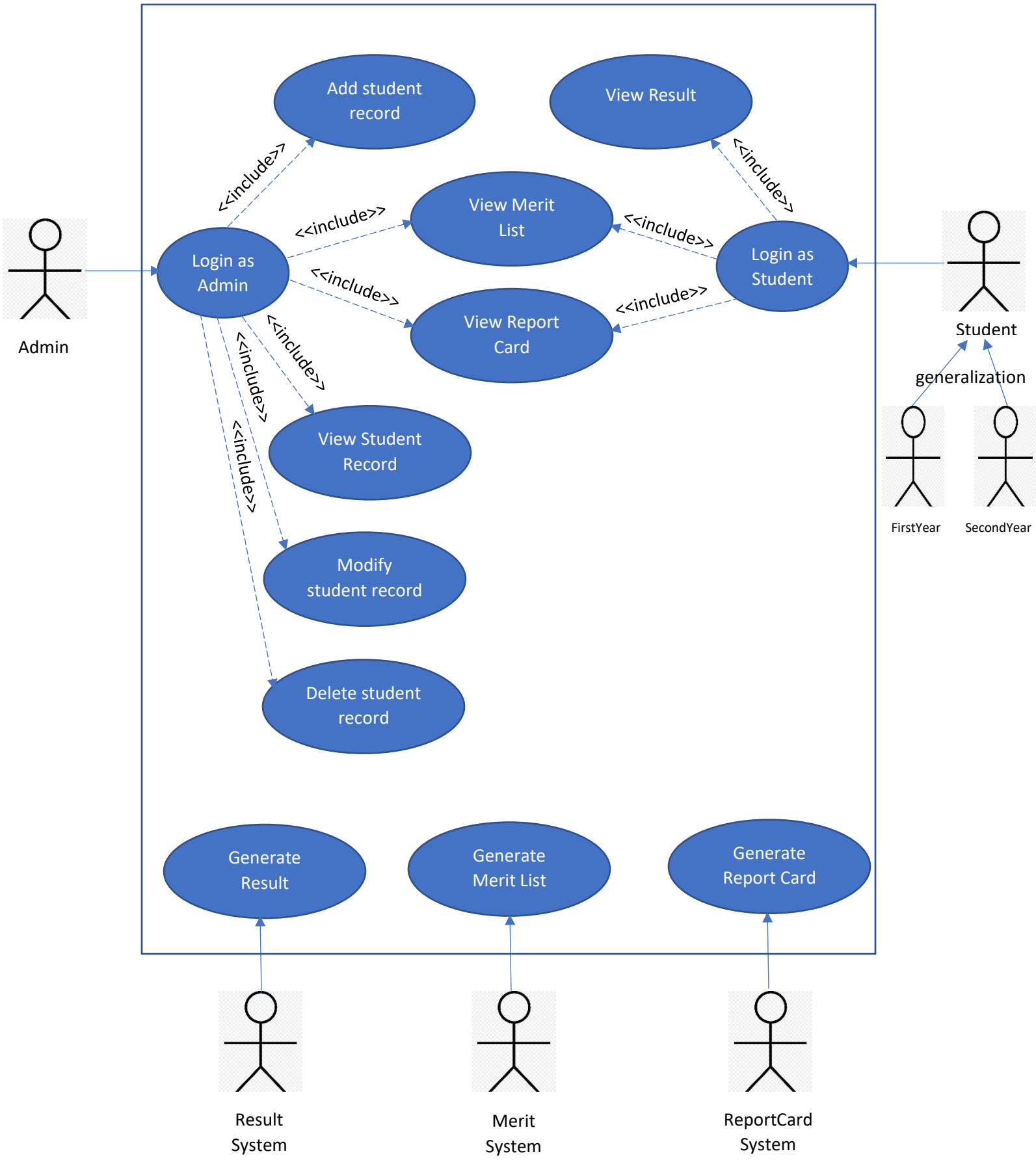
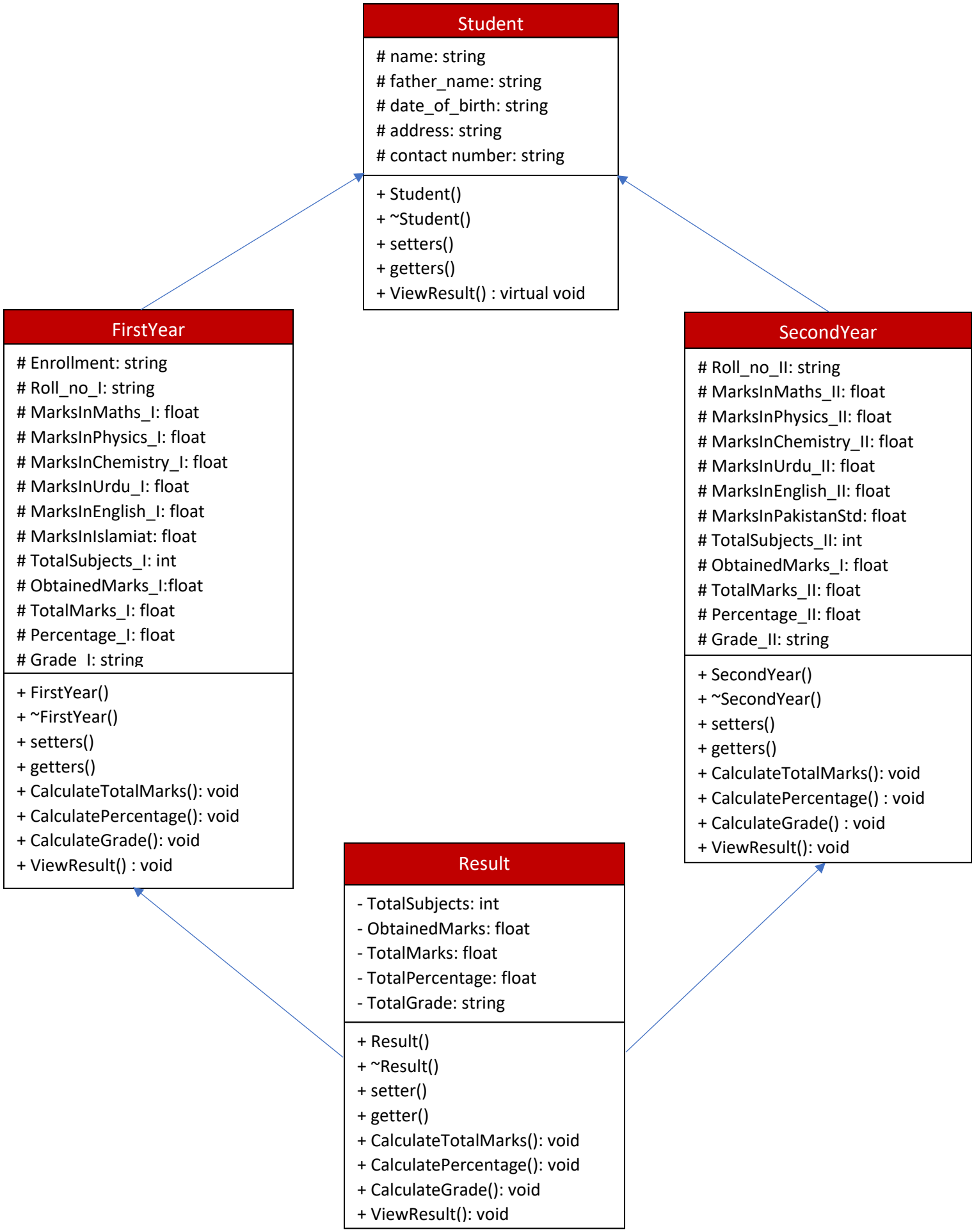
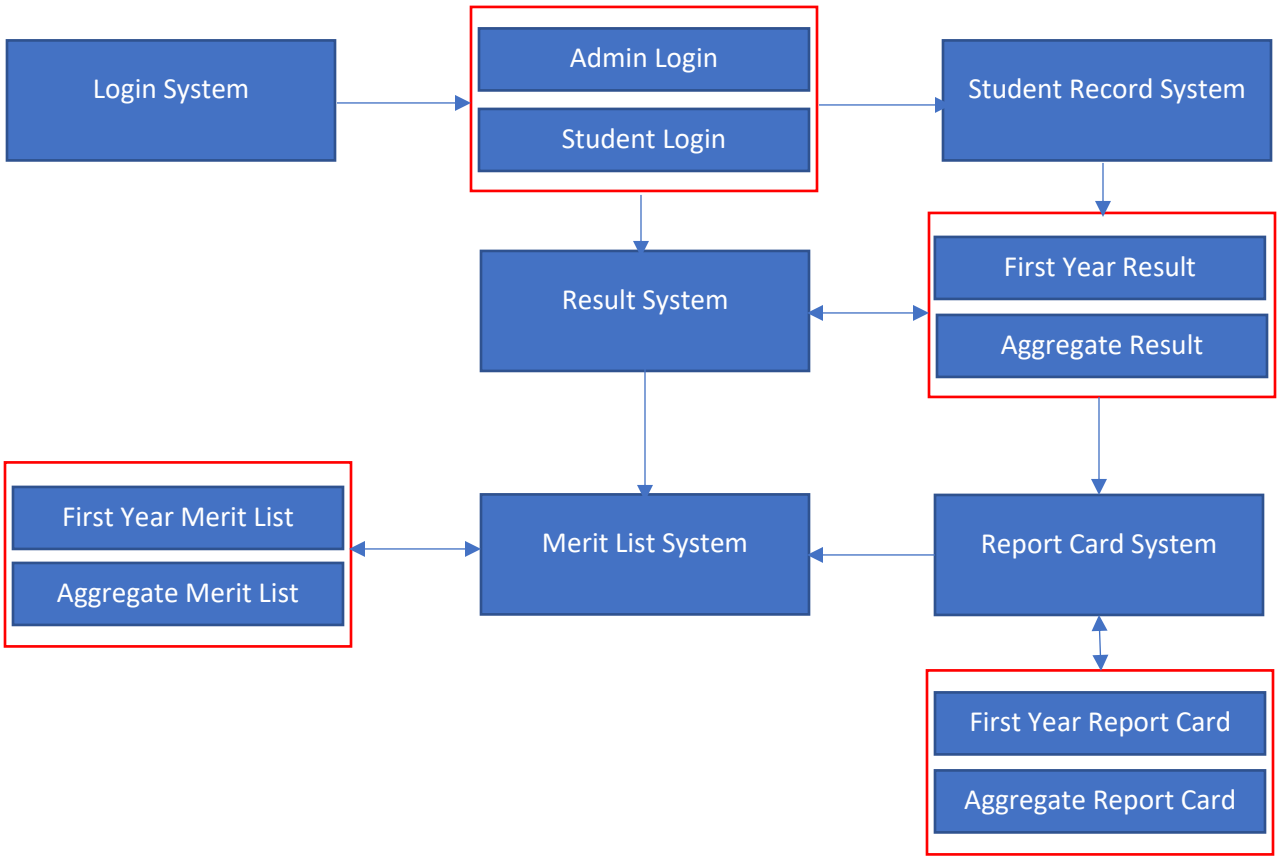
Student Report Card System USECASE



Student Report Card System Class Diagram


Student
name: string
father_name: string
date_of_birth: string
address: string
contact number: string
+ Student()
+ ~Student()
+ setters()
+ getters()
+ ViewResult() : virtual void
FirstYear
Enrollment: string
Roll_no_I: string
MarksInMaths_I: float
MarksInPhysics_I: float
MarksInChemistry_I: float
MarksInUrdu_I: float
MarksInEnglish_I: float
MarksInIslamiat: float
TotalSubjects_I: int
ObtainedMarks_I:float
TotalMarks_I: float
Percentage_I: float
Grade_I: string
+ FirstYear()
+ ~FirstYear()
+ setters()
+ getters()
+ CalculateTotalMarks(): void
+ CalculatePercentage(): void
+ CalculateGrade(): void
+ ViewResult() : void
SecondYear
Roll_no_II: string
MarksInMaths_II: float
MarksInPhysics_II: float
MarksInChemistry_II: float
MarksInUrdu_II: float
MarksInEnglish_II: float
MarksInPakistanStd: float
TotalSubjects_II: int
ObtainedMarks_I: float
TotalMarks_II: float
Percentage_II: float
Grade_II: string
+ SecondYear()
+ ~SecondYear()
+ setters()
+ getters()
+ CalculateTotalMarks(): void
+ CalculatePercentage() : void
+ CalculateGrade() : void
+ ViewResult(): void
Result
- TotalSubjects: int
- ObtainedMarks: float
- TotalMarks: float
- TotalPercentage: float
- TotalGrade: string
+ Result()
+ ~Result()
+ setter()
+ getter()
+ CalculateTotalMarks(): void
+ CalculatePercentage(): void
+ CalculateGrade(): void
