

Assignment -3

IBM Object Storage and IBM Watson Assistant

Assignment Date	08 november 2022
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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="wprEMAxjHj5sPI959wL_3HJczOWRbYn52XUuLrDSJON"

COS_INSTANCE_CRN="crn:v1:bluemix:public:cloud-object
storage:global:a/602bcdcf9224f7b8c2e1aed60258292: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)
```

```

app=Flask(__name__)
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():

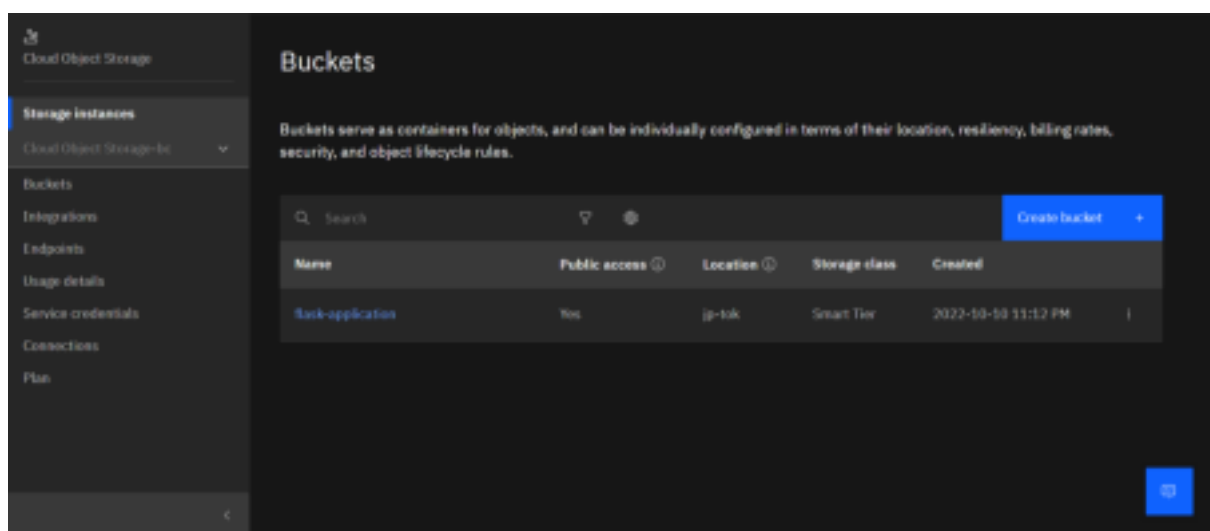
    files = get_bucket_contents('flask-application')

    return render_template('index.html', files = files)

if __name__ == '__main__':

    app.run(debug=True)
```

Output:



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>
```

```
<br><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>

</td>

</div>

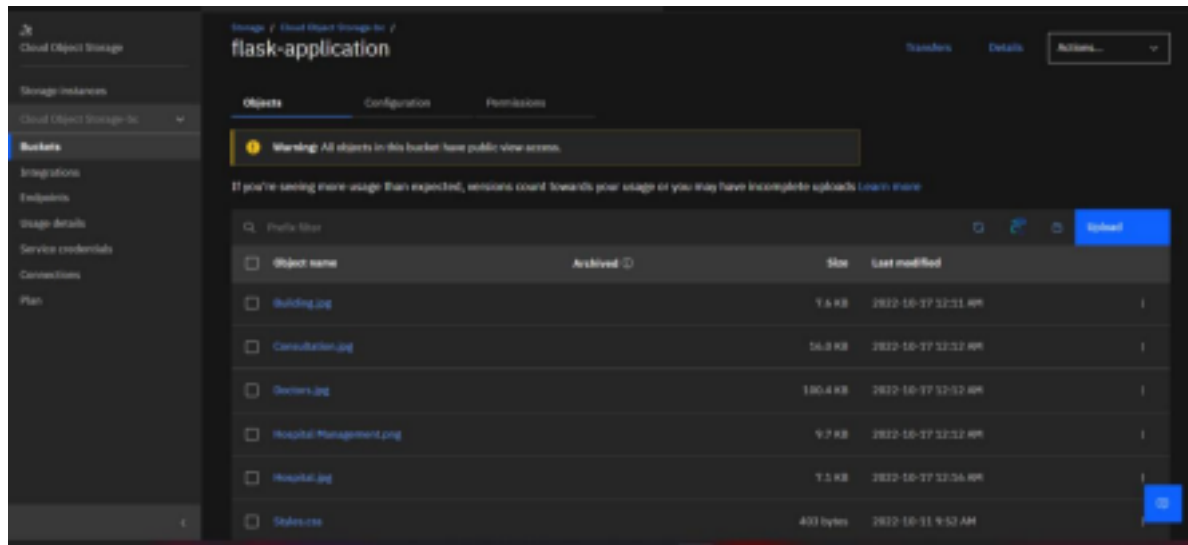
{% endfor %}

</body>

</html>

