Windows 8 & 10.
- ii. Language: JAVA
- iii. To maintain the whole system, a dedicated system for the student, college and lecturers is provided.

NON-FUNCTIONAL REQUIREMENTS



Business Requirements:

- Different scenarios in which the application must meet the requirements of the user.
- A way of storing the details in a database for the user to access the data for a better user interface.
- Requires the details of present existing software applications.

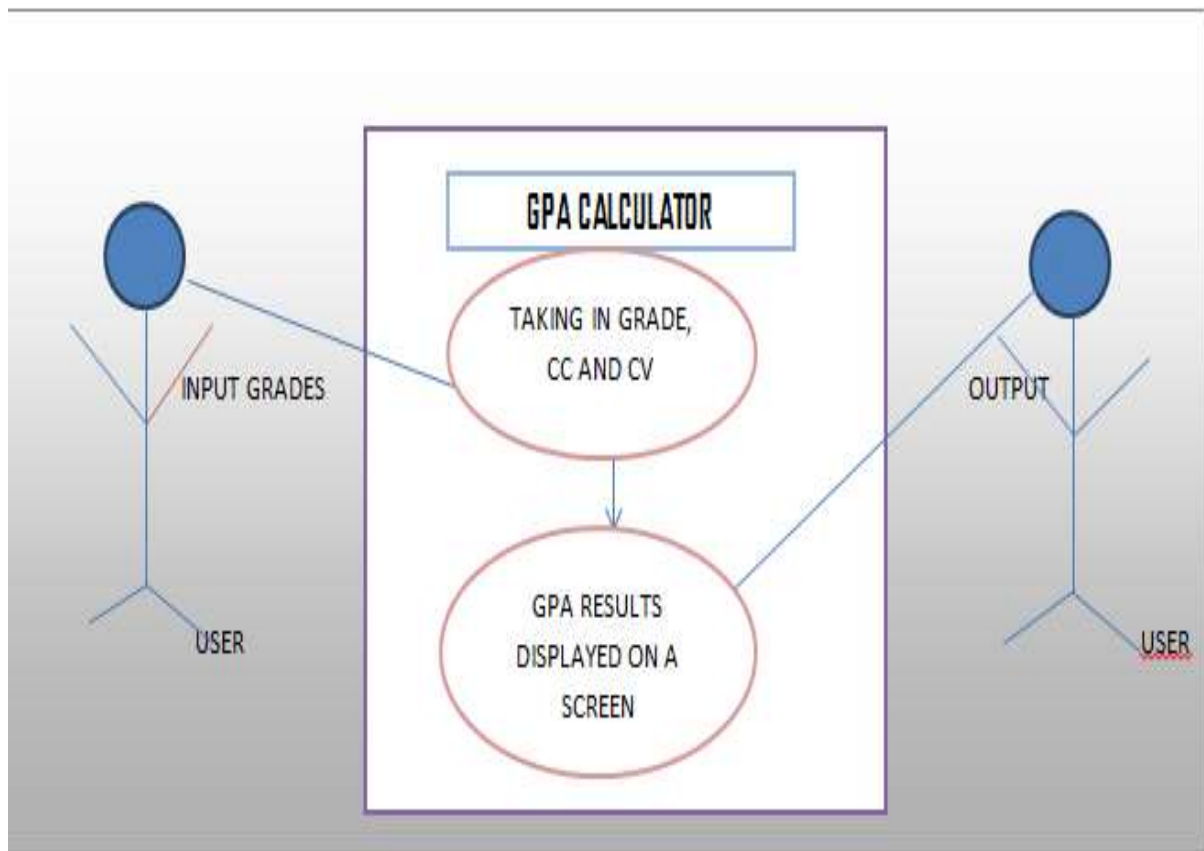
Stakeholder Requirements:

- The application's compatibility on different platforms.
- The user's ease of interacting with the application irrespective of his/her education.

