

Assignment-3

Date	10October2022
TeamID	PNT2022TMID30621
ProjectName	SkillandJobRecommenderA pplication

1. CREATE A BUCKET IN IBM OBJECT STORAGE.

Cloud Object Storage - IBM Cloud

cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2Fe10021918b9746d28a20595dae26be6c...

IBM Cloud

Search resources and products...

Catalog Manage Navanitha M's Account

Cloud Object Storage

Storage instances

Cloud Object Storage-xp

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Buckets

Buckets serve as containers for objects, and can be individually configured in terms of their location, resiliency, billing rates, security, and object lifecycle rules.

Search

Create bucket +

Name	Public access ⓘ	Location ⓘ	Storage class	Created
7skillbot	Yes	jp-tok	Smart Tier	2022-11-06 5:47 PM

Activate Windows
Go to Settings to activate Windows

Upload an 5 images to ibm object storage and make it public. Writehtmlcodetodisplayingall the5images.

Cloud Object Storage - IBM Cloud

cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2Fe10021918b9746d28a20595dae26be6c...

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Objects

Configuration

Permissions

If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads

Learn more

Prefix filter

Upload

Object name	Archived	Size	Last modified
WhatsApp Image ... t 5.56.14 PM.jpeg		62.2 KB	2022-11-06 6:02 PM
WhatsApp Image 20...56.15 PM (1).jpeg		77.3 KB	2022-11-06 6:02 PM
WhatsApp Image ... t 5.56.15 PM.jpeg		74.3 KB	2022-11-06 6:03 PM
WhatsApp Image 20...56.16 PM (1).jpeg		74.3 KB	2022-11-06 6:02 PM
WhatsApp Image ... t 5.56.16 PM.jpeg		61.6 KB	2022-11-06 6:02 PM

Drag and drop files (objects) here or click to upload

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Cloud Object Storage - IBM Cloud

cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2Fe10021918b9746d28a20595dae26be6c...

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level viewer role (or higher) to use the console or to list buckets using the REST API.

Access policies

Public access

Warning: Granting Public access to this bucket will allow anyone to access the

Learn more

Access policy update

Access group policy created

A new access policy for this bucket was created for the group: Public Access

To delete/edit go to the IAM console.

