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ROLL NO.:- SG009

WEB FRAMEWORKS PRACTICAL SLIP SOLUTION

Solutions:

<u>slip1)</u>

Create an HTML form that contain the Student Registration details and write a JavaScript to validate Student first and last name as it should not contain other than alphabets and age should be between 18 to 50.

```
return false;
 else
 alert("first name entered");
 var lname=document.getElementById("s2").value;
 var patt2 = /[A-Za-z] + $/
 if((!lname.match(patt2)))
 alert("last name should contain alphabets only");
 return false;
 else
 alert("last name entered");
 let age=parseInt(document.getElementById("age").value);
 if(age<18||age>50)
 document.write("invalid age");
 </script>
 </head>
 <body>
 <form action="">
 Student First name:<input type="text"id="s1"><br>
 Student Last name:<input type="text"id="s2"><br>
 Student Age:<input type="number"id="age"><br>
 <button onclick="student()">Submit</button>
 </form>
 </body>
</html>
```

<u>slip2)</u>

Create an HTML form that contain the Employee Registration details and write a JavaScript to validate DOB, Joining Date, and Salary.

```
<!DOCTYPE html>
<html>
<head>
```

```
<script>
  function formValidation()
var first=document.registration.first;
var last=document.registration.last;
var birth=document.registration.birth;
var jdate=document.registration.jdate;
var salary =document.registration.salary;
if(allb(birth))
if(allnumerics(jdate))
if(allnumeric(salary))
}}}
function allb(birth)
var birth_len = birth.value.length;
if (birth_len == 0)
alert("birth date should not be empty");
birth.focus();
return false;
```

```
alert("birth of date submitted");
return true;
function allnumerics(jdate)
var jdate_len = jdate.value.length;
if (jdate_len == 0)
alert("date of joining should not be empty");
birthday.focus();
return false;
alert("date of joining submitted");
return true;
function allnumeric(salary)
var sal = /[0-9] + $/;
if(salary.value.match(sal))
alert("salary submitted");
return true;
```

```
else
alert('salry is not submitted');
salary.focus();
return false;
</script>
</head>
<body>
<h1>Employee Registration Form</h1>
<form name='registration' onSubmit="return formValidation();">
ul>
<label for="first">First Name:</label>
<input type="text" name="first" size="50" />
<label for="last">Last Name:</label>
<input type="text" name="last" size="50" />
<label for="birth">Birth of date:</label>
<input type="date" id="birth" name="birth">
<label for="jdate">Date of joining:</label>
```

```
<input type="date" id="" name="jdate">
<la>li><label for="salary">salary">salary:</la>
<input type="number" id="salary" name="salary">
<input type="submit" name="submit" value="Submit" />

<pr
```

Slip3)

<u>Create an HTML form for Login and write a JavaScript to validate email</u>
<u>ID using Regular Expression.</u>

```
<html>
<head>
    <title>
        Email validation
        </title>
        <script>
        function validate()
        {
            var name=document.getElementById("t1").value;
```

```
var patt = /[A-Z a-z]{3,}[0-9]*[@]{1}[A-Z a-z]{3,}[.]{1}[A-Z a-z]{3,
z.]{2,6}$/;
                                             document.write(name.match(patt))
                                            if(name.match(patt))
                                                            alert("Email Address is Valid")
                                            else{
                                                            alert("Invalid Email Address")
                              </script>
                </head>
                <form>
                              <h1>EMAIL VALIDATION</h1>
                              Enter Email Address:<input type="text" id="t1"><br>
                              <button onClick="validate()">click</button>
              </form>
    </html>
```

<u>Slip4)</u>

<u>Create a Node.js file that will convert the output "Hello World!" into upper-case letters.</u>

```
var str="hello world"; var http=require('http');

var uc=require('upper-case');

http.createServer(function(req,res)

{
    res.writeHead(200, {'content-type':'text/html'});

    //use uppercase module

res.write(uc.upperCase(str));

res.end();
}).listen(4000);
```

Slip5)

