**STUDENT RECORD MANAGEMENT SYSTEM**

**Pseudocode:**

**Admin Login and Menu Function:**

Admin has to login by providing the required credentials. Admin manages all the operations such as add, delete, modify, search and display the students record.

Declare admin\_login

Declare username[20], password[20]

Declare choice

Enter admin username

Enter admin password

Open file in read mode

//Compare Entered username with username in file and also Entered password with password(which is stored)in file

if(username(entered) == username(in file))

{

if(password(entered) == password(in file))

{

Print “Logged in Successfully”

//Admin has to view the menu

Select the choice

1. Add Students details
2. Delete Students details
3. Modify Students details
4. Search Students details
5. Display Students details

}

}

else

print "password is wrong or username is wrong"

admin\_login

**Add Record Function:**

Admin can add the students details such as student’s name, roll no, course, email id, contact no and address.

Declare add\_record function

Declare the ofstream outfile

open outfile in append and binary mode

if(outfile.fail())

print "File is not present"

Enter the student details as Name, Roll No, Email Id, Phone No, Age, Gender, Address, Stream, Subject Marks

total marks = (physics + chemistry + maths + biology + computers + electronics + english)

Output Total Marks

percentage = (Total Marks \* 100)/500

Output Percentage

Write the data to outfile.

outfile.write()

Close the file

outfile.close()

Print "The File is successfully saved"

**Delete Record Function:**

Admin can delete students record.

Declare delete\_record function

Declare the ifstream infile

Open infile in append and binary mode

if(!infile)

print "File is not present"

Enter the Roll No to delete the data

Open outfile in append and binary mode

Write the data to the outfile

while(!file.eof())

if(Roll\_No != Roll\_No)

write data to outfile

else

increment found

print "Successfully Delete Data"

write data to outfile

outfile.write()

if(found == 0)

print "Student Roll\_No not found"

Close the infile

infile.close()

Close the outfile

outfile.close()

remove the outfile text file and rename it

**Modify Record Function:**

Admin can modify students record.

Declare modify\_\_student\_record function

Declare the fstream file and file1

Open file in read mode

if(!file)

print "no data is present"

close the file.

else

Enter the Roll No to modify the data

Open file1 in write mode

Write the data to the file1

while(!file.eof())

if(RollNo != Roll\_No)

write data to file1

else

modify the details

increment found

if(found == 0)

print "Student Roll\_No not found to modify"

Close the file1

file1.close()

Close the file

file.close()

**Search Record Function:**

Admin can search students record by providing students roll no.

Declare search\_\_student\_record function

Declare the fstream file

Open the file in read mode

if(!file)

print "no data is present"

else

Enter the Roll No to search the data

while(!file.eof())

if(RollNo == Roll\_No)

print the student data from file

increment found

if(found == 0)

print "Student Roll\_No not found"

Close the file

file.close()

**Display Record Function:**

Admin can view all the students record.

Declare display\_students\_details

Open file in read mode

if(file == empty)

print"No Data is present.."

else

open file

print data from file

Close file

**Phone Number Validation Function:**

The phone number length should be 10. If phone number length is 10, it should return True else false.

Declare int phone\_number\_validation(int phone\_number)

if(phone\_number.length() == 10)

return true

else

return false

**Roll No Validation Function:**

The Roll No length should be 6. If Roll No length is 6, it should return True else false.

Declare int roll\_no\_validation(int roll\_no)

if(roll\_no.length() == 6)

return true

else

return false

**Email Id Validation Function:**

The Email Id length should be 30 and it should contain @ and . symbol. If it is present, it is true else false.

Declare char email\_id\_validation(char email)

Declare i

Declare and initialise int length

length = email.length()

Loop for i=0 and i<length and i++

if(length <= 30)

if(email[i] == '@' && email[i] == '.')

return true

else

return false

**Course Validation Function:**

If the Course is PCMB or PCMC or PCME, it should return true else false.

Declare char course\_validation(char course)

if(course == "PCMB" || course == "PCMC" || course == "PCME")

return true

else

return false

**Gender Validation Function:**

If the gender is F / f / M / m, it should return true else false.

Declare char gender\_validation(char gender)

if(gender == 'F' || gender == 'f' || gender == 'M' || gender == 'm')

return true

else

return false

**Age Validation Function:**

If the age is between 15 to 18, it should return true else false.

if(age >= 15 && age <= 18)

return true

else

return false