Create access policy

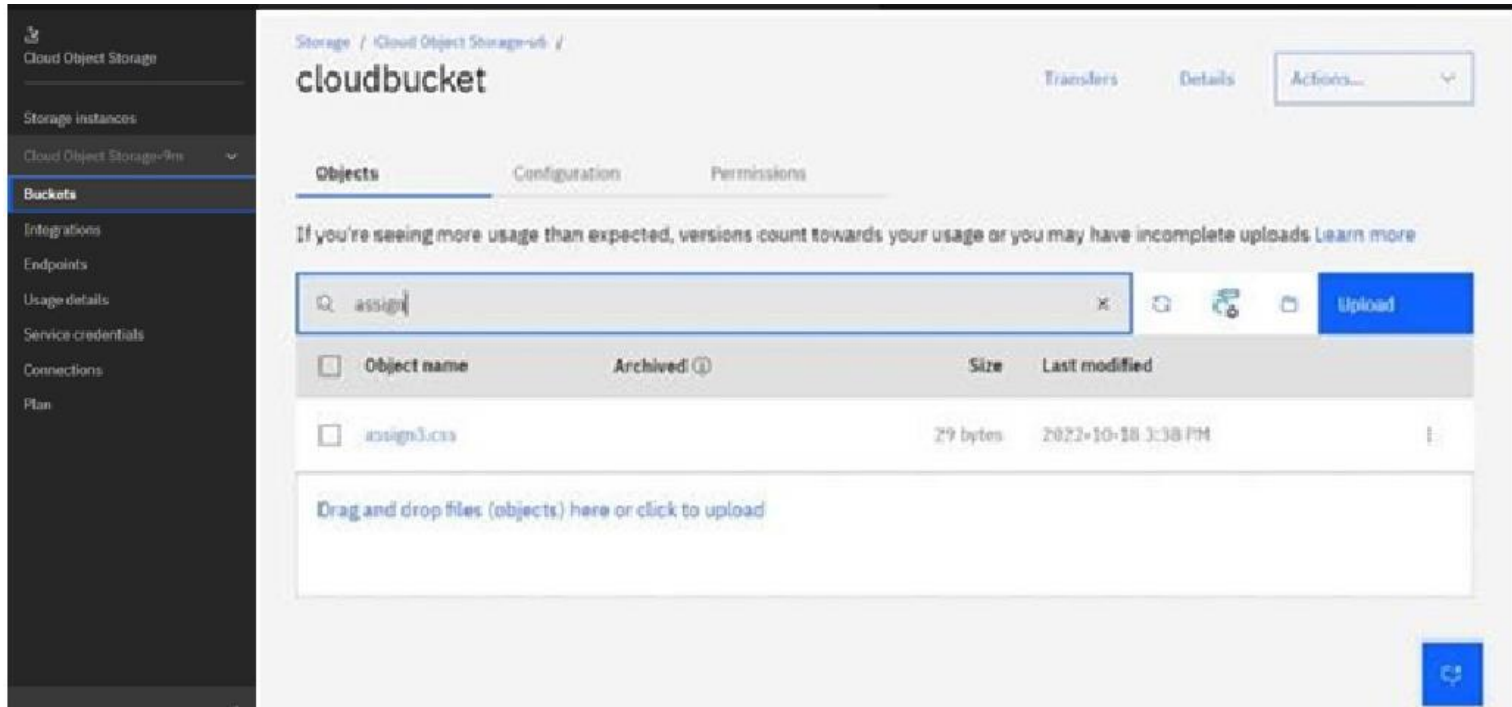
Context-based restrictions

Firewall (legacy)