Using nodejs create a web page to read two file names from user and append contents of first file into second file.

```
var fs=require('fs')

fs.readFile("b.txt",function(err,data)

{
    if(err)
    console.log("Error message is",err)
    else
    fs.appendFile("first.txt",data,function(err)
```

```
if(err) throw err

console.log(fs.readFileSync("first.txt","utf-8"))

console.log("Content is updated")

});
```

Slip6)

<u>Create a Node.js file that opens the requested file and returns the content to the client. If anything goes wrong, throw a 404 error</u>

```
var http=require('http');
var fs=require('fs');
var url=require('url');
http.createServer(function(request,response)

{
    var q=url.parse(request.url,true);//(request.url,true);
    var filename="."+q.pathname;
    fs.readFile(filename,function(error,data)
    {
        if(error)
        {
            response.writeHead(404,{'content-type':'text/html'});
            return response.end("404 not found");
        }
}
```

```
response.writeHead(200,{'content-type':'text/html'});
response.write(data);
response.end();
});
}).listen(3080);
```

Slip7) Create a Node.js file that writes an HTML form, with an upload field.

```
var http=require('http')
var formidable=require('formidable');
http.createServer(function(req,res)
{
    if (req.url=='\fileupload')
    {
       var form=new formidable.IncomingForm();
       form.parse(req,function(err,fields,files)
       {
            console.log(files)
            res.write('fileupload');
            res.end();
       });
```

```
}else
{
    res.writeHead(200,{'content-Type':'text/html'});
    res.write('<form action="fileupload" method="get enctype="multipart/form-data">');
    res.write('<input type="file" name="fileupload">');
    res.write('<input type="submit">');
    res.write('</forms>');
    return res.end();
}
console.log("file upload sucessfully");
}).listen(4080);
```

Slip12,Slip25)

Create a Simple Web Server using node js.

```
var http=require('http')
http.createServer(function(request,response){
    response.writeHead(200,{'content-type':'text/html'})
    response.end("Hello World");
}).listen(4000);
```

<u>Slip14)</u>

Write node js script to interact with the filesystem, and serve a web page from a file

```
var fs=require('fs')
var http=require('http')
Object=http.createServer(function(request,response)
  fs.readFile("a.txt",function(error,data){
    if(error)
      console.log("error message is",error)
    else
      fs.appendFile("first.txt",data,function(error)
      {
         fs.readFile("first.txt",function(error,data){
         var str=data.toString()
         console.log(data.toString())
         response.writeHead(200,{'content-type':'text/HTML'})
         response.write(str)
         response.end()
         });
       }):
```

```
});
});
Object.listen(2080);
```

Slip15)

Write node js script to build Your Own Node.js Module. Use require ('http') module is a built-in Node module that invokes the functionality of the HTTP library to create a local server. Also use the export statement to make functions in your module available externally. Create a new text file to contain the functions in your module called, "modules.js" and add this function to return today's date and time.

Node.js:-

```
var http=require('http')
var dt=require('./module.js')
http.createServer(function(request,response)
{
    response.writeHead(200,{'content-type':'text/HTML'});
    response.write("The date and time are currently is"+dt.myDatetime())
    response.end();
}).listen(8080);
```

Module.js

```
exports.myDatetime=function(){
  return Date();
}
```

Slip16)

<u>Create a js file named main.js for event-driven application. There should</u> be a main loop that listens for events, and then triggers a callback function when one of those events is detected.

```
const EventEmitter = require('events');
var events=require('events')
var em=new EventEmitter()
em.on('power',function(a,b)
{
    power=a;
    for(var i=1;i<=b;i++)
    power=power*a
    console.log("Power is:",power)
});
em.emit('power',2,3)</pre>
```

Django Application

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)> python --version

Python 3.11.1

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)> pip -- version

pip 22.3.1 from

C:\Users\Akshida\AppData\Local\Programs\Python\Python311\Lib\site-packages\pip (python 3.11)

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)> pip install django

Requirement already satisfied: django in

c:\users\akshida\appdata\local\programs\python\python311\lib\site-packages (4.1.4)

