**UNIVERSITY MANAGEMENT SYSTEM**

**(FACULTY PORTAL)**

**Submitted to:**

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ITM by Systems

**Problem Statement:**

University management system (UMS) is a software that deals with the maintenance of university, faculty, student information within the university. UMS is an automation system, used to store the faculty, student, courses, and information of an institute. Starting from registration of a new student in the university, it maintains all the details regarding the attendance and marks of the students. The project deals with retrieval of information through an INTRANET based campus wide portal. It collects related information from all the departments of an organization and maintains files, which are used to generate reports in various forms to measure individual and overall performance of the students.

In this project, we are only targeting the development of faculty section of university management system (ums) with the following scenario.

**Functionalities:**

* Login Screen
* Dashboard which displays the following

1. Course Material
2. Course Management
3. Faculty Profile
4. Student Attendance
5. Faculty Attendance
6. Assessments
7. Announcement
8. Faculty Timetable
9. Faculty Rating
10. Faculty Self Evaluation
11. Logout

* Functionalities to be implemented

1. Course Material.
2. Course Management.
3. Faculty Profile.

**Detail of implemented functionalities:**

**Faculty’s Profile:**

1. Faculty Details.
2. Experience.
3. Publications.
4. Qualification.

**Course Material:**

1. Course Packs.
2. Books.
3. Handouts etc.

**Course Management:**

1. Class activities.
2. Web Resources.
3. Assign grade points.

For developing the solution, we used the following.

* 1. Structures.
  2. If-else conditions.
  3. Loops.
  4. User-defined functions.
  5. Relational and comparison operators.
  6. Logical operators.
  7. Arrays.

University Management System (Faculty section) is created in C++ programming language.

**PSEUDO CODE:**

//University Management System (Faculty Portal)

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//-------------------------------------------------------------------------------//

BEGIN

Header Files

STRUCT courseMaterial //structure FOR Course Material

{

VAR handouts,books,guides

};

STRUCT facultyProfile //structure FOR Faculty Profile

{

VAR fullName,cnic,address,quaIFication,mobileNumber,emailAddress,experience,publications;

};

STRUCT courseManagement //structure FOR Course Management

{

VAR classActivities[32],webResources[10],numberOfAssignments,weightageOfAssignments,numberOfQuizzes,weightageOfQuizzes,numberOfProjects,weightageOfProjects,numberOfMidterm,weightageOfMidterm,final,weightageOfFinal; //Members

};

Function decorator(VAR a) // Defining decorator function

{

VAR j=a.length();

OUTPUT << "\n\n";

FOR (VAR i=1;i<=j;i++)

{

putch('#');

}

OUTPUT << endl <<endl << a ;

VAR k=a.length();

OUTPUT << "\n\n";

FOR (VAR i=1;i<=k;i++)

{

putch('#');

}

OUTPUT << endl;

}

main()

{

VAR n=0,i=0,choice,k=3,l=3,m=3,o=3; //Using simple variables FOR miscellanious calculations

VAR defaultUserName="Engr.Muhammad Mansoor",defaultPassword ="abcd 1234"; //Dummy User Names and Passwords

VAR userName;

VAR password[25],a;

courseMaterial o1; // objects FOR Course Material Java Programming

courseMaterial o2; // objects FOR course material Discrete STRUCTures;

courseMaterial o3; // objects FOR course material Database

//Data Initialization;

SET o1.books="How to Program in JAVA";

SET o1.handouts="Understanding JAVA Programming";

SET o1.guides="Helping Guide";

SET o2.books="What are Discrete STRUCTures";

SET o2.handouts="Lecture Handouts";

SET o2.guides="Helping Guide";

SET o3.books="The world of databases";

SET o3.handouts="Lecture handouts";

SET o3.guides="Helping Guide";

//FOR faculty profile

facultyProfile o4;

//Data Initialization

SET o4.fullName="Muhammad Mansoor";

SET o4.cnic="12345-1234567-7";

SET o4.address="ABC";

SET o4.quaIFication="BS Electrical Engineering";

SET o4.mobileNumber="0305-9959950";

SET o4.emailAddress="muhammadmansoor417@gmail.com";