Activate Windows

Go to Settings to activate Windows

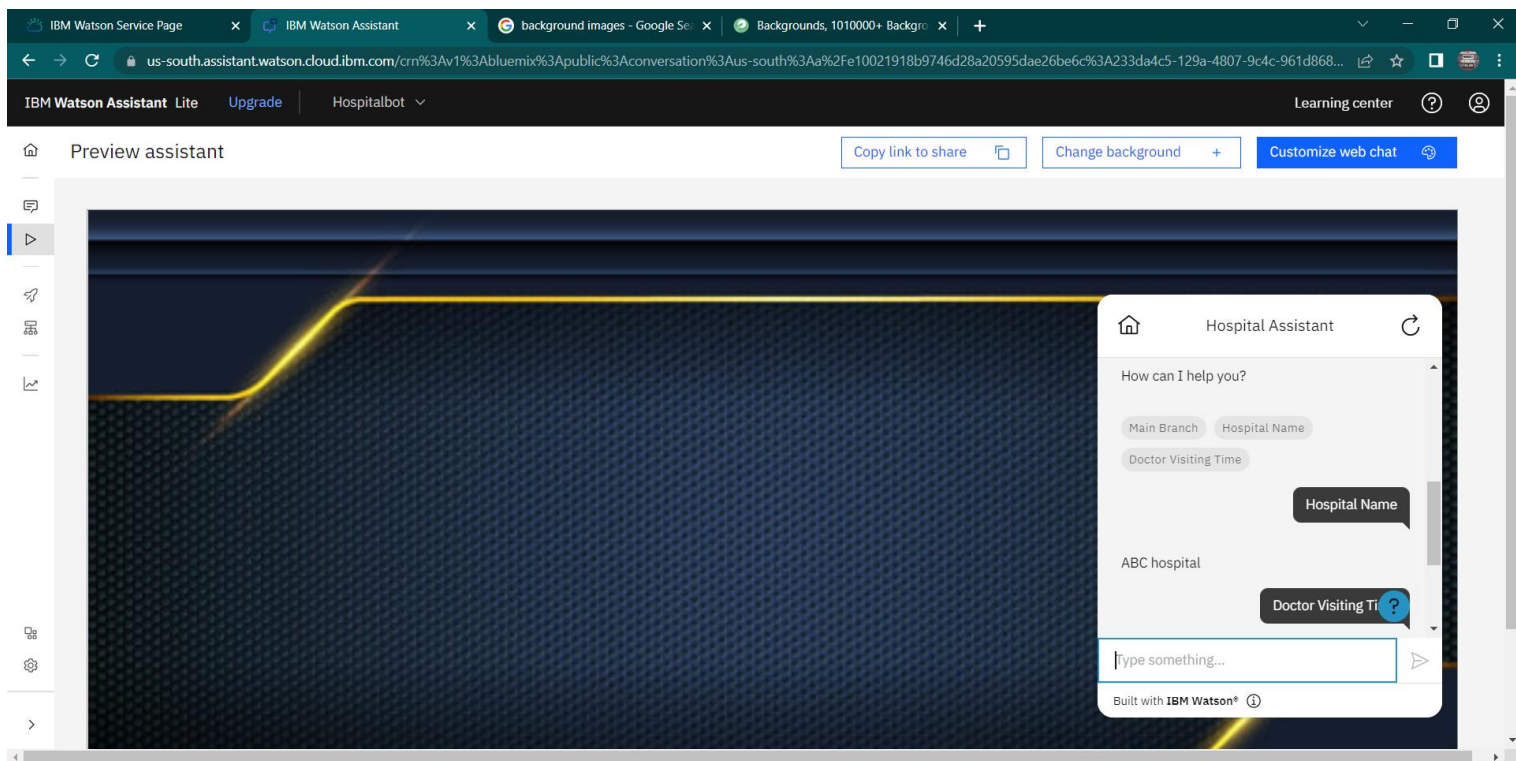
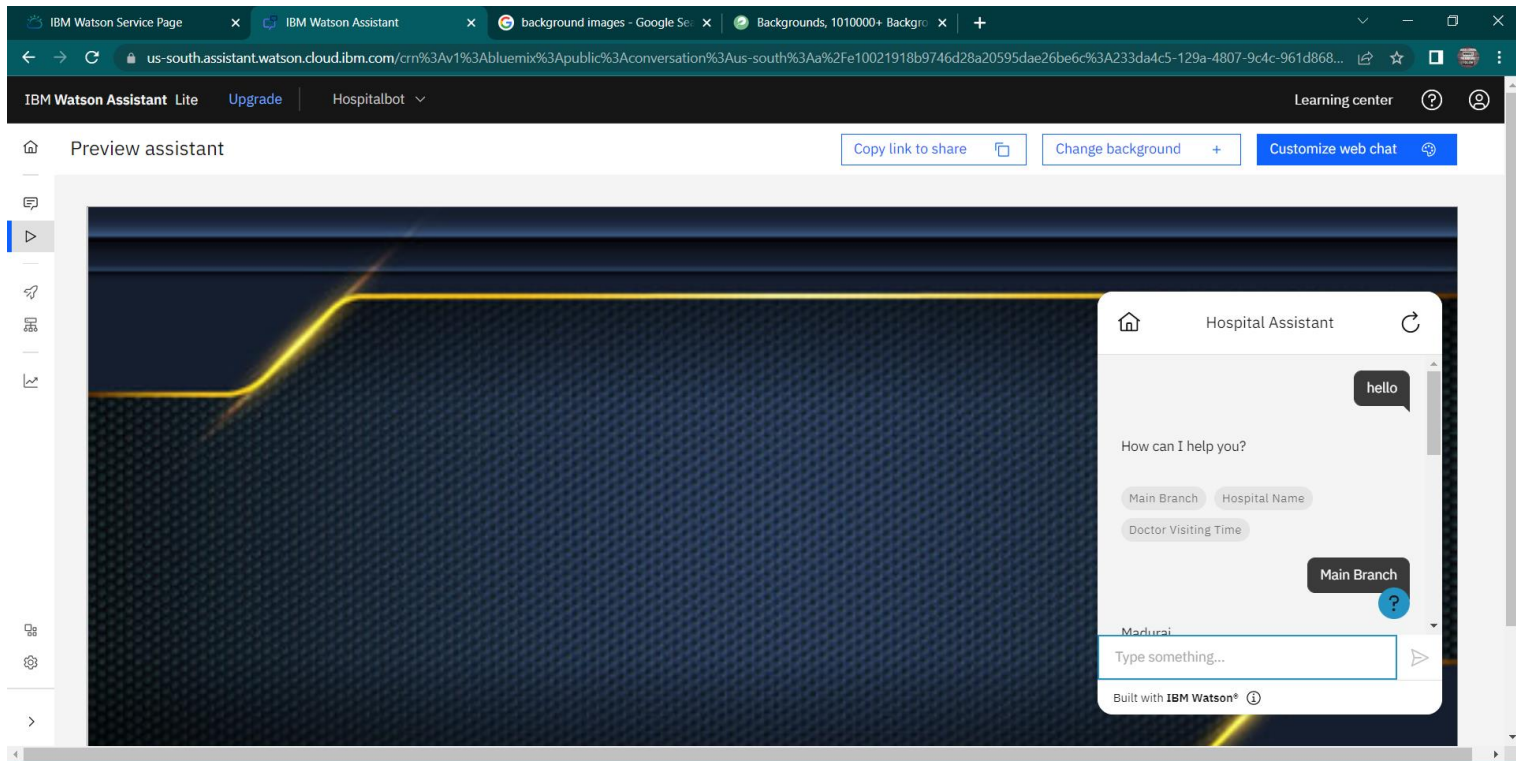
2. Upload a css page to the object storage and use the same page in yourHTMLcode.



```
*Untitled - Notepad
File Edit Format View Help
<!DOCTYPEhtml>
<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>
<link rel="stylesheet" href="{{url_for('redirect to', link='https://s3.jp-tok.cloud-object-storage.appdomain.cloud/cloudbucket/assign3.css')}}" type="text/css">
<script>
window.watsonAssistantChatOptions = {
  integrationID: "ae181292-a140-4a37-9496-a0765d2ef42a", // The ID of this integration.
  region: "us-south", // The region your integration is hosted in.
  serviceInstanceID: "233da4c5-129a-4807-9c4c-961d868ee119", // 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 filename" name="filename"/>
<br/>
<br/>
<input type="file" name="file"/>
<br/>
<br/>
<input type="submit"/>
</form>
<br/>
<br/>
<br/>
<div style="border: 1px solid #E0E0E0; margin: 10px;">
<table>
<tr>
<th>Filename: {{row}}</th>
<td>
</td>
</tr>
</table>
</div>
```

