

### ASSIGNMENT 3

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Student Roll Number	961819104040
Maximum Marks	2 Marks

#### INDEX.HTML:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8" />
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
```

```
<meta name="viewport" content="width=device-width,  
initial-scale=1.0" />
```

```
<title>Home</title>
```

```
<script>
```

```
window.watsonAssistantChatOptions = {
```

```
  integrationID: "6ab36d7d-b59e-4964-bc8a-44cb324ca125",
```

```
// The ID of this integration.
```

```
  region: "au-syd", // The region your integration is hosted in.
```

```
  serviceInstanceID: "04f4c174-6106-47a5-8a6f-
```

```
71ef403473e3", // The ID of your service instance.
```

```
  onLoad: function(instance) { instance.render(); }
```

```
};
```

```
setTimeout(function(){
```

```

        const t=document.createElement('script');

        t.src="https://web-
chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";

        document.head.appendChild(t);

    });
</script>
</head>
<body>
    <form action="/uploader" method="POST"
enctype="multipart/form-data">
        <input type="text" placeholder="Enter file name"
name="filename" />
        <br />
        <br />
        <input type="file" name="file" />
        <br />
        <br />
        <input type="submit" />
    </form>
    <br/>
    <br/>
    <br/>
    {% for row in files %}

```

```

        <div style="border: 1px solid #EFEFEF;margin:10px;">
            <h3>Filename : {{row}} </h3>
            </td>
        </div>
    {% endfor %}
</body>
</html>

```

```

from flask import Flask, render_template, request, redirect, url_for,
session

```

### **App.py:**

```

    Import io

    from flask import
    Flask,redirect,url_for,render_template,request

    import ibm_boto3

    from ibm_botocore.client import Config, ClientError


    COS_ENDPOINT="https://s3.jp-tok.cloud-object-
storage.appdomain.cloud"

    COS_API_KEY_ID=""

    COS_INSTANCE_CRN=""

```

```
cos = ibm_boto3.resource("s3",
    ibm_api_key_id=COS_API_KEY_ID,
    ibm_service_instance_id=COS_INSTANCE_CRN,
    config=Config(signature_version="oauth"),
    endpoint_url=COS_ENDPOINT
)
```

```
app=Flask(__name__)
```

```
@app.route('/')
def index():
```

```
    try:
```

```
        files = cos.Bucket('hospital-flask').objects.all()
```

```
        files_names = []
```

```
        for file in files:
```

```
            files_names.append(file.key)
```

```
            print(file)
```

```
            print("Item: {0} ({1} bytes)".format(file.key, file.size))
```

```
return render_template('index.html',files=files_names)
```

```
except ClientError as be:
```

```
    print("CLIENT ERROR: {0}\n".format(be))
```

```
    return render_template('index.html')
```

```
except Exception as e:
```

```
    print("Unable to retrieve bucket contents: {0}".format(e))
```

```
    return render_template('index.html')
```

```
@app.route('/uploader',methods=['POST'])
```

```
def upload():
```

```
    name_file=request.form['filename']
```

```
    f = request.files['file']
```

```
    try:
```

```
        part_size = 1024 * 1024 * 5
```

```
file_threshold = 1024 * 1024 * 15
```

```
transfer_config = ibm_boto3.s3.transfer.TransferConfig(
```

```
    multipart_threshold=file_threshold,
```

```
    multipart_chunksize=part_size
```

)

```
content = f.read()
```

```
cos.Object('hospital-flask', name_file).upload_fileobj(
```

```
    Fileobj=io.BytesIO(content),
```

```
    Config=transfer_config
```

```
)
```

```
return redirect(url_for('index'))
```

```
except ClientError as be:
```

```
    print("CLIENT ERROR: {0}\n".format(be))
```

```
    return redirect(url_for('index'))
```

```
except Exception as e:
```

```
    print("Unable to complete multi-part upload:  
{0}".format(e))
```

```
    return redirect(url_for('index'))
```

```
if __name__ == '__main__':
```

```
app.run(host='0.0.0.0',port=8080,debug=True)
```