SET o4.experience="Content Writer (Freelancer) (1 Feb 2021-1 June 2021)\nVARernee at SUI Gas (4 June 2021-16 July 2021)\nRobotics and ICT Faculty at STEM Schools(26 July 2021-1 November 2021)\nNetwork Engineer at SuperNet(15 Feb 2022-21 June 2022)\nField Engineer at GIVE Solar Solutions (27 June 2022-20 July 2022)";

SET o4.publications="Fuzzy Logic 5 September,2021\nNetwork Security 5 September,2020\nFacial Recognition 5 September,2019";

//FOR course Management

courseManagement o5;

//Data Initialization

SET o5.classActivities[0]="Viva (20 September 2022)";

SET o5.classActivities[1]="Quiz Discussion (15 September 2022)";

SET o5.classActivities[2]="Assignment solution discussion (10 September 2022)";

SET o5.classActivities[3]="Project Discussion (5 September 2022";

SET o5.webResources[0]="Google";

SET o5.webResources[1]="Wikipedia";

SET o5.webResources[2]="MIT Open Courseware";

SET o5.numberOfAssignments=4;

SET o5.weightageOfAssignments=10;

SET o5.numberOfQuizzes=4;

SET o5.weightageOfQuizzes=10;

SET o5.numberOfProjects=2;

SET o5.weightageOfProjects=10;

SET o5.numberOfMidterm=1;

SET o5.weightageOfMidterm=20;

SET o5.final=1;

SET o5.weightageOfFinal=50;

courseManagement o6;

SET o6.classActivities[0]="Viva (20 September 2022)";

SET o6.classActivities[1]="Quiz Discussion (15 September 2022)";

SET o6.classActivities[2]="Assignment solution discussion (10 September 2022)";

SET o6.classActivities[3]="Project Discussion (5 September 2022";

SET o6.webResources[0]="Google";

SET o6.webResources[1]="Wikipedia";

SET o6.webResources[2]="MIT Open Courseware";

SET o6.numberOfAssignments=4;

SET o6.weightageOfAssignments=10;

SET o6.numberOfQuizzes=4;

SET o6.weightageOfQuizzes=10;

SET o6.numberOfProjects=2;

SET o6.weightageOfProjects=10;

SET o6.numberOfMidterm=1;

SET o6.weightageOfMidterm=20;

SET o6.final=1;

SET o6.weightageOfFinal=50;

//Starting Decorators

decorator("SYSTEMS-ITM AIE FACULTY PORTAL");

//Asking FOR credentials

OUTPUT << "\n\nKindly enter your credentials";

DO

{

OUTPUT << "\n\nUser Name: ";

getline(INPUT>>ws,userName);

IF (defaultUserName!=userName)

{

OUTPUT << "\nInvalid Username, please enter again";

}

ELSE n=1;

}WHILE(n!=1);

n=0;

DO

{

OUTPUT << "\nPassword: ";

FOR(i=0;i<25;)

{

a=getch();//stores VAR typed in a

IF((a>='a'&&a<='z')||(a>='A'&&a<='Z')||(a>='0'&&a<='9')||a=' ') //check IF a is numeric or alphabet

{

password[i]=a; //stores a in password

i++;

OUTPUT<<"\*"; //displys asterik \*

}

IF(a='\b'&&i>=1) //IF user typed backspace

//i should be greater than 1.

{

OUTPUT<<"\b \b"; //rub the VARacter behind the cursor.

i--;

}

IF(a='\r') //IF enter is pressed

{

password[i]='\0'; //null means end of VAR.

BREAK; //BREAKs the loop

}

}

IF (defaultPassword!=password) //Login verIFication

{

OUTPUT << "\nInvalid Password, please enter again";

}

ELSE n=1;

}WHILE(n!=1);

OUTPUT << "\n\nPlease wait,loging in ";

FOR(n=0;n<10;n++)

{

putch('-');

sleep(1);

}

system("CLS");

WHILE(n!=999)

{

decorator("SYSTEMS-ITM AIE FACULTY PORTAL");

decorator("Welcome Mansoor");

//Main Dashboard

OUTPUT << endl <<"\n\nPlease select one of the options\n";

OUTPUT << endl << "1: Course Material";

OUTPUT << endl << "2: Course Management";

OUTPUT << endl << "3: Faculty Profile";

OUTPUT << endl << "4: Assessments";

OUTPUT << endl << "5: Announcement ";

