

# Student Examination Portal

## Submitted by

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**Section:** A

**Class Roll Number:** 85

**Stream:** CSE

**Subject:** Programming for Problem Solving

**Subject Code:** IVC101

**Department:** COMPUTER SCIENCE AND ENGINEERING

Under the supervision of  
**DR.Swarnendu Ghosh**

**Academic Year: 2022-26**

PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE  
REQUIREMENTS FOR THE FIRST SEMESTER



**DEPARTMENT OF BASIC SCIENCE AND HUMANITITES  
INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA**



## CERTIFICATE OF RECOMMENDATION

We hereby recommend that the project prepared under our supervision by **JEET BHATTACHARJEE**, entitled **Student Examination Portal** be accepted in partial fulfillment of the requirements for the degree of partial fulfillment of the first semester.

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Head of the Department  
Basic Sciences and Humanities  
IEM, Kolkata

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Project Supervisor

# 1 Introduction

student Examination Portal is very much important for any Educational Organizations to prepare their students for any exams by saving the time. It will take check the paper and generate mark sheets as well. It will also help the Organization to test the students and develop their skills. But the disadvantages for this system are, it takes a lot of times when you prepare the exam at the first time for usage. The effective use of "student Examination Portal", any Educational Institute or training centres can use it to develop their strategy for arranging the exams, and for getting better results in less time

## 1.1 Objective

- Users can learn about subjects and topics as well.
- It saves user time in search of exam papers from different sites.
- The system provides a graphical view of the entire exam systems.
- It excludes the need of human efforts for managing question sets.
- The system generates online questions for requested class and topics and produces exact mark sheet.
- Cost-effective

## 1.2 Organization of the Project

Project organization is a process. It **provides the arrangement for decisions on how to realize a project**. It decides the project's process: planning how its costs, deadlines, personnel, and tools will be implemented. The project organization is then presented to the project stakeholders

# 2 Database

Student

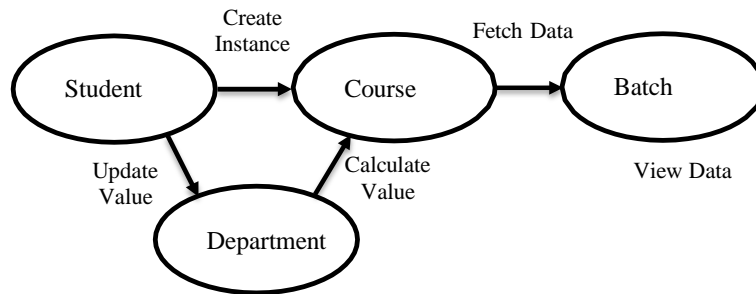
Course

Batch

Department

### 3 Data Flow and E-R Diagrams

Demonstrate the dependency of all the python modules written using data flow diagrams



## 4 Programs

Provide the python programs of the various modules.

```
#student.py
import csv
def add_student():
    f=open("student.csv",'a',newline='')
    w=csv.writer(f)
    w.writerow(['StudentId','Name','Roll','BatchName'])
    rec=[]
    while True:
        print("Enter Student Details:")
        s_id=input("Enter StudentId")
        name=input("Enter Name")
        roll=int(input("Enter roll"))
        B_name=input("Enter Batch Nmae")
        data=[s_id,name,roll,B_name]
        rec.append(data)
        ch=input("Do you want to enter more records?(y/n)")
        if ch in 'nN':
            break
    w.writerows(rec)
    f.close()

def display():
    f=open("student.csv",'r',newline='')
    r=csv.reader(f)
    for rec in r:
        print(rec)
    f.close()

def update():
    f=open("student.csv",'r',newline='')
    r=csv.reader(f)
    s_id=input("Enter the student Id to be updated")
    nrec=[]
    found=0
    for rec in r:
        if rec[0]==s_id:
            print("Current Record: ",rec)
            rec[1]=input("Enter the new name:")
```


```

        print("Updated Record :",rec)
        found=1
        break
    nrec.append(rec)
if found==0:
    print("Sorry! record not found..")
f.close()

def delete():
    f=open("student.csv",'r',newline='')
    r=csv.reader(f)
    s_id=input("Enter the student Id to be Deleted")
    nrec=[]
    found=0
    for rec in r:
        if rec[0]!=s_id:
            nrec.append(rec)
        else:
            found=1
    f.close()
    if found==0:
        print("Data Not found")
    else:
        f=open("student.csv",'w',newline='')
        r=csv.writer(f)
        r.writerows(nrec)
        print("record deleted successfully")
        f.close()
print("Enter 0 for new student details")
print("Enter 1 for display student details")
print("Enter 2 for update student details")
print("Enter 3 for delete student details")
ch=int(input("Enter your choice : "))
if ch==0:
    add_student()
elif ch==1:
    display()
elif ch==2:
    update()
elif ch==3:
    delete()
else:

```

```
print("Enter valid choice")
```

 student.csv

```
1 StudentId,Name,roll,Batch_name
2 CSE201,Rita Bansal,1,CSE21
3 ECE201,Rahul Nandi,1,ECE22
4 ECE202,Sonom Das,2,ECE22
5 |
```

```

#course.py
import csv
import pandas as pd
import matplotlib.pyplot as plt
from xml.dom.minidom import Element
def add_course():
    f=open("course.csv",'w',newline='')
    w=csv.writer(f)
    w.writerow(['CourseId','CourseName','Marks_obtained'])
    rec=[]
    while True:
        print("Enter Course Details: ")
        CourseId=input("Enter CourseId ")
        Coursename=input("Enter Course Name ")
        Marks_obtained={}
        n=int(input("Number of Element"))
        for i in range(n):
            S_id=input("Enter StudentId ")
            S_marks=input("Enter Marks ")
            Marks_obtained.update({S_id:S_marks})
        B_name=Marks_obtained
        data=[CourseId,Coursename,Marks_obtained]
        rec.append(data)
        ch=input("Do you want to enter more records?(y/n)")
        if ch in 'nN':
            break
    w.writerows(rec)
    f.close()
add_course()

```

```

course.csv
1 CourseId,CourseName,Marks_obtained
2 C001,Python,"{'CSE201': '95', 'ECE202': '92'}"
3 C002,Physics,"{'CSE201': '87', 'ECE201': '90', 'ECE202': '94'}"

```



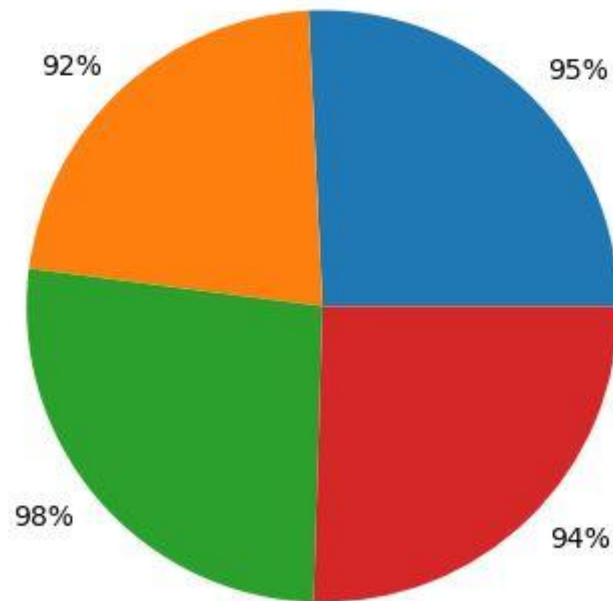
```

#batch.py
import csv
def add_student():
    f=open("batch.csv",'a',newline='')
    w=csv.writer(f)
    w.writerow(['BatchId','Batch Name','Department Name','list of
Course','List Of student'])
    rec=[]
    while True:
        print("Enter Batch Details:")
        b_id=input("Enter BatchId")
        B_name=input("Enter BatchName")
        d_name=input("Enter Department Name")
        course=list(map(str,input("Enter List of Course").split()))
        B_name=list(map(str,input("Enter List of Student").split()))
        data=[b_id,B_name,d_name,course,B_name]
        rec.append(data)
        ch=input("Do you want to enter more records?(y/n)")
        if ch in 'nN':
            break
    w.writerows(rec)
    f.close()
add_student()

plt.pie(student_values,labels=percentage)
plt.show()

