

Rapport du projet technologies XML



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1. Conversion de l'ensemble des fichiers Excel au Format XML

- Langage utilisé : Java(jxl.jar).

Exemple de documents Excel créer :

❖ Student_GINF2.xsl

	A	B	C	D	E	F
1	CNE	FirstName	LastName	BirthDate	PhoneNum	Email
2	KB23456	chaymae	Ghazi	1/1/2000	600000001	nom1@gmail.com
3	KB23457	hasnae	Yahyaw	1/2/2000	600000002	nom2@gmail.com
4	KB23458	soumaya	Bssillat	1/3/2000	600000023	nom3@gmail.com
5	KB23459	mohammed	Ben ali	1/4/2000	600000024	nom4@gmail.com
6	KB23460	hichame	Yajour	1/5/2000	600000025	nom5@gmail.com
7	KB23461	abd el illah	Hadraf	1/6/2000	600000026	nom6@gmail.com
8	KB23462	abd samad	Kaabi	1/7/2000	600000027	nom7@gmail.com
9	KB23463	souaad	Ziyach	1/8/2000	600000028	nom8@gmail.com
10	KB23464	yahya	Ben atiya	1/9/2000	600000031	nom9@gmail.com
11	KB23465	siraj	Hadad	1/10/2000	600000018	nom10@gmail.com
12	KB23466	jamila	Fajr	1/11/2000	600000009	nom11@gmail.com
13	KB23467	ishaa	Hakimi	1/12/2000	600000003	nom12@gmail.com
14	KB23468	fayrouz	Hadadi	1/13/2000	600000004	nom13@gmail.com
15	KB23469	joumana	Ben charki	1/14/2000	600000005	nom14@gmail.com
16	KB23470	ziyad	Ennssiri	1/15/2000	600000006	nom15@gmail.com

+Outil java de conversion :

```
import java.nio.file.Files;
import java.nio.file.Paths;
import java.io.File;
import java.io.IOException;
import java.io.UnsupportedEncodingException;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.stream.StreamSource;
import javax.xml.validation.*;
import jxl.*;
import jxl.read.biff.BiffException;

//-----creation de document student_GINF2.xml-----
public class exceltoxml {

    public String toXml(File excelFile, String name,String name1) throws IOException, BiffException {
        try {
            String xmlLine = "";
            String rowText = "";
            String colText = "";
            String isBold = "";
            String cellCol = "";
            String cellAddress = "";
            Cell cell = null;
            Workbook workbook = Workbook.getWorkbook(excelFile);
            xmlLine += "<?xml version='1.0' standalone='no' ?>\n";
            xmlLine += "<DOCTYPE Filiere_Niveau SYSTEM \"../2_validation/DTD/XSD/Student.dtd\">\n";
            xmlLine += "<?xml-stylesheet type='text/xsl' href='../4_publication_sous_pdf/Carte_Etudiant.xsl ../4_publication_sous_pdf/Attestation.xsl' ?>\n";
            xmlLine += "<Filiere_Niveau nom_de_filiere =\"GINF2\">\" + \"\n \n";

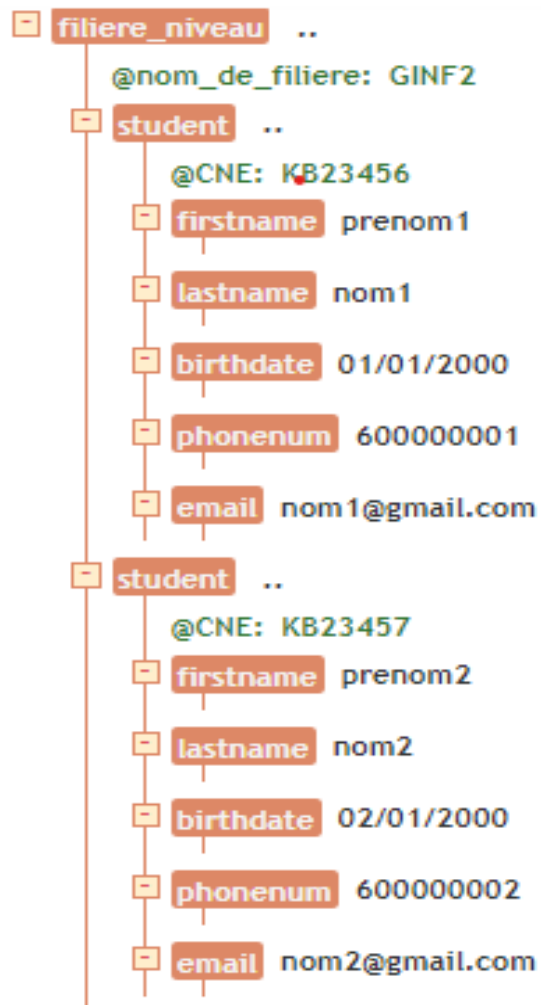
            Sheet s = workbook.getSheet(0);
            Cell[] row = null;
            Cell[] col = null;
            col = s.getRow(0);
            for (int i = 0; i < s.getRows(); i++) {
                if (i==0) continue;
                row = s.getRow(i);
                for (int j = 1; j < row.length; j++) {
                    if (row[j].getContentType() != CellType.EMPTY) {
                        cell = row[j];
                        cellCol=columnName(cell.getColumn());
                        cellCol="colLetter="+cellCol+"";
                        cellAddress=" address="+cellAddress(cell.getRow()+1,cell.getColumn())+"";
                        isBold = cell.getCellFormat().getFont().getBoldWeight() == 700 ? "true" : "false";
                        isBold = (isBold == "false" ? "" : " isBold="+isBold+"");
                        colText += " <"+col[j].getContents()+">";
                        colText += cell.getContents();
                        colText += "</"+col[j].getContents()+">\" + \"\n";
                        rowText += cell.getContents();
                    }
                }
                if (rowText != "") {
                    xmlLine += " <"+name+" \" +col[0].getContents()+"=\""+ row[0].getContents()+"\">\" + \"\n";
                    xmlLine += colText;
                    xmlLine += " </"+name+">\" + \"\n \n";
                }
                colText = "";
                rowText = "";
            }
            xmlLine += "</Filiere_Niveau>\" + \"\n \n";
            return xmlLine;
        } catch (UnsupportedEncodingException e) {
            System.err.println("fichier inconvenient");
        }
        return null;
    }

    private String cellAddress(Integer rowNumber, Integer colNumber) {
        return columnName(colNumber)+rowNumber;
    }

    private String columnName(Integer colNumber) {
        Base columns = new Base(colNumber,26);
        columns.transform();
        return columns.getResult();
    }
}
```

+Document Student_GINF2.xml généré :

```
<?xml version="1.0"?>
<!DOCTYPE Filiere_Niveau SYSTEM "../2_validation_DTD_XSD/Student.dtd">
<Filiere_Niveau nom_de_filiere="GINF2">
  - <Student CNE="KB23456">
    <FirstName>chaymae</FirstName>
    <LastName>Ghazi</LastName>
    <BirthDate>01/01/2000</BirthDate>
    <PhoneNum>600000001</PhoneNum>
    <Email>nom1@gmail.com</Email>
  </Student>
  - <Student CNE="KB23457">
    <FirstName>hasnae</FirstName>
    <LastName>Yahyawi</LastName>
    <BirthDate>02/01/2000</BirthDate>
    <PhoneNum>600000002</PhoneNum>
    <Email>nom2@gmail.com</Email>
  </Student>
  - <Student CNE="KB23458">
    <FirstName>soumaya</FirstName>
    <LastName>Bssillat</LastName>
    <BirthDate>03/01/2000</BirthDate>
    <PhoneNum>600000023</PhoneNum>
    <Email>nom3@gmail.com</Email>
  </Student>
  - <Student CNE="KB23459">
    <FirstName>mohammed</FirstName>
    <LastName>Ben ali</LastName>
    <BirthDate>04/01/2000</BirthDate>
    <PhoneNum>600000024</PhoneNum>
    <Email>nom4@gmail.com</Email>
  </Student>
  - <Student CNE="KB23460">
    <FirstName>hichame</FirstName>
    <LastName>Yajour</LastName>
    <BirthDate>05/01/2000</BirthDate>
    <PhoneNum>600000025</PhoneNum>
    <Email>nom5@gmail.com</Email>
  </Student>
  - <Student CNE="KB23461">
    <FirstName>abd el illah</FirstName>
    <LastName>Hadraf</LastName>
    <BirthDate>06/01/2000</BirthDate>
    <PhoneNum>600000026</PhoneNum>
    <Email>nom6@gmail.com</Email>
  </Student>
  - <Student CNE="KB23462">
    <FirstName>abd samad</FirstName>
    <LastName>Kaabi</LastName>
    <BirthDate>07/01/2000</BirthDate>
    <PhoneNum>600000027</PhoneNum>
    <Email>nom7@gmail.com</Email>
  </Student>
</Filiere_Niveau>
```



❖ professeur_GINF2.xsl

FirstName	LastName	nomMat	module	nomMat	module	PhoneNurr	Email	departement
prenom1	nom1	Matiere1	m1	m21	m1	600000001	nom1@gmail.com	dep1
prenom2	nom2	Matiere2	m2	m22	m2	600000002	nom2@gmail.com	dep2
prenom3	nom3	Matiere3	m3	m23	m3	600000023	nom3@gmail.com	dep3
prenom4	nom4	Matiere4	m4			600000024	nom4@gmail.com	dep4
prenom5	nom5	Matiere5	m5			600000025	nom5@gmail.com	dep5
prenom6	nom6	Matiere6	m6			600000026	nom6@gmail.com	dep6
prenom7	nom7	Matiere7	m7			600000027	nom7@gmail.com	dep7
prenom8	nom8	Matiere8	m8			600000028	nom8@gmail.com	dep8
prenom9	nom9	Matiere9	m9			600000031	nom9@gmail.com	dep9
prenom10	nom10	Matiere1	m10	m24	m3	600000018	nom10@gmail.com	dep10
prenom11	nom11	Matiere1	m11	m25	m4	600000009	nom11@gmail.com	dep11
prenom12	nom12	Matiere1	m12	m26	m5	600000003	nom12@gmail.com	dep12
prenom13	nom13	Matiere1	m13	m27	m6	600000004	nom13@gmail.com	dep13
prenom14	nom14	Matiere1	m14			600000005	nom14@gmail.com	dep14
prenom15	nom15	Matiere1	m15			600000006	nom15@gmail.com	dep15
prenom16	nom16	Matiere1	m16	m28	m7	600000007	nom16@gmail.com	dep16
prenom17	nom17	Matiere1	m17	m29	m8	600000008	nom17@gmail.com	dep17
prenom18	nom18	Matiere1	m18	m30	m9	600000010	nom18@gmail.com	dep18
prenom19	nom19	Matiere1	m19	m31	m10	600000020	nom19@gmail.com	dep19

