GRADING CARD AS DOCUMENT

ABSTRACT

This project is a Web based grading and tracking system. This system design benefits teachers, principals, administrators and students when compared to the current manual system at the school. Teachers can maintain grades, create lesson plans, provide information on assignments and tutorials and monitor the performance of each student. The principal can monitor students and teacher's lesson plans and tasks accomplished. Administrators can export grades of the students from the database to their system without manual entry. Parents can monitor the progress of their students online. Finally, students can receive online progress reports and assignments/tutorial information.

This system helps in making the documentation of grading card much diligent for the documentation purpose and helps in indulging the client server mode. Whereas the information will be provided in the excel sheets and other sheets. The information will be retrieved and then the program of client and server will convert into the documentations.

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I. INTRODUCTION

The current system forces teachers to manually enter the grades on a excel sheet. Teachers are responsible for daily grades, weekly grades and the academic cycle grades. A semester has three academic cycles, and each academic cycle has six weeks. It is very tedious and time consuming to keep track of these grades manually. There is no easy way to backup this information except to look back into the daily grade books and submit the grades periodically to administrators.

Currently, parents do not have an easy method to keep track of the grades of their children. They must depend on their children in order to see the progress reports or they must schedule an appointment with the teachers. The Online Grading and Tracking System are designed to transfer information in an immediately usable form into the Regional Service Center Computer Cooperative system. The paper copy of the grades must be manually entered into the RSCCC System which is time consuming and tedious. The online grading system is a way to serve the needs of parents/students, faculty and staff and saves lots of time and effort. Staff need not have to wait several days for grade materials to be gathered, as grades can be turned in much faster.

Teachers can eliminate the use of grade sheets, thus eliminating the tedious job of tracking those sheets and also saving storage space. Below are some of the important functions benefiting the teachers.

- Academic semester grades can be entered online, providing an easy access to data for tracking students.
- Lesson plans can be created online providing the convenience of working from any location.
- Reduced burden at the end of academic cycle to submit the student grades to the administrator's office.

II. DESCRIPTION – SYSTEM ANALYSIS

Many a time, a software application is required to generate reference documents in Microsoft Word file format. Sometimes, an application is even expected to receive Word files as input data.

Any Java programmer who wants to produce MS-Office files as output must use a predefined and read-only API to do so.

What is Apache POI?

Apache POI is a popular API that allows programmers to create, modify, and display MS-Office files using Java programs. It is an open source library developed and distributed by Apache Software Foundation to design or modify MS-Office files using Java program. It contains classes and methods to decode the user input data or a file into MS-Office documents.

Components of Apache POI

Apache POI contains classes and methods to work on all OLE2 Compound documents of MS-Office. The list of components of this API is given below –

POIFS (**Poor Obfuscation Implementation File System**) – This component is the basic factor of all other POI elements. It is used to read different files explicitly.

HSSF (**Horrible SpreadSheet Format**) – It is used to read and write .xls format of MS-Excel files.

XSSF (**XML SpreadSheet Format**) – It is used for .xlsx file format of MS-Excel.

HPSF (Horrible Property Set Format) – It is used to extract property sets of the MS-Office files.

HWPF (Horrible Word Processor Format) – It is used to read and write .doc extension files of MS-Word.

XWPF (**XML Word Processor Format**) – It is used to read and write .docx extension files of MS-Word.

HSLF (Horrible Slide Layout Format) – It is used to read, create, and edit PowerPoint presentations.

HDGF (**Horrible DiaGram Format**) – It contains classes and methods for MS-Visio binary files.

HPBF (**Horrible PuBlisher Format**) – It is used to read and write MS-Publisher files.

III. SYSTEM REQUIREMENTS

JDK	Java SE 2 JDK 1.5 or above	
Memory	1 GB RAM	
Operating System Version	Windows XP or above, Linux	

Table 1: Working Environment

STEPS FOR RUNNING THE PROGRAM

- Step 1: Open Ide
- Step 2: Make sure the execution compiler mode is in java mode
- Step 3: In package explorer right click and create a new java project
- Step 4: Click on next
- Step 5: Import all the library files from apache poi software
- Step 6: Now type the code and save it.
- Step 7: Execute the codes
- Step 8: a word file will be created in the specific location
- Step 9: open the file and see all the details have been entered.
- Step 10: stop

