Assignment -3 IBM Object Storage and IBM Watson Assistant

Assignment Date	28 October 2022
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Student Roll Number	961819104012
Maximum Marks	2 Marks

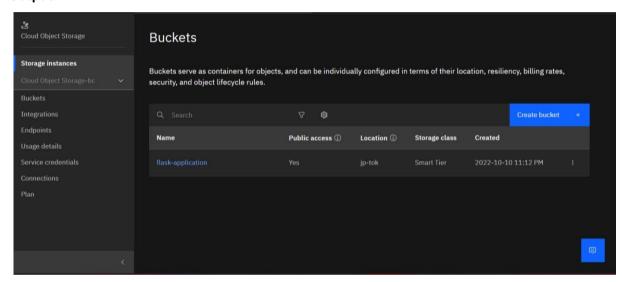
Question 1:

app=Flask(__name__)

```
Create a Bucket in IBM object storage.
Solution:
ibmCloudTest.py import ibm_boto3 from ibm_botocore.client
import Config, ClientError from ibm_s3transfer.aspera.manager
import AsperaTransferManager from
ibm_s3transfer.aspera.manager import AsperaConfig from flask
import Flask, render_template, url_for, request, redirect
COS_ENDPOINT="https://s3.jp-tok.cloud-object-storage.appdomain.cloud"
COS_API_KEY_ID="wprEMAxyjHj5sPI959wL_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=COS API KEY ID,
ibm_service_instance_id=COS_INSTANCE_CRN,
config=Config(signature_version="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)
```

```
bucket_name = "flask-application" download_filename
= "E:\IMS\static\css\Styles.css" object_name =
"Styles.css"
with AsperaTransferManager(client) as transfer_manager:
  future = transfer manager.download(bucket name, object name, download filename)
  future.result()
def get_item(bucket_name, item_name):
  print("Retrieving item from bucket: {0}, key: {1}".format(bucket_name, item_name))
  try:
    file = cos.Object(bucket_name, item_name).get()
ClientError as be:
    print("CLIENT ERROR: {0}\n".format(be))
except Exception as e:
    print("Unable to retrieve file contents: {0}".format(e))
def get_bucket_contents(bucket_name):
  print("Retrieving bucket contents from: {0}".format(bucket_name))
  try:
    files = cos.Bucket(bucket_name).objects.all()
files_names = []
    print(files)
for file in files:
      files_names.append(file.key)
                                       print("Item: {0}
({1} bytes).".format(file.key, file.size))
                                       return
files_names except ClientError as be:
    print("CLIENT ERROR: {0}\n".format(be))
except Exception as e:
    print("Unable to retrieve bucket contents: {0}".format(e))
```

```
@app.route('/') def
index():
    files = get_bucket_contents('flask-application')
return render_template('index.html', files = files)
if __name__ ==' __main__':
app.run(debug=True)
```



Question 2:

Upload 5 images to ibm object storage and make it public. write html code to displaying all the 5 images.

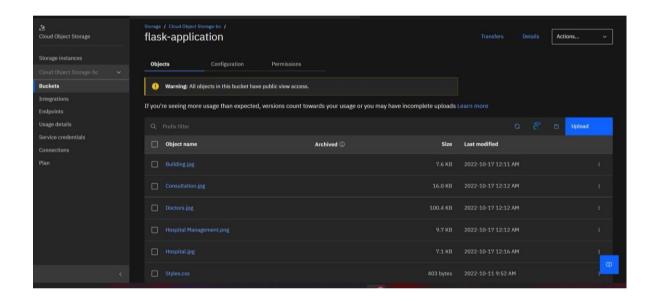
```
Solution: index.html
<h1>IBM Cloud Storage and IBM Watson Assistant</h1>
<hr><hr>
{% block head %}
<!-- CSS -->
<link rel="stylesheet" href="{{ url for('static',filename='css/Styles.css') }}" /> {%
endblock %}
<script> window.watsonAssistantChatOptions = { integrationID: "8abe6aef-f2bb-4376-be93-
7fda1857ec36", // The ID of this integration. region: "jp-tok", // The region your integration is
hosted in.
             serviceInstanceID: "440aaee1-fbb4-4c2b-8604-cb5d605fa157", // 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>
<!doctype html>
<html>
 <body>
   {% for row in files %}
```

<div style="border: 1px solid #EFEFEF;margin:10px;">

<h3>Filename : {{row}} </h3>

```
<img src="https://flask-application.s3.jp-tok.cloud-object-storage.appdomain.cloud/{{row}}"
width="150px">

</div>
{% endfor %}
</body>
</html>
```

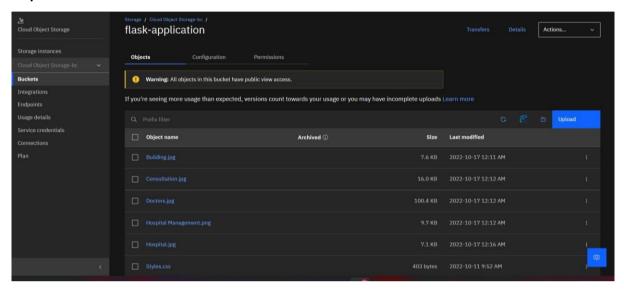


Question 3:

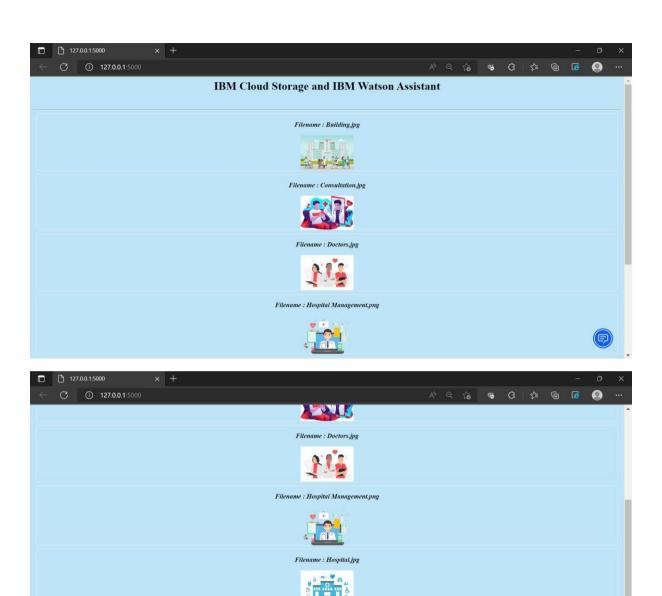
Upload a css page to the object storage and use the same page in your HTML code.

```
Solution: Styles.css body {
background-color: rgb(190, 229, 247);
text-align: center; font-style: italic;
}
.outercont
{
  height: 100vh; width:
100vw; display: 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:



Filename : Styles.css

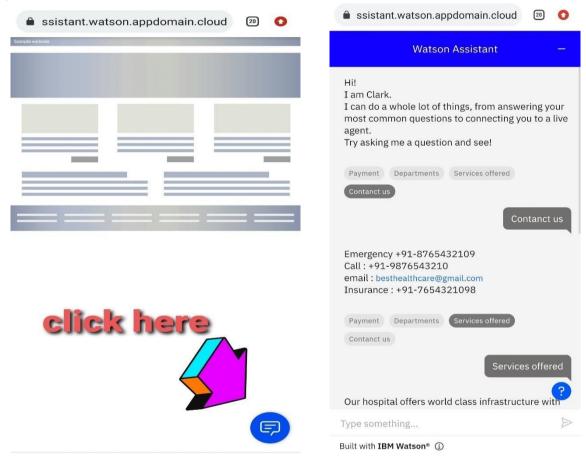
Hi! I'm a virtual assistant. How can I help you today? Design a chatbot using IBM Watson assistant for hospital. Ex: User comes with query to know the branches for that hospital in your city. Submit the web URL of that chat bot as a assignment.

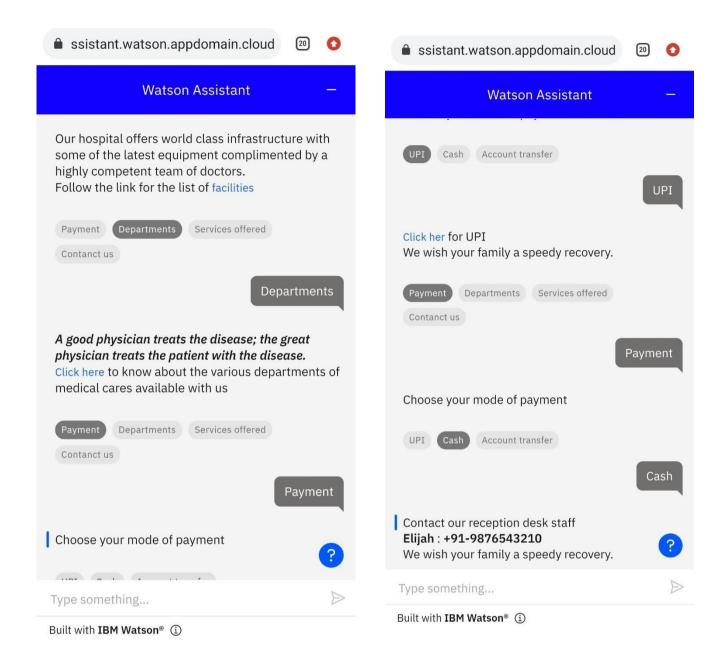
Solution:

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-8604cb5d605fa157%3A%3Affa26b03-3295-42fd-a098-6723615c4e58&integrationID=a3e3b932-8ee443ee-9ccb-f3cfa9687188®ion=jp-tok&serviceInstanceID=440aaee1-fbb4-4c2b-8604cb5d605fa157

Output:





Question-5:

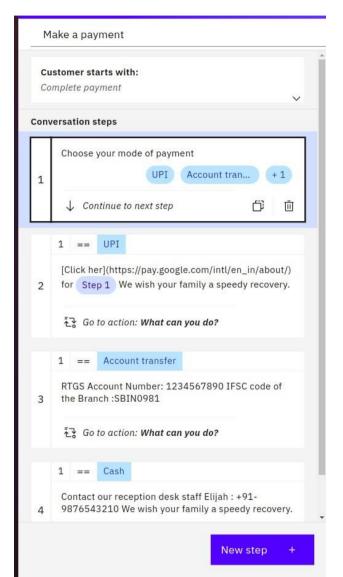
5.Create Watson assistant service with 10 steps and use 3 conditions in it. Load that script in HTML page.

Solution:

```
<script> window.watsonAssistantChatOptions = { integrationID: "8abe6aef-f2bb-4376-be93-
7fda1857ec36", // The ID of this integration. region: "jp-tok", // The region your integration is
hosted in. serviceInstanceID: "440aaee1-fbb4-4c2b-8604-cb5d605fa157", // 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>
```

Steps:

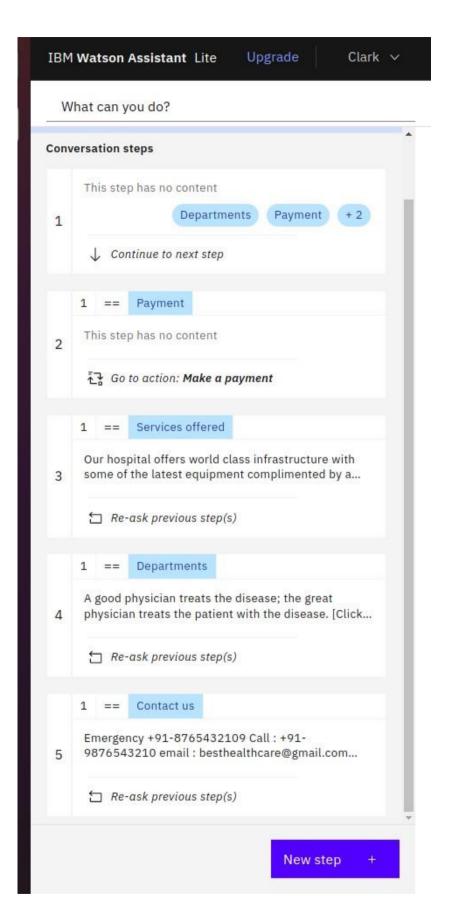
Steps in payment



Steps in location



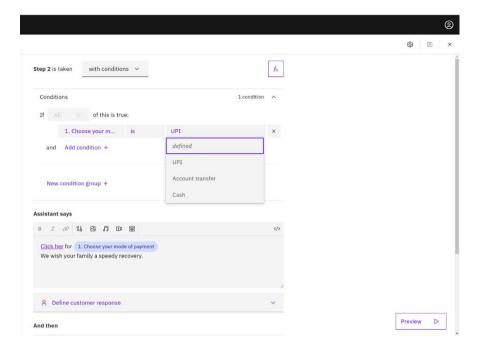
steps in What can you do



Conditions:

Conditions in payment

- UPI
- Account transfer
- Cash



Conditions in What can you do

- Departments
- Payment
- Services offered
- Contact us