+Outil java de conversion :

```
import java.nio.file.Files;
import java.nio.file.Paths;
import java.io.File;
import java.io.IOException;
import java.io.UnsupportedEncodingException;

import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.stream.StreamSource;
import javax.xml.validation.*;
import jxl.Cell;
import jxl.CellType;
import jxl.Sheet;
import jxl.Workbook;
import jxl.format.Font;
import jxl.read.biff.BiffException;
// -----creation de doc xml Professeur.xml-----

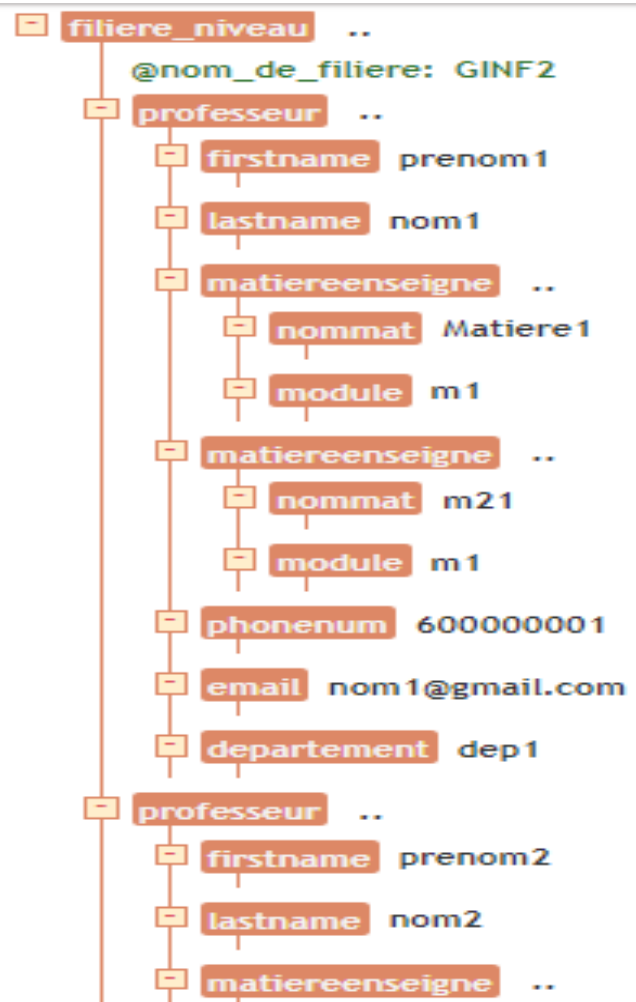
public class excvltotxml2 {
    public String toXml(File excelFile, String name, String name1, String nomvalidator) throws IOException, BiffException {
        try {
            String xmlLine = "";
            String rowText = "";
            String colText = "";
            String isBold = "";
            String cellCol = "";
            String cellAddress = "";
            Cell cell = null;
            Workbook workbook = Workbook.getWorkbook(excelFile);
            xmlLine += "<?xml version='1.0' standalone='no'?">\n";
            xmlLine += "<!DOCTYPE Filiere_Niveau SYSTEM \"../2_validation_DTD_XSD/" + nomvalidator + "\">\n";
            xmlLine += "<Filiere_Niveau nom_de_filiere =\"GINEF2\">\" + \"\n \n\";
            Sheet s = workbook.getSheet(0);
            Cell[] row = null;
            Cell[] col = null;
            col = s.getRow(0);
            for (int i = 0; i < s.getRows(); i++) {
                if (i==0) continue;
                row = s.getRow(i);
                for (int j = 0; j < row.length; j++) {
                    colText += cell.getContents();
                    colText += " </"+col[j].getContents()+">" + "\n";
                }
                rowText += cell.getContents();
                if (j==3||j==5){ colText += " <"+col[j].getContents()+">";
                    colText += cell.getContents();
                    colText += " </"+col[j].getContents()+">" + "\n";
                    rowText += cell.getContents();
                    colText += " </MatiereEnseigne>" + "\n";
                }
            }
            else{
                colText += " <"+col[j].getContents()+">";
                colText += cell.getContents();
                colText += " </"+col[j].getContents()+">" + "\n";
                rowText += cell.getContents();
            }
        }
        if (rowText != "") {
            xmlLine += " <"+name+" >" + "\n";
            xmlLine += colText;
            xmlLine += " </"+name+">" + "\n \n";
        }
        colText = "";
        rowText = "";
        xmlLine += "</Filiere_Niveau>" + "\n \n";
        return xmlLine;
    } catch (UnsupportedEncodingException e) {
        System.err.println("fichier inconvenient");
    }
    return null;
}

private String cellAddress(Integer rowNumber, Integer colNumber){
    return columnName(colNumber)+rowNumber;
}

private String columnName(Integer colNumber) {
    Base columns = new Base(colNumber,26);
    columns.transform();
    return columns.getResult();
}
```

+Document Professeur_GINF2.xml généré :

```
<?xml version="1.0"?>
<!DOCTYPE Filiere_Niveau SYSTEM "../2_validation_DTD_XSD/Professeur.dtd">
- <Filiere_Niveau nom_de_filiere="GINF2">
  - <Professeur>
    <FirstName>prenom1</FirstName>
    <LastName>nom1</LastName>
    - <MatiereEnseigne>
      <nomMat>Matiere1</nomMat>
      <module>m1</module>
    </MatiereEnseigne>
    - <MatiereEnseigne>
      <nomMat>m21</nomMat>
      <module>m1</module>
    </MatiereEnseigne>
    <PhoneNum>600000001</PhoneNum>
    <Email>nom1@gmail.com</Email>
    <departement>dep1</departement>
  </Professeur>
  - <Professeur>
    <FirstName>prenom2</FirstName>
    <LastName>nom2</LastName>
    - <MatiereEnseigne>
      <nomMat>Matiere2</nomMat>
      <module>m2</module>
    </MatiereEnseigne>
    - <MatiereEnseigne>
      <nomMat>m22</nomMat>
      <module>m2</module>
    </MatiereEnseigne>
    <PhoneNum>600000002</PhoneNum>
    <Email>nom2@gmail.com</Email>
    <departement>dep2</departement>
  </Professeur>
  - <Professeur>
    <FirstName>prenom3</FirstName>
    <LastName>nom3</LastName>
    - <MatiereEnseigne>
      <nomMat>Matiere3</nomMat>
      <module>m3</module>
    </MatiereEnseigne>
    - <MatiereEnseigne>
      <nomMat>m23</nomMat>
      <module>m3</module>
    </MatiereEnseigne>
    <PhoneNum>600000023</PhoneNum>
    <Email>nom3@gmail.com</Email>
    <departement>dep3</departement>
  </Professeur>
  - <Professeur>
    <FirstName>prenom4</FirstName>
    <LastName>nom4</LastName>
    - <MatiereEnseigne>
      <nomMat>Matiere4</nomMat>
```



❖ module_GINF2.xsl

nomModule	departement	sousModule	sousModule	sousModule	coordonateur
POO et XML	SIC	Prge orientee objet : java	XML et Applications		cord1
Modelisation et IHM	MI	Modelisation orientee objet UML	Interaction Homme Machine		cord2
Bases de donnees avancees	SIC	Optimisation et Qualite	Administration et Securite	base de donnee distribuee	cord3
Administration et program	MI	Administration Sys	Programmation Sys		cord4
Qualite et approche proce	SIC	Assurance controle quilite	Cycle de vie et Methodes agiles		cord5
Langues et communicatio	SIC	Espagnol 2	Anglais professionnel	Techniques de communication	cord6
Technologies distribuees	SIC	Introduction a J2EE	Programmation en C		cord7
Bases de donnees avancees	SIC	Gestion des donnees complexes	Gestion des donnees distribuees	Cloud computing	cord8
Traitement de l'image	SIC	Traitement d'image	Vision numerique	Processus Stochastique	cord9
Prge declarative et TAV	MI	Prge declarative	Technique algorithmique		cord10
Securite et Cryptographie	MI	Securite des sys	Cryptographie		cord11
Management de l'entrepri	SIC	Economie et Compta 2	Projets Collectifs et Stages	Management de projet	cord12

+Outil java de conversion :

```

import java.nio.file.Files;
import java.nio.file.Paths;
import java.io.File;
import java.io.IOException;
import java.io.UnsupportedEncodingException;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.stream.StreamSource;
import javax.xml.validation.*;
import javax.xml.xpath.*;
import java.util.*;

//-----creation dedoc xml Module_GINF2-----

public class excoletoxml {
    public String toXml(File excelFile, String name,String namel,String nomvalidator) throws IOException, BiffException {
        try {
            String xmlLine = "";
            String rowText = "";
            String colText = "";
            String isBold = "";
            String cellCol = "";
            String cellAddress = "";
            Cell cell = null;
            Workbook workbook = Workbook.getWorkbook(excelFile);
            xmlLine += "<?xml version='1.0' standalone='no' ?>\n";
            xmlLine += "<!DOCTYPE Filiere_Niveau SYSTEM \"../2_validation_PDP_XSD/" + nomvalidator + ".xsd\">\n";
            xmlLine += "<?xml-stylesheet type='text/xsl' href='../4_publication_sous_pdf/emploi_du_temp.xsl ../4_publication_sous_pdf/emploi_du_tempe.xsl' ?>\n";
            xmlLine += "<Filiere_Niveau nom_de_filiere=\"" + GINF2 + "\">\n";

            Sheet s = workbook.getSheet(0);
            Cell[] row = null;
            Cell[] col = null;
            col = s.getRow(0);
            for (int i = 0; i < s.getRows(); i++) {
                if (i==0) continue;
                row = s.getRow(i);

                row = s.getRow(i);
                for (int j = 0; j < row.length; j++) {
                    if (row[j].getType() != CellType.EMPTY) {
                        cell = row[j];
                        cellCol=columnName(cell.getColumn());
                        cellCol=" colLetter=" + cellCol + "\n";
                        cellAddress=" " + cellAddress(cell.getRow()+1,cell.getColumn()) + "\n";
                        isBold = cell.getCellFormat().getFont().getBoldWeight() == 700 ? "true" : "false";
                        isBold = (isBold == "false" ? "" : " isBold=\"" + isBold + "\"");
                        colText += " <" + col[j].getContents() + ">\n";
                        colText += cell.getContents();
                        colText += "</" + col[j].getContents() + ">" + "\n";
                    }
                }
                rowText += cell.getContents();
            }

            if (rowText != "") {
                xmlLine += " <" + name + ">" + "\n";
                xmlLine += colText;
                xmlLine += "</" + name + ">" + "\n \n";
            }
            colText = "";
            rowText = "";
            xmlLine += "</Filiere_Niveau>" + "\n \n";
            return xmlLine;
        } catch (UnsupportedEncodingException e) {
            System.err.println("Fichier inconvenient");
        }
        return null;
    }

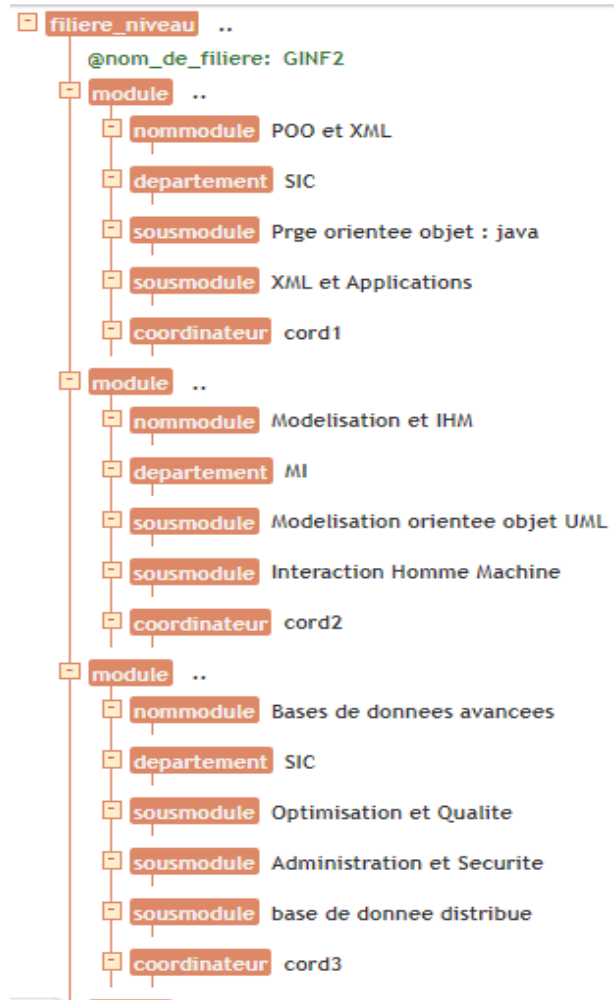
    private String cellAddress(Integer rowNumber, Integer colNumber){
        return columnName(colNumber)+rowNumber;
    }

    private String columnName(Integer colNumber) {
        Base columns = new Base(colNumber,26);
        columns.transform();
        return columns.getResult();
    }
}