SEQUENCE DIAGRAM

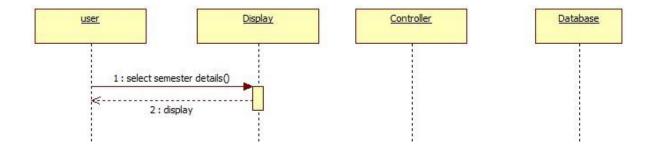


Fig 1: Sequence Diagram

CODE: CLIENT

```
package dc;
import java.io.*;
import java.net.*;
public class client
       public static void main(String [] args)throws IOException
              String str;
              int n;
              Socket cs=new Socket("localhost",56);
              DataInputStream in=new DataInputStream(cs.getInputStream());
              DataOutputStream out=new DataOutputStream(cs.getOutputStream());
              BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
              System.out.println("Press Enter without text to quit");
              //this is for student name
              String st=in.readLine();
              System.out.println(st);
              str=br.readLine();
               out.writeBytes(str+"\n");
              //this is for student roll no
               st=in.readLine();
              System.out.println(st);
               str=br.readLine();
              out.writeBytes(str+"\n");
              //this is for subject count
               st=in.readLine();
              System.out.println(st);
               str=br.readLine();
              out.writeBytes(str+"\n");
              n=Integer.parseInt(str);
              //subject detail generation
              for(int i=0;i<n;i++)
                      // below 4 line are to send subjectcode
                      st=in.readLine();
                      System.out.println(st);
                      str=br.readLine();
                      out.writeBytes(str+"\n");
                      // below 4 line are to send the name of the subject
```

```
st=in.readLine();
               System.out.println(st);
               str=br.readLine();
               out.writeBytes(str+"\n");
               // below 4 lines are to send no of credits of the subject
               st=in.readLine();
               System.out.println(st);
               str=br.readLine();
               out.writeBytes(str+"\n");
               // below 4 lines are to send mks of the subject
               st=in.readLine();
               System.out.println(st);
               str=br.readLine();
               out.writeBytes(str+"\n");
       cs.close();
}
```