Requirement already satisfied: asgiref<4,>=3.5.2 in

c:\users\akshida\appdata\local\programs\python\python311\lib\site-packages (from django) (3.6.0)

Requirement already satisfied: sqlparse>=0.2.2 in

c:\users\akshida\appdata\local\programs\python\python311\lib\site-packages (from django) (0.4.3)

Requirement already satisfied: tzdata in

c:\users\akshida\appdata\local\programs\python\python311\lib\site-packages (from django) (2022.7)

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)> clear

* History restored

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)> python -- version

Python 3.11.1

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)> pip -- version

pip 22.3.1 from

C:\Users\Akshida\AppData\Local\Programs\Python\Python311\Lib\site-packages\pip (python 3.11)

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)> pip install django

Requirement already satisfied: django in

c:\users\akshida\appdata\local\programs\python\python311\lib\site-packages (4.1.4)

Requirement already satisfied: asgiref<4,>=3.5.2 in

c:\users\akshida\appdata\local\programs\python\python311\lib\site-packages (from django) (3.6.0)

Requirement already satisfied: sqlparse>=0.2.2 in

c:\users\akshida\appdata\local\programs\python\python311\lib\site-packages (from django) (0.4.3)

Requirement already satisfied: tzdata in

c:\users\akshida\appdata\local\programs\python\python311\lib\site-packages (from django) (2022.7)

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)> django-admin --version

4.1.4

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)> mkdir pro

Directory: C:\Users\Akshida\Desktop\slip\webframework\New folder (2)

Mode	LastWriteTime		Length Name
d	28-12-2022	15:10	pro

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)> cd pro PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)\pro> django-admin startproject webapplication

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)\pro> dir

Directory: C:\Users\Akshida\Desktop\slip\webframework\New folder (2)\pro

Mode	LastWriteTime		Length Name	
d	28-12-2022	15:10	webapplication	

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)\pro> cd webaplication cd : Cannot find path

'C:\Users\Akshida\Desktop\slip\webframework\New folder

(2)\pro\webaplication' because it does not exist.

