

Assignment -3
IBM Object Storage and IBM Watson Assistant

Assignment Date	28 October 2022
Student Name	Anuf.l
Student Roll Number	96181910416
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))
```

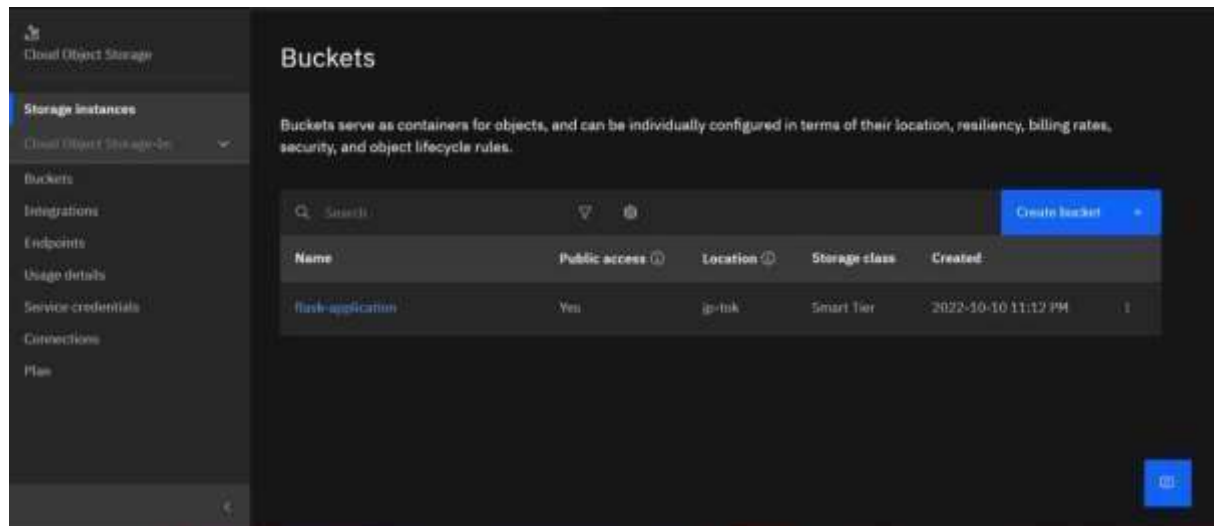
```
@app.route('/') def
```

```
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-
f2bb4376be937fda1857ec36", // 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>
```

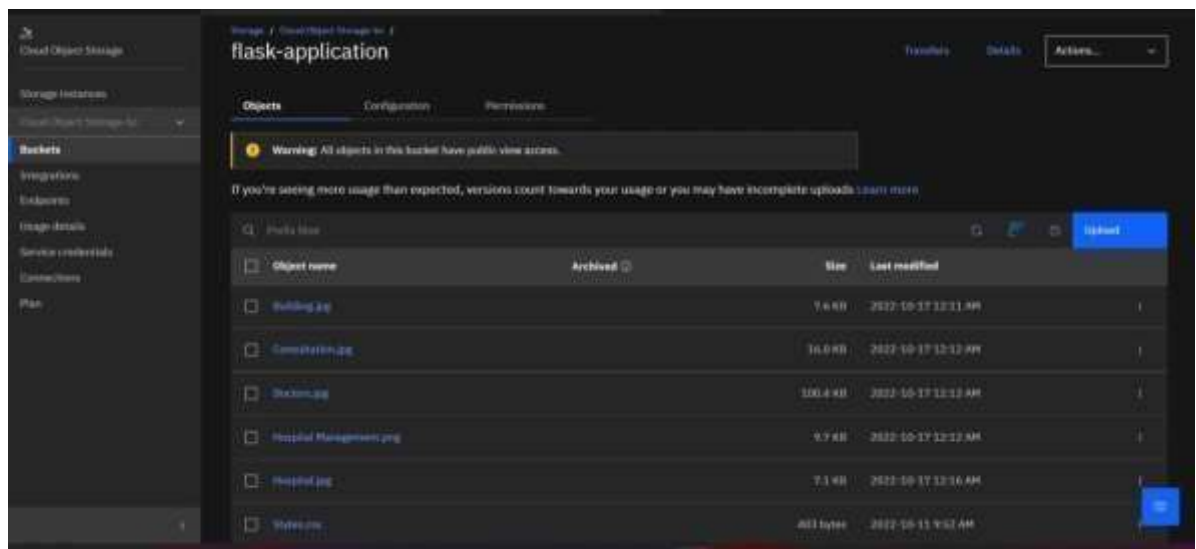
```
        </div>
```