CODE: SERVER

```
package dc;
import java.io.*;
import java.io.File;
import java.io.FileOutputStream;
import org.apache.poi.xwpf.usermodel.Borders;
import org.apache.poi.xwpf.usermodel.ParagraphAlignment;
import org.apache.poi.xwpf.usermodel.XWPFDocument;
import org.apache.poi.xwpf.usermodel.XWPFParagraph;
import org.apache.poi.xwpf.usermodel.XWPFRun;
import org.apache.poi.xwpf.usermodel.XWPFTable;
import org.apache.poi.xwpf.usermodel.XWPFTableRow;
import java.net.*;
public class server
{
    public static void main(String[] args)throws IOException
    {
```

```
//socket creation and acceptance
    ServerSocket ss= new ServerSocket(56);
    Socket s=ss.accept();
    //variables used in program(few may have been declared later in program)
String Text, str, name, grade, stuname, stdregno, code;
    int n,mks,credits,tc=0;
    float sum=0,avg;
    //input and output streams
    DataInputStream in=new DataInputStream(s.getInputStream());
    DataOutputStream out=new DataOutputStream(s.getOutputStream());
    System.out.println("Server Ready");
    //to get student name
    str="enter the name os student";
    out.writeBytes(str+"\n");
    stuname=in.readLine();
    System.out.println(stuname);
    //to get student register no
    str="enter the regno";
    out.writeBytes(str+"\n");
    stdregno=in.readLine();
    //document creation requisites
    XWPFDocument document = new XWPFDocument();
FileOutputStream ou = new FileOutputStream(new File("d:gradecard.docx"));
XWPFParagraph paragraph = document.createParagraph();
XWPFRun run = paragraph.createRun();
paragraph.setAlignment(ParagraphAlignment.CENTER);
run = paragraph.createRun();
run.setFontSize(34);
run.setText("PRESIDENCY UNIVERSITY"+"\n");
paragraph = document.createParagraph();
paragraph.setBorderBottom(Borders.BASIC BLACK DASHES);
paragraph.setAlignment(ParagraphAlignment.CENTER);
run = paragraph.createRun();
run.setFontSize(20);
run.setText("BANGALORE, KARNATAKA-560064");
paragraph = document.createParagraph();
paragraph.setAlignment(ParagraphAlignment.CENTER);
run = paragraph.createRun();
```

```
run.setBold(true);
run.setFontSize(20);
run.setText("GRADE CARD");
    paragraph = document.createParagraph();
paragraph.setAlignment(ParagraphAlignment.LEFT);
run = paragraph.createRun();
run.setBold(true);
run.setFontSize(12);
run.setText("Student Name: "+stuname);
    paragraph = document.createParagraph();
paragraph.setAlignment(ParagraphAlignment.LEFT);
run = paragraph.createRun();
run.setBold(true);
run.setFontSize(12);
run.setText("Roll Number: "+stdregno);
    //the below 4 line is for subject count
    str="enter the no of subjects";
    out.writeBytes(str+"\n");
    Text=in.readLine();
    n=Integer.parseInt(Text);
    //creates a table
    XWPFTable tab = document.createTable();
//create first row
XWPFTableRow row = tab.getRow(0);
row.getCell(0).setText("Course Code");
row.addNewTableCell().setText("Course Name");
row.addNewTableCell().setText("Credits");
row.addNewTableCell().setText("Grade");
    for(int i=0;i<n;i++)
            // below 3 line are to store subject code
            str="enter the subject code";
            out.writeBytes(str+"\n");
            code=in.readLine();
            // below 3 line are to store the name of the subject
            str="enter the subject name";
```

```
out.writeBytes(str+"\n");
name=in.readLine();
// below 4 lines are to store no of credits of the subject
str="enter the credits of the subject";
out.writeBytes(str+"\n");
Text=in.readLine();
credits=Integer.parseInt(Text);
// below 4 lines are to store mks of the subject
str="enter the marks of the subject for 100";
out.writeBytes(str+"\n");
Text=in.readLine();
mks=Integer.parseInt(Text);
//the below if else statements is to generate grade
//grade decision
if(mks < 40)
       grade="F";
       sum+=0;
       credits=0;
else if(mks<50)
       grade="D";
       sum+=4;
       tc+=credits;
else if(mks<60)
       grade="C";
       sum+=5;
       tc+=credits;
else if(mks<70)
       grade="B";
       sum+=4;
       tc+=credits;
else if(mks<80)
       grade="B+";
```

```
sum+=4;
                        tc+=credits;
                else if(mks<90)
                       grade="A";
                        sum+=8;
                        tc+=credits;
                else if(mks<95)
                        grade="A+";
                        sum+=9;
                       tc+=credits;
                else
                       grade="O";
                       sum+=10;
                       tc+=credits;
                String cr=Integer.toString(credits);
                // Second Row
                row = tab.createRow();
       row.getCell(0).setText(code);
       row.getCell(1).setText(name);
       row.getCell(2).setText(cr);
       row.getCell(3).setText(grade);
         //calculates average which is nothing but SGPA
         avg=sum/n;
         str=Integer.toString(tc);
         row = tab.createRow();
row.getCell(0).setText(" ");
row.getCell(1).setText("total credits");
row.getCell(2).setText(str);
row.getCell(3).setText("");
         paragraph = document.createParagraph();
    paragraph.setBorderBottom(Borders.BASIC_BLACK_DASHES);
    paragraph.setAlignment(ParagraphAlignment.CENTER);
```

```
run = paragraph.createRun();
run.setText("
                   ");
paragraph = document.createParagraph();
paragraph.setBorderBottom(Borders.BASIC_BLACK_DASHES);
paragraph.setAlignment(ParagraphAlignment.CENTER);
run = paragraph.createRun();
run.setBold(true);
run.setText("SGPA: "+avg);
    System.out.println("your grade card is ready");
    //THIS LINE WRITES ALL DATA INTO THE WORD FILE
    document.write(ou);
    //closing socket,output stream and document
    ou.close();
document.close();
    ss.close();
```