```

Output:



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;
}

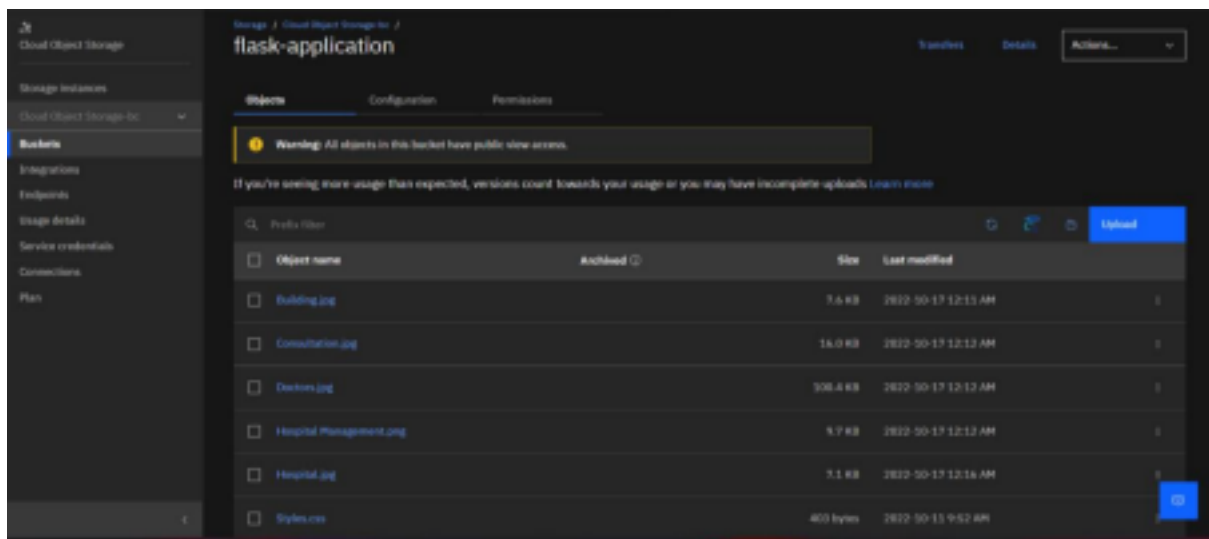
.leftcont {
font-size: 17px;
}

.rightcont {
font-size: 17px;
}

.othercont {
display: flex;
}

```

Output:



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.

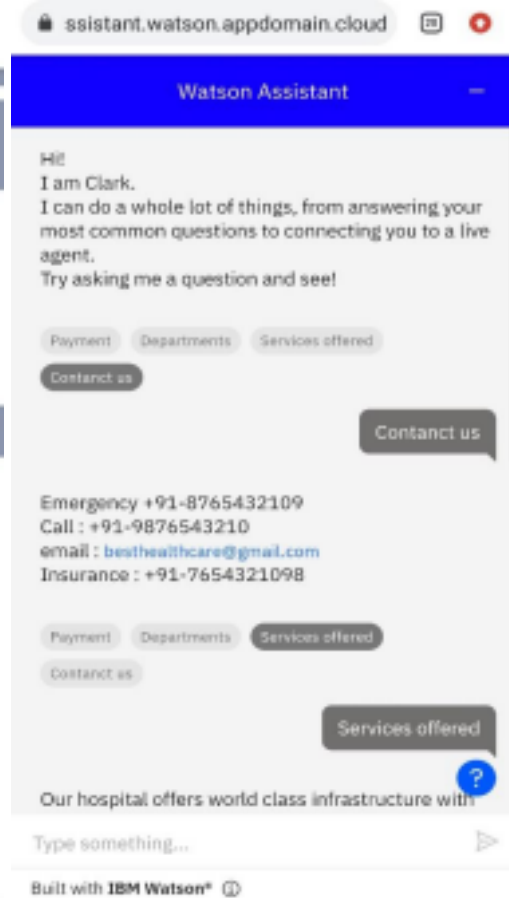
Solution:

<https://webchat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https%3A%2F%2Fjp-tok.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-440aee1-fbb4-4c2b-8604-cb5d605fa157%3A%3Affa26b03-3295-42fd-a098-6723615c4e58&integrationID=a3e3b932-8ee4-43ee-9ccb-f3cfa9687188®ion=jp-tok&serviceInstanceID=440aee1-fbb4-4c2b-8604-cb5d605fa157>

Output:



click here



Watson Assistant

UPI Cash Account transfer

UPI

[Click here](#) for UPI

We wish your family a speedy recovery.

Payment Departments Services offered
Contact us

Payment

Choose your mode of payment

UPI Cash Account transfer

Cash

Contact our reception desk staff

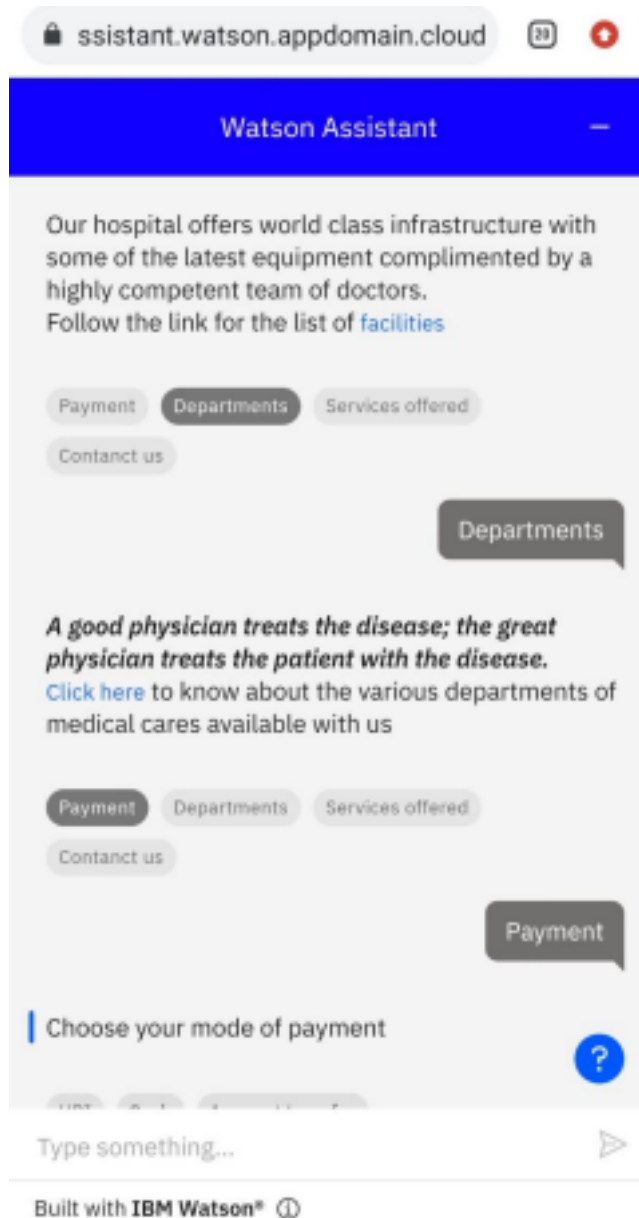