```
    {% 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; flexdirection: column;

```
justifycontent: spacearound;
alignitems: center;
}
p { font-size:
20px;
}
h1 { text-align: center;
font-style: normal;
}
h2 { text-align: center;
}
.cont { width:
700px;
}
.leftcont { fontsize:
17px;
}
.rightcont { fontsize:
17px;
}
.othercont { display:
flex;
}
```

Output:

Cloud Object Storage

Storage Instances

Cloud Object Storage for

S3 buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Storage / Cloud Object Storage for

flask-application

Transfer

Details

Actions...

Objects

Configuration

Permissions

Warning: All objects in this bucket have public view access.

If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads. [Learn more](#)

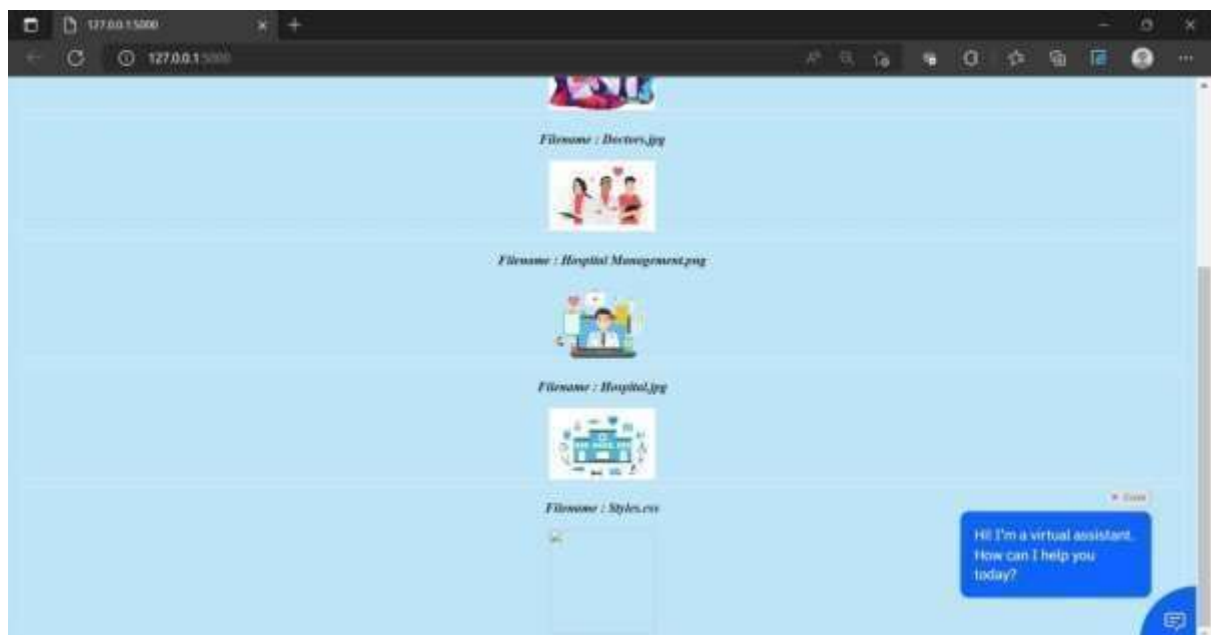
Search

Filter

Upload

<input type="checkbox"/>	Object name	Archived	Size	Last modified	
<input type="checkbox"/>	Building.jpg		7.6 KB	2022-10-17 12:12 AM	
<input type="checkbox"/>	Classification.jpg		34.8 KB	2022-10-17 12:12 AM	
<input type="checkbox"/>	Doctors.jpg		306.4 KB	2022-10-17 12:12 AM	
<input type="checkbox"/>	Hospital Management.jpg		9.7 KB	2022-10-17 12:12 AM	
<input type="checkbox"/>	Hospital.jpg		7.1 KB	2022-10-17 12:12 AM	
<input type="checkbox"/>	Stokes.css		402 bytes	2022-10-17 11:53 AM	

Web Page:



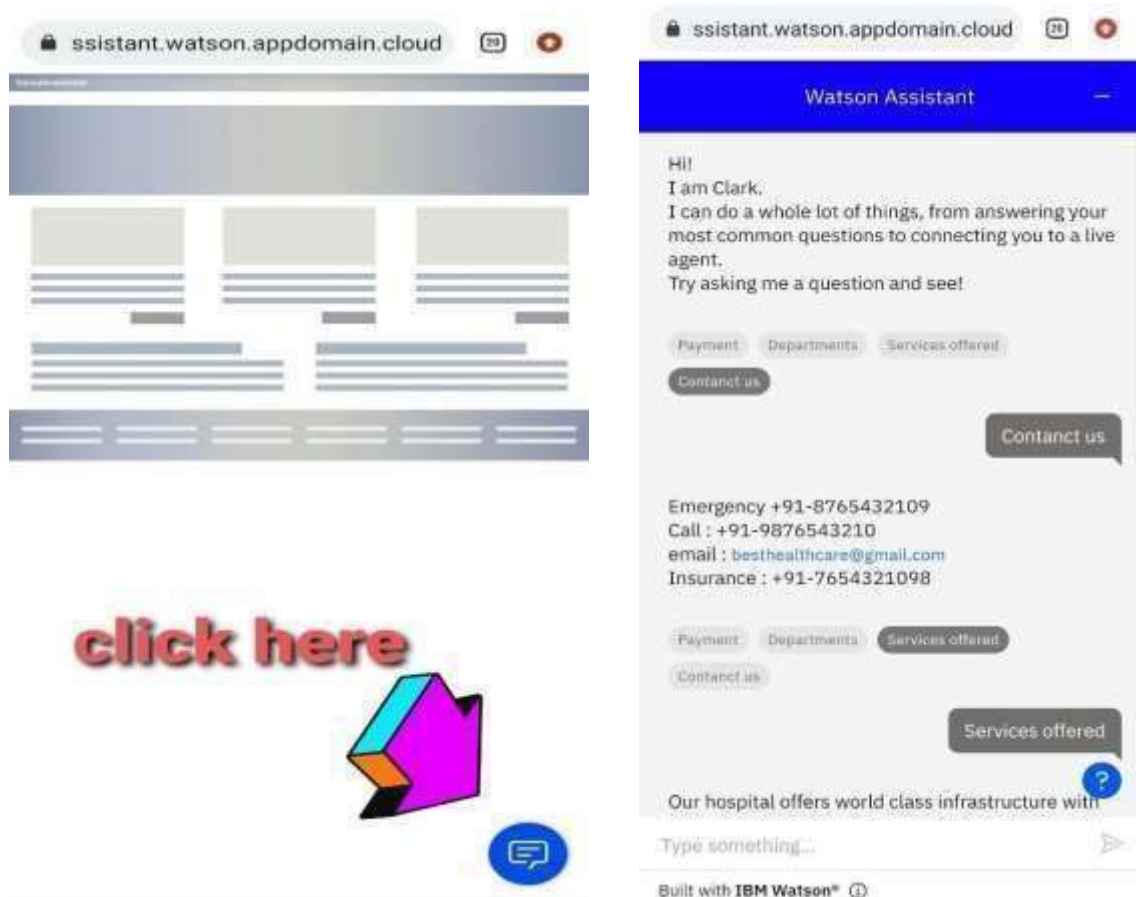
Question-4:

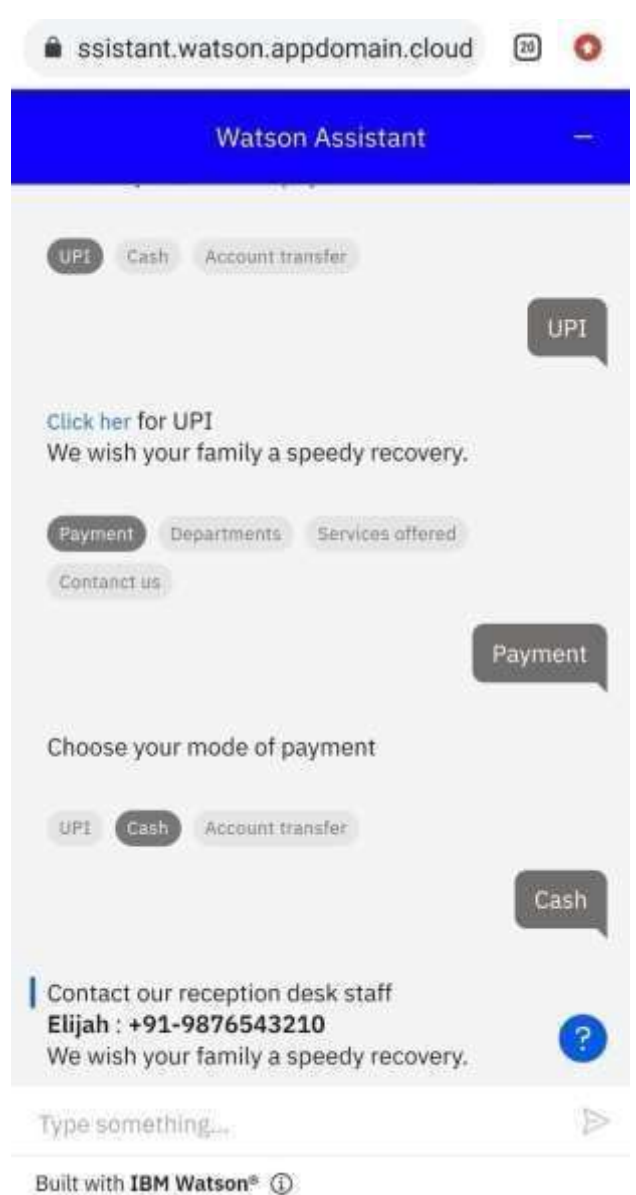
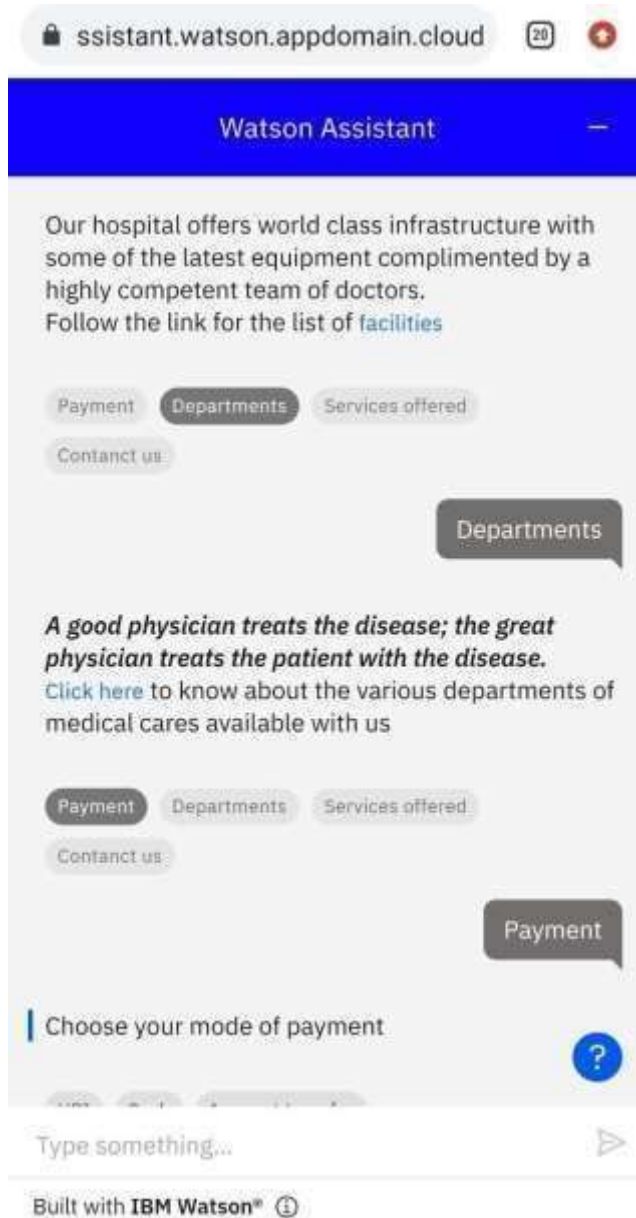
Design a chatbot using IBM Watson assistant for hospital. Ex: User comes with query to know the branches for that hospital in your city. Submit the web URL of that chat bot as a assignment.

