15.10.2022

From

Ms. N. Anu Lavanya, AP/CSE & Mrs. N. J. Divya, AP/CSE,

SSM Institute of Engineering and Technology,

Dindigul – Palani Highway,

Dindigul.

To

The Principal,

SSM Institute of Engineering and Technology,

Dindigul – Palani Highway,
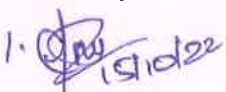
Dindigul.

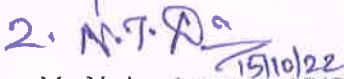Respected Sir,

        Sub: Requisition for conducting workshop and to provide lunch and refreshment for the resource person-reg.

        We wish to bring to your kind notice that a One Day Workshop is planned to be conducted for II CSE on **"Workshop on APP Development using Java and Python"**, by Ms. Malathi, Senior Engineer, SPOTLIGHT TECHNOLOGY, Dindigul, on **21.10.2022**. In this regard, we seek your permission for the conduct the workshop and request you to provide lunch and refreshment (FN & AN) for the trainer (1 person) from SPOTLIGHT TECHNOLOGY at our college premises. We kindly request you to grant us the same.

Thanking you,

Yours truly,

1.   15/10/22

2.   15/10/22

Ms. N. Anu Lavanya, AP/CSE

Mrs. N. J. Divya, AP/CSE

PRINCIPAL

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002.

(Approved by AICTE, Affiliated to Anna University, Accredited by NAAC)

Department of Computer Science and Engineering

17.10.2022

SSMIET/CSE/2022-2023/Odd/C009

Circular

The Department of CSE has planned to conduct a One day "Workshop" for II year – CSE students on "App Development using Java and Python" on 21.10.2022 (09.00 a.m to 4:30 p.m) at CSE Lab 2. Resource person Ms. Malathi, Senior Engineer, SPOTLIGHT TECHNOLOGY, Dindigul is going to handle this session. All our II year students are expected to attend this training without fail.
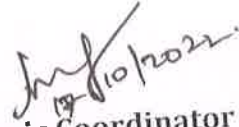
1.

2. N.J.D

Faculty In-charge

Ms N.Anu Lavanya, AP/CSE

Mrs N.J Divya, AP/CSE

Academic Coordinator / CSE

Dr V.Nivedhitha ASP/CSE

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi / Affiliated to Anna
University, Chennai Accredited by NAAC)
Dindigul – Palani Highway, Dindigul – 624 002

Since 2012

Department of Computer Science and Engineering

WORKSHOP ON APP DEVELOPMENT USING JAVA AND PYTHON

SPOT LIGHT TECHNOLOGY

Date: 21.10.2022

Time: 9:00 a.m to 4:30p.m

Venue:CSE Lab 2

Event In-charges

Ms N.Anu Lavanya AP/CSE

Ms N.J Divya AP/CSE

Academic Co-ordinator

Dr V.Nivedhitha ASP/CSE

RESOURCE PERSON

Ms Malathi
Senior Engineer
SPOTLIGHT
TECHNOLOGY
Dindigul

Principal

Dr D.Senthil Kumaran

Java Syllabus
Introduction to Java swing
JLabel
JTextField
JButton
JCombobox
JPasswordField
ProgressBar
JRadioButon
JCheckBox
Creating a new Frame
Working with form controls on Frame
Background color and background Image on Frame
Create a login Form
Create and execute Password verification

Python GUI Programing
Introduction to GUI
How to implement GUI in python
Create and execute a new Frame
Introduction to form controls
Label
Entry
Button
List Box
Menu Button
Message
Message Box
Radio Button
Checkbox
Image Controls
Adding Colors,Background Image on the frame
Introduction to database
Create database and tables
Insert,delete,select,update queries
Create a feedback app using GUI controls

SSM Institute of Engineering and Technology, Dindigul

Dindigul – Palani Highway, Dindigul – 624 002

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)

Department of Computer Science and Engineering

Name of the Program: Workshop on "App Development using Java and Python"

Name of the Guest: **Ms Malathi,**
Senior Engineer,
SPOTLIGHT Technology,
Dindigul.

Date & Venue: 21-10-2022 & CSE LAB 2   **Timing: 09.30 a.m. to 04.30 p.m.**

Attendance Sheet

S.No	Register Number	Name of the Participant	Signature of the Participant
1	922121104001	AARTHI N	AB
2	922121104002	AMIRTHA SHREE	
3	922121104003	ANAND CHARUKESAN K	N.B. depth K. Anandcharukesan
4	922121104004	ANDRUES K	K. Albot.
5	922121104005	ANISHA J	J. Anish
6	922121104006	ARUN PRAKASH P	Arun Prakash P.
7	922121104007	BAVANI K	K. Bavani
8	922121104008	DEVAKI R	R. Devaki
9	922121104009	DHANUSH PRAVEEN T	Dhupus
10	922121104010	DHARSHINI S	S.
11	922121104011	DHIYANESH S	S.
12	922121104012	HABIB RAHUMAN K	AB