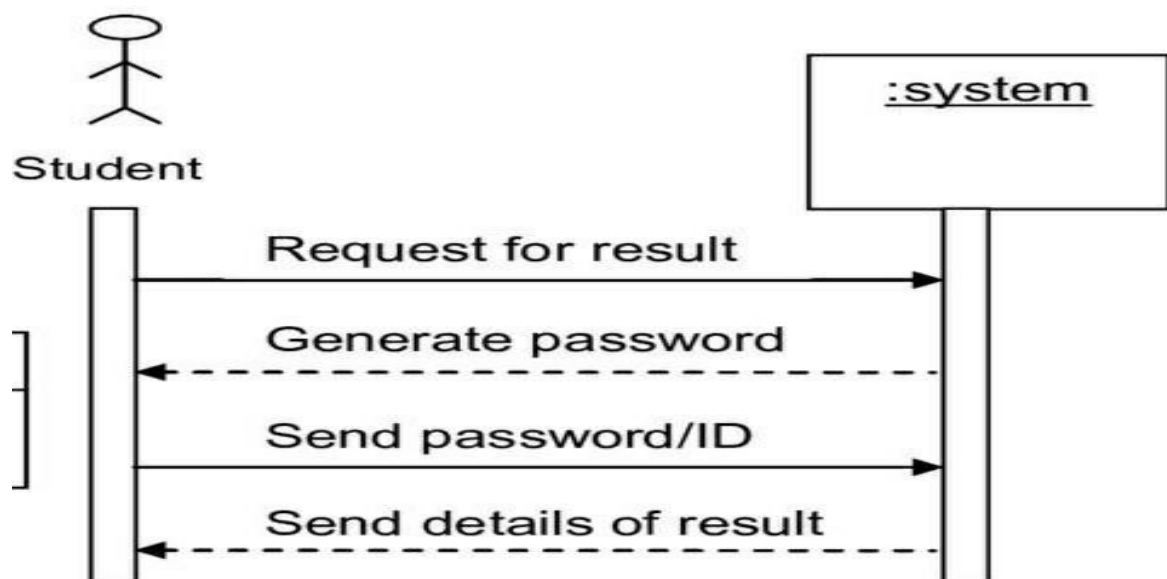
User Requirements:

- The different details required by the user (like Subjects, Marks, etc) Wide range of selection for the user. User needs the platform to work for 24/7.