+ ViewResult(): void

Student Report Card System Block Diagram



Student Report Card System Test Cases

Test case S.no	Feature title	Test Case Description	Test Data	Expected Result	Actual Result	Pass/Fail
1	Admin login	Check admin login with valid password	admin	Admin Login should be successful displaying admin portal.	Login successful, displayed admin portal.	Pass
2	Admin login	Check admin login with invalid password	123/ abc / student etc.	Should Display incorrect password message.	Displayed incorrect password message.	Pass
3	Student login	Check student login with valid enrollment number from EnrollmentPassword file	Inputting any enrollment number present in enrollment password file i.e. e1, e2 etc.	Student Login should be successful displaying student portal.	Login successful, displayed student portal.	Pass
4	Student Login	Check student login with invalid enrollment number (enrollment number not present in EnrollmentPassword file)	Inputting any enrollment number not present in file i.e. 123/ r1 / r2 etc.	Should display incorrect enrollment number message.	Displayed incorrect enrollment number message.	Pass
5	Add Student Record	While adding marks in student record, validate the input marks for 100 marks subjects	101 / 115 / 200 / -1 / -10	Should display input correct marks in range of (0-100) message.	Displayed input marks in range (0-100) message.	Pass
6	Add Student Record	While adding marks in student record, validate the input marks for 50 marks subjects	51 / 80 / 100 / -1 / -50 / -48	Should display input correct marks in range of (0-50) message.	Displayed input marks in range (0-50) message.	Pass