3. Design a chatbot using IBM Watson assistant for hospital.



WebURL forAssistant:

<https://web->

chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https%3A%2F%2Fus-south.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-233da4c5-129a-4807-9c4c-961d868ee119%3A%3Aaee7fa08-b947-43b6-9739-f0c943bf27bc&integratio

4. Create Watson assistant service with 10 steps and use 3 conditions init.Load thatscriptin HTML page.

The screenshot displays the IBM Watson Assistant interface. The top navigation bar includes the IBM logo, tabs for 'IBM Watson Service Page', 'IBM Watson Assistant', and 'New Tab', and a search bar. The main header shows 'IBM Watson Assistant Lite', 'Upgrade', 'Hospital bot', and 'Learning center'. The chatbot interface on the left shows a conversation with a user. The user has provided 'Male' for gender and 'Cardiologist' and 'Ortho' for the specialist. The chatbot has responded with 'Hello' and 'Which specialist are you looking for?'. The configuration panel on the right shows 'Step 7 is taken with conditions'. The conditions section shows a single condition: 'If All of this is true: 6. Which specialist ... is Other'. The assistant's response is 'Please mention your preferred specialist!'. The chatbot interface also shows a 'New step' button and a 'Preview' button.

IBM Watson Assistant Lite Upgrade Hospital bot Learning center

Hello

Continue to next step

5 is Male

Which specialist are you looking for?

6 Cardiologist Ortho +2

Re-ask previous step(s)

6 is Other

7 Please mention your preferred specialist!

Continue to next step

8 At what time would you like to visit the doctor?

Time

Continue to next step

8 is 01:00 PM

We will let you know your appointment details in few minutes.

9 New step +

Step 7 is taken with conditions

Conditions 1 condition

If All of this is true:

6. Which specialist ... is Other

and Add condition +

New condition group +

Assistant says

Please mention your preferred specialist!

User enters free text

Preview

Included 3 conditions in steps:

The screenshot displays the IBM Watson Assistant interface for configuring a bot named 'Hospital bot'. The left sidebar shows a list of conversation steps. Step 2 is highlighted, showing a condition '1 is Hospital name' and a 'Free text' input field. The main panel shows the configuration for Step 2, which is taken 'with conditions'. The conditions section shows a single condition: 'If All of this is true: 1. How can I help yo... is Hospital name'. The 'Assistant says' section shows a text box with 'ABC Hospital' and a 'Preview' button.

IBM Watson Assistant Lite Upgrade Hospital bot Learning center

Hello

Conversation steps

How can I help you?

1 is Hospital name Main branch +1

Continue to next step

2 is Hospital name

ABC Hospital

Free text

Re-ask previous step(s)

3 is Main branch

Chennai

Free text

Re-ask previous step(s)

4 is Doctor visiting time

Between 10am to 4pm.

Free text

New step +

Step 2 is taken with conditions

Conditions 1 condition

If All of this is true:

1. How can I help yo... is Hospital name

and Add condition +

New condition group +

Assistant says

ABC Hospital

User enters free text

Preview

The screenshot displays the IBM Watson Assistant interface for configuring a bot named 'Hospital bot'. The left sidebar shows a list of conversation steps. Step 7 is highlighted, showing a condition '6 is Other' and a 'Free text' input field. The main panel shows the configuration for Step 7, which is taken 'with conditions'. The conditions section shows a single condition: 'If All of this is true: 6. Which specialist ... is Other'. The 'Assistant says' section shows a text box with 'Please mention your preferred specialist!' and a 'Preview' button.

IBM Watson Assistant Lite Upgrade Hospital bot Learning center

Hello

Conversation steps

Continue to next step

5 is Male

Which specialist are you looking for?

6 is Cardiologist Ortho +2

Re-ask previous step(s)

7 is Other

Please mention your preferred specialist!

Free text

Continue to next step

8 is Time

At what time would you like to visit the doctor ?

Continue to next step

8 is 01:00 PM

We will let you know your appointment details in few minutes.

9

New step +

Step 7 is taken with conditions

Conditions 1 condition

If All of this is true:

6. Which specialist ... is Other

and Add condition +

New condition group +

Assistant says

Please mention your preferred specialist!

User enters free text

Preview

IBM

IBM Watson Service Page

IBM Watson Assistant

New Tab

us-south.assistant.watson.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Aconversation%3Aus-south%3Aa%2Fd09ee29f829344568851734f3a63206d%3Abb064674-31ff-4033-83f7-67e4d865...

IBM Watson Assistant LiteUpgradeHospital bot

Learning center

Hello

6 is Other

Please mention your preferred specialist!

7

Free text

Continue to next step

8

At what time would you like to visit the doctor ?

