

Software Engineering Department Sir Syed University of Engineering & Technology

Project Proposal of Object-Oriented Programming

Title:

School Management System

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Section: A

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Project Objective:

This Project is made using OOP and consist of 3 interface classes which is inherited by a java class which is implemented by the main class. First interface class is the Student class, 2nd is the teacher class and the 3rd is the fees submit class. All these three interface classes are inherited by the java class named as "School" which is implemented by An Abstract or main class.

Project Feature:

Inheritance, Abstraction, Interface, Encapsulation, and polymorphism

Tools used for Project:

Java Language and NetBeans

Reference link:

https://youtu.be/4Z1NliZEn58

Code:

```
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*/
package schoolmanagementsystem;
import java.util.Scanner;
* @author Abdul Moiz Chishti
public class SchoolManagementSystem {
  public static void main (String args[]){
    String name,cl;
    Scanner sc = new Scanner (System.in);
    School obj =new School();
    int ch=0;
    while(ch <= 3){
      System.out.println("Press The following according to your choice: \n1: Student Module
\n2:Teacher Module \n3:Fees Submission \n4:Exit");
      System.out.print("\nEnter Your Choice : ");
      ch=sc.nextInt();
```

```
if(ch==1){
        System.out.println("\n\n\t\t ----->STUDENT MODULE<----\n\n");
        System.out.print("Enter Student Name : ");
        String studentName[]=new String[10];
        String rollNum[]= {"2021-1A-001","2021-1A-002"};
        for(int i=0; i< studentName.length; i++){
          studentName[i]= sc.nextLine();
          studentName[i]= sc.nextLine();
          break;
        }
        System.out.println("The roll number of " + studentName[0]+ " = "+rollNum[0]);
        System.out.print("Enter Father Name:");
        String fname=sc.nextLine();
        System.out.print("Enter Student's Gender : ");
        String gender=sc.nextLine();
        System.out.print("Enter Student's age: ");
        String age=sc.nextLine();
        System.out.print("Enter Student's address: ");
        String add=sc.nextLine();
//
          add=sc.nextLine();
        System.out.print("Enter Student CNIC/B-Form number: ");
        String nic=sc.nextLine();
        System.out.print("Enter Contact Number: ");
        String con=sc.nextLine();
        System.out.print("Enter Father's profession:");
        String fo=sc.nextLine();
        System.out.print("Enter Student Previuos Class: ");
        String pc=sc.nextLine();
        System.out.print("Enter Student Prevoius Percentage : ");
        String pp=sc.nextLine();
        System.out.print("Enter the name of Previous School: ");
```

```
String ps=sc.nextLine();
//
         ps=sc.nextLine();
       obj.student(fname, gender, age, add, con, nic, fo, pc, pp, ps);
       obj.student();
     else if(ch==2){
       System.out.println("\n\n\t\t -----\n\n");
       System.out.print("Enter Teacher Name : ");
       String tname=sc.nextLine();
       sc.nextLine();
       System.out.print("Enter Teacher Experience: ");
       String texp=sc.nextLine();
       System.out.print("Enter Teacher's preferred class: ");
       String prcl=sc.nextLine();
       System.out.print("Enter Expected Salary : ");
       String sal=sc.nextLine();
       obj.teacher(tname, texp, prcl, sal);
       obj.teacher();
     else if(ch==3){
       System.out.println("\n\n\t\t ------\n\n");
       System.out.println("Choose Method Of Payment: \n1:Cash \n2:Online Payment");
       System.out.print("\nEnter your Choice : ");
       int choice=sc.nextInt();
       switch(choice){
         case 1:
           System.out.println("\n\n\t\t -----\n\n");
           System.out.print("Enter student Name: ");
           name=sc.nextLine();
```

```
name=sc.nextLine();
           System.out.print("Enter Student Class:");
            cl=sc.nextLine();
           obj.feesubmit(name,cl);
           obj.feesubmit();
         break;
         case 2:
           System.out.println("\n\n\t\t -----\n\n");
           System.out.print("Enter student Name: ");
           name=sc.nextLine();name=sc.nextLine();
           System.out.print("Enter Student Class:");
           cl=sc.nextLine();
           obj.onlinepayment();
         break;
         default:
           System.out.println("none");
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package schoolmanagementsystem;
import java.util.Scanner;
* @author Abdul Moiz Chishti
public class School implements Student,Teacher,Feesubmit {
Scanner sc =new Scanner (System.in);
```

```
String fname,gender,nic,fo,ps,add,con,pc,age,pp;
    public void student( String fname, String gender, String age, String add, String con, String nic, String
fo,String pc,String ps){
      this.fname=fname;
      this.gender=gender;
      this.age=age;
      this.add=add;
      this.con=con;
      this.nic=nic;
      this.fo=fo;
      this.pc=pc;
      this.pp=pp;
      this.ps=ps;
   }
    @Override
    public void student(){
System.out.println("Student's Father name : "+fname);
      System.out.println("Student's Gender : "+gender);
      System.out.println("Student's Age : "+age);
      System.out.println("Student's Address : "+add);
      System.out.println("NIC/B-form Number : "+nic);
      System.out.println("Contact Number : "+con);
      System.out.println("Father occupation : "+fo);
      System.out.println("Student's previous Class : "+pc);
      System.out.println("Student's previous % : "+pp);
      System.out.println("Student's Previous School: "+ps);
      System.out.println("\n**********
 }
    String tname, sal, texp, prcl;
    public void teacher(String tname,String texp,String prcl,String sal){
      this.tname=tname;
```

```
this.texp=texp;
     this.prcl=prcl;
     this.sal=sal;
   }
    @Override
   public void teacher(){
System.out.println("Teacher Name : "+tname);
     System.out.println("Teacher Experience: "+texp);
     System.out.println("Teacher Preffered Class: "+prcl);
     System.out.println("Salary: "+sal);
     System.out.println("\n*****************************\n");
 }
 String name, cl;
    public void feesubmit(String name,String cl){
     this.name=name;
     this.cl=cl;
  @Override
  public void feesubmit(){
   System.out.println("\n*****************************\n");
   System.out.println("Your Reciept has Been generated which u Have to Deposit in Meezan
Bank.\n\n");
   System.out.println("Student name "+name+ "\n class= "+cl);
   System.out.println("\nTution Fees = 2340 Rs\n");
   System.out.println("Library Fees = 70 Rs\n");
   System.out.println("Transport Fees = 1600 Rs\n");
   System.out.println("Total Amount = 4010 /- Rs");
   System.out.println("\n*************
 }
private int bankaccount;
public void onlinepayment(){
 System.out.println("Enter Bank Account");
 bankaccount=sc.nextInt();
 int b = bankaccount%1000;
 System.out.println("****************************);
 System.out.println("\nRs~4010/-~Has~been~Deducted~from~account~No. = "+"*****"+b+"\n");
 System.out.println("**********************************):
```

```
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*/
package schoolmanagementsystem;
* @author Abdul Moiz Chishti
public interface Feesubmit{
  public void feesubmit();
}
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package schoolmanagementsystem;
* @author Abdul Moiz Chishti
public interface Student {
  public void student();
* To change this license header, choose License Headers in Project Properties.
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* and open the template in the editor.
package schoolmanagementsystem;
```

