

### ASSIGNMENT 3

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#### 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.c
loud"

    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)
```