```


+Document module_GINF2.xml généré :

```
<?xml version="1.0" ?>
<!DOCTYPE Filiere_Niveau SYSTEM "../2_validation_DTD_XSD/Module.dtd">
- <Filiere_Niveau nom_de_filiere="GINF2">
  - <Module>
    <nomModule>POO et XML </nomModule>
    <departement>SIC</departement>
    <sousModule>Prge orientee objet : java</sousModule>
    <sousModule>XML et Applications</sousModule>
    <coordonateur>cord1</coordonateur>
  </Module>
  - <Module>
    <nomModule>Modelisation et IHM</nomModule>
    <departement>MI</departement>
    <sousModule>Modelisation orientee objet UML</sousModule>
    <sousModule>Interaction Homme Machine</sousModule>
    <coordonateur>cord2</coordonateur>
  </Module>
  - <Module>
    <nomModule>Bases de donnees avancees</nomModule>
    <departement>SIC</departement>
    <sousModule>Optimisation et Qualite</sousModule>
    <sousModule>Administration et Securite</sousModule>
    <sousModule>base de donnee distribue</sousModule>
    <coordonateur>cord3</coordonateur>
  </Module>
  - <Module>
    <nomModule>Administration et programmation systeme</nomModule>
    <departement>MI</departement>
    <sousModule>Administration Sys</sousModule>
    <sousModule>Programmation Sys</sousModule>
    <coordonateur>cord4</coordonateur>
  </Module>
  - <Module>
    <nomModule>Qualite et approche processus</nomModule>
    <departement>SIC</departement>
    <sousModule>Assurance controle quilite</sousModule>
    <sousModule>Cycle de vie et Methodes agiles</sousModule>
    <coordonateur>cord5</coordonateur>
  </Module>
  - <Module>
    <nomModule>Langues et communication 2</nomModule>
    <departement>SIC</departement>
    <sousModule>Espagnol 2</sousModule>
    <sousModule>Anglais professionnel</sousModule>
    <sousModule>Techniques de communication</sousModule>
    <coordonateur>cord6</coordonateur>
  </Module>
  - <Module>
    <nomModule>Technologies distribuees</nomModule>
    <departement>SIC</departement>
    <sousModule>Introduction a J2EE</sousModule>
    <sousModule>Programmation en C</sousModule>
    <coordonateur>cord7</coordonateur>
  </Module>
</Filiere_Niveau>
```



❖ note_GINF2.xsl

A	B	C	D	F	G	H	I	J	K
CodeModule	CNE	nom	prenom	CodeSousModule	NoteSousModule	CodeSousModule	NoteSousModule	note	num
GINF31	KB113243	Ghazi	chaymae	java	19 xml		20	19.5	1
GINF31	KB113244	Yahyaw	hasnae	java	10 xml		11	10.5	2
GINF31	KB113245	Bssillat	soumaya	java	11 xml		12	11.5	3
GINF31	KB113246	Ben ali	mohammed	java	12 xml		13	12.5	4
GINF31	KB113247	Yajour	hichame	java	13 xml		14	13.5	5
GINF31	KB113248	Hadraf	abd el illah	java	14 xml		15	14.5	6
GINF31	KB113249	Kaabi	abd samad	java	15 xml		16	15.5	7
GINF31	KB113250	Ziyach	souaad	java	16 xml		17	16.5	8
GINF31	KB113251	Ben atiya	yahya	java	17 xml		18	17.5	9
GINF31	KB113252	Hadad	siraj	java	18 xml		10	14	10
GINF31	KB113253	Fajr	jamila	java	19 xml		11	15	11
GINF31	KB113254	Hakimi	ishaa	java	20 xml		12	16	12
GINF31	KB113255	Hadadi	fayrouz	java	19 xml		13	16	13
GINF31	KB113256	Ben charki	joumana	java	18.5 xml		14	16.25	14
GINF31	KB113257	Ennssiri	ziyad	java	13.75 xml		14	13.875	15

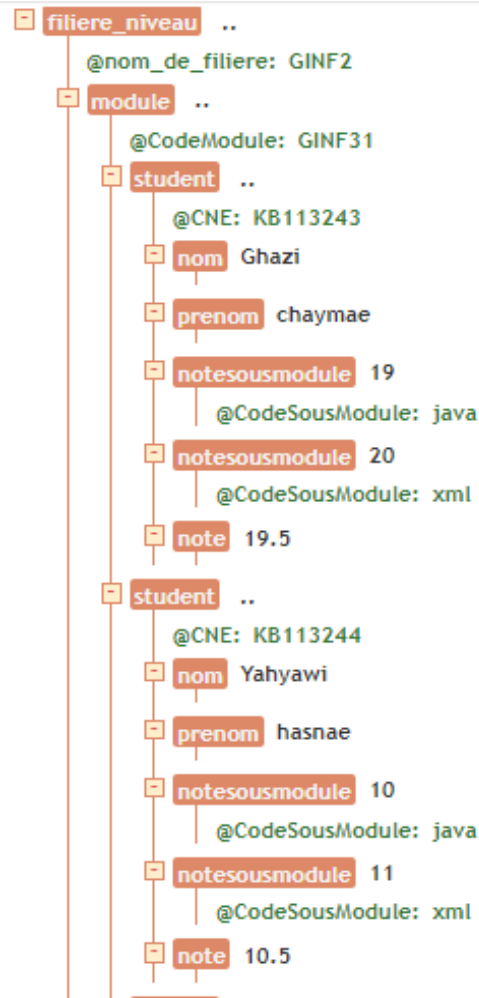
+Outil java de conversion :

```
import java.io.File;
import java.io.IOException;
import java.io.UnsupportedEncodingException;
import jxl.Cell;
import jxl.CellType;
import jxl.Sheet;
import jxl.Workbook;
import jxl.format.Font;
import jxl.read.biff.BiffException;

public class exceltoxmlnote
{
    public String toXml(File excelFile, String name,String name1) throws IOException, BiffException {
        try {
            String xmlLine = "";
            String rowText = "";
            String colText = "";
            String isBold = "";
            Font font = null;
            String cellCol = "";
            String cellAddress = "";
            Cell cell = null;
            Workbook workbook = Workbook.getWorkbook(excelFile);
            xmlLine += "<?xml version=\"1.0\" standalone=\"no\"?>\n";
            xmlLine += "<!DOCTYPE Filiere_Niveau SYSTEM \"../2_validation_DTD_XSD/Note.DTD\">\n";
            xmlLine += "<?xml-stylesheet href=\"../3_publication_des_pages_html/\"+name+\"s.xsl\" type=\"text/xsl\"?>\n";
            xmlLine += "<Filiere_Niveau_nom_de_filiere=\"GINF2\">\" + \"\n\n\";
            Sheet s = workbook.getSheet(0);
            Cell[] row = null;
            Cell[] col = null;
            col = s.getRow(0);
            for (int i = 0; i < s.getRows(); i++) {
                if (i==0) continue;
                row = s.getRow(i);
                for (int j = 1; j < row.length; j++) {
                    if (row[j].getContentType() != CellType.EMPTY) {
                        cell = row[j];
                        cellCol=columnName(cell.getColumn());
                        cellCol=columnName(cell.getColumn());
                        cellCol=" colLetters=\""+cellCol+"\"";
                        cellAddress=" address=\""+cellAddress(cell.getRow()+1,cell.getColumn())+"\"";
                        isBold = cell.getCellFormat().getFont().getBoldWeight() == 700 ? "true" : "false";
                        isBold = (isBold == "false"? "" : "isBold=\"true\"");
                    }
                    if(j==1)
                        colText += " <student "+col[j].getContents()+"="+cell.getContents()+">\n";
                        else if(j<46;j>1){
                            colText += " <"+col[j].getContents()+">";
                            colText += cell.getContents();
                            colText += "</"+col[j].getContents()+">\" + \"\n\";
                    rowText += cell.getContents();
                }
                else if(j==46;j<9){
                    colText += " <"+col[j+1].getContents()+" "+col[j].getContents()+"="+row[j].getContents()+">";
                    colText += row[j+1].getContents();
                    colText += "</"+col[j+1].getContents()+">\" + \"\n\";
                    rowText += cell.getContents();
                    j++; }
                else if(j==9){
                    colText += " <"+col[j].getContents()+">";
                    colText += cell.getContents();
                    colText += "</"+col[j].getContents()+">\" + \"\n\";
                    rowText += cell.getContents();
                    colText += " </student>\n\";
                }
            }
            if (rowText != "") {
                xmlLine += " <module "+col[0].getContents()+"="+row[0].getContents()+">\" + \"\n\";
                xmlLine += colText;
                xmlLine += "</module>\" + \"\n\n\";
            }
            colText = "";
            rowText = "";
            xmlLine += "</Filiere_Niveau>\";
            return xmlLine;
        }
    }
}
```

+Document note_GINF2.xml généré :

```
<?xml version="1.0"?>
<!DOCTYPE Filiere_Niveau SYSTEM "../2_validation_DTD_XSD/Note.DTD">
- <Filiere_Niveau nom_de_filiere="GINF2">
  - <module CodeModule="GINF31">
    - <student CNE="KB113243">
      <nom>Ghazi</nom>
      <prenom>chaymae</prenom>
      <NoteSousModule CodeSousModule="java">19</NoteSousModule>
      <NoteSousModule CodeSousModule="xml">20</NoteSousModule>
      <note>19.5</note>
    </student>
    - <student CNE="KB113244">
      <nom>Yahyawwi</nom>
      <prenom>hasnae</prenom>
      <NoteSousModule CodeSousModule="java">10</NoteSousModule>
      <NoteSousModule CodeSousModule="xml">11</NoteSousModule>
      <note>10.5</note>
    </student>
    - <student CNE="KB113245">
      <nom>Bssillat</nom>
      <prenom>soumaya</prenom>
      <NoteSousModule CodeSousModule="java">11</NoteSousModule>
      <NoteSousModule CodeSousModule="xml">12</NoteSousModule>
      <note>11.5</note>
    </student>
    - <student CNE="KB113246">
      <nom>Ben ali</nom>
      <prenom>mohammed</prenom>
      <NoteSousModule CodeSousModule="java">12</NoteSousModule>
      <NoteSousModule CodeSousModule="xml">13</NoteSousModule>
      <note>12.5</note>
    </student>
    - <student CNE="KB113247">
      <nom>Yajjour</nom>
      <prenom>hichame</prenom>
      <NoteSousModule CodeSousModule="java">13</NoteSousModule>
      <NoteSousModule CodeSousModule="xml">14</NoteSousModule>
      <note>13.5</note>
    </student>
    - <student CNE="KB113248">
      <nom>Hadraf</nom>
      <prenom>abd el illah</prenom>
      <NoteSousModule CodeSousModule="java">14</NoteSousModule>
      <NoteSousModule CodeSousModule="xml">15</NoteSousModule>
      <note>14.5</note>
    </student>
    - <student CNE="KB113249">
      <nom>Kaabi</nom>
      <prenom>abd samad</prenom>
      <NoteSousModule CodeSousModule="java">15</NoteSousModule>
      <NoteSousModule CodeSousModule="xml">16</NoteSousModule>
      <note>15.5</note>
    </student>
  </module>
</Filiere_Niveau>
```

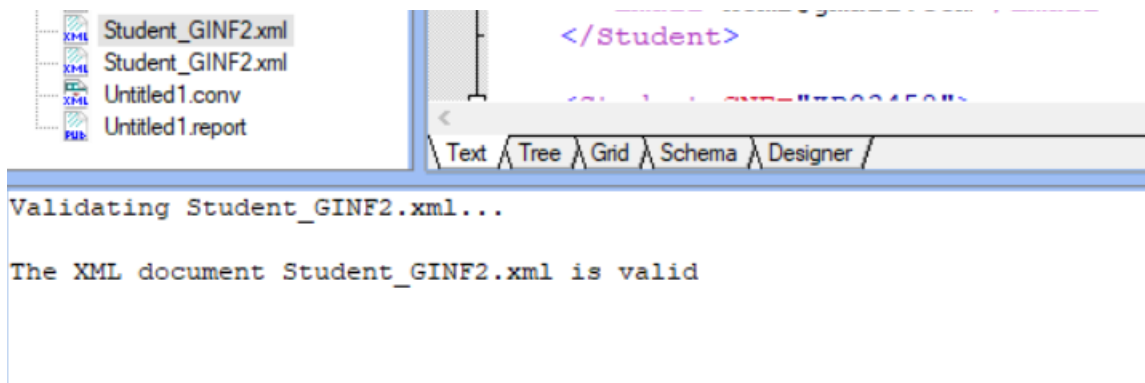


2. Validation des documents XML

- Les fichiers DTD créer et validation des fichiers XML
 - ❖ Student.dtd

```
Student.dtd X
Student.dtd > ...
1  <!ELEMENT Filiere_Niveau (Student+)>
2  <!ATTLIST Filiere_Niveau Nom (AP1|AP2|GINF1|GIL1|G3EI1|GSTR1|GSEA1|GINF2|
3  GIL2|G3EI2|GSTR2|GSEA2|GINF3|GIL3|G3EI3|GSTR3|GSEA3) #REQUIRED>
4  <!ELEMENT Student (FirstName, LastName, BirthDate, Td?, PhoneNum+, Email+)>
5  <!ATTLIST Student CNE ID #REQUIRED>
6  <!ELEMENT FirstName (#PCDATA)>
7  <!ELEMENT LastName (#PCDATA)>
8  <!ELEMENT BirthDate (#PCDATA)>
9  <!ELEMENT Td (#PCDATA)>
10 <!ELEMENT PhoneNum (#PCDATA)>
11 <!ELEMENT Email ANY>
12
```

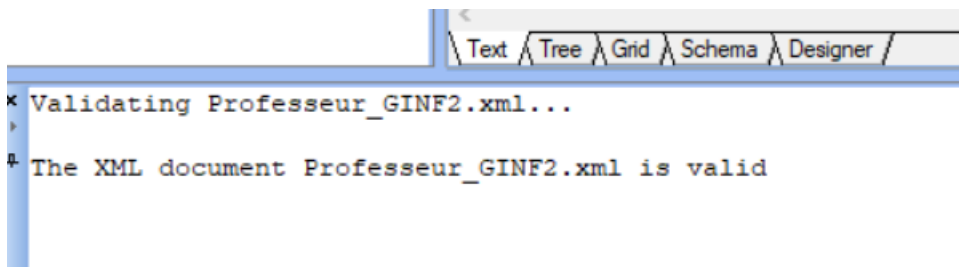
Validation de Student.xml :



❖ Professeur.dtd

```
Professeur.dtd X
Professeur.dtd > ...
1 <!ELEMENT Filiere_Niveau (Prof+)>
2 <!ATTLIST Filiere_Niveau Nom (AP1|AP2|GINF1|GIL1|G3EI1|GSTR1|GSEA1|
3 GINF2|GIL2|G3EI2|GSTR2|GSEA2|GINF3|GIL3|G3EI3|GSTR3|GSEA3) #REQUIRED>
4 <!ELEMENT Prof (FirstName, LastName, MatiereEnseigne+, PhoneNum+, Email+, departement)>
5 <!ELEMENT FirstName (#PCDATA)>
6 <!ELEMENT LastName (#PCDATA)>
7 <!ELEMENT MatiereEnseigne (nomMat, module)>
8 <!ELEMENT nomMat (#PCDATA)>
9 <!ELEMENT module (#PCDATA)>
10 <!ELEMENT PhoneNum (#PCDATA)>
11 <!ELEMENT Email ANY>
12
```

Validation de Professeur.xml :

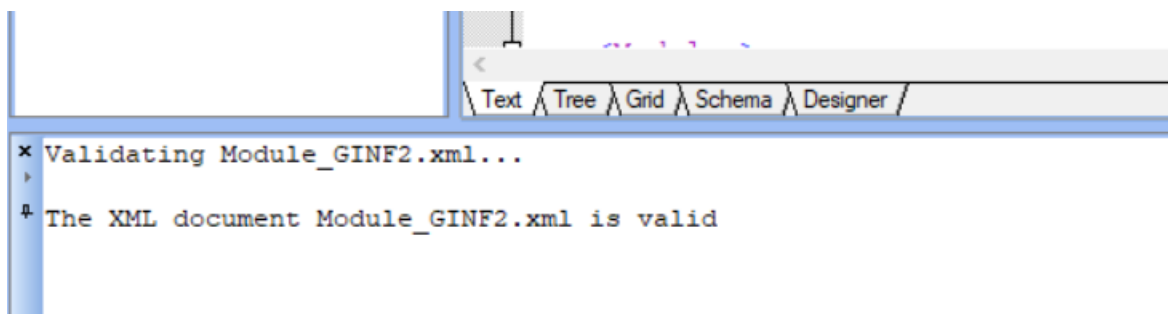


The screenshot shows a software interface with a menu bar containing 'Text', 'Tree', 'Grid', 'Schema', and 'Designer'. Below the menu, a status bar displays the message: 'Validating Professeur_GINF2.xml...' followed by 'The XML document Professeur_GINF2.xml is valid'.

❖ Module.dtd

```
Module.dtd X
Module.dtd > ...
1 <!ELEMENT Filiere (Module+)>
2 <!ATTLIST Filiere NomFiliere (AP1|AP2|GINF1|GIL1|G3EI1|GSTR1|GSEA1|GINF2|
3 GIL2|G3EI2|GSTR2|GSEA2|GINF3|GIL3|G3EI3|GSTR3|GSEA3) #REQUIRED>
4 <!ELEMENT Module (nomModule, departement, sousModule1*, coordinateur)>
5 <!ELEMENT nomModule (#PCDATA)>
6 <!ELEMENT departement (#PCDATA)>
7 <!ELEMENT coordinateur (#PCDATA)>
8 <!ELEMENT sousModule (nomSsM)>
9 <!ELEMENT nomSsM (#PCDATA)>
10
```

Validation de Module.xml :



❖ Note.dtd

```
Note.dtd  X
Note.dtd > ...
1  <!ELEMENT Filiere_Niveau (module+)>
2  <!ATTLIST Filiere_Niveau nom (AP1|AP2|GINF1|GIL1|G3EI1|GSTR1|GSEA1
3  |GINF2|GIL2|G3EI2|GSTR2|GSEA2|GINF3|GIL3|G3EI3|GSTR3|GSEA3) #REQUIRED>
4  <!ELEMENT module (student+)>
5  <!ATTLIST module CodeModule CDATA #REQUIRED>
6  <!ELEMENT student (nom, prenom, NoteSousModule*, note)>
7  <!ATTLIST student CNE ID #REQUIRED>
8  <!ELEMENT nom (#PCDATA)>
9  <!ELEMENT prenom (#PCDATA)>
10 <!ELEMENT NoteSousModule (#PCDATA)>
11 <!ATTLIST NoteSousModule CodeSousModule CDATA #REQUIRED>
12 <!ELEMENT note (#PCDATA)>
13
```

Validation de Note.xml :

```
x Validating note_ginf2.xml...
  ▶
  ♣ The XML document note_ginf2.xml is valid
```

- Les fichiers XSD créer et validation des fichiers XML

❖ Student.xsd

Règles proposées de validation :

- FirstName et LastName ne sont pas de type alphanumérique.
- le CNE est sous la forme : une lettre majuscule + 9 chiffres.
- Le numéro de téléphone est sous la forme 0+ 6 ou 7 + 8 chiffres.

Student.xsd

Student.xsd > xs:schema > xs:element > xs:complexType > xs:sequence

```

1  <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
2    <xs:element name="Filiere_Niveau">
3      <xs:complexType>
4        <xs:sequence>
5          <xs:element maxOccurs="unbounded" ref="Student"/>
6        </xs:sequence>
7        <xs:attribute name="Filiere_Niveau" use="required" type="xs:NCName"/>
8      </xs:complexType>
9    </xs:element>
10   <xs:simpleType name="nameType">
11     <xs:restriction base="xs:string">
12       <xs:pattern value="[a-zA-Z]+"></xs:pattern>
13       <xs:whiteSpace value="preserve"></xs:whiteSpace>
14       <xs:maxLength value="20" />
15     </xs:restriction>
16   </xs:simpleType>
17   <xs:simpleType name="CNEType">
18     <xs:restriction base="xs:NMTOKEN">
19       <xs:pattern value="[A-Z][0-9]{9}"></xs:pattern>
20     </xs:restriction>
21   </xs:simpleType>
22   <xs:element name="Student">
23     <xs:complexType>
24       <xs:sequence>
25         <xs:element name="FirstName" type="nameType"></xs:element>
26         <xs:element name="LastName" type="nameType"></xs:element>
27         <xs:element name="BirthDate" type="xs:date"></xs:element><!-- yyyy-mm-jj-->
28         <xs:element name="Td" type="xs:string"></xs:element>
29         <xs:element name="PhoneNum">
30           <xs:simpleType>
31             <xs:restriction base="xs:NMTOKEN">
32               <xs:pattern value="[0][6 7][0-9]{8}"></xs:pattern>
33             </xs:restriction>
34           </xs:simpleType>
35         </xs:element>
36         <xs:element name="Email" type="xs:string"></xs:element>
37       </xs:sequence>
38       <xs:attribute name="CNE" use="required" type="CNEType"/>
39     </xs:complexType>
40   </xs:element>

```

❖ Module.xsd

Règles proposées de validation :

- Un module peut avoir aucun sous module ou au maximum 3 sous modules.

```
Module.xsd X
Module.xsd > {} Grammars > file:/C:/Users/hp/.lemminx/cache/http/www.w3.org/2001/XMLSchema.xsd > Binding: with
1
2 <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
3   <xs:element name="Filiere_Niveau">
4     <xs:complexType>
5       <xs:sequence>
6         <xs:element maxOccurs="unbounded" ref="module"/>
7       </xs:sequence>
8       <xs:attribute name="Filiere_Niveau" use="required" type="xs:NCName"/>
9     </xs:complexType>
10  </xs:element>
11
12  <xs:element name="module">
13    <xs:complexType>
14      <xs:sequence>
15        <xs:element name="nomModule" type="xs:string"/>
16        <xs:element name="departement" type="xs:string"/>
17        <xs:element name="coordinateur" type="xs:string"/>
18        <xs:element minOccurs="0" maxOccurs="3" ref="sousModule"/>
19      </xs:sequence>
20    </xs:complexType>
21  </xs:element>
22
23  <xs:element name="sousModule">
24    <xs:complexType>
25      <xs:sequence>
26        <xs:element name="nomSsM" type="xs:string"/>
27      </xs:sequence>
28    </xs:complexType>
29  </xs:element>
30 </xs:schema>
31
```

❖ Note.xsd

Règles proposées de validation :

- En plus que les contraintes sur le CNE, firstName et LastName .Une note doit être comprise entre 0 et 20.

```

Note.xsd X
Note.xsd > {} Grammars > file:/C:/Users/hp/lemminx/cache/http/www.w3.org/2001/XMLSchema.xsd > Binding: with embedded xml.xsd
1  <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
2
3      <xs:element name="Filiere_Niveau">
4          <xs:complexType>
5              <xs:sequence>
6                  <xs:element maxOccurs="unbounded" ref="module"/>
7              </xs:sequence>
8              <xs:attribute name="Filiere_Niveau" use="required" type="xs:NCName"/>
9          </xs:complexType>
10     </xs:element>
11
12     <xs:element name="module">
13         <xs:complexType>
14             <xs:sequence>
15                 <xs:element maxOccurs="unbounded" ref="student"/>
16                 <xs:element name="NoteSousModule" type="typeSousModule" minOccurs="0" maxOccurs="3" />
17                 <xs:element name="note" type="noteType"/>
18             </xs:sequence>
19         </xs:complexType>
20     </xs:element>
21
22     <xs:simpleType name="nameType">
23         <xs:restriction base="xs:string">
24             <xs:pattern value="[a-zA-Z]+"></xs:pattern>
25             <xs:whiteSpace value="preserve"></xs:whiteSpace>
26             <xs:maxLength value="20" />
27         </xs:restriction>
28     </xs:simpleType>
29
30     <xs:simpleType name="CNEType">
31         <xs:restriction base="xs:NMTOKEN">
32             <xs:pattern value="[A-Z][0-9]{9}"></xs:pattern>
33         </xs:restriction>
34     </xs:simpleType>
35
36     <xs:simpleType name="noteType">
37         <xs:restriction base="xs:integer">
38             <xs:minInclusive value="0"/>
39             <xs:maxInclusive value="20"/>
40         </xs:restriction>
41     </xs:simpleType>
42
43     <xs:complexType name="typeSousModule">
44         <xs:simpleContent>
45             <xs:extension base="xs:float">
46                 <xs:attribute name="CodeSousModule" use="required" type="xs:string"/>
47             </xs:extension>
48         </xs:simpleContent>
49     </xs:complexType>
50
51     <xs:element name="student">
52         <xs:complexType>
53             <xs:sequence>
54                 <xs:element name="nom" type="nameType"/>
55                 <xs:element name="nom" type="nameType"/>
56             </xs:sequence>
57             <xs:attribute name="CNE" use="required" type="CNEType"/>
58         </xs:complexType>
59     </xs:element>
60
61 </xs:schema>

```

3. Publication des pages html pour un module (Exemple GINF31)

❖ Note.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="//Filiere_Niveau">
    <html>
      <head>
        <title>Affichage GINF2</title>
      </head>
      <body>
        <table align="center" border="1" text-align="center" width= "400px" >
          <thead>
            <tr bgcolor="#8CE6FF"><th colspan="5"><xsl:value-of select="//Filiere_Niveau/@nom_de_filiere"/></th></tr>
            <tr bgcolor="#8CE6FF"><th colspan="5"><xsl:value-of select="//Filiere_Niveau/module/@CodeModule"/></th></tr>
            <tr bgcolor="#8CE6FF">
              <th style="text-align:center;padding: 0.3em;border-bottom: 1px solid #999;">Nom</th>
              <th style="text-align:center;padding: 0.3em;border-bottom: 1px solid #999;">Prenom</th>
              <xsl:for-each select="//Filiere_Niveau/module/student[1]/NoteSousModule">
                <th style="text-align:center;padding: 0.3em;border-bottom: 1px solid #999;"><xsl:value-of select="@CodeSousModule"/></th>
              </xsl:for-each>
              <th style="text-align:center;padding: 0.3em;border-bottom: 1px solid #999;">note Finale</th>
            </tr>
          </thead>
          <tbody>
            <xsl:for-each select="//Filiere_Niveau/module[@CodeModule='GINF31']/student">
              <tr>
                <td><xsl:value-of select="nom"/></td>
                <td><xsl:value-of select="prenom"/></td>
                <td><xsl:value-of select="NoteSousModule[1]"/></td>
                <td><xsl:value-of select="NoteSousModule[2]"/></td>
                <xsl:choose>
                  <xsl:when test="note > 12">
                    <td bgcolor="green"><xsl:value-of select="note"/></td>
                  </xsl:when>
                  <xsl:when test="note < 8">
                    <td bgcolor="red"><xsl:value-of select="note"/></td>
                  </xsl:when>
                  <xsl:otherwise>
                    <td bgcolor="orange"><xsl:value-of select="note"/></td>
                  </xsl:otherwise>
                </xsl:choose>
              </tr>
            </xsl:for-each>
          </tbody>
        </table>
        <form action="NoteRatt2.xml" style="margin-left:44%; margin-top:20px;">
          <input align="center" type="submit" name="submit" value="Liste de rattrapages"/>
        </form>
      </body>
    </html>
  </xsl:template>
</xsl:stylesheet>
```

Ajout de lien dans le fichier Note_GINF2.xml :

```
<?xml version="1.0" standalone="no"?>
<?xml-stylesheet href="note.xml" type="text/xsl"?>
```

Résultat (ouverture du document Note_GINF2.xml avec internet explorer) :

GINF2				
GINF31				
Nom	Prenom	java	xml	note Finale
Ghazi	chaymae	19	20	19.5
Yahyaw	hasnae	10	11	10.5
Bssillat	soumaya	11	12	11.5
Ben ali	mohammed	12	13	12.5
Yajour	hichame	13	14	13.5
Hadraf	abd el illah	14	15	14.5
Kaabi	abd samad	15	16	15.5
Ziyach	souaad	16	17	16.5
Ben atiya	yahya	17	18	17.5
Hadad	siraj	18	10	14
Fajr	jamila	19	11	15
Hakimi	ishaa	20	12	16
Hadadi	fayrouz	19	13	16
Ben charki	joumana	18.5	14	16.25
Ennssiri	ziyad	5	5	5

Liste de rattrapages

Et puis la liste des Rattrapage de cette liste :

```
noteRatt.xsl > xsl:stylesheet > xsl:template > html > head
1 <?xml version="1.0" encoding="UTF-8"?>
2 <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
3   <xsl:template match="/Filiere_Niveau">
4     <html>
5       <head>
6         <title>Liste de Rattrapage</title>
7       </head>
8       <body>
9         <table align="center" border="1" text-align="center" width="400px">
10           <thead>
11             <tr bgcolor="#BCE6FF">
12               <th colspan="5"><xsl:value-of select="/Filiere_Niveau/nom_de_filiere"/></th></tr>
13             <tr bgcolor="#BCE6FF">
14               <th style="text-align:center;padding: 0.3em;border-bottom: 1px solid #999;">Nom</th>
15               <th style="text-align:center;padding: 0.3em;border-bottom: 1px solid #999;">Prenom</th>
16               <xsl:for-each select="/Filiere_Niveau/module/student[1]/NoteSousModule">
17                 <th style="text-align:center;padding: 0.3em;border-bottom: 1px solid #999;"><xsl:value-of select="@CodeSousModule"/></th>
18               </xsl:for-each>
19               <th style="text-align:center;padding: 0.3em;border-bottom: 1px solid #999;">note Finale</th>
20             </tr>
21           </thead>
22           <tbody>
23             <xsl:for-each select="/Filiere_Niveau/module[@CodeModule='GINF31']/student">
24               <xsl:choose>
25                 <xsl:when test="note < 12">
26                   <tr>
27                     <td><xsl:value-of select="nom"/></td>
28                     <td><xsl:value-of select="prenom"/></td>
29                     <td><xsl:value-of select="NoteSousModule[1]"/></td>
30                     <td><xsl:value-of select="NoteSousModule[2]"/></td>
31                     <td><xsl:value-of select="note"/></td>
32                   </tr>
33                 </xsl:when>
34                 <xsl:otherwise>
35                   <tr>
36                     <td><xsl:value-of select="nom"/></td>
37                     <td><xsl:value-of select="prenom"/></td>
38                     <td><xsl:value-of select="NoteSousModule[1]"/></td>
39                     <td><xsl:value-of select="NoteSousModule[2]"/></td>
40                     <td><xsl:value-of select="note"/></td>
41                   </tr>
42                 </xsl:otherwise>
43               </xsl:choose>
44             </xsl:for-each>
45           </tbody>
46         </table>
47       </body>
48     </html>
49   </xsl:template>
50 </xsl:stylesheet>
```

Résultat :

GINF2				
GINF31				
Nom	Prenom	java	xml	note Finale
Yahyawwi	hasnae	10	11	10.5
Bssillat	soumaya	11	12	11.5
Ennssiri	ziyad	5	5	5

4. Publication sous format PDF (utilisation de XPath et XSLT-FO et XQuery).

❖ Carte_etudiant.xsl

```

1 <?xml version="1.0"?>
2 <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:s="http://www.stylusstudio.com/xquery">
3 <xsl:template match="/">
4 <fo:root xmlns:fo="http://www.w3.org/1999/XSL/Format">
5 <fo:layout-master-set>
6 <fo:simple-page-master master-name="default-page" page-height="7.3in" page-width="7.5in" margin-left="0.6in" margin-right="0.6in">
7 <fo:region-body/>
8 </fo:simple-page-master>
9 </fo:layout-master-set>
10 <fo:page-sequence master-reference="default-page">
11 <fo:flow flow-name="xsl-region-body">
12 <fo:block>
13 <fo:block>
14 <fo:block text-align="center">
15 <fo:block>
16 <fo:inline font-size="12pt" font-weight="bold" color="#0000FF">
17 <fo:block font-size="12pt" font-weight="bold" text-align="right" color="#0000FF">
18 <fo:block>
19 <fo:inline font-size="12pt" font-weight="bold" color="#0000FF">
20 <fo:block text-align="left">
21 <fo:block>
22 <fo:block text-align="right">
23 <fo:block>
24 <fo:block text-align="right">
25 <fo:block>
26 <fo:block text-align="right">
27 <fo:block>
28 <fo:external-graphic background="transparent" width="100pt" />
29 </fo:block>
30 </fo:block>
31 </fo:block>
32 </fo:block>
33 <fo:block text-align="left">
34 <fo:block>
35 <fo:external-graphic background="transparent" width="140pt" content="v" />
36 </fo:block>
37 </fo:block>
38 </fo:block>
39 </fo:block>
40 </fo:flow>
41 </fo:page-sequence>
42 </fo:root>
43 </xsl:template>
44 </xsl:stylesheet>
45
46 <fo:inline font-size="12pt" font-weight="bold" color="#0000FF">
47 <xsl:text>Ecole Nationale des Sciences AppliquéesTanger</xsl:text>
48 </fo:inline>
49 </fo:block>
50 </fo:flow>
51 </fo:page-sequence>
52 </fo:root>
53 </xsl:template>
54 </xsl:stylesheet>
55
56 <fo:inline font-size="12pt" font-weight="bold" color="#0000FF">
57 <fo:block font-size="12pt" font-weight="bold" text-align="center" color="#0000FF">
58 <fo:block margin-top="20pt">
59 <fo:inline font-size="12pt" font-weight="bold" color="#0000FF">
60 <xsl:text>CARTE D'ETUDIANT</xsl:text>
61 </fo:inline>
62 </fo:block>
63 </fo:block>
64 </fo:flow>
65 </fo:root>
66 </xsl:template>
67 </xsl:stylesheet>
68
69 <fo:block>
70 <xsl:text>&xA0</xsl:text>
71 </fo:block>
72 <fo:block>
73 <xsl:text>&xA0</xsl:text>
74 </fo:block>
75 <fo:block>
76 <xsl:text>&xA0</xsl:text>
77 </fo:block>
78 </fo:flow>
79 </fo:root>
80 </xsl:template>
81 </xsl:stylesheet>
82
83 <fo:table width="100%" border-style="none" border-width="0pt" background-repeat="repeat">
84 <fo:table-cell border="1pt" text-align="center">
85 <fo:block>
86 <xsl:text>CNE</xsl:text>
87 </fo:block>
88 </fo:table-cell>
89 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
90 <fo:block text-align="left">
91 <fo:block>
92 <xsl:value-of select="/filliere_niveau/Student[1]/CNE"/>
93 </fo:block>
94 </fo:table-cell>
95 </fo:table-row>
96 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
97 <fo:block>
98 <fo:block>
99 <xsl:value-of select="/filliere_niveau/Student[1]/CNE"/>
100 </fo:block>
101 </fo:table-cell>
102 </fo:table-row>
103 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
104 <fo:block font-size="14pt" text-align="center">
105 <fo:block>
106 <xsl:text>&xA0</xsl:text>
107 </fo:block>
108 </fo:table-cell>
109 </fo:table-row>
110 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
111 <fo:block>
112 <xsl:value-of select="/filliere_niveau/Student[1]/FirstName"/>
113 </fo:block>
114 </fo:table-cell>
115 </fo:table-row>
116 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
117 <fo:block>
118 <xsl:value-of select="/filliere_niveau/Student[1]/LastName"/>
119 </fo:block>
120 </fo:table-cell>
121 </fo:table-row>
122 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
123 <fo:block font-size="14pt" text-align="center">
124 <fo:block>
125 <xsl:text>&xA0</xsl:text>
126 </fo:block>
127 </fo:table-cell>
128 </fo:table-row>
129 </fo:table>
130 </fo:flow>
131 </fo:root>
132 </xsl:template>
133 </xsl:stylesheet>
134
135 <fo:table width="100%" border-style="none" border-width="0pt" background-repeat="repeat">
136 <fo:table-cell border="1pt" text-align="center">
137 <fo:block>
138 <xsl:text>CNE</xsl:text>
139 </fo:block>
140 </fo:table-cell>
141 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
142 <fo:block text-align="left">
143 <fo:block>
144 <xsl:value-of select="/filliere_niveau/Student[1]/CNE"/>
145 </fo:block>
146 </fo:table-cell>
147 </fo:table-row>
148 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
149 <fo:block>
150 <fo:block>
151 <xsl:value-of select="/filliere_niveau/Student[1]/CNE"/>
152 </fo:block>
153 </fo:table-cell>
154 </fo:table-row>
155 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
156 <fo:block font-size="14pt" text-align="center">
157 <fo:block>
158 <xsl:text>&xA0</xsl:text>
159 </fo:block>
160 </fo:table-cell>
161 </fo:table-row>
162 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
163 <fo:block>
164 <xsl:value-of select="/filliere_niveau/Student[1]/FirstName"/>
165 </fo:block>
166 </fo:table-cell>
167 </fo:table-row>
168 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
169 <fo:block>
170 <xsl:value-of select="/filliere_niveau/Student[1]/LastName"/>
171 </fo:block>
172 </fo:table-cell>
173 </fo:table-row>
174 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
175 <fo:block font-size="14pt" text-align="center">
176 <fo:block>
177 <xsl:text>&xA0</xsl:text>
178 </fo:block>
179 </fo:table-cell>
180 </fo:table-row>
181 </fo:table>
182 </fo:flow>
183 </fo:root>
184 </xsl:template>
185 </xsl:stylesheet>
186
187 <fo:table width="100%" border-style="none" border-width="0pt" background-repeat="repeat">
188 <fo:table-cell border="1pt" text-align="center">
189 <fo:block>
190 <xsl:text>CNE</xsl:text>
191 </fo:block>
192 </fo:table-cell>
193 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
194 <fo:block text-align="left">
195 <fo:block>
196 <xsl:value-of select="/filliere_niveau/Student[1]/CNE"/>
197 </fo:block>
198 </fo:table-cell>
199 </fo:table-row>
200 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
201 <fo:block>
202 <fo:block>
203 <xsl:value-of select="/filliere_niveau/Student[1]/CNE"/>
204 </fo:block>
205 </fo:table-cell>
206 </fo:table-row>
207 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
208 <fo:block font-size="14pt" text-align="center">
209 <fo:block>
210 <xsl:text>&xA0</xsl:text>
211 </fo:block>
212 </fo:table-cell>
213 </fo:table-row>
214 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
215 <fo:block>
216 <xsl:value-of select="/filliere_niveau/Student[1]/FirstName"/>
217 </fo:block>
218 </fo:table-cell>
219 </fo:table-row>
220 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
221 <fo:block>
222 <xsl:value-of select="/filliere_niveau/Student[1]/LastName"/>
223 </fo:block>
224 </fo:table-cell>
225 </fo:table-row>
226 <fo:table-cell border-style="none" border-width="2pt" padding="2pt" background-repeat="repeat" display="a">
227 <fo:block font-size="14pt" text-align="center">
228 <fo:block>
229 <xsl:text>&xA0</xsl:text>
230 </fo:block>
231 </fo:table-cell>
232 </fo:table-row>
233 </fo:table>
234 </fo:flow>
235 </fo:root>
236 </xsl:template>
237 </xsl:stylesheet>
238
239 <fo:table width="100%" border-style="none" border-width="0pt" background-repeat="repeat">
240 <fo:table-cell border="1pt" text-align="center">
241 <fo:block>
242 <xsl:text>CNE</xsl:text>
243 </fo:block>
244 </fo:table-cell>
245
```


Document PDF généré :



Ecole Nationale des Sciences Appliquées Tanger

CARTE D'ETUDIANT

CNE	KB23456
Nom Complet	chaymaeGhazi
Date de naissance	01/01/2000

XML to PDF by RenderX XEP XSL-FO Formatter, visit us at <http://www.renderx.com/>

C:\Use
5.Elab
Intern

2. Emploi du temp (GINF2 : exemple la semaine 4 avant CC2)

❖ Emploi_du_temp.xsl

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
3   xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0">
4   <xsl:template match="Modules">
5     <fo:root xmlns:fo="http://www.w3.org/1999/XSL/Format">
6       <fo:layout-master-set>
7         <fo:simple-page-master master-name="A4" margin-left="1cm" margin-right="1cm"
8           margin-bottom="1cm" margin-top="1cm" page-width="47cm" page-height="32cm">
9           <fo:region-body margin-bottom="0cm" margin-top="0cm" margin-left="0cm"
10            margin-right="0cm"/>
11         </fo:simple-page-master>
12       </fo:layout-master-set>
13       <fo:page-sequence master-reference="A4">
14         <fo:flow flow-name="xsl-region-body">
15           <fo:table-and-caption>
16             <fo:table>
17               <fo:table-column column-width="2cm"/>
18               <fo:table-column column-width="6cm"/>
19               <fo:table-column column-width="6cm"/>
20               <fo:table-column column-width="6cm"/>
21               <fo:table-column column-width="6cm"/>
22               <fo:table-column column-width="6cm"/>
23               <fo:table-column column-width="6cm"/>
24               <fo:table-column column-width="6cm"/>
25               <fo:table-header>
26                 <fo:table-row>
27                   <fo:table-cell border="1pt solid blue" padding="6pt"
28                     text-align="center">
29                     <fo:block font-weight="bold" color="green">jours</fo:block>
30                     <fo:block font-weight="bold" color="green">Temps</fo:block>
31                   </fo:table-cell>
32                   <fo:table-cell border="1pt solid blue" padding="6pt"
33                     text-align="center">
34                     <fo:block font-weight="bold" color="blue">Lundi</fo:block>
35                     <fo:block font-weight="bold">23/11</fo:block>
36                   </fo:table-cell>
37                   <fo:table-cell border="1pt solid blue" padding="6pt"
38                     text-align="center">
39                     <fo:block font-weight="bold" color="blue">Mardi</fo:block>
40                     <fo:table-cell border="1pt solid blue" padding="6pt"
41                       text-align="center">
42                         <fo:block font-weight="bold" color="#6a5acd"
43                           margin-top="0.5cm">CM - 09:00 - 10:30</fo:block>
44                         <fo:block font-weight="bold" margin-top="0.5cm">
45                           <xsl:value-of select="/Filiere_Niveau/Module[5]/sousModule[2]"/>
46                         </fo:block>
47                         <fo:block margin-top="0.5cm">Bdir</fo:block>
48                         <fo:block margin-top="0.5cm">SalleB19</fo:block>
49                       </fo:table-cell>
50                   <fo:table-cell border="1pt solid blue" padding="6pt"
51                     text-align="center">
52                     <fo:block font-weight="bold" color="#6a5acd"
53                       margin-top="0.5cm">CM - 09:00 - 10:30</fo:block>
54                     <fo:block font-weight="bold" margin-top="0.5cm">
55                       <xsl:value-of select="/Filiere_Niveau/Module[3]/sousModule[3]"/>
56                     </fo:block>
57                     <fo:block margin-top="0.5cm">Fissoune</fo:block>
58                     <fo:block margin-top="0.5cm">SalleB20</fo:block>
59                   </fo:table-cell>
60                   <fo:table-cell border="1pt solid blue" padding="6pt"
61                     text-align="center">
62                     <fo:block font-weight="bold" color="#6a5acd"
63                       margin-top="0.5cm">CM - 09:00 - 10:30</fo:block>
64                     <fo:block font-weight="bold" margin-top="0.5cm">
65                       <xsl:value-of select="/Filiere_Niveau/Module[1]/sousModule[2]"/>
66                     </fo:block>
67                     <fo:block margin-top="0.5cm">El hadad</fo:block>
68                     <fo:block margin-top="0.5cm">SalleB19</fo:block>
69                   </fo:table-cell>
70                   <fo:table-cell border="1pt solid blue" padding="6pt"
71                     text-align="center">
72                     <fo:block font-weight="bold" color="#6a5acd"
73                       margin-top="0.5cm">CM - 09:00 - 10:30</fo:block>
74                     <fo:block font-weight="bold" margin-top="0.5cm">
75                       <xsl:value-of select="/Filiere_Niveau/Module[2]/sousModule[2]"/>
76                     </fo:block>
77                     <fo:block margin-top="0.5cm">El Alami</fo:block>
78                     <fo:block margin-top="0.5cm">SalleB19</fo:block>
79                   </fo:table-cell>
80                 </fo:table-row>
81               </fo:table-header>
82               <fo:table-body>
83                 <fo:table-row>
84                   <fo:table-cell border="1pt solid blue" padding="6pt"
85                     text-align="center">
86                     <fo:block font-weight="bold" color="green">jours</fo:block>
87                     <fo:block font-weight="bold" color="green">Temps</fo:block>
88                   </fo:table-cell>
89                   <fo:table-cell border="1pt solid blue" padding="6pt"
90                     text-align="center">
91                     <fo:block font-weight="bold" color="blue">Lundi</fo:block>
92                     <fo:block font-weight="bold">23/11</fo:block>
93                   </fo:table-cell>
94                   <fo:table-cell border="1pt solid blue" padding="6pt"
95                     text-align="center">
96                     <fo:block font-weight="bold" color="blue">Mardi</fo:block>
97                     <fo:table-cell border="1pt solid blue" padding="6pt"
98                       text-align="center">
99                         <fo:block font-weight="bold" color="#6a5acd"
100                           margin-top="0.5cm">CM - 09:00 - 10:30</fo:block>
101                         <fo:block font-weight="bold" margin-top="0.5cm">
102                           <xsl:value-of select="/Filiere_Niveau/Module[5]/sousModule[2]"/>
103                         </fo:block>
104                         <fo:block margin-top="0.5cm">Bdir</fo:block>
105                         <fo:block margin-top="0.5cm">SalleB19</fo:block>
106                       </fo:table-cell>
107                   <fo:table-cell border="1pt solid blue" padding="6pt"
108                     text-align="center">
109                     <fo:block font-weight="bold" color="#6a5acd"
110                       margin-top="0.5cm">CM - 09:00 - 10:30</fo:block>
111                     <fo:block font-weight="bold" margin-top="0.5cm">
112                       <xsl:value-of select="/Filiere_Niveau/Module[3]/sousModule[3]"/>
113                     </fo:block>
114                     <fo:block margin-top="0.5cm">Fissoune</fo:block>
115                     <fo:block margin-top="0.5cm">SalleB20</fo:block>
116                   </fo:table-cell>
117                   <fo:table-cell border="1pt solid blue" padding="6pt"
118                     text-align="center">
119                     <fo:block font-weight="bold" color="#6a5acd"
120                       margin-top="0.5cm">CM - 09:00 - 10:30</fo:block>
121                     <fo:block font-weight="bold" margin-top="0.5cm">
122                       <xsl:value-of select="/Filiere_Niveau/Module[1]/sousModule[2]"/>
123                     </fo:block>
124                     <fo:block margin-top="0.5cm">El hadad</fo:block>
125                     <fo:block margin-top="0.5cm">SalleB19</fo:block>
126                   </fo:table-cell>
127                   <fo:table-cell border="1pt solid blue" padding="6pt"
128                     text-align="center">
129                     <fo:block font-weight="bold" color="#6a5acd"
130                       margin-top="0.5cm">CM - 09:00 - 10:30</fo:block>
131                     <fo:block font-weight="bold" margin-top="0.5cm">
132                       <xsl:value-of select="/Filiere_Niveau/Module[2]/sousModule[2]"/>
133                     </fo:block>
134                     <fo:block margin-top="0.5cm">El Alami</fo:block>
135                     <fo:block margin-top="0.5cm">SalleB19</fo:block>
136                   </fo:table-cell>
137                 </fo:table-row>
138               </fo:table-body>
139             </fo:table>
140           </fo:table-and-caption>
141         </fo:flow>
142       </fo:page-sequence>
143     </fo:root>
144   </xsl:template>
145 </xsl:stylesheet>