13	922121104013	HARINI S	
14	922121104014	INDHIRARAJ S	
15	922121104015	JEEVA G	
16	922121104016	JEYARAMAN S	
17	922121104017	JEYA SHREE S	
18	922121104018	KAJALAKSHMI M	
19	922121104019	KARPAGAM S	
20	922121104020	KARTHEKEYAN M	
21	922121104021	KAVI KANNAN S	AB
22	922121104022	KAVIN P	
23	922121104023	KAVIYA J	
24	922121104024	KIRUTHIKA G	
25	922121104025	KISHOR KUMAR S	
26	922121104027	MADHAVARAJ C	
27	922121104028	MAHIMA R	
28	922121104030	MANIKANDAN B	
29	922121104031	MANOJ KUMAR V	
30	922121104032	MANTHRA SRI D	
31	922121104033	MATHAVAN S	
32	922121104034	MEENA S	
33	922121104035	MOHAMAD RILA M	
34	922121104036	NAVEEN KUMAR S	
35	922121104037	NITHYABALA M	

36	922121104038	NIVETHITHA M	M. Nivethitha
37	922121104039	PANOJ KUMAR C	C. Panoj Kumar
38	922121104040	PAVITHRAHARINI S	S. Pavithraharini
39	922121104041	PRADEEP M	M. Pradeep
40	922121104042	PRASANNA N	N. Prasanna
41	922121104043	RAKSHITHA VP	Rakshitha
42	922121104044	SAKTHIPRIYA S	AB
43	922121104045	SANTHANAKALEESWARI S	Santhanakal
44	922121104046	SANTHOSH.K	K. Santhosh
45	922121104047	SATHIYA PRIYA N	Sathiya Priya. N
46	922121104048	SHERIN SITHARA M	M. Sheren
47	922121104049	SHIVANI K	K. Shivani
48	922121104050	SHURUTHI LAYA S	S. Shruthi laya
49	922121104051	SRINIVASAN T	T. Srinivasan
50	922121104052	SWARNAMBIKA V	V. Swarnambika
51	922121104053	THAMEEM RAJA K	K.
52	922121104054	TURIN PETCI J	J.
53	922121104055	UMAR FAROOK J	J.
54	922121104056	VAISHNAVI C	C. Vaishnavi
55	922121104057	VIDHYA SAGAR P	P. Vidhya sagar
56	922121104058	VIJAYALAKSHMI T	T. Vijayalakshmi
57	922121104059	VIJAYKARTHIK S	S. Vijay Karthik

SSM Institute of Engineering and Technology, Dindigul

Dindigul – Palani Highway, Dindigul – 624 002

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)

58	922121104060	VIJAY SUBRAMANIYAM S	
59	922121104061	VISHWADHARSHINI V	AB
60	922121104062	YOGESHWARAN B	B.Yogesh
61	922121104063	YUVARAJ V	V.Yuvaraj
62	LE01	SYED MUSHARAF M	
63	LE02	MAHENDRAN P	
64	LE03	KANNAN D B	D.B.Kannan
65	LE04	DANIEL RAJ L	L.Daniel Raj
66	LE05	ALAGU SURIYA S	S.Alagu

1.

2. N.J.D°

Faculty In-charge   **Academic Coordinator**   **Principal**

[v. Nivedhitha]

[N. ANU LAVANYA AP|CSE]

[N.J. DIVYA AP|CSE]

Team Head gave an introduction about the team members of the spotlight technology and handed over the session to resource person Ms. Malathi, who has trained the students on the basics of java and the swing components and AWT in detail for creating forms on their own.

Anaipatti, Tamil Nadu, India
9WWC+M5X, Dindigul - Palani Rd, Anaipatti, Tamil Nadu
624705, India
Lat 10.396809°
Long 77.919882°
21/10/22 10:05 AM

Trainer teaches the Swing commands in java through the presentation and they created one sample framework in java which was observed by the students and worked it out instantly by following the trainer's comments.