```

```
batch.csv
1 BatchId,Batch Name,Department Name,list of Course,List Of student
2 CSE22,['CSE201'],CSE,"['C001', 'C002']",['CSE201']
3 CSE21,['CSE101'],CSE,"['C001', 'C002']",['CSE101']
4 ECE22,"['ECE2201', 'ECE220']",ECE,['C002'],"['ECE2201', 'ECE220']"
5
```



```

#department.py
import csv
def add_department():
    f=open("Deparment.csv",'a',newline='')
    w=csv.writer(f)
    w.writerow(['BatchId','Batch Name','Department Name','list of
Course','List Of student'])
    rec=[]
    while True:
        print("Enter New Department Details:")
        d_id=input("Enter DeptId")
        d_name=input("Enter DepartmentName")
        batch=list(map(str,input("Enter List of Batches").split()))
        data=[d_id,d_name,d_name,batch]
        rec.append(data)
        ch=input("Do you want to enter more records?(y/n)")
        if ch in 'nN':
            break
    w.writerows(rec)
    f.close()
add_department()

```

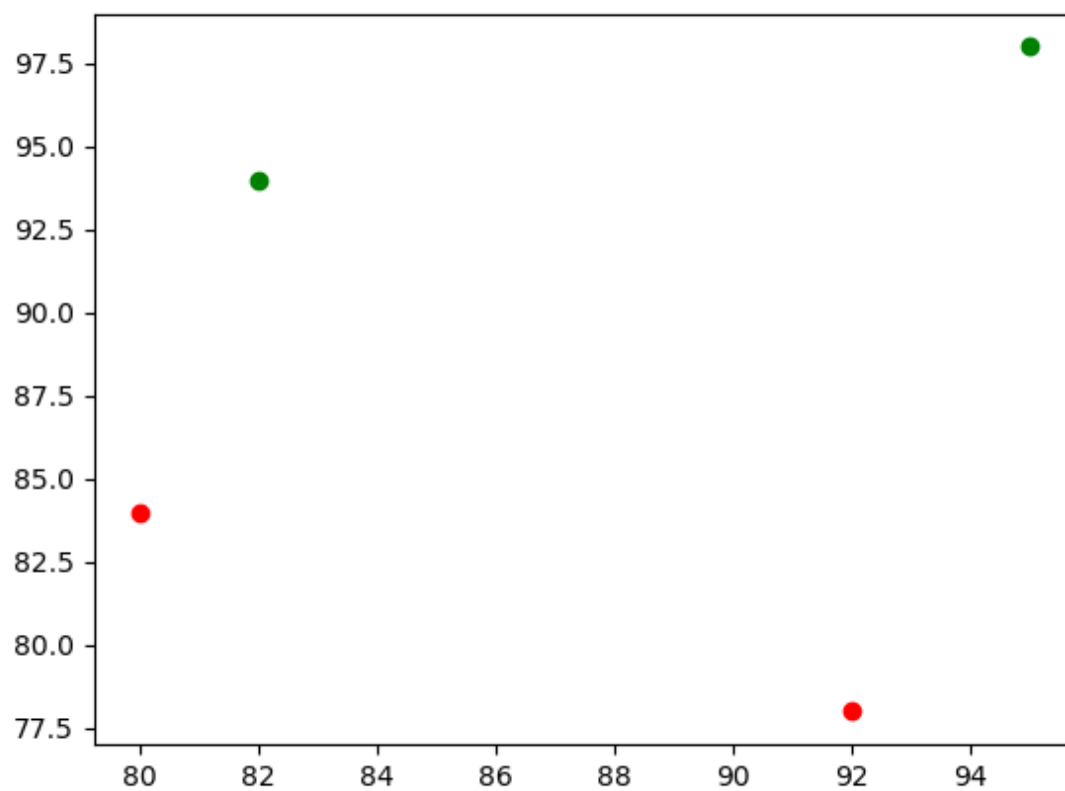
```

Deparment.csv
1  BatchId,Batch Name,Department Name,list of Course,List Of student
2  CSE,Computer Science and Engineering,Computer Science and Engineering,
   ['CSE22', 'CSE21']
3  ECE,Electronics and Comunication Engineering,Electronics and
   Communication Engineering,['ECE22']
4  |

```

Figure 1

— □ >



# report Generate TXT

≡ report.txt

1	StudentId,Marks_obtained, Grade
2	CSE201,95,A
3	ECE201,87,B
4	ECE202,92,A