One challenge faced in implementing this system was ensuring proper encapsulation. It was crucial to restrict direct access to internal variables, such as grades in the Student class, to maintain the integrity of the data and follow the principles of encapsulation.  
  
  
In this implementation, an ArrayList is chosen as the data structure to store the grades for each student in the Student class. This choice allows for dynamic resizing of the list as grades are added, and easy traversal for GPA calculations. Additionally, ArrayList provides simplicity in managing a variable number of grades for each student.