7	Show Student Record	Search for student record with valid enrollment number present in StudentDetails file and display record if present	Inputting any enrollment number present in file i.e. e1 / e2 etc.	Should display student record for enrollment provided.	Displayed student record.	Pass
8	Show Student Record	Search for student record with invalid enrollment number (enrollment number not present in StudentDetails file) and display record if present	Inputting any enrollment number not present in file i.e. 123 / r1 etc.	Should display message that no record found for such enrollment provided.	Displayed no record found message.	Pass
9	Modify Student Record	Search for student record with valid enrollment number present in StudentDetails file and if present ask for updation information.	Inputting any enrollment number present in file i.e. e1 / e2 / e6 etc.	Should display message that record found, display the record and ask for updation in it	Displayed the student record, asked the user to update anything from it.	Pass

10	Modify Student Record	Search for student record with invalid enrollment number (enrollment number not present in StudentDetails file) and if present ask for updation information.	Inputting any enrollment number not present in file i.e. 123 / r1 / r7 etc.	Should display message that no record found for such enrollment provided and hence cannot update.	Displayed no record found message.	Pass
11	Delete Student Record	Search for student record with valid enrollment number present in StudentDetails file and if present confirm from user to delete it or not.	Inputting any enrollment number present in file i.e. e1 / e2 / e5 etc.	Should display message that record found, display the record and confirm from user if user want to delete it or not.	Displayed the record, confirmed from user if user want to delete it or not.	Pass
12	Delete Student Record	Search for student record with invalid enrollment number (enrollment number not present in StudentDetails file) and if present confirm from user to delete it or not.	Inputting any enrollment number not present in file i.e. 456 / r5 etc.	Should display message that no record found for such enrollment provided and hence cannot delete.	Displayed the no record found message.	Pass
13	Generate/View Report Card	Search for student record with valid enrollment number present in StudentDetails file and if present generate/ view report card.	Inputting any enrollment number present in file i.e. e1 / e2 / e3 etc.	Should Generate and display the report card for enrollment provided.	Generated and displayed the report card for enrollment provided.	Pass
14	Generate/View Report Card	Search for student record with invalid enrollment number (enrollment number not present in StudentDetails file) and if present generate/ view report card.	Inputting any enrollment number not present in file i.e. 123 / r1 / r2 etc.	Should display message that no record found.	Displayed the no record found message.	Pass