Elijah : +91-9876543210

We wish your family a speedy recovery.

?

Type something...





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

IBM Watson Assistant LiteUpgradeClark ▾

Location

Customer starts with:
Can you please give me a list of the types of things you can he... ▾

Conversation steps

1

We have our branch all around the world [Click here] (<https://www.google.com/maps/search/best+health+...>)

Go to action: What can you do?

New step +

Make a payment

Customer starts with:
Complete payment ▾

Conversation steps

1

Choose your mode of payment

UPI

Account tran...

+ 1

Continue to next step

1 == UPI

[Click her](https://pay.google.com/intl/en_in/about/) for **Step 1** We wish your family a speedy recovery.

Go to action: What can you do?

1 == Account transfer

RTGS Account Number: 1234567890 IFSC code of the Branch :SBIN0981

Go to action: What can you do?

1 == Cash

Contact our reception desk staff Elijah : +91-9876543210 We wish your family a speedy recovery.

New step +

steps in What can you do

IBM Watson Assistant

Lite

Upgrade

Clark ▾

What can you do?

Conversation steps

1

This step has no content

Departments

Payment

+ 2

↓ Continue to next step

2

1 == Payment

This step has no content

Go to action: **Make a payment**

3

1 == Services offered

Our hospital offers world class infrastructure with some of the latest equipment complimented by a...

Re-ask previous step(s)

4

1 == Departments

A good physician treats the disease; the great physician treats the patient with the disease. [Click...

Re-ask previous step(s)

5

1 == Contact us

Emergency +91-8765432109 Call : +91-9876543210 email : besthealthcare@gmail.com...

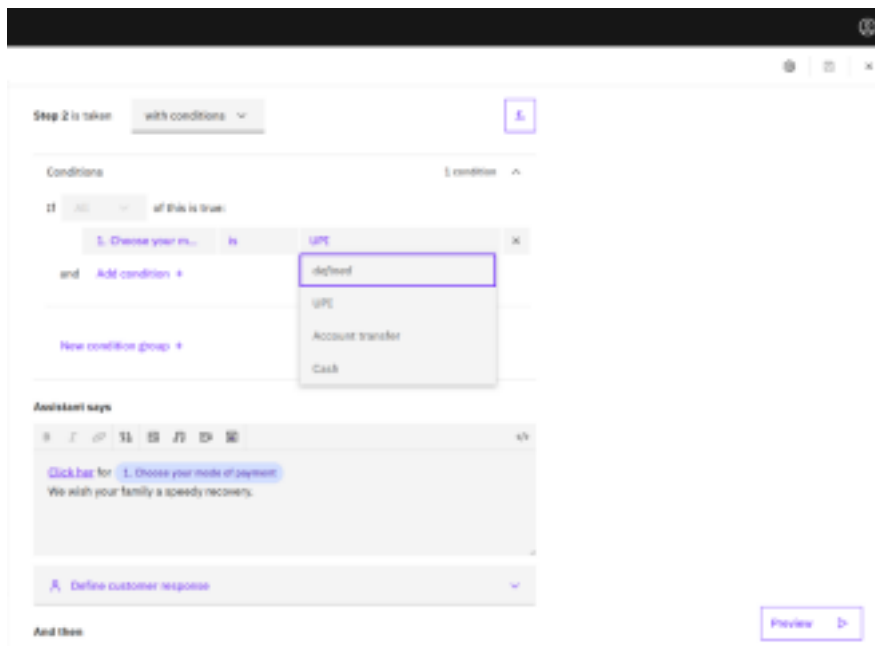
Re-ask previous step(s)

New step +

Conditions:

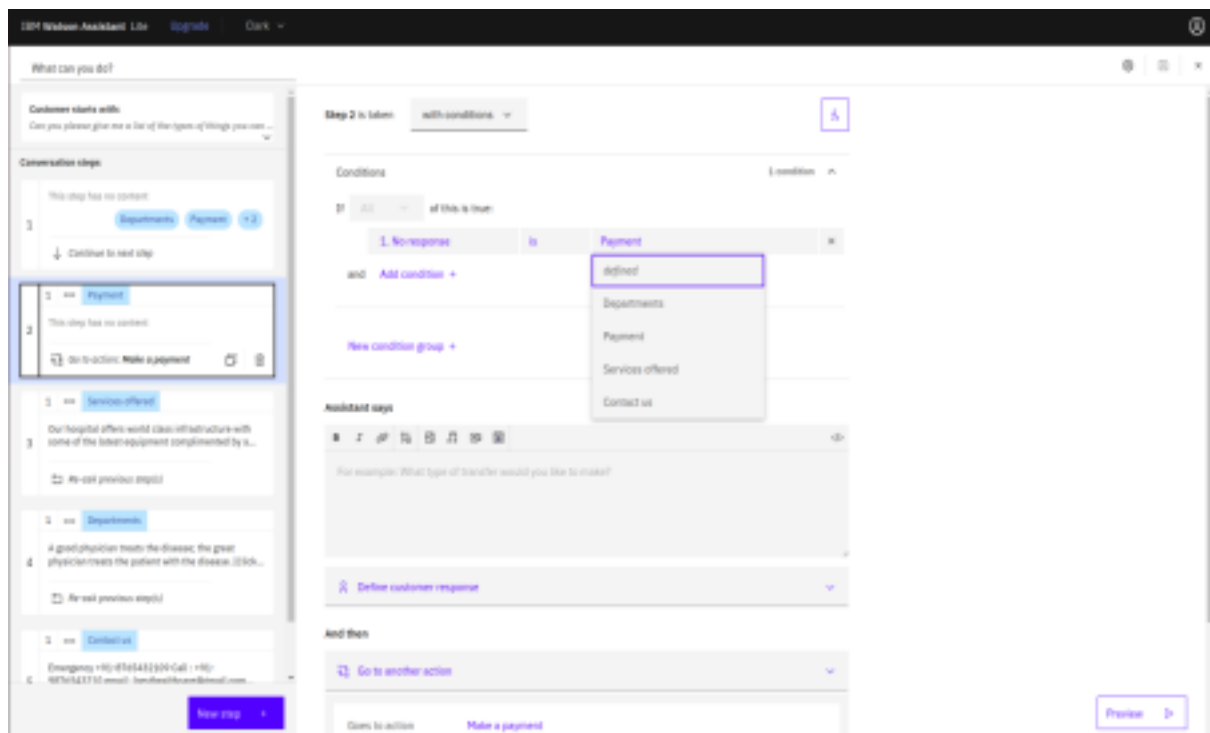
Conditions in payment

- UPI
- Account transfer
- Cash



Conditions in What can you do

- Departments
- Payment
- Services offered
- Contact us



Output:

