Assignment-3 IBMObjectStorage and IBMWatsonAssistant

AssignmentDate	280ctober2022
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StudentRollNumber	961819104085
MaximumMarks	2Marks

Question1:

CreateaBucketinIBMobject storage.

Solution:

ibmCloudTest.py

importibm_boto3

fromibm_botocore.clientimportConfig,ClientError

 $from ibm_s3 transfer. as pera.manager importAs peraTransfer Manag$

erfromibm_s3transfer.aspera.managerimportAsperaConfig

fromflaskimportFlask,render_template,url_for,request,redirect

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

storage.appdomain.cloud"COS_API_KEY_ID="wprEMAxyjHj5sPI959w

L_3HJczOWRbYn52XUuLrDSJON"

COS_INSTANCE_CRN="crn:v1:bluemix:public:cloud-object-storage:global:a/602bcedcf9224f7b8c2e1aed60258292:b846251f-3216-44c8-b123-4e13e3571cda::"

```
cos =
```

)

```
ibm_boto3.resource("s3",ibm_api_key_id=C0
S_API_KEY_ID,ibm_service_instance_id=COS_
INSTANCE_CRN,config=Config(signature_ver
sion="oauth"),endpoint_url=COS_ENDPOINT
```

ms_transfer_config = AsperaConfig(multi_session=2, multi_session_threshold_mb=100)transfer_manager=AsperaTransferManager(client=client, transfer_config=ms_transfer_config) app=Flask(name)

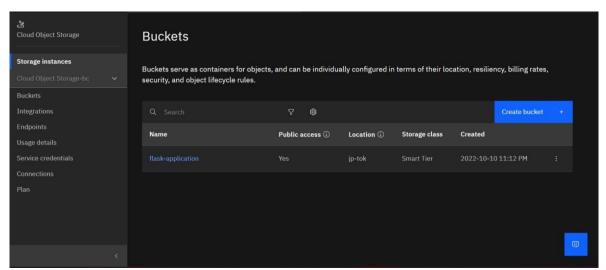
```
bucket_name = "flask-
application"download_filename =
"E:\IMS\static\css\Styles.css"object_name
="Styles.css"
withAsperaTransferManager(client)astransfer_manager:
 future=transfer_manager.download(bucket_name,object_name,download_filename)futur
 e.result()
defget_item(bucket_name,item_name):
 print("Retrievingitemfrombucket:{0},key:{1}".format(bucket_name,item_name))tr
 y:
    file = cos.Object(bucket_name,
    item_name).get()print("FileContents:{0}".format(fil
    e["Body"].read()))
 exceptClientErrorasbe:
   print("CLIENT ERROR:
 {0}\n".format(be))except Exception ase:
    print("Unabletoretrievefilecontents:{0}".format(e))
defget_bucket_contents(bucket_name):
 print("Retrievingbucketcontentsfrom:{0}".format(bucket_name))
 try:
    files=cos.Bucket(bucket_name).objects.
    all()files_names=[]
   print(files)
    forfile
      infiles:files_names.appen
      d(file.key)
      print("Item:{0}({1}bytes).".format(file.key,file.size)
    )returnfiles_names
 exceptClientErrorasbe:
   print("CLIENT ERROR:
```

{0}\n".format(be))except Exception ase:

print("Unabletoretrievebucketcontents:{0}".format(e))

```
@app.route('/')
defindex():
    files = get_bucket_contents('flask-
        application')returnrender_template('index.ht
    ml',files=files)

if name=='main': _
    app.run(debug=True)
```



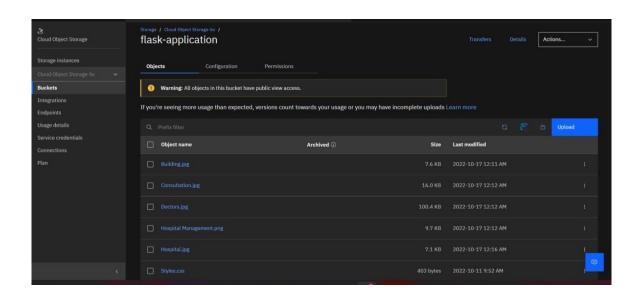
Question2:

Upload5imagestoibmobject storageandmakeitpublic.writehtmlcodetodisplaying allthe5images.

Solution:

```
index.html
```

```
<h1>IBMCloudStorageandIBMWatsonAssistant</h1>
<br><hr>
{%blockhead%}
<!--CSS-->
<lirkrel="stylesheet"href="{{url_for('static',filename='css/Styles.css')}}"/>
{%endblock%}
<script>window.watsonAssistantChatOp
 tions ={
  integrationID: 8abe6aef-f2bb-4376-be93-
  7fda1857ec36",//ThelDofthisintegration.region: "jp-tok", // The region
  yourintegrationishosted in.
  serviceInstanceID: "440aaee1-fbb4-4c2b-8604-cb5d605fa157", // The ID of your service
  instance.onLoad: function(instance) { instance.render();}
 };
 setTimeout(function(){
  constt=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>
<!doctypehtml>
<html>
 <body>
  {%forrowinfiles%}
```



Question3:

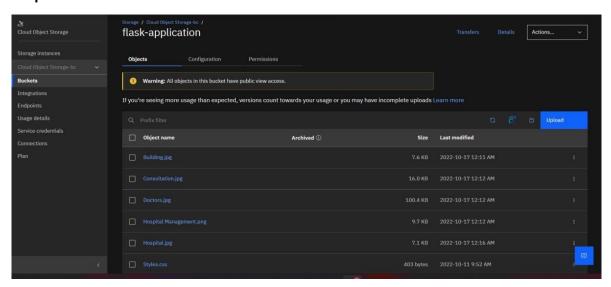
UploadacsspagetotheobjectstorageandusethesamepageinyourHTML code.

Solution:

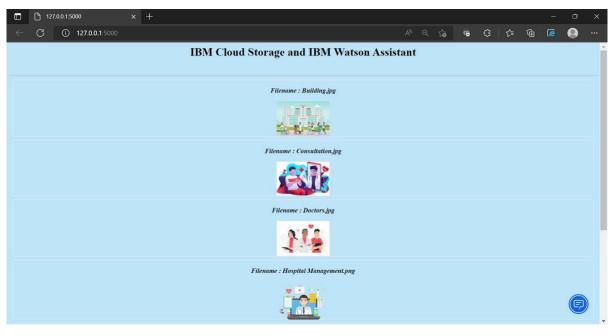
```
Styles.css
```

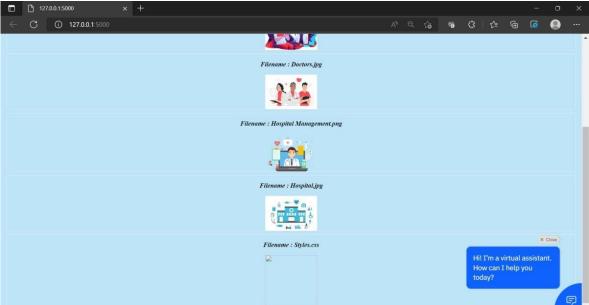
```
body{
  background-
  color:rgb(190,229,247);text-
  align:center;
  font-style:italic;
}
.outercont
{
  height:
  100vh;width:
  100vw;displa
  y:flex;
  flex-direction:column;
  justify-content:
                       space-
  around; align-items: center;
}
p{
  font-size:20px;
}
h1{
  text-align:
  center;font-
  style:normal;
}
h2{
  text-align:center;
}
.cont {
  width:700px;
}
```

```
.leftcont{
   font-size:17px;
}
.rightcont{
   font-size:17px;
}
.othercont
   {display:flex;
}
```



Web Page:





Question-4:

Designachatbot

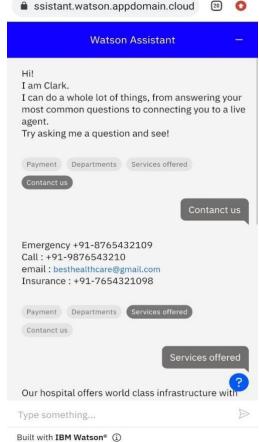
usingIBMWatsonassistantforhospital.Ex:Usercomeswithquerytoknowthebranchesforthat hospitalinyourcity.Submit thewebURLofthat chat botasaassignment.

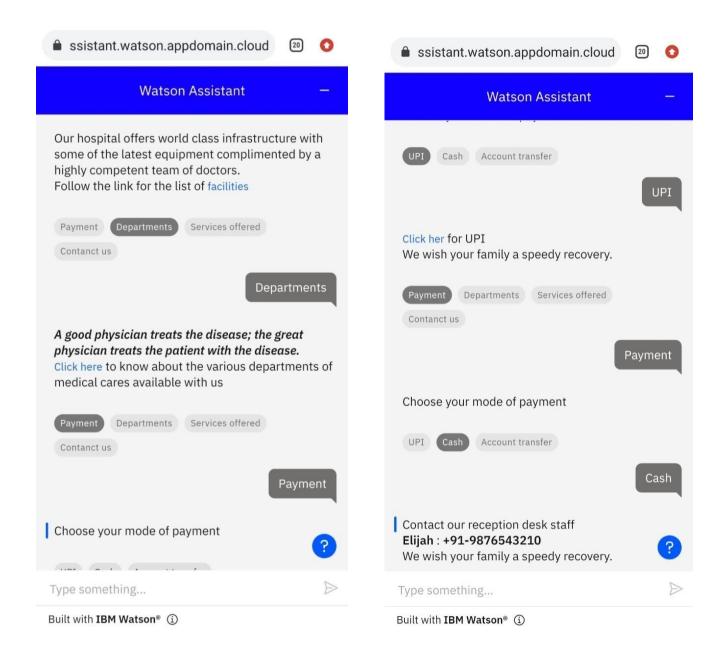
Solution:

https://web-

chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https% 3A%2F%2Fjp-tok.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-440aaee1-fbb4-4c2b-8604-cb5d605fa157%3A%3Affa26b03-3295-42fd-a098-6723615c4e58&integrationID=a3e3b932-8ee4-43ee-9ccb-f3cfa9687188®ion=jp-tok&serviceInstanceID=440aaee1-fbb4-4c2b-8604-cb5d605fa157







Question-5:

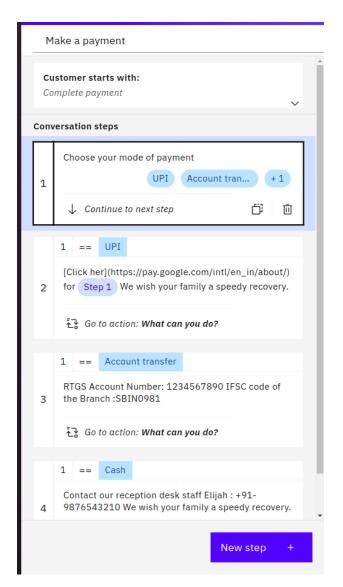
5. Create Watson assistants ervice with 10 steps and use 3 conditions in it. Load that script in HTML page.

Solution:

```
<script>window.watsonAssistantChatOp
tions ={
  integrationID:"8abe6aef-f2bb-4376-be93-
  7fda1857ec36",//TheIDofthisintegration.region: "jp-tok", //Theregion
  yourintegrationishosted in.
  serviceInstanceID: "440aaee1-fbb4-4c2b-8604-cb5d605fa157", // The ID of your service
  instance.onLoad: function(instance) { instance.render();}
};
setTimeout(function(){
  constt=document.createElement('script');
  t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/"
+(window.watsonAssistantChatOptions.clientVersion||'latest')+"/WatsonAssistantChatEntry.j
s";
  document.head.appendChild(t);
});
</script>
```

Steps:

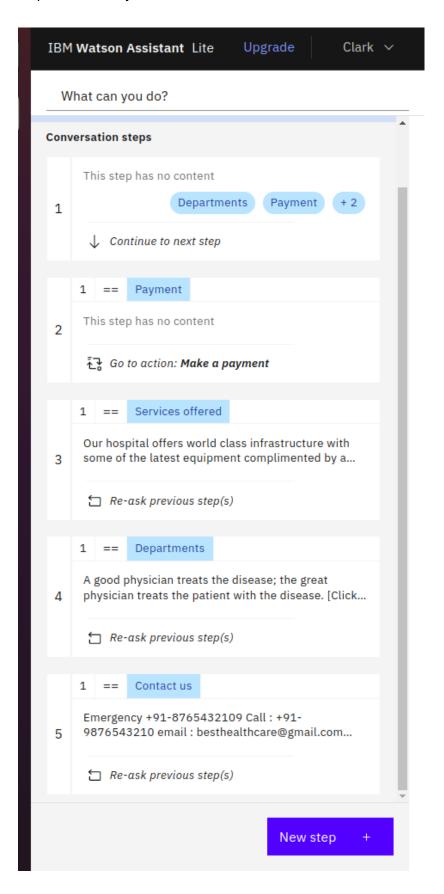
Stepsinpayment



Stepsinlocation



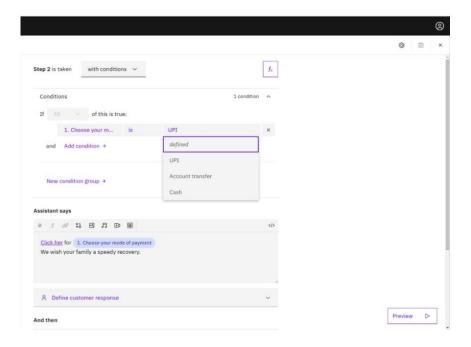
stepsinWhat canyoudo



Conditions:

Conditionsinpayment

- UPI
- Accounttransfer
- Cash



ConditionsinWhat canyoudo

- Departments
- Payment
- Servicesoffered
- Contact us