Solution:

<https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageUrl=https%3A%2F%2Fjp-tok.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-440aaee1-fbb4-4c2b8604cb5d605fa157%3A%3Affa26b03-3295-42fd-a098-6723615c4e58&integrationID=a3e3b9328ee443ee-9ccbf3cfa9687188®ion=jptok&serviceInstanceID=440aaee1-fbb4-4c2b8604cb5d605fa157>

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-  
f2bb4376be937fda1857ec36", // The ID of this integration. region: "jp-tok", // The region your  
integration is hosted in. serviceInstanceID: "440aeee1-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

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 location

IBM Watson Assistant Lite Upgrade Clark

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 +

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

1 == Payment
2
This step has no content

Go to action: **Make a payment**

1 == Services offered
3
Our hospital offers world class infrastructure with some of the latest equipment complimented by a...

Re-ask previous step(s)

1 == Departments
4
A good physician treats the disease; the great physician treats the patient with the disease. [Click...

Re-ask previous step(s)

1 == Contact us
5
Emergency +91-8765432109 Call : +91-9876543210 email : besthealthcare@gmail.com...

Re-ask previous step(s)

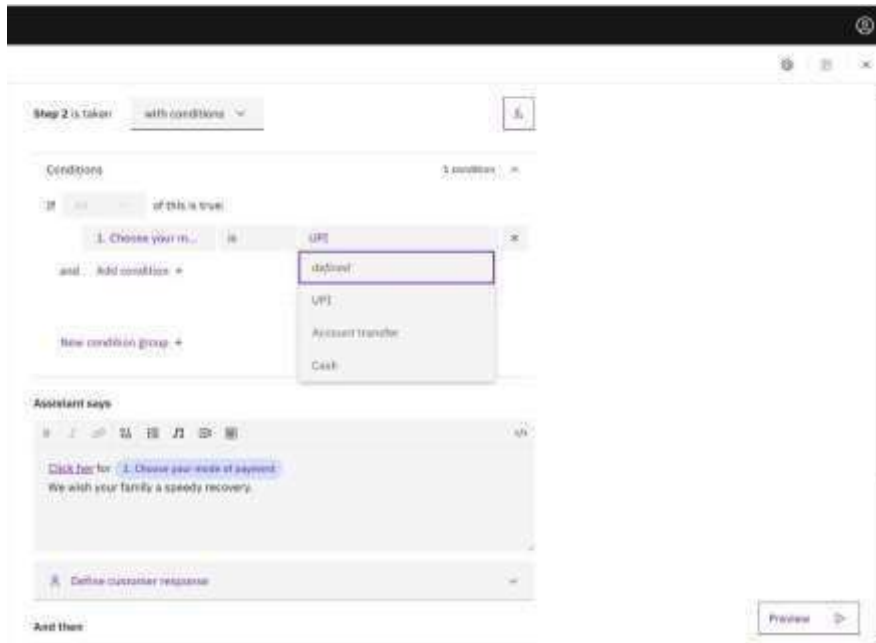
New step +

Conditions:

Conditions in payment

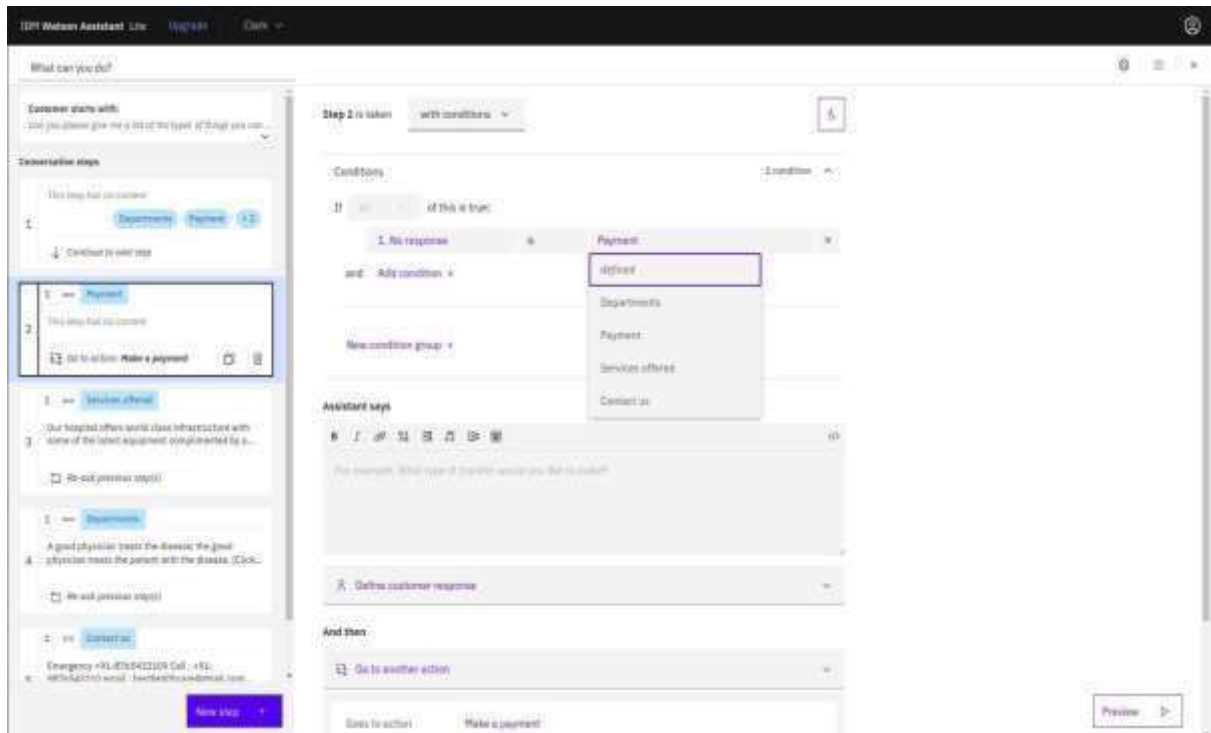
- UPI

- Account transfer
- Cash



Conditions in What can you do

- Departments
- Payment
- Services offered
- Contact us



Output:



