Module 4

Aim: Develop example Django app that performs CSV and PDF generation for any models created in previous laboratory component.

Objective: The students will be able to

Creation of virtual environment, Django project and App to

Concept / Theory:

2. Develop example Django app that performs CSV and PDF generation for any models created in previous laboratory component.

Note: This code is additional to the Programs executed in Module 2 (Lab 6) so please continue the editing that project itself.

In views.py of app

```python
import csv
def generateCSV(request):
    courses=course.objects.all()
    resp=HttpResponse(content_type="text/csv")
    resp['Content-Disposition']='attachment; filename=course_data.csv'
    writer=csv.writer(resp)
    writer.writerow(['Course Code','Course Name','Course Credits'])
    for c in courses:
        writer.writerow([c.courseCode,c.courseName,c.courseCredits])
    return resp

from reportlab.lib.pagesizes import letter
from reportlab.platypus import SimpleDocTemplate, Table
def generatePDF(request):
    courses=course.objects.all()
    resp=HttpResponse(content_type="text/pdf")
    resp['Content-Disposition']='attachment; filename=course_data.pdf'
    pdf=SimpleDocTemplate(resp,pagesize=letter)

    table_data=[['Course Code','Course Name','Course Credits']]
    for c in courses:
        table_data.append([c.courseCode,c.courseName,str(c.courseCredits)])
    table=Table(table_data)
    pdf.build([table])
    return resp
```
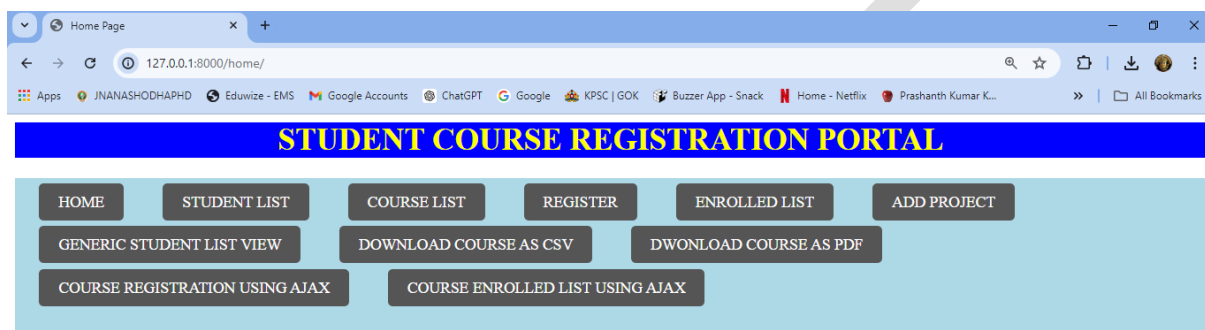
In basicTemplate.html

```html
<li> <a href="/download_course_table_as_csv/">DOWNLOAD COURSE AS CSV</a> </li>
<li> <a href="/download_course_table_as_pdf/">DWONLOAD COURSE AS PDF</a></li>
```
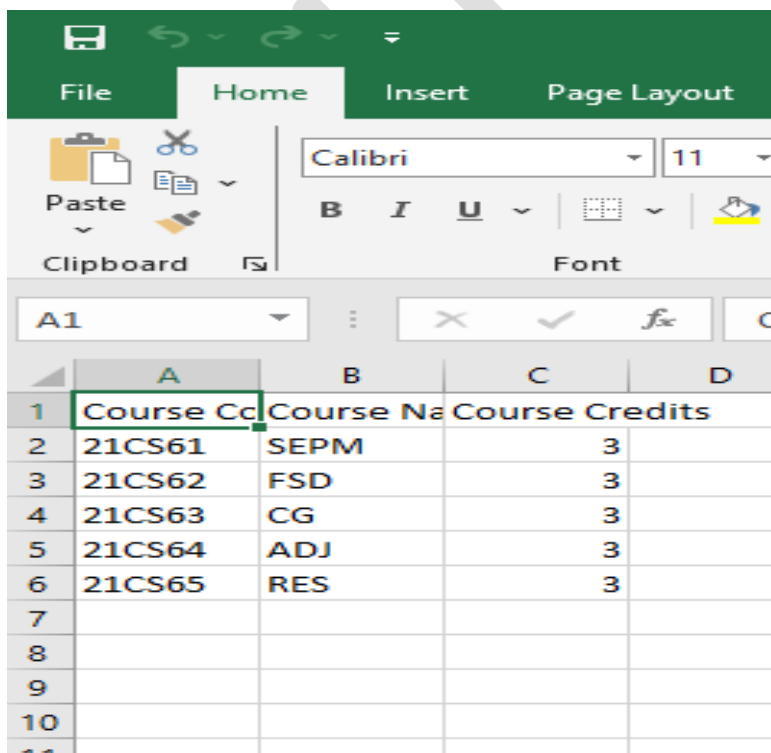
In urls.py of Project

```python
path('download_course_table_as_csv/',generateCSV),
path('download_course_table_as_pdf/',generatePDF),
```