Time

Continue to next step

8 is 01:00 PM

We will let you know your appointment details in few minutes.

9

Free text

Continue to next step

9 is Defined

Your appointment is fixed at 1.30pm.

10

Action complete

New step +

Step 9 is taken with conditions

Conditions1 condition

If All of this is true:

8. At what time wou... is at 01:00 PM

and Add condition +

New condition group +

Assistant says

We will let you know your appointment details in few minutes.

User enters free text

Preview

Index.html

```
<!DOCTYPEhtml>

<htmllang="en">

<head>

  <metacharset="UTF-8"/>

  <metahttp-equiv="X-UA-Compatible"content="IE=edge"/>

  <metaname="viewport"content="width=device-width,initial-scale=1.0"/>

  <title>Home</title>

<linkrel="stylesheet"href="{ {url_for('redirect_to',link='https://s3.jp-tok.cloud-object-storage.appdomain.cloud/cloudbucket/assign3.css')} }"type="text/css">
<script>
window.watsonAssistantChatOptions = {
  integrationID: "ae181292-a140-4a37-9496-a0765d2ef42a", // The ID of this integration.
  region: "us-south", // The region your integration is hosted in.
  serviceInstanceID: "233da4c5-129a-4807-9c4c-961d868ee119", // 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>

  <formaction="/uploader"method="POST"enctype="multipart/form-data">

    <inputtype="text"placeholder="Enterfilename"name="filename"/>

    <br/>

    <br/>

    <inputtype="file"name="file"/>

    <br/>

    <br/>

    <inputtype="submit"/>
```



```

</form>

<br/>

<br/>

<br/>

{ %forrowinfiles % }

    <divstyle="border:1pxsolid#EFEFEF;margin:10px;">
        <h3>Filename:{ {row} }</h3>
        </td>
    </div>

{ %endfor% }

</body>

</html>

```

App.py

```

import io

from flask import

Flask,redirect,url_for,render_template,requestimport ibm_boto3

fromibm_botocore.client importConfig,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_A
    PI_KEY_ID,ibm_service_instance_id=COS_INST
    ANCE_CRN,config=Config(signature_version="oa
    uth"),endpoint_url=COS_ENDPOINT

)

```

```
app=Flask(name)
```

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

```
index():try:
```

```
    files =
```

```
    cos.Bucket('cloudbucket').objects.all()files_n
```

```
    ames=[]
```

```
    for file in
```

```
        files:files_names.append(file
```

```
        .key)print(file)
```

```
        print("Item: {0} ({1} bytes)".format(file.key,  
        file.size))returnrender_template('index.html',files=files_na  
        mes)
```

```
exceptClientErrorasbe:
```

```
    print("CLIENT ERROR:
```

```
    {0}\n".format(be))returnrender_template('in  
    dex.html')
```

```
exceptExceptionase:
```

```
    print("Unable to retrieve bucket contents:
```

```
    {0}").format(e))returnrender_template('index.html')
```

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

```
def
```

```
upload():name_file=request.form['filenam  
e']
```

```
    f =
```

```
    request.files['file']try:
```

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

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

```
transfer_config =
```

```
    ibm_boto3.s3.transfer.TransferConfig(multipart_thre  
    shold=file_threshold,
```

```

        multipart_chunksize=part_size
    )

    content=f.read()
    cos.Object('cloudbucket',
               name_file).upload_fileobj(Fileobj=io.BytesIO
               (content),Config=transfer_config
    )
    returnredirect(url_for('index'))

```

```

except ClientError as be:
    print("CLIENT ERROR:
    {0}\n".format(be))returnredirect(url_for('index'))

```

```

except Exception as e:
    print("Unable to complete multi-part upload:
    {0}".format(e))returnredirect(url_for('index'))

```

```

if name == '__main__':
    app.run(host='0.0.0.0',port=8080,debug=True)

```