Assignment -3 IBM Object Storage and IBM Watson Assistant

Assignment Date	08 November 2022
Student Name	Rajesh Kumar J
Student Roll Number	961819104069
Maximum Marks	2 Marks

Question 1:

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-

cos = ibm_boto3.resource("s3",

app=Flask(__name__)

ibm_api_key_id=COS_API_KEY_ID,

storage:global:a/602bcedcf9224f7b8c2e1aed60258292:b846251f-3216-44c8-b123-4e13e3571cda::"

```
ibm_service_instance_id=COS_INSTANCE_CRN,
  config=Config(signature_version="oauth"),
  endpoint_url=COS_ENDPOINT
)

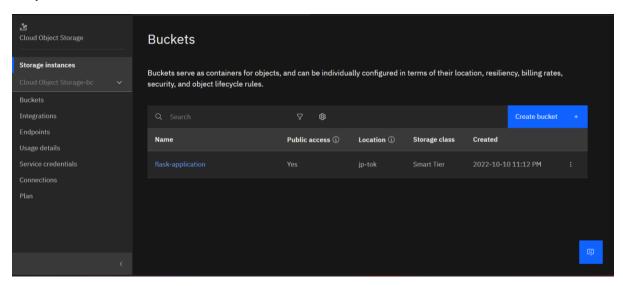
ms_transfer_config = AsperaConfig(multi_session=2, multi_session_threshold_mb=100)
transfer_manager = AsperaTransferManager(client=client, transfer_config=ms_transfer_config)
```

```
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()
    print("File Contents: {0}".format(file["Body"].read()))
  except 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)
```



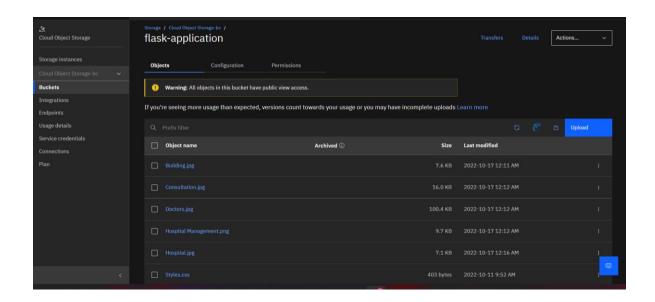
Question 2:

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 %}
```



Question 3:

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

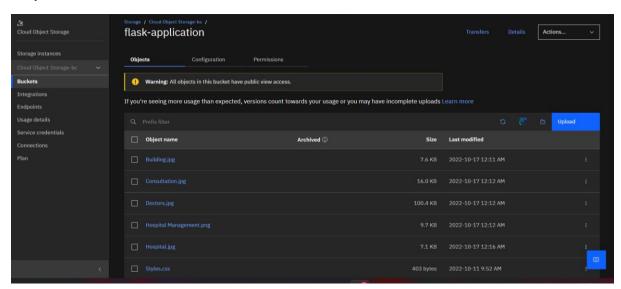
Solution:

```
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;

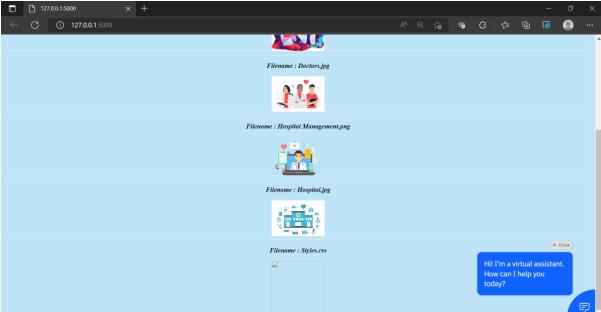
}

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



Web Page:





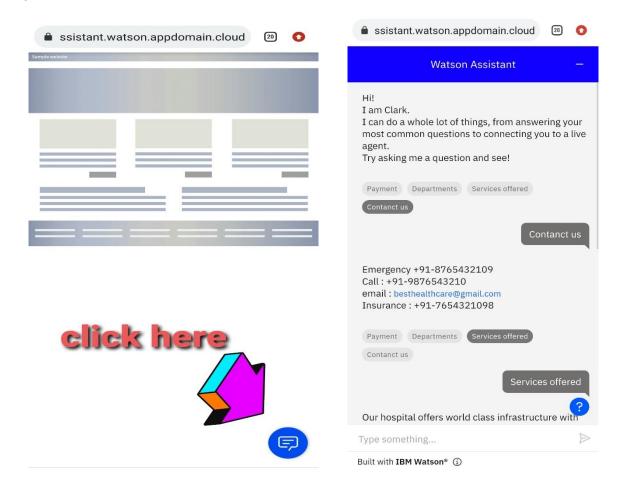
Question-4:

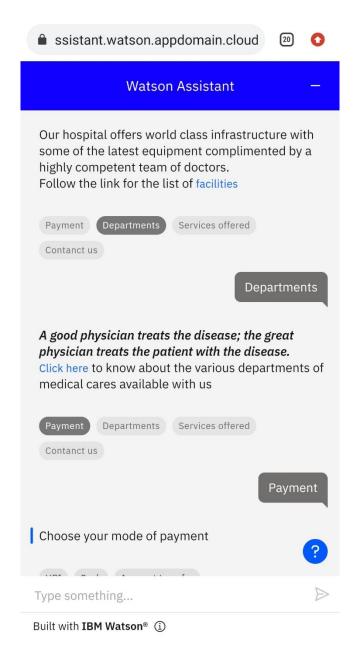
Design a chatbot using IBM Watson assistant for hospital. Ex: User comes with query to know the branches for that hospital in your city. Submit the web URL of that chat bot as a assignment.

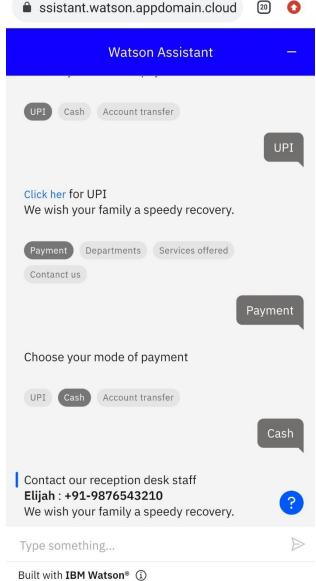
Solution:

https://web-

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







Question-5:

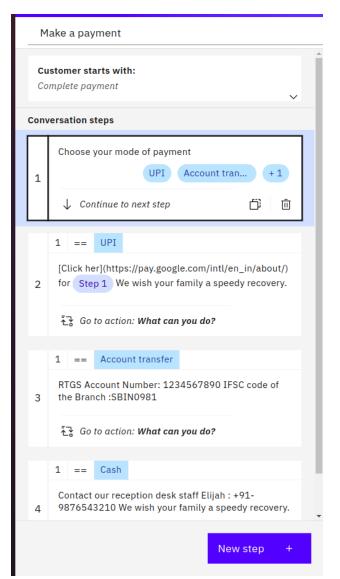
5.Create Watson assistant service with 10 steps and use 3 conditions in it. Load that script in HTML page.

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>
```

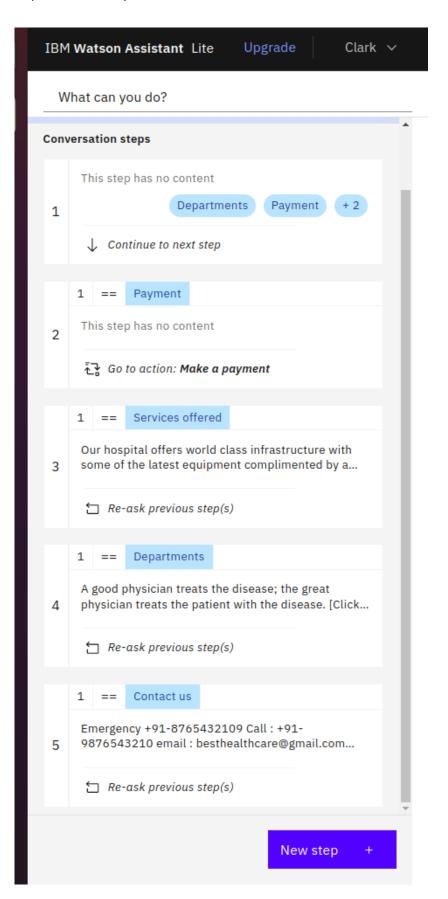
Steps:

Steps in payment



Steps in location

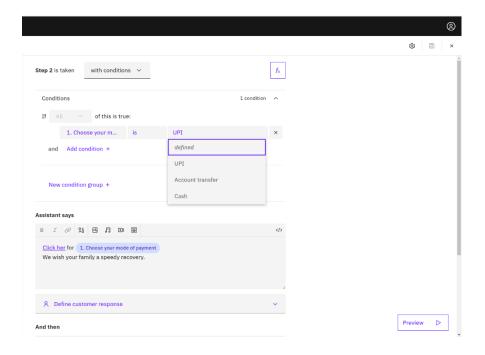




Conditions:

Conditions in payment

- UPI
- Account transfer
- Cash



Conditions in What can you do

- Departments
- Payment
- Services offered
- Contact us