Outputs

Namyapriya Dayananda, Asst Professor, CSE, KSIT

STUDENT COURSE REGISTRATION PORTAL

| HOME | STUDENT LIST | COURSE LIST | REGISTER | ENROLLED LIST | ADD PROJECT |

GENERIC STUDENT LIST VIEW   DOWNLOAD COURSE AS CSV   DWONLOAD COURSE AS PDF

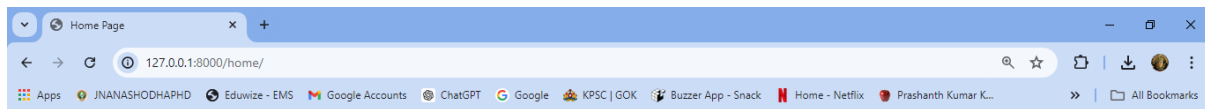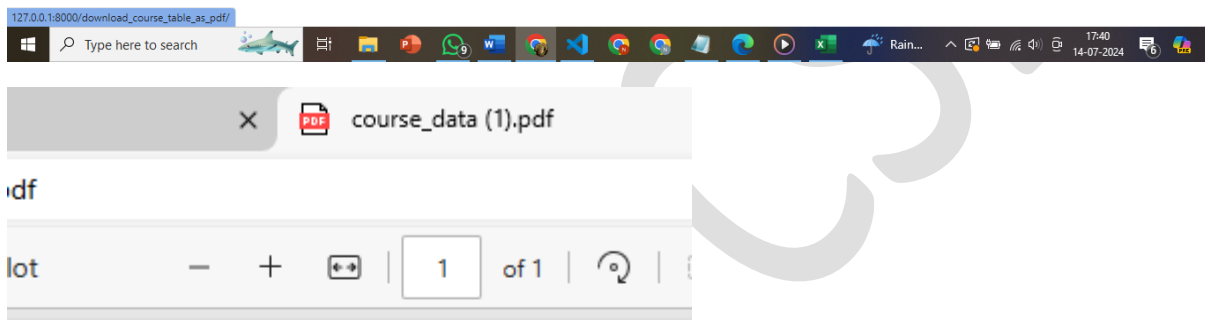COURSE REGISTRATION USING AJAX   COURSE ENROLLED LIST USING AJAX

- Click on Student List to get the List of students

- Click on Course List to get the list of courses

- click on register to enroll student to a course

© Designed and Developeb by Namyapriya D, Asst Professor, CSE, KSIT

127.0.0.1:8000/download_course_table_as_pdf/

course_data (1).pdf

Course Code	Course Name	Course Credits
21CS61	SEPM	3
21CS62	FSD	3
21CS63	CG	3
21CS64	ADJ	3
21CS65	RES	3

Conclusion: we were able to Develop example Django app that performs CSV and PDF generation for any models created in previous laboratory component.

Namyapriya Dayananda, Asst Professor, CSE, KSIT