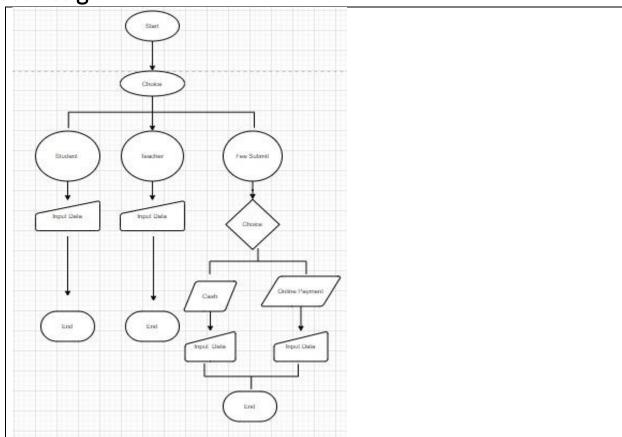
```
*

* @author Abdul Moiz Chishti

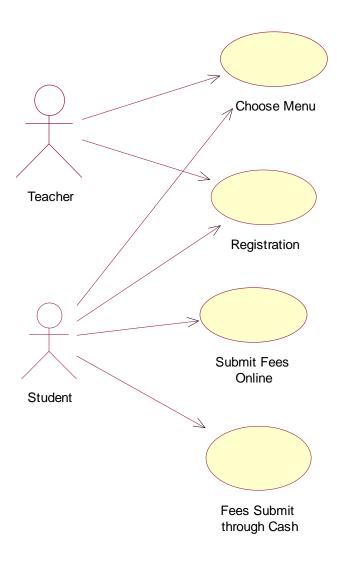
*/
public interface Teacher {

public void teacher();
}
```

Project Design:



Use case Diagram:



Various Screenshot:

```
Press The following according to your choice:
1: Student Module
2:Teacher Module
3: Fees Submission
4:Exit
Enter Your Choice : 1
                ---->STUDENT MODULE<----
Enter Student Name : Abdul Moiz Chishti
The roll number of Abdul Moiz Chishti = 2021-1A-001
Enter Father Name : Haroon Chishti
Enter Student's Gender : Male
Enter Student's age : 18
Enter Student's address : Karachi
Enter Student CNIC/B-Form number : 42101-********
Enter Contact Number : 0316-*****
Enter Father's profession : Engineer
Enter Student Previuos Class : 12
Enter Student Prevoius Percentage : 76%
Enter the name of Previous School : Bahria Foundation College
**********
Student's Father name : Haroon Chishti
Student's Gender : Male
Student's Age : 18
Student's Address : Karachi
NIC/B-form Number : 42101-********
Contact Number : 0316-*****
Father occupation : Engineer
Student's previous Class: 12
Student's previous % : 76%
Student's Previous School: Bahria Foundation College
```

```
---->TEACHER MODULE<-----
Enter Teacher Name : XYZ
Enter Teacher Experience : 3
Enter Teacher's preferred class : 14
Enter Expected Salary: 80,000
*************
Teacher Name :
Teacher Experience : 3
Teacher Preffered Class: 14
Salary: 80,000
**********
             ---->FEES SUBMIT MODULE<-----
Choose Method Of Payment:
1:Cash
2:Online Payment
Enter your Choice : 2
             ---->ONLINE PAYMENT<-----
Enter student Name: Abdul Moiz chishti
Enter Student Class:12
Enter Bank Account
123456789
********
Rs 4010/- Has been Deducted from account No. = *****789
**************
```

Project Implementation/ Marketing:

We can implement this project in Different Schools and this project can be marketed in various Schools for their management system.