From 9.00 a.m to 12.40 p.m the students worked on how to create a form using java and showed their results individually to the trainer and clarified their doubts in that.
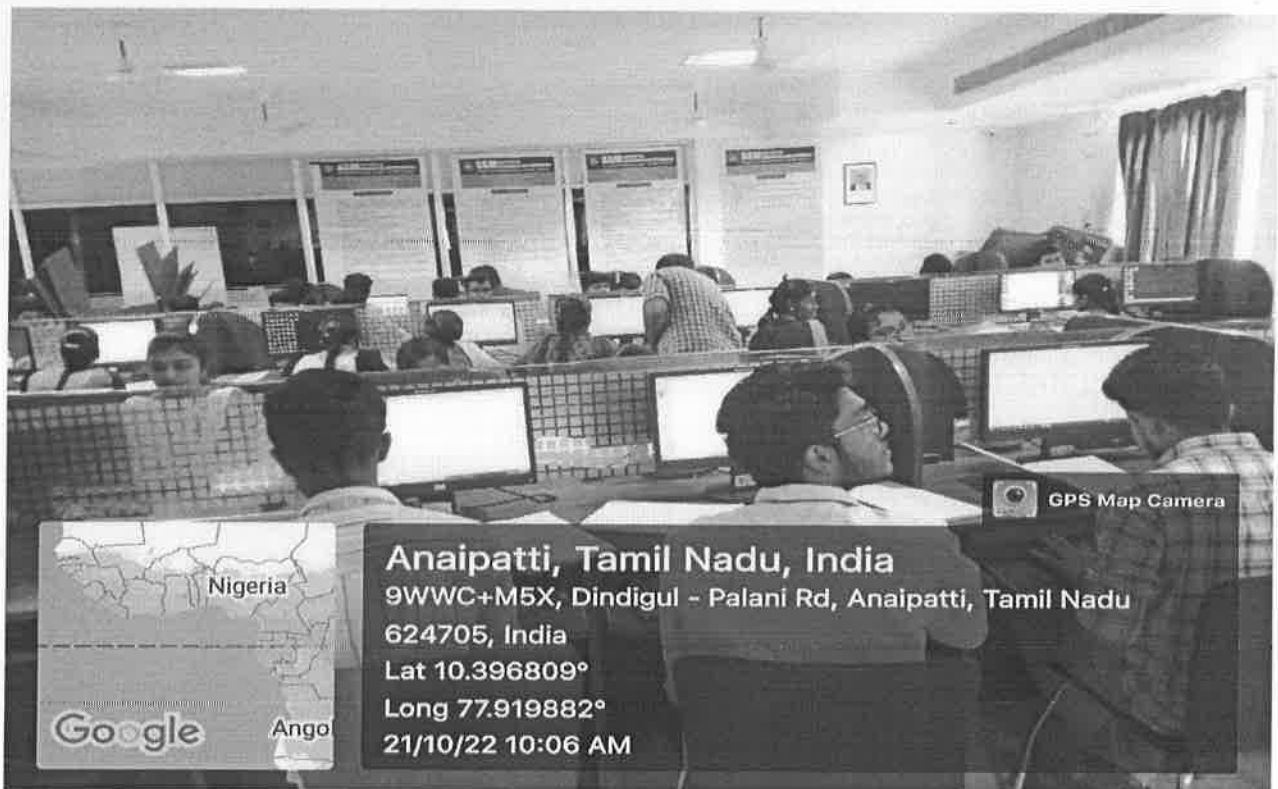
Coding Samples:

JCheckBox	
Creating a new Frame	10.40 - 11.15 a.m
Working with form controls on Frame	11.20 - 11.45
Background color and background Image on Frame	
Create a login Form	11.50 - 12.20 p.m
Create and execute Password verification	12.20 - 12.45p.m

Invitation

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi / Affiliated to Anna
University, Chennai Accredited by NAAC)
Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

WORKSHOP ON APP DEVELOPMENT USING JAVA AND PYTHON

SPOT LIGHT TECHNOLOGY

Venue:CSE
Lab 2

Date: 21.10.2022
Time: 9:00 a.m to 4:30p.m

RESOURCE PERSON

Ms Malathi
Senior Engineer
SPOTLIGHT
TECHNOLOGY
Dindigul

Event In-charges
Ms N.Anu Lavanya
AP/CSE
Ms N.J Divya AP/CSE
Academic Co-ordinator
Dr V.Nivedhitha
ASP/CSE

Principal
Dr D.Senthil Kumaran

Department of Computer Science and Engineering

Report

Date: 28/10/2022

One day workshop on App development using java and python was conducted on 21/10/22 in CSE Lab 2 for II Year CSE Students. Our chief guest Mr A. Stephen Gaspar, Team Head of Spotlight technology, Dindigul delivered an introduction about the activities to be carried out for the training session which was handed over to Ms Malathi the resource person handled the session of how to develop an app using Java.

Syllabus Covered:

Morning Session:

Topics Covered	Timing
Introduction to Java swing	9:00 a.m
JLabel	9.15 a.m - 9.45 a.m
JTextField	
JButton	
JCombobox	
JPasswordField	
ProgressBar	9.45 a.m to 10.20 and Break
JRadioButon	

```java
import javax.swing.*;
import java.awt.*;
class sum
{
JFrame jf;
JLabel l1,l2;
JTextField t1;
JPasswordField pf;
JButton b1,b2;
sum()
{
jf=new JFrame();
jf.setTitle("Sample");
jf.setLayout(null);
jf.setVisible(true);
jf.setSize(800,800);
jf.getContentPane().setBackground(Color.CYAN);
l1=new JLabel("UserName");
l1.setBounds(100,100,100,30);
l1.setBackground(Color.BLACK);
l1.setForeground(Color.WHITE);
l1.setOpaque(true);
                    v
jf.add(l1);
t1=new JTextField();
t1.setBounds(230,100,100,30);
jf.add(t1);
l2=new JLabel("Password");
l2.setBounds(100,150,100,30);
jf.add(l2);
pf=new JPasswordField();
```
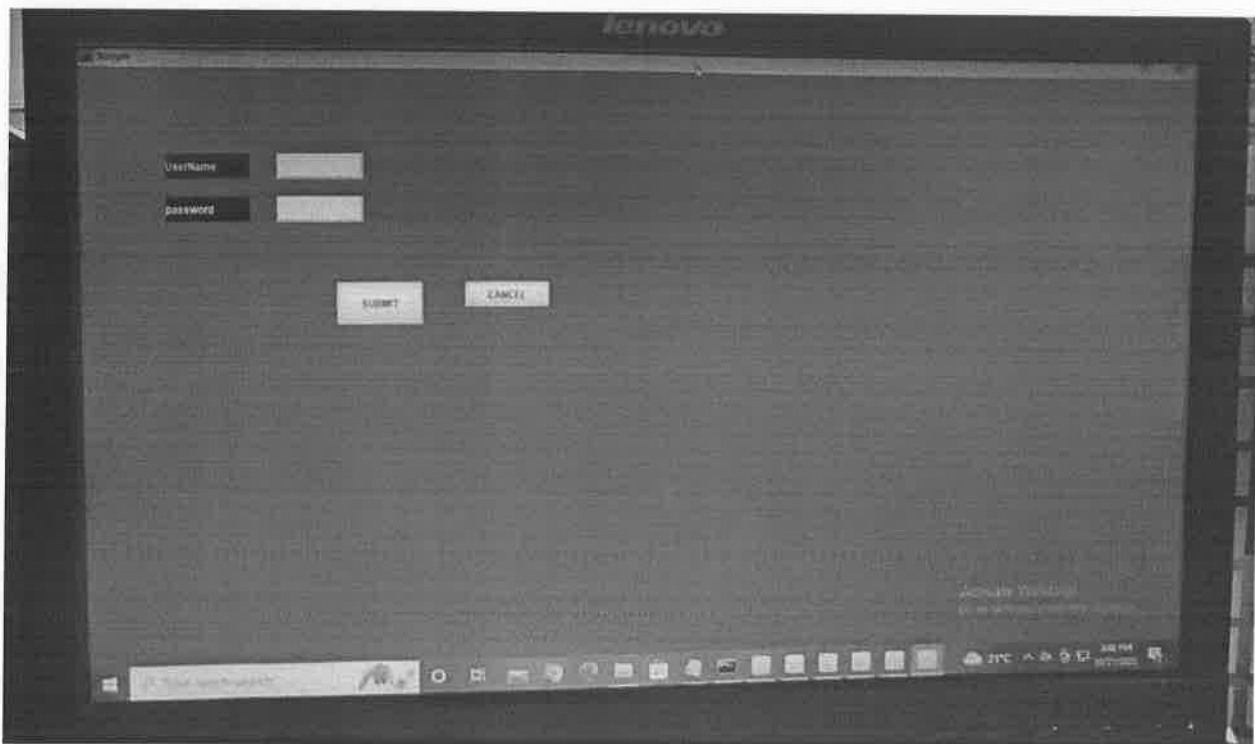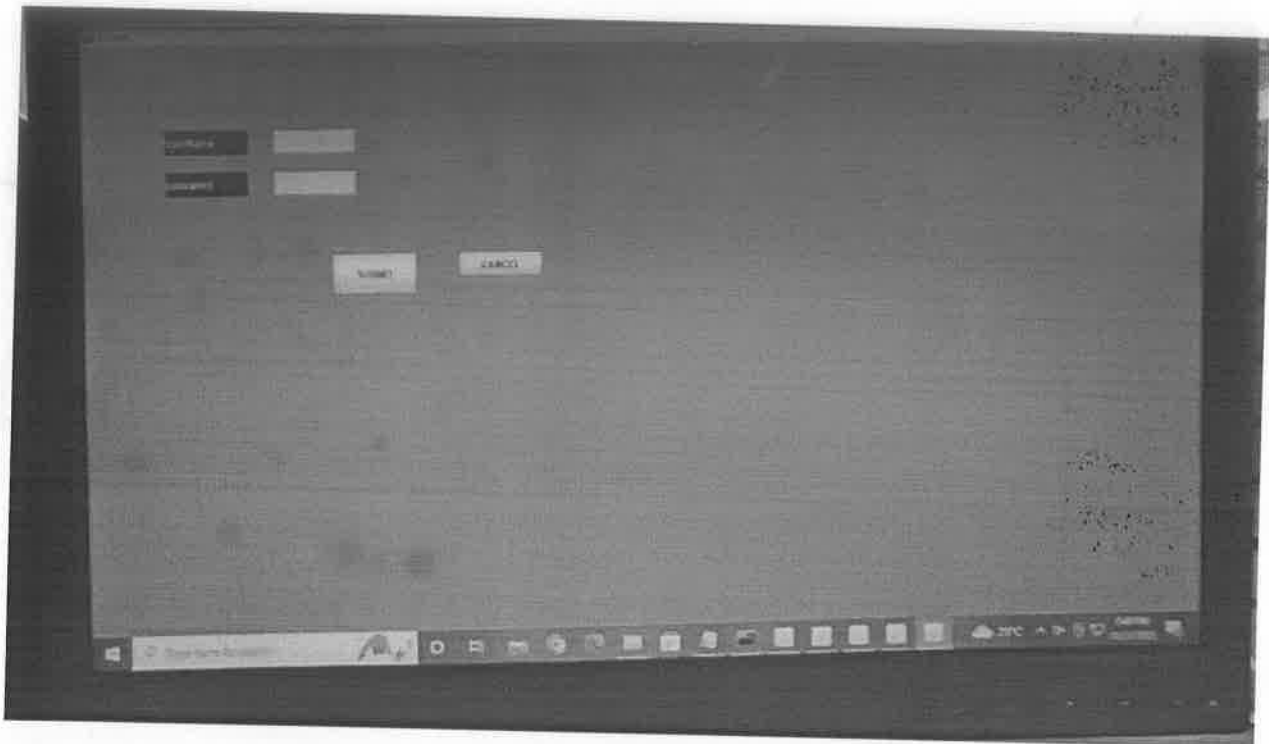
```java
pf.setBounds(230,150,100,30);

jf.add(pf);

b1=new JButton("SUBMIT");

b1.setBounds(300,250,100,50);

jf.add(b1);

b2=new JButton("CANCEL");

b2.setBounds(450,250,100,30);

jf.add(b2);

}

public static void main(String args[])

{

new sum();

}

}
```