OUTPUT << endl << "6: Student Attendence";

OUTPUT << endl << "7: Faculty Attendence";

OUTPUT << endl << "8: Faculty Timetable";

OUTPUT << endl << "9: Faculty Self-Evaluation";

OUTPUT << endl << "10: Faculty Rating";

OUTPUT << endl << "11: Logout ";

INPUT >> choice;

SWITCH(choice)

{

//Course Material Starts

CASE 1:

system("CLS");

DO

{

decorator("SYSTEMS-ITM AIE FACULTY PORTAL");

decorator("Welcome Mansoor");

decorator("Course Material");

OUTPUT << "\n\nFaculty Name: Engr. Muhammad Mansoor";

OUTPUT << "\n\n";

OUTPUT << "\n\nPlease select a course along with section\n\n1:VARroduction to Java Programming-Section A\n2:VARroduction to Java Programming-Section B\n\n3:Discrete STRUCTures-Section A\n4:Discrete STRUCTures-Section B\n\n5:Databases-Section A\n6:Databases-Section B\n\n7:Close";

INPUT >> choice;

SWITCH (choice)

{

//Java Programming-Section A

CASE 1:

system("CLS");

decorator("SYSTEMS-ITM AIE FACULTY PORTAL");

decorator("Welcome Mansoor");

decorator("Course Material");

OUTPUT << "\n\nFaculty Name: Engr. Muhammad Mansoor";

OUTPUT << "\n\nVARro to Java Programming"; //Displaying the available files FOR each Subject

OUTPUT << "\n\n";OUTPUT << "\nAvailable Files\n";

OUTPUT << "\n1: Books --- \n\n" << o1.books;

OUTPUT << "\n\n2: Handouts --- \n\n" << o1.handouts;

OUTPUT << "\n\n3: Guides --- \n\n" << o1.guides;

//Asking the user about adding some content;

OUTPUT << "\n\n1: To add some material enter 1\n2:Enter 2 to go back";

INPUT >> choice;

IF (choice=1)

{

OUTPUT<< "1: Books\n2: Handouts\n3: Guide ";

INPUT >> choice;

IF (choice=1)

{

OUTPUT << "\nEnter Book Name ";

VAR newBook;

getline(INPUT>>ws,newBook);

o1.books=o1.books+"\n"+newBook;

OUTPUT << "\nBook Added";

}

ELSE IF (choice=2)

{

OUTPUT << "\nEnter Handout Name";

VAR newHandout;

getline(INPUT>>ws,newHandout);

o1.handouts=o1.handouts+"\n"+newHandout;

OUTPUT << "\nHandout Added";

}

ELSE IF (choice=3)

{

OUTPUT << "\nEnter Guide Name";

VAR newGuide;

getline(INPUT>>ws,newGuide);

o1.guides=o1.guides+"\n"+newGuide;

OUTPUT << "\nGuide Added";

}

}

ELSE system("CLS");

BREAK;

//Java Programming-Section B

CASE 2:

system("CLS");

decorator("SYSTEMS-ITM AIE FACULTY PORTAL");

decorator("Welcome Mansoor");

decorator("Course Material");

OUTPUT << "\n\nFaculty Name: Engr. Muhammad Mansoor";

OUTPUT << "\n\nVARro to Java Programming";

OUTPUT << "\nAvailable Files\n";

OUTPUT << "\n1: Books --- " << o1.books;

OUTPUT << "\n2: Handouts --- " << o1.handouts;

OUTPUT << "\n3: Guides --- " << o1.guides;

OUTPUT << "\n\n1: To add some material enter 1\n2:Enter 2 to go back";

INPUT >> choice;

IF (choice=1)

{

OUTPUT<< "1: Books\2: Handouts\n3: Guide";

INPUT >> choice;

IF (choice=1)

{

OUTPUT << "\nEnter Book Name";

VAR newBook;

getline(INPUT>>ws,newBook);

o1.books=o1.books+"\n"+newBook;

OUTPUT << "\nBook Added";

}

ELSE IF (choice=2)

{

OUTPUT << "\nEnter Handout Name";

VAR newHandout;

getline(INPUT>>ws,newHandout);

o1.handouts=o1.handouts+"\n"+newHandout;

OUTPUT << "\nHandout Added";

}

ELSE IF (choice=3)