```

C:\Users\Elitebook\Documents\projet_xml\5_elaboration_des_lists_tp\grpe1.xml - Internet Explorer

Document PDF généré :

emploi du temps semaine 03 annee 2022

jour/temp	Lundi 17/01	Mardi 18/01	mercredi 19/01	jeudi 20/01	vendredi 20/01
9:00	CM-09h00-10h30	CM-09h00-10h30	CM-09h00-10h30	CM-09h00-10h30	CM-09h00-10h30
9:30	Cycle de vie et Methodes agiles	Base de donnees NoSql	Prge orientee objet : java	Interaction Homme Machine	Espagnol 2
10:00	Badir	Fissoun	ElHaddad	ElAlami	LaAmarti
10:30	salleB19	SalleB20	SalleB19	SalleB19	SalleB22
11:00	CM-11h00-12h30	TP-09h00-10h30	CM-09h00-10h30	TD-09h00-10h30	
11:30	Cycle de vie et Methodes agiles	Base de donnees NoSql	Prge orientee objet : java	Interaction Homme Machine	
12:00	Badir	Fissoun	ElHaddad	ElAlami	
12:30	SalleB19	SalleB20	SalleB19	SalleB19	
13:00					
13:30					
14:00	TD-14h00-15h30	TP-14h00-15h30	CM-14h00-15h30	CM-14h00-15h30	CM-14h00-15h30
14:30	Modelisation orientee objet UML	Administration Sys	Programmation Sys	Techniques de communication	Assurance controle qualite
15:00	ElAlami	Kamechnoue	Kamechnoue	Zaamoumi	RaiHali
15:30	SalleB19	SalleB19	SalleB1	SalleC1	SalleB19
16:00	TD-16h00-17h30	TP-16h00-17h30		CM-14h00-15h30	CM-14h00-15h30
16:30	Modelisation orientee objet UML	Programmation Sys		Techniques de communication	Optimisation et Qualite
16:00	ElAlami	Kamechnoue		Zaamoumi	RaiHali
17:30	SalleB19	SalleB19		SalleC1e	SalleB19

Document PDF généré par le système

3&4. Relevé de notes (pour toute la classe de GINF2)

❖ Relevé_notes_pour_tout_laclasse.xsl

```
<?xml version="1.0" encoding="utf-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:s="http://www.stylusstudio.com/xquery">

  <xsl:template match="Notes">
    <fo:root xmlns:fo="http://www.w3.org/1999/XSL/Format">
      <fo:layout-master-set>
        <fo:simple-page-master master-name="default-page" margin-left="0cm" margin-right="0cm"
          margin-bottom="1cm" margin-top="0cm" page-width="20cm" page-height="25cm">
          <fo:region-body margin-bottom="2cm" margin-top="2cm" margin-left="3cm"
            margin-right="3cm"/>
        </fo:simple-page-master>
        <fo:page-sequence-master master-name="A2">
          <fo:repeatable-page-master-reference master-reference="default-page"
            maximum-repeats="no-limit"/>
        </fo:page-sequence-master>
      </fo:layout-master-set>
      <xsl:for-each select="Student">
        <fo:page-sequence master-reference="default-page">
          <fo:flow flow-name="xsl-region-body">
            <fo:block>
              <fo:block>
                <fo:block text-align="center">
                  <fo:block>
                    <fo:inline font-family="Arial" font-size="20pt" color="green" margin-bottom="15pt">
                      <xsl:text>releve de note pour l'etudiant </xsl:text>
                      <xsl:value-of select="FirstName"/>
                      <xsl:value-of select="LastName"/>
                    </fo:inline>
                  </fo:block>
                </fo:block>
              </fo:block>
              <fo:block>
                <fo:table width="100%" border-style="outset" border-width="2pt" border-color="blue" background-repeat="repeat">
                  <fo:table-column/>
                  <fo:table-column/>
                  <fo:table-column/>
                  <fo:table-column/>
                  <fo:table-body>
                    <fo:table-row>
                      <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repe.
                        </fo:table-cell>
                      <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repe.
                        <fo:block>
                          <xsl:value-of select="Note[2]"/>
                        </fo:block>
                      </fo:table-cell>
                    </fo:table-row>
                    <fo:table-row>
                      <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repe.
                        <fo:block>
                          <xsl:value-of select="Module[3]/@code_Module"/>
                        </fo:block>
                      </fo:table-cell>
                      <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repe.
                        <fo:block>
                          <xsl:value-of select="Module[3]"/>
                        </fo:block>
                      </fo:table-cell>
                      <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repe.
                        <fo:block text-align="center">
                          <fo:block>
                            <xsl:text>1</xsl:text>
                          </fo:block>
                        </fo:block>
                      </fo:table-cell>
                      <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repe.
                        <fo:block>
                          <xsl:value-of select="Note[3]"/>
                        </fo:block>
                      </fo:table-cell>
                    </fo:table-row>
                    <fo:table-row>
                      <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repe.
                        <fo:block>
                          <xsl:value-of select="Module[4]/@code_Module"/>
                        </fo:block>
                      </fo:table-cell>
                      <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repe.
```

Document PDF généré :

releve de note pour l'etudiant chaimaeghazi

Code Module	designation Module	Session	Note/20
GINF31	POO et XML	1	18
GINF32	Modelisation et IHM	1	19
GINF33	Bases de donnees avancees	1	17.5
GINF41	Administration et programmation systeme	1	14.5
GINF35	Qualite et approche processus	1	16
GINF36	Langues et communication 2	1	15
GINF37	Technologies distribuees	2	13.5
GINF38	Bases de donnees avancees 2 et Cloud	2	19.5
GINF39	Traitement de l'image	2	16.5
GINF40	Prge declarative et TAV	2	14
GINF41	Securite et Cryptographie	2	18.8
GINF42	Management de l'entreprise 2	2	19
Note finale		16.775000000000002	

releve de note pour l'etudiant jamilaFajr

Code Module	designation Module	Session	Note/20
GINF31	POO et XML	1	8
GINF32	Modelisation et IHM	1	12
GINF33	Bases de donnees avancees	1	11.5
GINF41	Administration et programmation systeme	1	12.5
GINF35	Qualite et approche processus	1	12
GINF36	Langues et communication 2	1	12
GINF37	Technologies distribuees	2	13.5
GINF38	Bases de donnees avancees 2 et Cloud	2	9.5
GINF39	Traitement de l'image	2	12.5
GINF40	Prge declarative et TAV	2	14
GINF41	Securite et Cryptographie	2	11.8
GINF42	Management de l'entreprise 2	2	9
Note finale		11.525	