Some of the sample output of form creation by II Year student was shown below

Afternoon Session:

Syllabus Coverage:

Topics Covered	Timing
Introduction to GUI	1:20 p.m
How to implement GUI in python	1:40 p.m - 2.45 a.m
Create and execute a new Frame	
Introduction to form controls	
Label	
Entry	
Button	2.45 p.m to 3.20 and Break
List Box	
Menu Button	

Radio Button	3.25 - 3.45 p.m
Adding Colors,Background Image on the frame	3.45 - 4.10 p.m
Create database and tables	
Insert,delete,select,update queries	4.15 - 4.20 p.m
Create a feedback app using GUI controls	4.20 - 4.35p.m

In the afternoon, the trainer gave an assignment of creating a website for a food rating menu app and collectively the rating should be displayed as a pie chart for user understanding of better selection of food menu.

Anaipatti, Tamil Nadu, India
9WWC+M5X, Dindigul - Palani Rd, Anaipatti, Tamil Nadu
624705, India
Lat 10.396809°
Long 77.919882°
21/10/22 10:06 AM
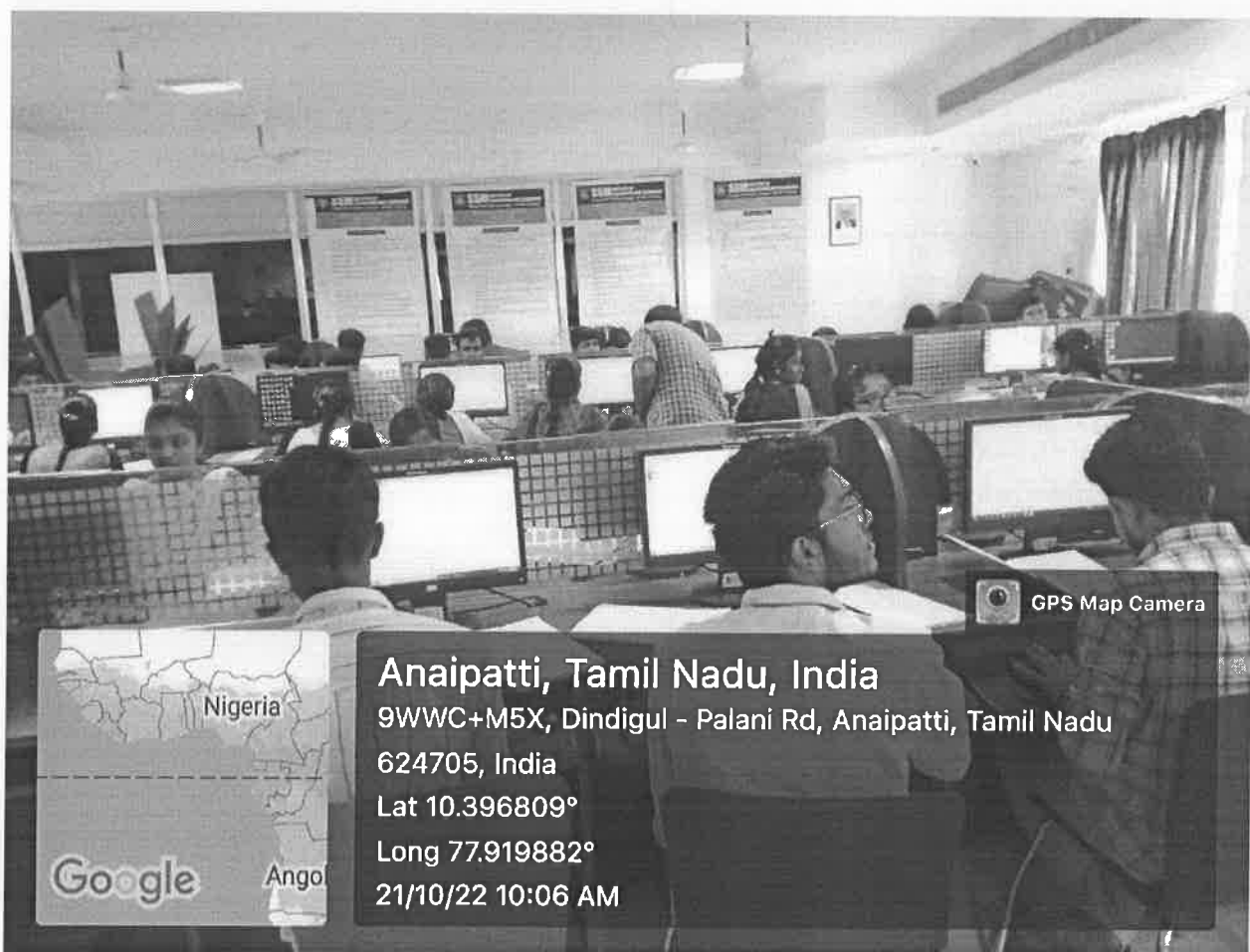
Students actively asked their doubts about the creation of a web page for the food rating menu and the trainer resolved their queries instantly.