{

OUTPUT << "\nEnter Guide Name";

VAR newGuide;

getline(INPUT>>ws,newGuide);

o1.guides=o1.guides+"\n"+newGuide;

OUTPUT << "\nGuide Added";

}

}

ELSE system("CLS");

BREAK;

//Discrete STRUCTures-Section A

CASE 3:

OUTPUT << "\nAvailable Files\n";

OUTPUT << "\n1: Books --- " << o2.books;

OUTPUT << "\n2: Handouts --- " << o2.handouts;

OUTPUT << "\n3: Guides --- " << o2.guides;

OUTPUT << "\n\n1: To add some material enter 1\n2:Enter 2 to go back";

INPUT >> choice;

IF (choice=1)

{

OUTPUT<< "1: Books\2: Handouts\n3: Guide";

INPUT >> choice;

IF (choice=1)

{

OUTPUT << "\nEnter Book Name";

VAR newBook;

getline(INPUT>>ws,newBook);

o2.books=o2.books+"\n"+newBook;

OUTPUT << "\nBook Added";

}

ELSE IF (choice=2)

{

OUTPUT << "\nEnter Handout Name";

VAR newHandout;

getline(INPUT>>ws,newHandout);

o2.handouts=o2.handouts+"\n"+newHandout;

OUTPUT << "\nHandout Added";

}

ELSE IF (choice=3)

{

OUTPUT << "\nEnter Guide Name";

VAR newGuide;

getline(INPUT>>ws,newGuide);

o2.guides=o2.guides+"\n"+newGuide;

OUTPUT << "\nGuide Added";

}

}

ELSE system("CLS");

BREAK;

//Discrete STRUCTures-Section B

CASE 4:

OUTPUT << "\nAvailable Files\n";

OUTPUT << "\n1: Books --- " << o2.books;

OUTPUT << "\n2: Handouts --- " << o2.handouts;

OUTPUT << "\n3: Guides --- " << o2.guides;

OUTPUT << "\n\n1: To add some material enter 1\n2:Enter 2 to go back";

INPUT >> choice;

IF (choice=1)

{

OUTPUT<< "1: Books\2: Handouts\n3: Guide";

INPUT >> choice;

IF (choice=1)

{

OUTPUT << "\nEnter Book Name";

VAR newBook;

getline(INPUT>>ws,newBook);

o2.books=o2.books+"\n"+newBook;

OUTPUT << "\nBook Added";

}

ELSE IF (choice=2)

{

OUTPUT << "\nEnter Handout Name";

VAR newHandout;

getline(INPUT>>ws,newHandout);

o2.handouts=o2.handouts+"\n"+newHandout;

OUTPUT << "\nHandout Added";

}

ELSE IF (choice=3)

{

OUTPUT << "\nEnter Guide Name";

VAR newGuide;

getline(INPUT>>ws,newGuide);

o2.guides=o2.guides+"\n"+newGuide;

OUTPUT << "\nGuide Added";

}

}

ELSE system("CLS");

BREAK;

//Database-Section A

CASE 5:

OUTPUT << "\nAvailable Files\n";

OUTPUT << "\n1: Books --- " << o3.books;

OUTPUT << "\n2: Handouts --- " << o3.handouts;

OUTPUT << "\n3: Guides --- " << o3.guides;

OUTPUT << "\n\n1: To add some material enter 1\n2:Enter 2 to go back";

INPUT >> choice;

IF (choice=1)

{

OUTPUT<< "1: Books\n2: Handouts\n3: Guide";

INPUT >> choice;

IF (choice=1)

{

OUTPUT << "\nEnter Book Name";

VAR newBook;

getline(INPUT>>ws,newBook);

o3.books=o3.books+"\n"+newBook;

OUTPUT << "\nBook Added";

}

ELSE IF (choice=2)

{

OUTPUT << "\nEnter Handout Name";

VAR newHandout;

getline(INPUT>>ws,newHandout);

o3.handouts=o3.handouts+"\n"+newHandout;

OUTPUT << "\nHandout Added";

}

ELSE IF (choice=3)

{

OUTPUT << "\nEnter Guide Name";

VAR newGuide;

getline(INPUT>>ws,newGuide);

o3.guides=o3.guides+"\n"+newGuide;

OUTPUT << "\nGuide Added";

}

}

ELSE system("CLS");