IV. SCREENSHOTS

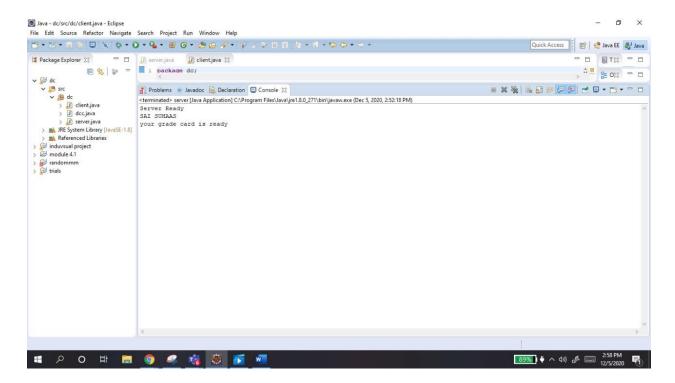


Fig 1: SERVER DEMONSTRATION

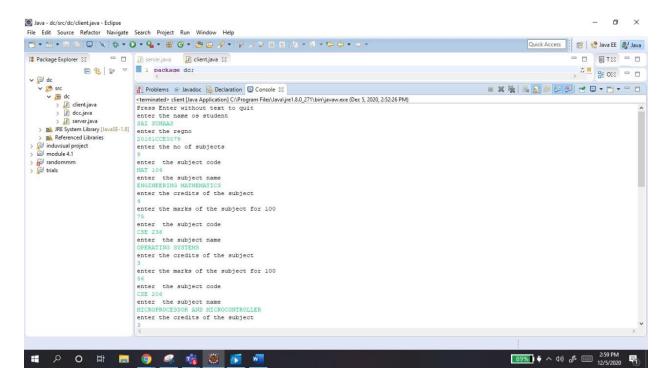


Fig 2: CLIENT -1 DEMONSTRATION

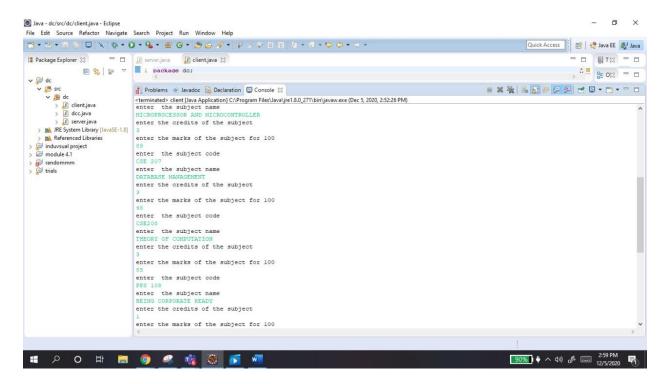


Fig 3: CLIENT -2 DEMONSTRATION

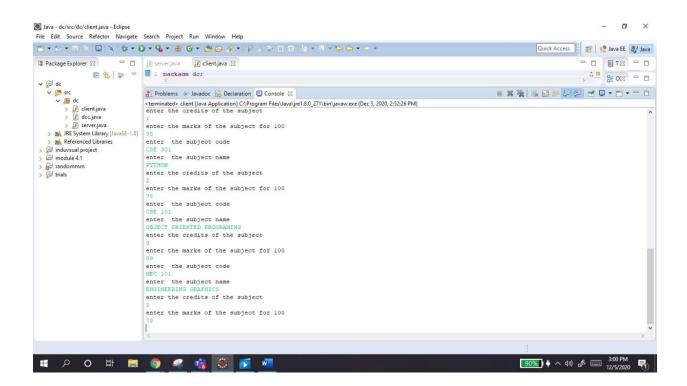


Fig 4: CLIENT -3 DEMONSTRATION

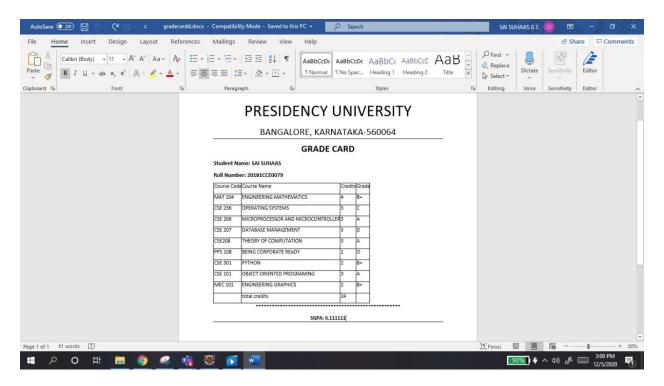


Fig 5: OUTPUT DEMONSTRATION

V. CONCLUSION

The Grading and Tracking and documentation System is aimed at helping teachers, principals, and officials in charge of testing to save time and effort in grading and tracking the students. The project helps teachers create lesson plans, create online assignments and allows teachers to monitor the performance of each student. The Principal and assistant principal can monitor all the teachers and view their lesson plans and track their progress. The OGTS allows the principal and assistant principal to monitor each student performance.

The officials in charge of testing in the administrative office have privileges to export data into useable form. This project also plays an important role in helping parents to track their children by allowing them to track their academic progress saving them time and effort. Students can take advantage of online assignments to makeup the work they missed.

VI. REFERNCES

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