At line:1 char:1

+ cd webaplication

+ ~~~~~~~~~~~~

+ CategoryInfo : ObjectNotFound:

(C:\Users\Akshid...o\webaplication:String) [Set-Loca

tion], ItemNotFoundException

+ FullyQualifiedErrorId:

Path Not Found, Microsoft. Power Shell. Commands. Set Location Command

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)\pro> cd webapplication

PS C:\Users\Akshida\Desktop\slip\webframework\New folder (2)\pro\webapplication> dir

Directory: C:\Users\Akshida\Desktop\slip\webframework\New folder (2)\pro\webapplication

Mode	LastWriteTime		Length Name
			·
d	28-12-2022	15:10	webapplication
-a	28-12-2022	15:10	692 manage.py

PS C:\Users\Akshida\Desktop\slip\webframework\New folder

(2)\pro\webapplication> cd webapplication

PS C:\Users\Akshida\Desktop\slip\webframework\New folder

(2)\pro\webapplication\webapplication> dir

Directory: C:\Users\Akshida\Desktop\slip\webframework\New folder (2)\pro\webapplication\webapplication

Mode	LastWriteTime		Length Name
-a	28-12-2022	15:10	421 asgi.py
-a	28-12-2022	15:10	3368 settings.py
-a	28-12-2022	15:10	777 urls.py
-a	28-12-2022	15:10	421 wsgi.py
-a	28-12-2022	15:10	0initpy

PS C:\Users\Akshida\Desktop\slip\webframework\New folder

(2)\pro\webapplication\webapplication> python manage.py runserver

C:\Users\Akshida\AppData\Local\Programs\Python\Python311\python.exe: can't open file 'C:\\Users\\Akshida\\Desktop\\slip\\webframework\\New folder (2)\\pro\\webapplication\\webapplication\\manage.py': [Errno 2] No such file or directory

PS C:\Users\Akshida\Desktop\slip\webframework\New folder

(2)\pro\webapplication\webapplication> cd..

PS C:\Users\Akshida\Desktop\slip\webframework\New folder

(2)\pro\webapplication> python manage.py runserver

Watching for file changes with StatReloader

Performing system checks...

System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin, auth, contenttypes, sessions. Run 'python manage.py migrate' to apply them.

December 28, 2022 - 15:12:55

Django version 4.1.4, using settings 'webapplication.settings'

Starting development server at http://127.0.0.1:8000/

Quit the server with CTRL-BREAK.

[28/Dec/2022 15:13:20] "GET / HTTP/1.1" 200 10681

[28/Dec/2022 15:13:20] "GET /static/admin/css/fonts.css HTTP/1.1" 200 423

[28/Dec/2022 15:13:20] "GET /static/admin/fonts/Roboto-Light-webfont.woff HTTP/1.1" 200 85692

[28/Dec/2022 15:13:20] "GET /static/admin/fonts/Roboto-Regular-webfont.woff HTTP/1.1" 200 85876

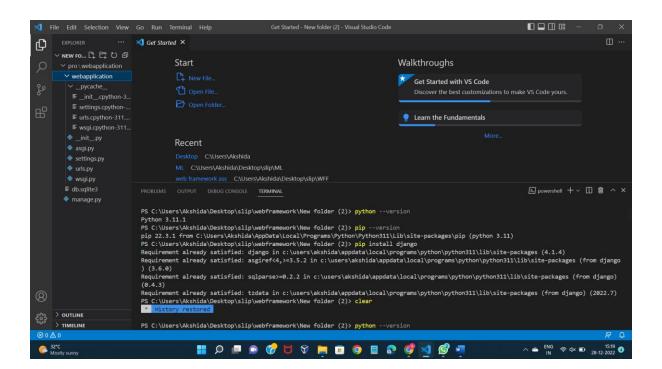
[28/Dec/2022 15:13:20] "GET /static/admin/fonts/Roboto-Bold-webfont.woff HTTP/1.1" 200 86184

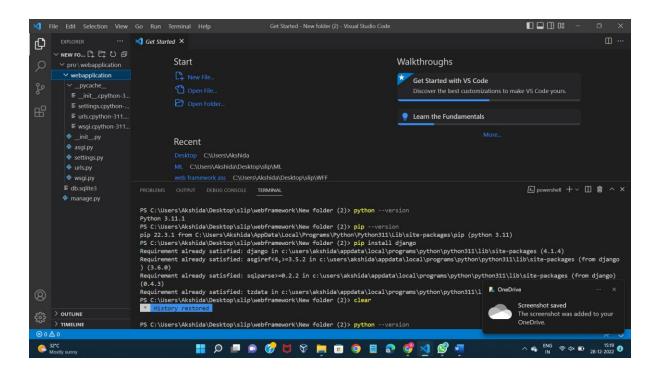
Not Found: /favicon.ico

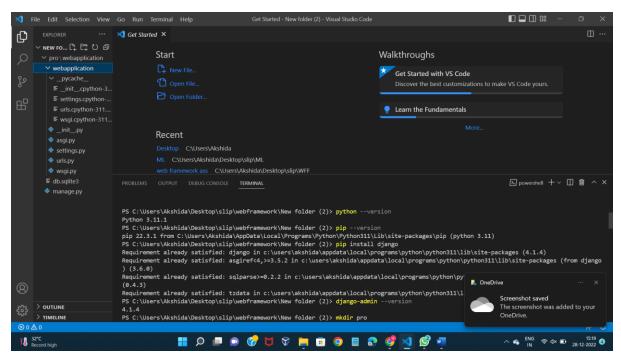
[28/Dec/2022 15:13:21] "GET /favicon.ico HTTP/1.1" 404 2118

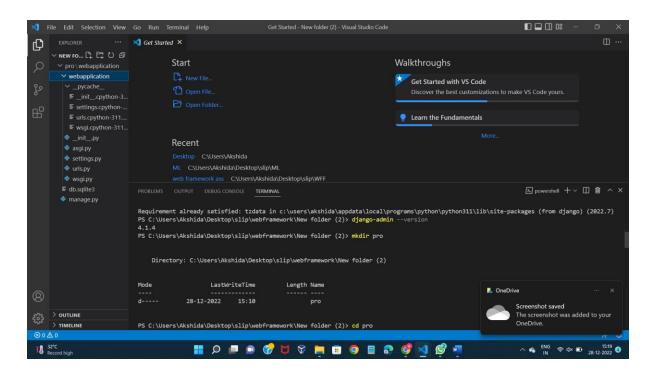
PS C:\Users\Akshida\Desktop\slip\webframework\New folder

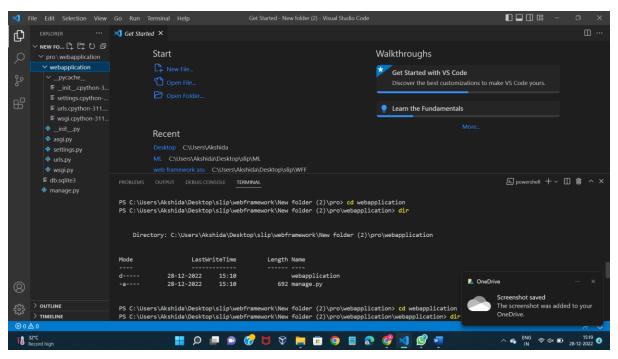
(2)\pro\webapplication>

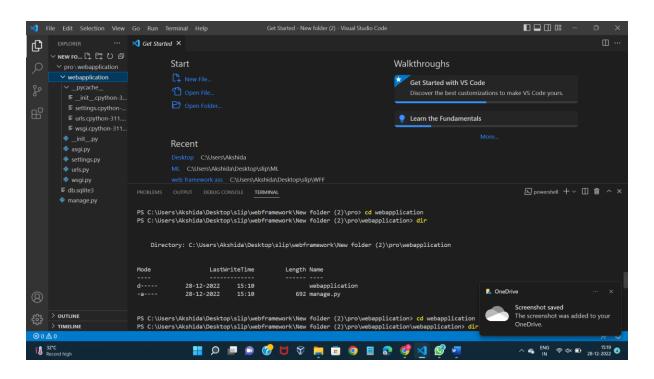


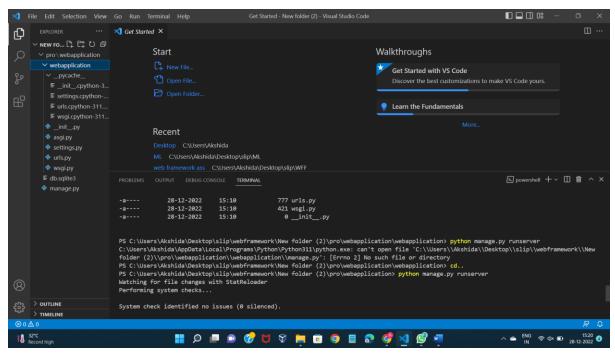


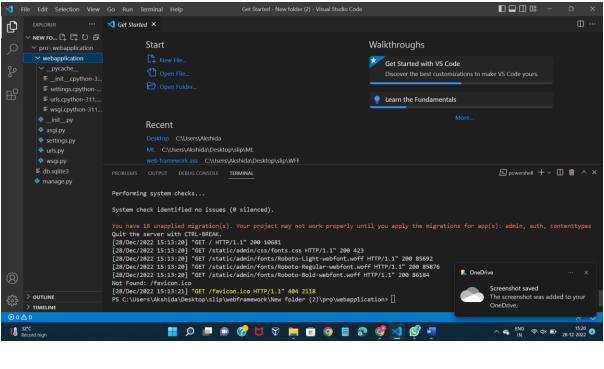
















View release notes for Django 4.1



The install worked successfully! Congratulations!

You are seeing this page because DEBUG=True is in your settings file and you have not configured any URLs.

