

## OOP project report

### Examination System

Examination system works in two steps

- 1) A teacher logs in first to set the time when the quiz should happen
- 2) A students logs in to attempt the quiz

#### 1) Teacher:

The code has a csv file which it reads and generates the ids when the teacher logs in with right name and password then the program shows what func to perform.

Firstly the teacher will login by adding the right credentials and then after finding the correct id the program will lead the teacher to his dashboard.

```
Maximum number of rows exceeded!
enter your name
Sanaa Ilyas
enter your password
sanaa252627...
teacher id found!
*****
name: Sanaa Ilyas
course name: Communication and Presentation Skills
course title: CS 307
email: Sanaa Ilyas
*****
if you want to change password press 1: █
```

After the the task to perform will be displayed.

```
1.set question paper
2.set time for test
█
```

Then the teacher will select the right option:

If you select 2 you will select the time first and the then the program will ask you to set the question paper and vise versa

```

1.set question paper
2.set time for test
2
enter the no of hours and minutes after which quiz should take place
enter the hours: 0
enter the minutes: 0
enter the seconds: 0
set the duration of quiz
hours: 10
minutes: 0
seconds: 0
1.generate quiz by question bank
2.genrate quiz by yourself
3.add some from questions question bank and also add yourself

```

Setting the quiz gives you 3 options and then the teacher will select the right option and then the teacher will set the number of question, total marks and marks for every question.

After that the countdown for the quiz will start. When its time for the quiz the students an come login and start the quiz.

## 2) Student:

The student will first login with the name and nu id as password

After login we will display the dashboard of the student that in what courses he is enrolled and the program will show whether or not the student can give that quiz. The student will be able to attempt the quiz only when he was enrolled for the course.

```

welcome to student portal!
enter your name: Abbas Raza
enter your password: 20I-0622
student id found!
*****
*****
serial no: 2
name: Abbas Raza
roll no: 20I-0622
email: 20I-0622@nu.edu.pk
password: 20I-0622
you have registered for these courses
Communication and Presentation Skills
*****
*****
you are registered for the course: Communication and Presentation Skills
so you can give sir Sanaa Ilyas's quiz

```

After than the code displays the question paper

```
question no: 1
Q: Q: What is active listening?
Option A: a) Listening without interrupting the speaker.
Option B: b) Listening and providing immediate feedback.
Option C: c) Listening while taking notes.
Option D: d) Listening and analyzing the speaker's body language.

question no: 2
Q: Q: What is the purpose of effective communication?
Option A: a) To express oneself clearly.
Option B: b) To persuade and influence others.
Option C: c) To foster understanding and build relationships.
Option D: d) All of the above.

question no: 3
Q: Q: What is non-verbal communication?
Option A: a) Communication without speaking.
Option B: b) Communication through written messages.
Option C: c) Communication using technical jargon.
Option D: d) Communication through formal presentations.

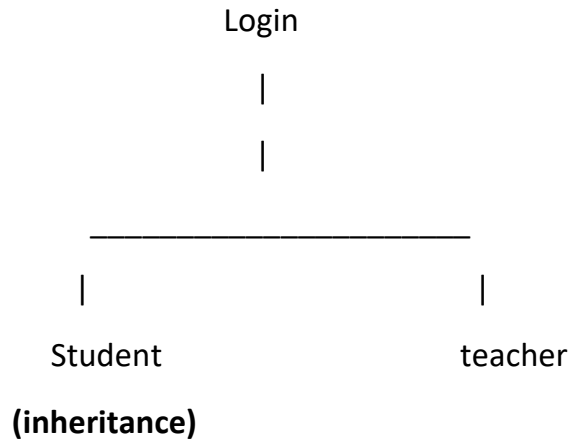
question no: 4
Q: Q: What does it mean to have empathy in communication?
Option A: a) Understanding and sharing the feelings of others.
```

After that the time for the quiz starts and students select right options after that their answers along with right key is displayed and they are given the marks they obtained.

```
0:0:1
quiz ended!
your ans are:
ans1:a ans2:b ans3:f ans4:g ans5:c
the right key is:
ans1:a ans2:b ans3:b ans4:c ans5:d
marks obtained are: 2

next student: █
```

When the quiz of one student ends the program will give you an option of another student or else it will terminate.



Where login is parent class and student and teacher are child classes

**(composition)** is used between student and course registration where a variable of course registration is created in student class

**(inheritance)---→(multiple inheritance)** quiz class inherited q\_bank and time class just to use the func present in both class. Or in other sence the quiz should have an acess to q\_bank to show the q and an acess to time to display the time of the quiz.

**(composition)** composition is present between teacher and q bank here we have has a relation that says that teacher has a q bank.