BREAK;

//Database-Section B

CASE 6:

OUTPUT << "\nAvailable Files\n";

OUTPUT << "\n1: Books --- " << o3.books;

OUTPUT << "\n2: Handouts --- " << o3.handouts;

OUTPUT << "\n3: Guides --- " << o3.guides;

OUTPUT << "\n\n1: To add some material enter 1\n2:Enter 2 to go back";

INPUT >> choice;

IF (choice=1)

{

OUTPUT<< "1: Books\2\n: Handouts\n3: Guide";

INPUT >> choice;

IF (choice=1)

{

OUTPUT << "\nEnter Book Name";

VAR newBook;

getline(INPUT>>ws,newBook);

o3.books=o3.books+"\n"+newBook;

OUTPUT << "\nBook Added";

}

ELSE IF (choice=2)

{

OUTPUT << "\nEnter Handout Name";

VAR newHandout;

getline(INPUT>>ws,newHandout);

o3.handouts=o3.handouts+"\n"+newHandout;

OUTPUT << "\nHandout Added";

}

ELSE IF (choice=3)

{

OUTPUT << "\nEnter Guide Name";

VAR newGuide;

getline(INPUT>>ws,newGuide);

o3.guides=o3.guides+"\n"+newGuide;

OUTPUT << "\nGuide Added";

}

}

ELSE system("CLS");

BREAK;

//Close

CASE 7:

system("CLS");

n=786;

BREAK;

default:

OUTPUT <<"Invalid Selection";

}

}WHILE(n!=786);

BREAK;

//Course Material Ends

//Course Management Starts

CASE 2:

do

{

system("CLS");

decorator("SYSTEMS-ITM AIE FACULTY PORTAL");

decorator("Welcome Mansoor");

decorator("Course Management");

OUTPUT << "\nEnter\n1: Undergraduate\n2: Graduate\n3: Go to main menu";

INPUT>>choice;

SWITCH(choice)

{

CASE 1:

decorator ("Undergraduate");

decorator("Class Activities");

//Displaying the class activities section

FOR(VAR i=0;i<k;i++)

{

OUTPUT<<endl << i+1 <<" "<< o5.classActivities[i];

}

OUTPUT << endl << endl;

//Displaying the web resources section

decorator("Web Resources");

FOR(VAR i=0;i<l;i++)

{

OUTPUT<<endl << i+1 <<" "<< o5.webResources[i];

}

OUTPUT <<endl<<endl;

//Displaying the grade poVARs section

decorator("Assign Grade PoVARs");

OUTPUT << "\nNumber Of Assignments = " << o5.numberOfAssignments;

OUTPUT << "\nWeightage of Assignments = " << o5.weightageOfAssignments;

OUTPUT << "\nNumber of Quizzes = " << o5.numberOfQuizzes;

OUTPUT << "\nWeightage of Quizzes = " <<o5.weightageOfQuizzes;

OUTPUT << "\nNumber of Projects = " << o5.numberOfProjects;

OUTPUT << "\nWeightage of Projects = " << o5.weightageOfProjects;

OUTPUT << "\nNumber of Midterm = " << o5.numberOfMidterm;

OUTPUT << "\nWeightage of Midterm = " << o5.weightageOfMidterm;

OUTPUT << "\nFinal = " << o5.final;

OUTPUT << "\nWeightage of Final = " << o5.weightageOfFinal;

//asking the user about making some changes

OUTPUT << "\n\nFOR making changes enter 1 or enter any number to go back";

INPUT >>choice;

IF (choice!=1)

{

system("CLS");

n=555;

}

ELSE{

OUTPUT <<"\nEnter\n1: Class Activities\n2: Web Resources\n3: Class Assessments ";

INPUT>> choice;

IF (choice = 1)

{

k++;

OUTPUT << "Enter new class activity ";

getline(INPUT>>ws,o5.classActivities[k-1]);

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF (choice = 2)

{

l++;

OUTPUT << "Enter new web resource ";

getline(INPUT>>ws,o5.webResources[l-1]);

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF (choice =3)

{

OUTPUT << "Select the value to change\n1: Number of Assignments\n2: Weightage of Assignments\n3: Number of Quizzes\n4: Weightage of Quizzes\n5: Number of Mid-Terms\n6: Weightage of Mid-Terms\7:Number of Projects\n8: Weightage of Projects\n9: Weightage of Final ";