Anaipatti, Tamil Nadu, India
9WWC+M5X, Dindigul - Palani Rd, Anaipatti, Tamil Nadu
624705, India
Lat 10.397374°
Long 77.920186°
21/10/22 04:14 PM

Coding Samples:

```
import tkinter as tk
import pyautogui
#import mysql.connector as sqltor
from tkinter import*
from tkinter import messagebox
from PIL import ImageTk,Image
from tkinter import ttk
import report
import matplotlib.pyplot as plt
import numpy as np
a=0
b=0
c=0
d=0
e=0
top1=Tk()
#top1["bg"]="#1C2833"
```

```python
image2 =Image.open('C:\\Users\\Admin\\Desktop\\Meenachi\\venkat sir\\white
(1).webp')
image1 = ImageTk.PhotoImage(image2)
'''w = image1.width()
h = image1.height()
top1.geometry('%dx%d+0+0' % (w,h))'''
label1 = Label(top1, image=image1)
label1.pack()
L1 = Label(top1, text="How's the food!!!",fg="black",font=("Arial", 30))
L1.place(x=450,y=50)
photo1 = PhotoImage(file = r"C:\Users\Admin\Desktop\Meenachi\venkat
sir\f1.png")
photoimage1 = photo1.subsample(2,2)
photo2 = PhotoImage(file = r"C:\Users\Admin\Desktop\Meenachi\venkat
sir\f2.png")
photoimage2 = photo2.subsample(2,2)
photo3 = PhotoImage(file = r"C:\Users\Admin\Desktop\Meenachi\venkat
sir\f3.png")
photoimage3 = photo3.subsample(2,2)
photo4 = PhotoImage(file = r"C:\Users\Admin\Desktop\Meenachi\venkat
sir\f4.png")
photoimage4 = photo4.subsample(2,2)
photo5 = PhotoImage(file = r"C:\Users\Admin\Desktop\Meenachi\venkat
sir\f5.png")