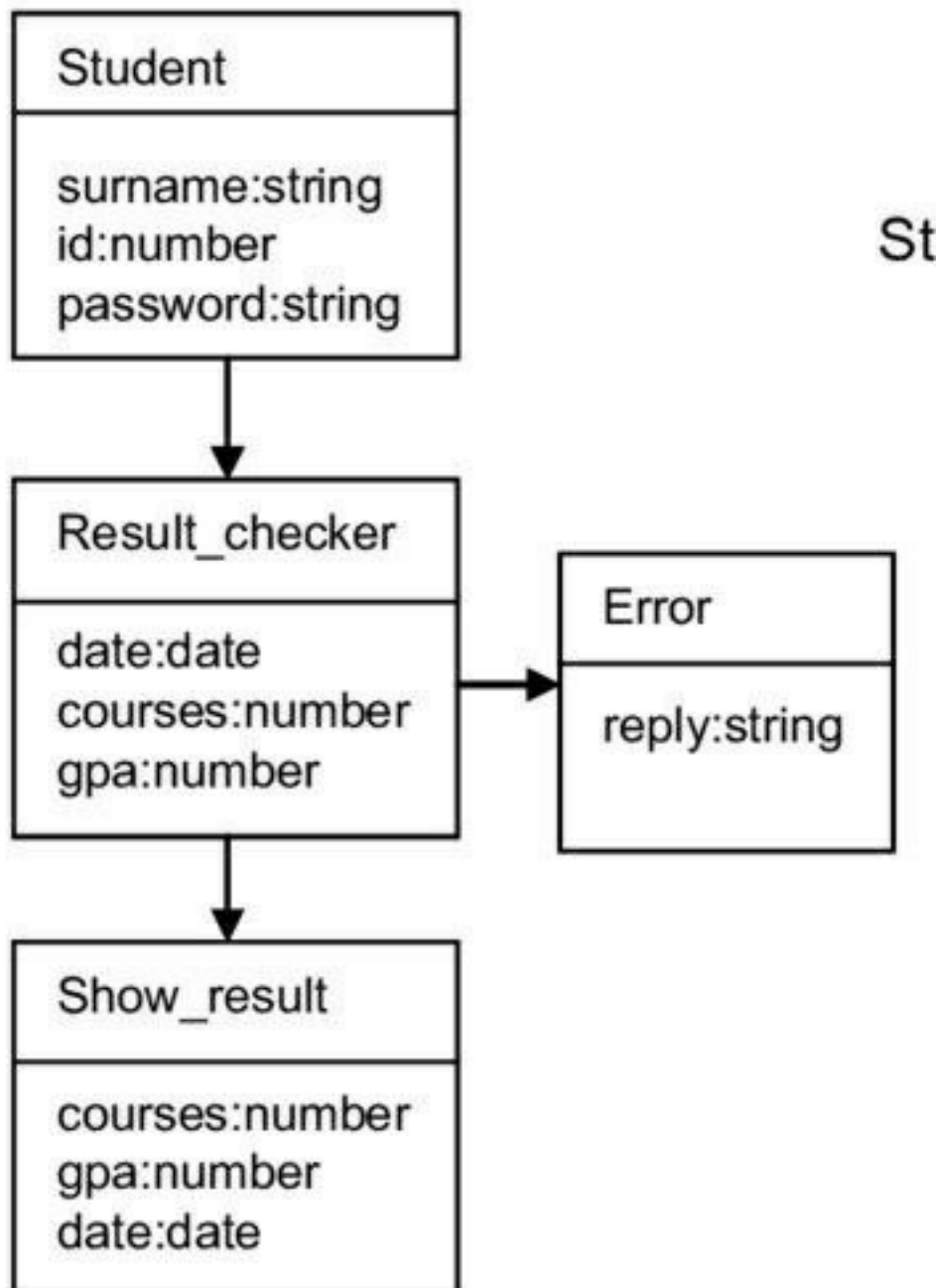
Use Case Diagram



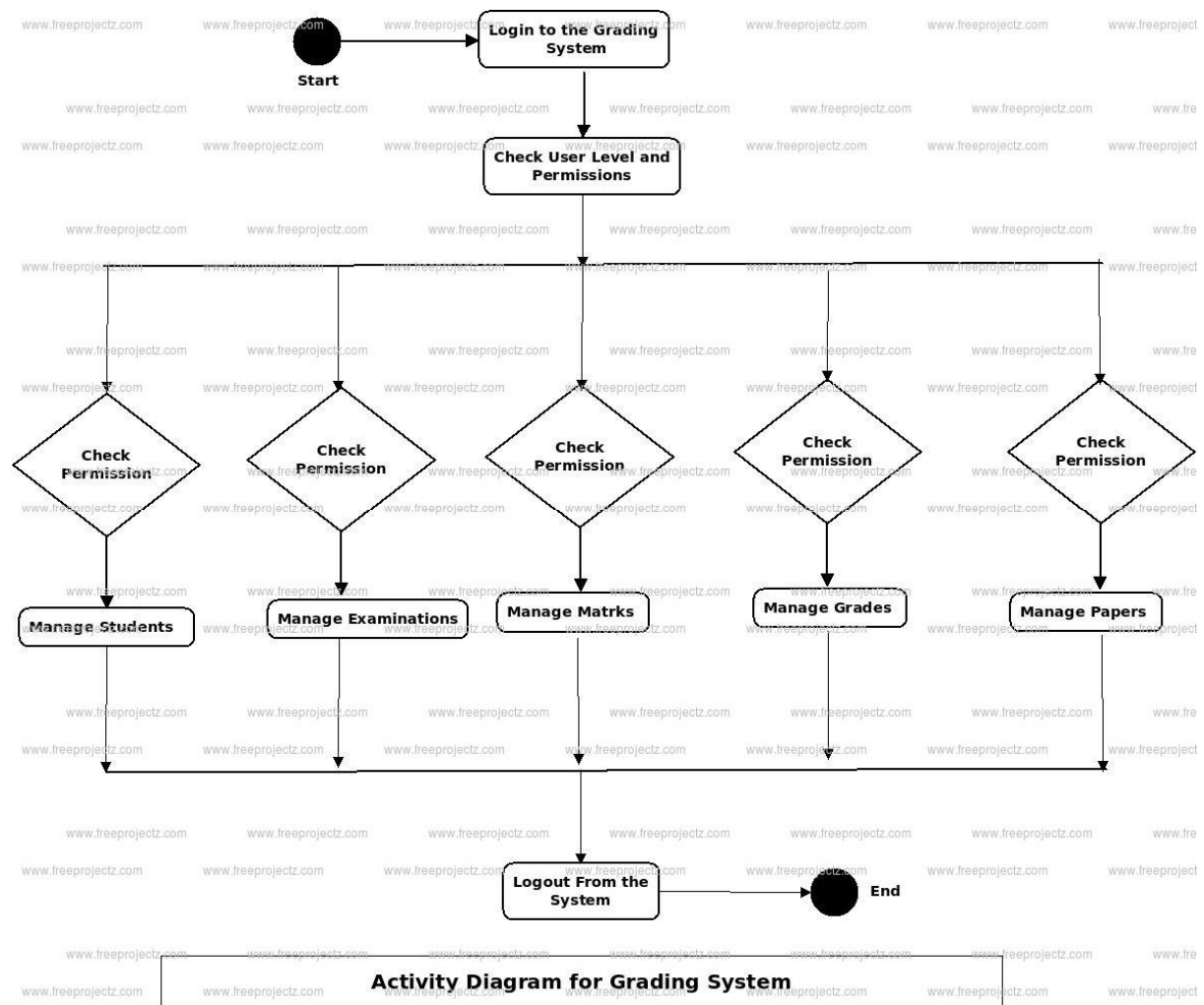
Sequential Diagram



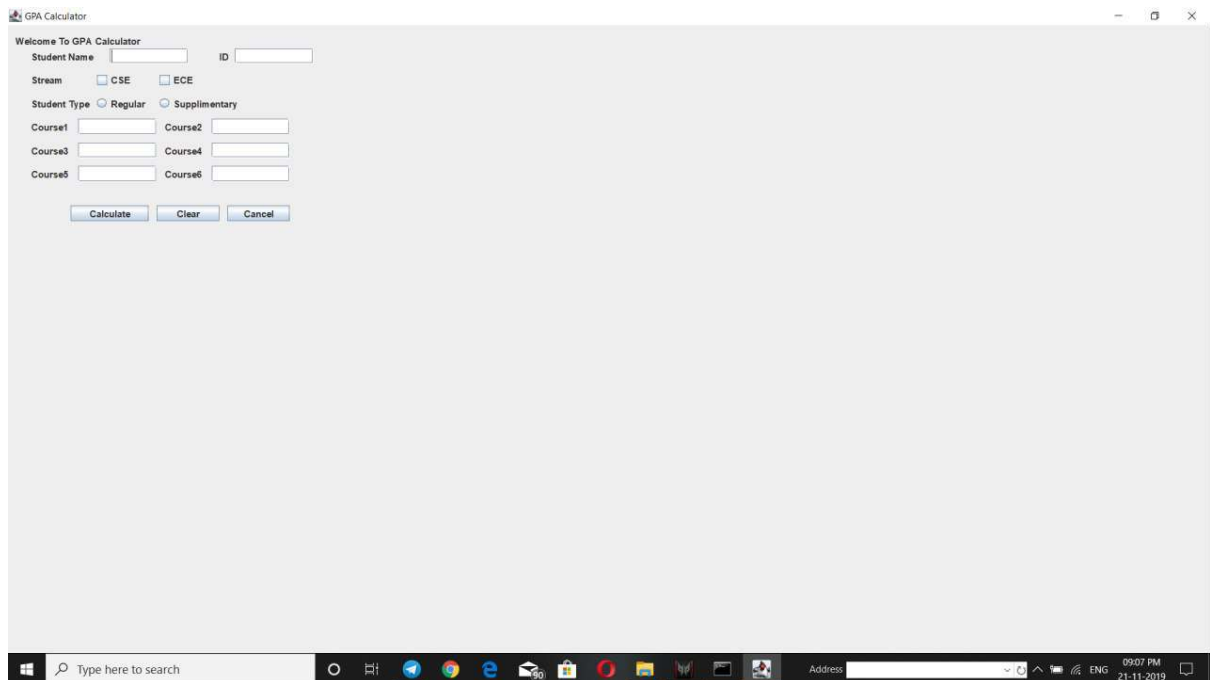
Class Diagram



Activity Diagram



Code Snapshots



The screenshot shows a Windows desktop environment with a taskbar at the bottom. The taskbar includes the Start button, a search bar with the text "Type here to search", and several application icons: File Explorer, Microsoft Edge, Google Chrome, and others. The system tray on the right shows the date and time as "21-11-2019 09:07 PM" and the language as "ENG".

The main application window is titled "GPA Calculator" and contains the following fields and controls:

- Welcome To GPA Calculator**
- Student Name**: A text input field.
- ID**: A text input field.
- Stream**: Two radio buttons labeled **CSE** and **ECE**.
- Student Type**: Two radio buttons labeled **Regular** and **Supplementary**.
- Course1**, **Course2**, **Course3**, **Course4**, **Course5**, and **Course6**: Six text input fields arranged in two columns.
- Buttons**: Three buttons at the bottom: **Calculate**, **Clear**, and **Cancel**.

GPA Calculator

Welcome To GPA Calculator

Student Name ID

Stream ☒ CSE ☐ ECE

Student Type ☒ Regular ☐ Supplementary

Course1 Course2

Course3 Course4

Course5 Course6

Type here to search

Address

09:08 PM 21-11-2019

GPA Calculator

Student Record

Name	kausthubha
ID	180330202
Session	CSE
Student Type	Regular
b+ GPA	

Type here to search

Address

09:09 PM 21-11-2019

Sample Test Cases

Name : Nitin

Id : 180330203

Stream : CSE

Course 1 : A

Course 2 : A

Course 3 : B+

Course 4 : B

Course 5: A

Course 6 : A