INPUT >> choice;

IF(choice = 1)

{

OUTPUT << "\nEnter the number of Assignments ";

INPUT >> o5.numberOfAssignments;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 2)

{

OUTPUT << "\nEnter the weightage of Assignments ";

INPUT >> o5.weightageOfAssignments;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 3)

{

OUTPUT << "\nEnter the number of Quizzes ";

INPUT >> o5.numberOfQuizzes;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 4)

{

OUTPUT << "\nEnter the number of Assignments ";

INPUT >> o5.weightageOfQuizzes;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 5)

{

OUTPUT << "\nEnter the number of Mid-Terms ";

INPUT >> o5.numberOfMidterm;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 6)

{

OUTPUT << "\nEnter the weightage of Mid-Terms ";

INPUT >> o5.weightageOfMidterm;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 7)

{

OUTPUT << "\nEnter the number of Projects ";

INPUT >> o5.numberOfProjects;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 8)

{

OUTPUT << "\nEnter the weightage of Projects ";

INPUT >> o5.weightageOfProjects;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 9)

{

OUTPUT << "\nEnter the weightage of Final ";

INPUT >> o5.weightageOfFinal;

OUTPUT << "Value Updated";

sleep(2);

}

}}

BREAK;

CASE 2: //FOR graduate section

decorator ("Graduate");

decorator("Class Activities");

FOR(VAR i=0;i<m;i++)

{

OUTPUT<<endl << i+1 <<" "<< o6.classActivities[i];

}

OUTPUT << endl << endl;

decorator("Web Resources");

FOR(VAR i=0;i<o;i++)

{

OUTPUT<<endl << i+1 <<" "<< o6.webResources[i];

}

OUTPUT <<endl<<endl;

decorator("Assign Grade PoVARs");

OUTPUT << "\nNumber Of Assignments = " << o6.numberOfAssignments;

OUTPUT << "\nWeightage of Assignments = " << o6.weightageOfAssignments;

OUTPUT << "\nNumber of Quizzes = " << o6.numberOfQuizzes;

OUTPUT << "\nWeightage of Quizzes = " <<o6.weightageOfQuizzes;

OUTPUT << "\nNumber of Projects = " << o6.numberOfProjects;

OUTPUT << "\nWeightage of Projects = " << o6.weightageOfProjects;

OUTPUT << "\nNumber of Midterm = " << o6.numberOfMidterm;

OUTPUT << "\nWeightage of Midterm = " << o6.weightageOfMidterm;

OUTPUT << "\nFinal = " << o6.final;

OUTPUT << "\nWeightage of Final = " << o6.weightageOfFinal;

OUTPUT << "\n\nFOR making changes enter 1 or enter any number to go back";

INPUT >>choice;

IF (choice!=1)

{

system("CLS");

n=555;

}

ELSE{

OUTPUT <<"\nEnter\n1: Class Activities\n2: Web Resources\n3: Class Assessments ";

INPUT>> choice;

IF (choice = 1)

{

m++;

OUTPUT << "Enter new class activity ";

getline(INPUT>>ws,o6.classActivities[m-1]);

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF (choice = 2)

{

o++;

OUTPUT << "Enter new web resource" ;

getline(INPUT>>ws,o6.webResources[o-1]);

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF (choice =3)

{

OUTPUT << "Select the value to change\n1: Number of Assignments\n2: Weightage of Assignments\n3: Number of Quizzes\n4: Weightage of Quizzes\n5: Number of Mid-Terms\n6: Weightage of Mid-Terms\7:Number of Projects\n8: Weightage of Projects\n9: Weightage of Final ";

INPUT >> choice;

IF(choice = 1)

{

OUTPUT << "\nEnter the number of Assignments ";

INPUT >> o6.numberOfAssignments;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 2)

{

OUTPUT << "\nEnter the weightage of Assignments ";

INPUT >> o6.weightageOfAssignments;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 3)

{

OUTPUT << "\nEnter the number of Quizzes ";

INPUT >> o6.numberOfQuizzes;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 4)

{

OUTPUT << "\nEnter the number of Assignments ";

INPUT >> o6.weightageOfQuizzes;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 5)

{

OUTPUT << "\nEnter the number of Mid-Terms ";