photoimage5 = photo5.subsample(2,2)
def angry():
    global a
    a=a+1
    #a8=(a)
     # messagebox.showinfo("","information inserted")
def  bad():
    global b
    b=b+1
    #if(x1==1):
    #messagebox.showinfo("","information inserted")
def ok():
    global c
    c=c+1
        #if(x1==1):
            #messagebox.showinfo("","information inserted")
def good():
    global d
    d=d+1
        #if(x1==1):
            #messagebox.showinfo("","information inserted")
def great():
    global e
    e=e+1
    #if(x1==1):
            #messagebox.showinfo("","information inserted")
def report22():
    y = np.array([a, b, c, d,e])
    mylabels = ["Angry", "Bad", "Ok", "Good","Great"]
    plt.pie(y, labels = mylabels,autopct='%1.0f%%')
```

```
    plt.show()

B7=Button(top1,image = photoimage1,command=angry)
B7.place(x=750,y=300)

B2=Button(top1,image = photoimage2,command=bad)
B2.place(x=650,y=300)

B3=Button(top1,image = photoimage3,command=ok)
B3.place(x=550,y=300)

B4=Button(top1,image = photoimage4,command=good)
B4.place(x=450,y=300)

B5=Button(top1,image = photoimage5,command=great)
B5.place(x=350,y=300)
B6=Button(top1,text="Report",fg="black",font=("Arial",
20),command=report22)
B6.place(x=600,y=600)
top1.mainloop()
```
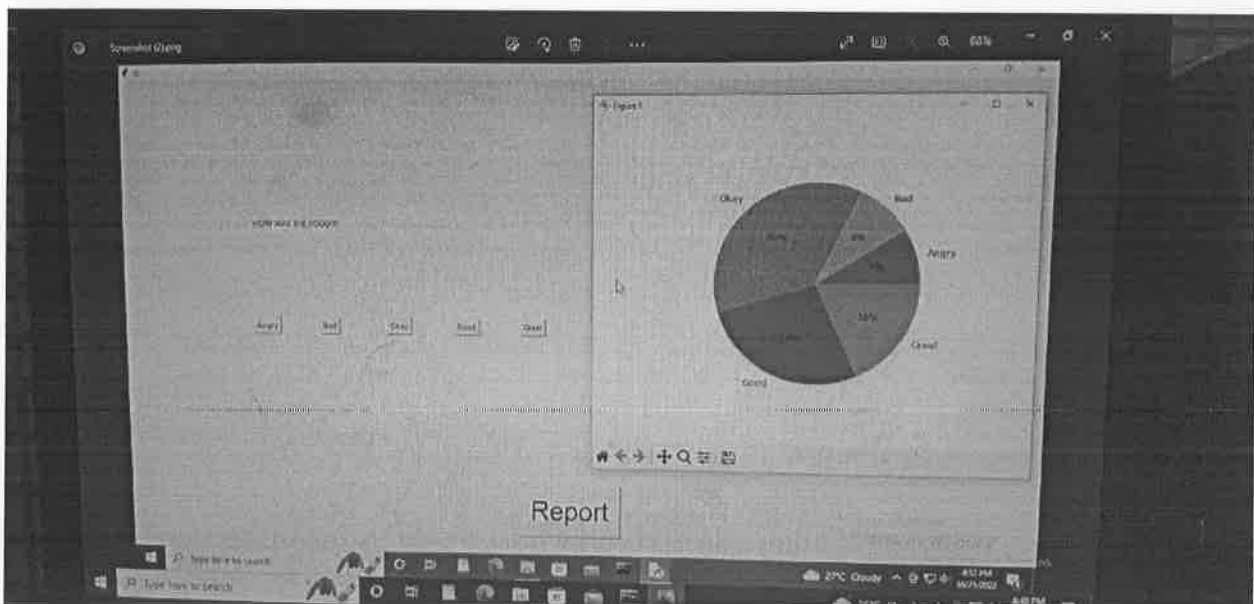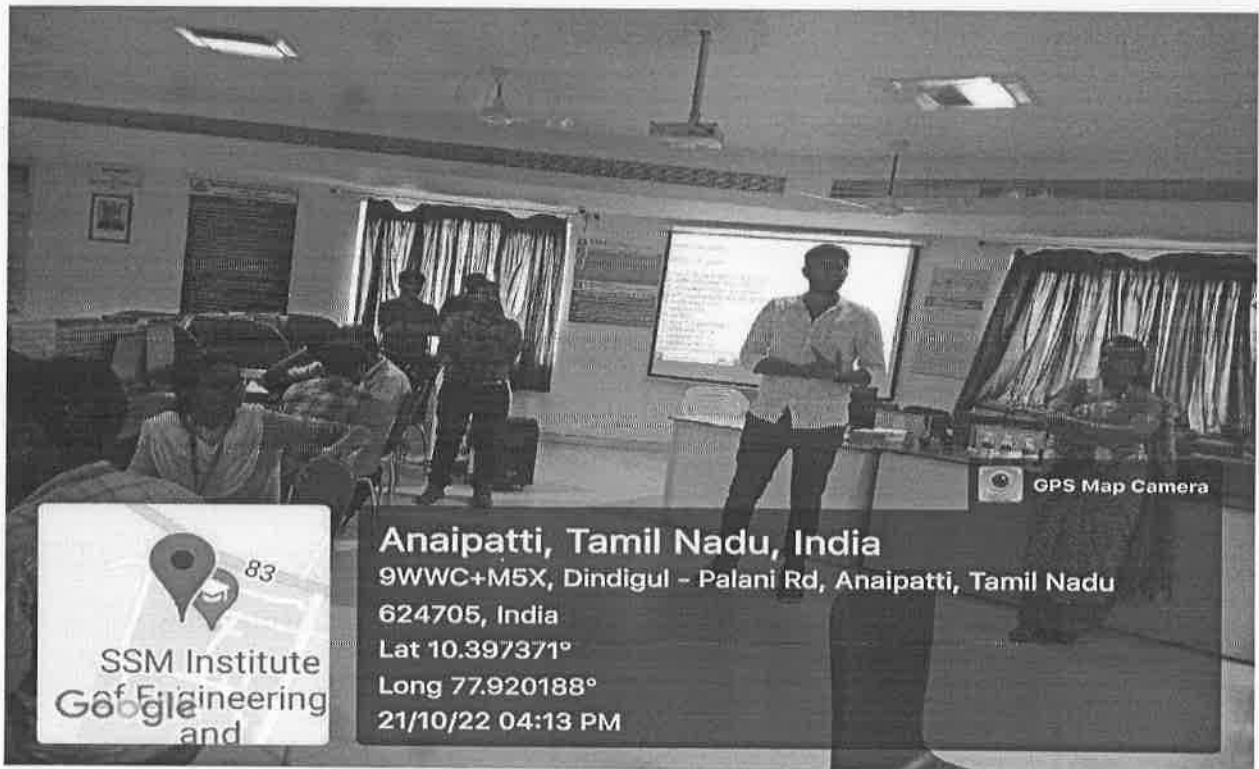
Sample output of the student created a food rating menu web page:

Finally the trainer consolidated all the activities carried out from the morning to
evening in a rapid out form and students gave a feedback individually about the session
that they need session to be in long run for understanding concepts in advanced
manner and asked to conduct more workshop consecutively.
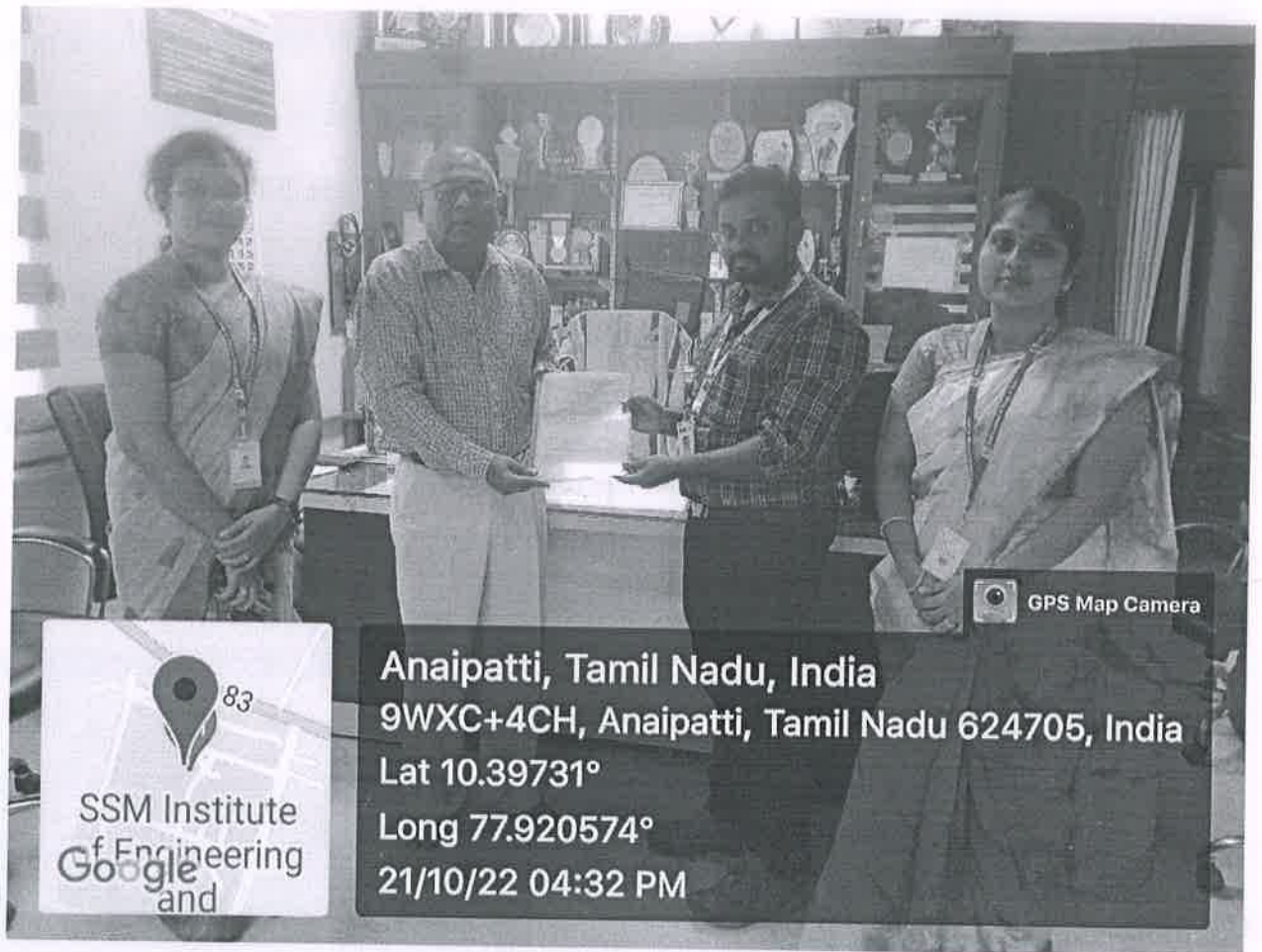
Student's feedback about the Session:

Anaipatti, Tamil Nadu, India
9WWC+M5X, Dindigul - Palani Rd, Anaipatti, Tamil Nadu
624705, India
Lat 10.397371°
Long 77.920188°
21/10/22 04:13 PM

SSM Institute
of Engineering
and

In conclusion of the above we happily signed an MOU with spotlight Technology who handed over the MOU to our corresponding Head of the institution and the team head of spotlight technology previliged to announce that activities to be carried out with our institution in future scope also.

Program coordinators Ms N.Anu Lavanya and Ms N.J Divya and the Academic coordinator Dr V.Nivedhitha are presented as a witness in the MOU Signing ceremony along with Principal of the Institution Dr D.Senthil Kumaran Sir.

Anaipatti, Tamil Nadu, India
9WXC+4CH, Anaipatti, Tamil Nadu 624705, India
Lat 10.397311°
Long 77.920596°
21/10/22 04:31 PM

Anaipatti, Tamil Nadu, India
9WXC+4CH, Anaipatti, Tamil Nadu 624705, India
Lat 10.39731°
Long 77.920574°
21/10/22 04:32 PM

GPS Map Camera

SSM Institute
of Engineering
and

Finally we ended the MOU Signing Ceremony at 5.00 p.m of that day itself.

1.
2. N.J.D

Program Coordinators
1. [N. Anu Lavanya]
2. [N.J. Divya]

Academic Coordinator/CSE
[Dr. V. Nivedhitha]

Principal