releve de note pour l'etudiant hasnaeYahyaw

Code Module	designation Module	Session	Note/20
GINF31	POO et XML	1	9.22
GINF32	Modelisation et IHM	1	14
GINF33	Bases de donnees avancees	1	7.5
GINF34	Administration et programmation systeme	1	10.5
GINF35	Qualite et approche processus	1	14
GINF36	Langues et communication 2	1	14
GINF37	Technologies distribuees	2	13.5
GINF38	Bases de donnees avancees 2 et Cloud	2	9.5
GINF39	Traitement de l'image	2	12.5
GINF40	Prge declarative et TAV	2	14
GINF41	Securite et Cryptographie	2	11.8
GINF42	Management de l'entreprise 2	2	9
Note finale		11.626666666666667	

releve de note pour l'etudiant soumayaBssillat

Code Module	designation Module	Session	Note/20
GINF31	POO et XML	1	15.5
GINF32	Modelisation et IHM	1	13.5
GINF33	Bases de donnees avancees	1	8.22
GINF34	Administration et programmation systeme	1	10.22
GINF35	Qualite et approche processus	1	13.5
GINF36	Langues et communication 2	1	13.5
GINF37	Technologies distribuees	2	13.5
GINF38	Bases de donnees avancees 2 et Cloud	2	9.5
GINF39	Traitement de l'image	2	12.5
GINF40	Prge declarative et TAV	2	14
GINF41	Securite et Cryptographie	2	11.8
GINF42	Management de l'entreprise 2	2	9
Note finale		12.061666666666667	


```

<fo:table-row>
  <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repeat="repeat" display-align="center">
    <fo:block>
      <xsl:value-of select="/Notes/Student[1]/Module[1]/@code_Module"/>
    </fo:block>
  </fo:table-cell>
  <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repeat="repeat" display-align="center">
    <fo:block>
      <xsl:value-of select="/Notes/Student[1]/Module[1]"/>
    </fo:block>
  </fo:table-cell>
  <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repeat="repeat" display-align="center">
    <fo:block text-align="center">
      <fo:block>
        <xsl:text>1</xsl:text>
      </fo:block>
    </fo:block>
  </fo:table-cell>
  <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repeat="repeat" display-align="center">
    <fo:block>
      <xsl:value-of select="/Notes/Student[1]/Note[1]"/>
    </fo:block>
  </fo:table-cell>
</fo:table-row>
<fo:table-row>
  <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repeat="repeat" display-align="center">
    <fo:block>
      <xsl:value-of select="/Notes/Student[1]/Module[2]/@code_Module"/>
    </fo:block>
  </fo:table-cell>
  <fo:table-cell border-style="inset" border-width="2pt" border-color="blue" padding="2pt" background-repeat="repeat" display-align="center">

```

Document PDF généré :

releve de note pour l'etudiant chaimaeelghzwani			
Code Module	designation Module	Session	Note/20
GINF31	POO et XML	1	18
GINF32	Modelisation et IHM	1	19
	Bases de donnees avancees	1	17.5
GINF41	Administration et programmation systeme	1	14.5
GINF35	Qualite et approche processus	1	12
GINF36	Langues et communication 2	1	15
GINF37	Technologies distribuees	2	13.5
GINF38	Bases de donnees avancees 2 et Cloud	2	19.5
GINF39	Traitement de l'image	2	16.5
GINF40	Prge declarative et TAV	2	14
GINF41	Securite et Cryptographie	2	18.8
GINF42	Management de l'entreprise 2	2	19
Note finale		16.441666666666666	admit

6. Attestation de réussite (pour un étudiant de GINF2).

❖ Attestation_student.xsl

```
<?xml version="1.0"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:s="http://www.stylusstudio.com/xquery">
  <xsl:template match="/">
    <fo:root xmlns:fo="http://www.w3.org/1999/XSL/Format">
      <fo:layout-master-set>
        <fo:simple-page-master master-name="default-page" page-height="6in" page-width="8.5in" margin-left="0.6in" margin-right="0.6in">
          <fo:region-body/>
        </fo:simple-page-master>
      </fo:layout-master-set>
      <fo:page-sequence master-reference="default-page">
        <fo:flow flow-name="xsl-region-body">
          <fo:block>
            <fo:block text-align="center">
              <fo:block>
                <fo:inline font-size="20pt" color="#0000FF">
                  <xsl:text>Attestation de réussite</xsl:text>
                </fo:inline>
              </fo:block>
              <fo:block>
                <fo:inline font-size="10pt">
                  <fo:block text-align="right">
                    <fo:block>
                      <fo:inline font-size="10pt">
                        <xsl:text>Ecole National De Sciences Sppliques tanger le 08/02/2022</xsl:text>
                      </fo:inline>
                    </fo:block>
                  </fo:block>
                </fo:inline>
              </fo:block>
            </fo:block>
            <fo:block>
              <xsl:text>&#xA0;</xsl:text>
              <xsl:value-of select="/Filiere_Niveau/Student[1]/FirstName"/>
              <xsl:value-of select="/Filiere_Niveau/Student[1]/LastName"/> de CNE
              <xsl:value-of select="/Filiere_Niveau/Student/@CNE"/></fo:block>
            </fo:inline>
          </fo:block>
          <fo:block>
            <xsl:text>&#xA0;</xsl:text>
          </fo:block>
          <fo:block>
            <xsl:text>&#xA0;</xsl:text>
          </fo:block>
          <fo:block>
            <fo:inline font-size="10pt">
              <fo:block text-align="left">
                <fo:block>
                  <fo:inline font-size="12pt">
                    <xsl:text>a suivi et terminé la formation :</xsl:text>
                  </fo:inline>
                </fo:block>
              </fo:block>
            </fo:inline>
          </fo:block>
          <fo:block>
            <xsl:text>&#xA0;</xsl:text>
          </fo:block>
          <fo:block>
            <fo:inline font-size="10pt">
              <xsl:value-of select="/Filiere_Niveau/@nom_de_filiere"/>
            </fo:inline>
          </fo:block>
        </fo:flow>
      </fo:page-sequence>
    </fo:root>
  </xsl:template>
</xsl:stylesheet>
```

C:\Users\Elitebook\Documents\projet_xml\
3_publication_des_pages_html\Notes.xsl - Notepad++

Document PDF généré :



Ecole National De Sciences Sppliques tanger le 08/02/2022

Attestation de réussite

je,soussigné(e) ,Monsieur Le directeur adjoint ,attesté que l'étudiant(e):

chaymaeGhazide CNE KB23456

a suivi et terminé la formation :

GINF2

signature Du Directeur Adjoint

Attestation en Date 08/02.2022



5. Elaboration des listes des groupes de TPs :

❖ Groupe1_tp.xquery

```
xquery version "1.0";

for $y in doc("../1_conversion_de_docs_excel_en_xml_java/Student_GINF2.xml")/Filiere_Niveau
let $s := count($y/Student) idiv 2
for $x in (1 to $s)
return $y/Student[$x]
```

❖ Groupe2_tp.xquery

```
xquery version "1.0";

for $y in doc("../1_conversion_de_docs_excel_en_xml_java/Student_GINF2.xml")/Filiere_Niveau
let $s := (count($y/Student) idiv 2) + 1
let $t := count($y/Student)
for $x in ($s to $t)
return $y/Student[$x]
```

Documents XML généré :

```
<?xml version="1.0" ?>
<Filiere_Niveau nom_de_filiere ="GINF2_tp1">
<Student CNE="KB23456">
  <FirstName>chaymae</FirstName>
  <LastName>Ghazi</LastName>
  <BirthDate>01/01/2000</BirthDate>
  <PhoneNum>600000001</PhoneNum>
  <Email>nom1@gmail.com</Email>
</Student><Student CNE="KB23457">
  <FirstName>hasnae</FirstName>
  <LastName>Yahyawi</LastName>
  <BirthDate>02/01/2000</BirthDate>
  <PhoneNum>600000002</PhoneNum>
  <Email>nom2@gmail.com</Email>
</Student><Student CNE="KB23458">
  <FirstName>soumaya</FirstName>
  <LastName>Bssillat</LastName>
  <BirthDate>03/01/2000</BirthDate>
  <PhoneNum>600000023</PhoneNum>
  <Email>nom3@gmail.com</Email>
</Student><Student CNE="KB23459">
  <FirstName>mohammed</FirstName>
  <LastName>Ben ali</LastName>
  <BirthDate>04/01/2000</BirthDate>
  <PhoneNum>600000024</PhoneNum>
  <Email>nom4@gmail.com</Email>
</Student><Student CNE="KB23460">
  <FirstName>hichame</FirstName>
  <LastName>Yajour</LastName>
  <BirthDate>05/01/2000</BirthDate>
  <PhoneNum>600000025</PhoneNum>
  <Email>nom5@gmail.com</Email>
</Student><Student CNE="KB23461">
  <FirstName>abd el illah</FirstName>
  <LastName>Hadraf</LastName>
  <BirthDate>06/01/2000</BirthDate>
  <PhoneNum>600000026</PhoneNum>
  <Email>nom6@gmail.com</Email>
</Student><Student CNE="KB23462">
  <FirstName>abd samad</FirstName>
  <LastName>Kaabi</LastName>
  <BirthDate>07/01/2000</BirthDate>
  <PhoneNum>600000027</PhoneNum>
  <Email>nom7@gmail.com</Email>
</Student></Filiere_Niveau>
```

```
<?xml version="1.0"?>
<Filiere_Niveau nom_de_filiere="GINF2_tp2">
  - <Student CNE="KB23463">
    <FirstName>souaad</FirstName>
    <LastName>Ziyach</LastName>
    <BirthDate>08/01/2000</BirthDate>
    <PhoneNum>600000028</PhoneNum>
    <Email>nom8@gmail.com</Email>
  </Student>
  - <Student CNE="KB23464">
    <FirstName>yahya</FirstName>
    <LastName>Ben atiya</LastName>
    <BirthDate>09/01/2000</BirthDate>
    <PhoneNum>600000031</PhoneNum>
    <Email>nom9@gmail.com</Email>
  </Student>
  - <Student CNE="KB23465">
    <FirstName>siraj</FirstName>
    <LastName>Hadad</LastName>
    <BirthDate>10/01/2000</BirthDate>
    <PhoneNum>600000018</PhoneNum>
    <Email>nom10@gmail.com</Email>
  </Student>
  - <Student CNE="KB23466">
    <FirstName>jamila</FirstName>
    <LastName>Fajr</LastName>
    <BirthDate>11/01/2000</BirthDate>
    <PhoneNum>600000009</PhoneNum>
    <Email>nom11@gmail.com</Email>
  </Student>
  - <Student CNE="KB23467">
    <FirstName>ishaa</FirstName>
    <LastName>Hakimi</LastName>
    <BirthDate>12/01/2000</BirthDate>
    <PhoneNum>600000003</PhoneNum>
    <Email>nom12@gmail.com</Email>
  </Student>
  - <Student CNE="KB23468">
    <FirstName>fayrouz</FirstName>
    <LastName>Hadadi</LastName>
    <BirthDate>13/01/2000</BirthDate>
    <PhoneNum>600000004</PhoneNum>
    <Email>nom13@gmail.com</Email>
  </Student>
  - <Student CNE="KB23469">
    <FirstName>joumana</FirstName>
    <LastName>Ben charki</LastName>
    <BirthDate>14/01/2000</BirthDate>
    <PhoneNum>600000005</PhoneNum>
    <Email>nom14@gmail.com</Email>
  </Student>
</Filiere_Niveau>
```

✓ Pour diriger l'output d'xquery vers les fichiers groupe1.xml
Et grpe2.xml ;