INPUT >> o6.numberOfMidterm;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 6)

{

OUTPUT << "\nEnter the weightage of Mid-Terms ";

INPUT >> o6.weightageOfMidterm;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 7)

{

OUTPUT << "\nEnter the number of Projects ";

INPUT >> o6.numberOfProjects;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 8)

{

OUTPUT << "\nEnter the weightage of Projects ";

INPUT >> o6.weightageOfProjects;

OUTPUT << "Value Updated";

sleep(2);

}

ELSE IF(choice = 9)

{

OUTPUT << "\nEnter the weightage of Final ";

INPUT >> o6.weightageOfFinal;

OUTPUT << "Value Updated";

sleep(2);

}

}}

BREAK;

CASE 3:

system("CLS");

n=555;

BREAK;

default:

OUTPUT << "Invalid Selection";

}}WHILE(n!=555);

BREAK; //Course Management Ends

CASE 3: //Faculty Profile Starts

system("CLS");

do

{

decorator("SYSTEMS-ITM AIE FACULTY PORTAL");

decorator("Welcome Mansoor");

decorator("Faculty Profile");

decorator("Personal Detalis");

OUTPUT << "\n\nFull Name: " << o4.fullName;

OUTPUT << "\nCNIC: " << o4.cnic;

OUTPUT << "\nAddress: " << o4.address;

OUTPUT << "\nQualIFication: " << o4.quaIFication;

OUTPUT << "\nMobile Number: " << o4.mobileNumber;

OUTPUT << "\nEmail Address: " << o4.emailAddress;

decorator("Experience");

OUTPUT <<endl<<o4.experience;

decorator("Publications");

OUTPUT << endl << o4.publications;

OUTPUT << "\n\nTo update something enter 1 or to go back enter any other number";

INPUT >> choice;

IF (choice!=1)

{

n=333;

system("CLS");

}

ELSE

{

OUTPUT << "Select option\n\n1: Address\n2: QualIFication\n3: Mobile Number\n4: Email Address\n5: Experience\n6: Publications ";

INPUT >> choice;

IF (choice=1)

{

OUTPUT << "Enter new Address ";

VAR newAddress;

getline(INPUT>>ws,newAddress);

o4.address=newAddress;

OUTPUT << "Address Updated";

sleep(2);

}

ELSE IF (choice=2)

{

OUTPUT << "Enter new QualIFication ";

VAR newQualIFication;

getline(INPUT>>ws,newQualIFication);

o4.quaIFication=newQualIFication;

OUTPUT << "QualIFication Updated";

sleep(2);

}

ELSE IF (choice=3)

{

OUTPUT << "Enter new Mobile number ";

VAR newMobileNumber;

getline(INPUT>>ws,newMobileNumber);

o4.mobileNumber=o4.mobileNumber+"\n"+newMobileNumber;

OUTPUT << "Mobile Number Updated";

sleep(2);

}

ELSE IF (choice=4)

{

OUTPUT << "Enter new Email Address ";

VAR newEmailAddress;

getline(INPUT>>ws,newEmailAddress);

o4.emailAddress=newEmailAddress;

OUTPUT << "Email Address Updated";

sleep(2);

}

ELSE IF (choice=5)

{

OUTPUT << "Add Experience inFORmation";

VAR newExperienceInFORmation;

getline(INPUT>>ws,newExperienceInFORmation);

o4.experience=o4.experience+"\n"+newExperienceInFORmation;

OUTPUT << "Experience Updated";

sleep(2);

}

ELSE IF(choice=6)

{

OUTPUT << "Add Publication";

VAR newPublication;

getline(INPUT>>ws,newPublication);

o4.publications=o4.publications+"\n"+newPublication;

OUTPUT << "Publications Updated";

sleep(2);

}

}}WHILE(n!=333);

BREAK;

//Faculty Profile Ends

//CASE 4 to Assessments section to CASE 10 faculty rating section will be implemented later

CASE 11:

OUTPUT << "Please wait,logging you out";

FOR(n=0;n<10;n++)

{

putch('-');

sleep(1);

}

n=999;

BREAK;

default:

OUTPUT << "Invalid Selection!\n|n";

FOR(n=0;n<3;n++)

{

putch('-');

sleep(1);

}

system("CLS");

}

}

}

END