

Assignment -3
IBM Object Storage and IBM Watson Assistant

Assignment Date	28 October 2022
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Student Roll Number	961819104075
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))

```

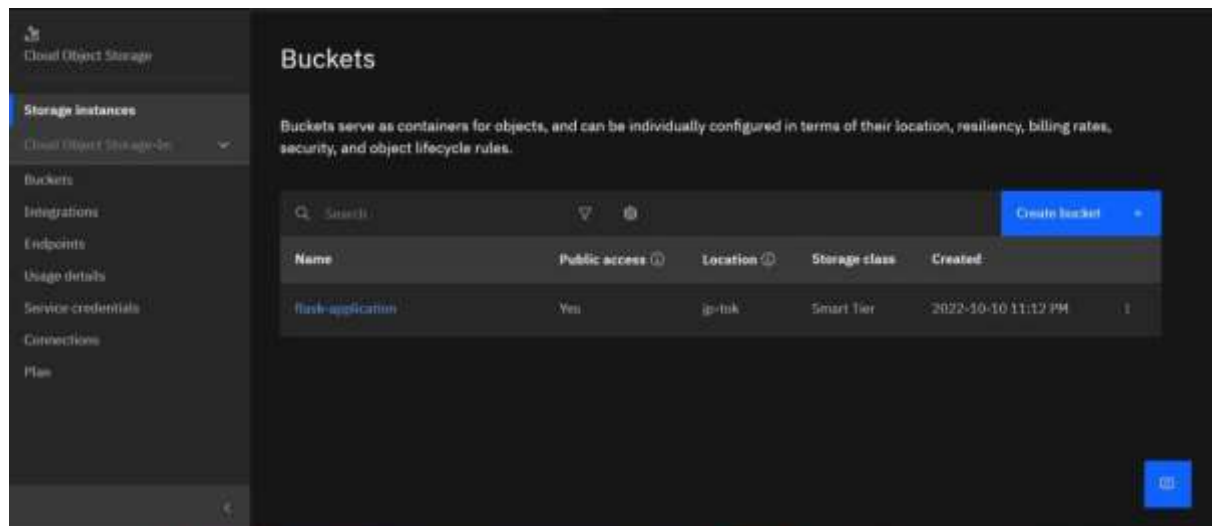
```

@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-  
be937fda1857ec36", // 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>

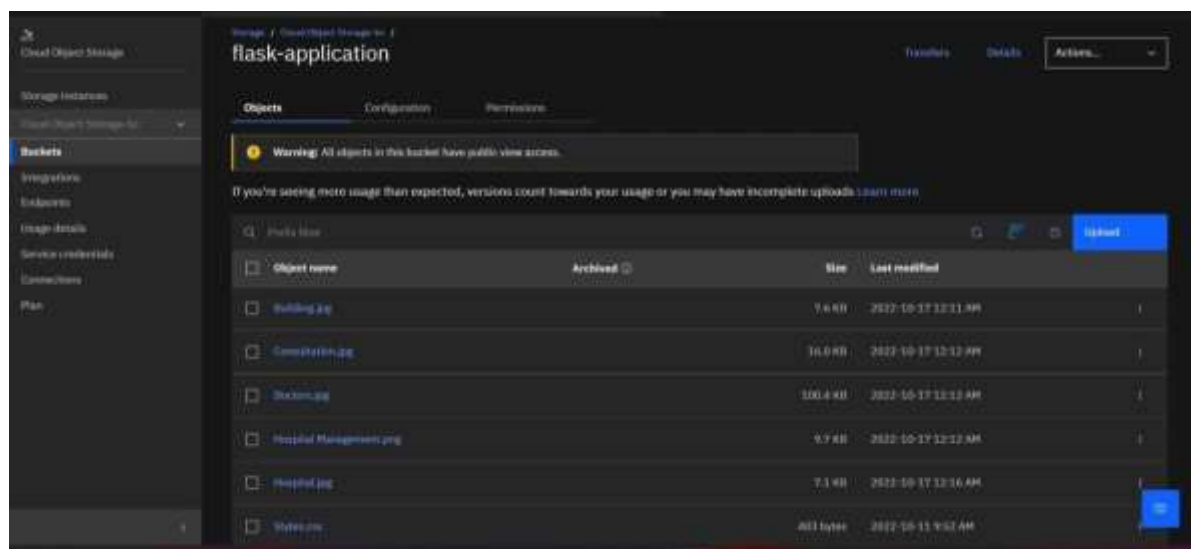
    </div>

    {% 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: space-around; alignitems: center;
}

p { font-size: 20px; }

h1 { text-align: center; font-style: normal; }

h2 { text-align: center; }

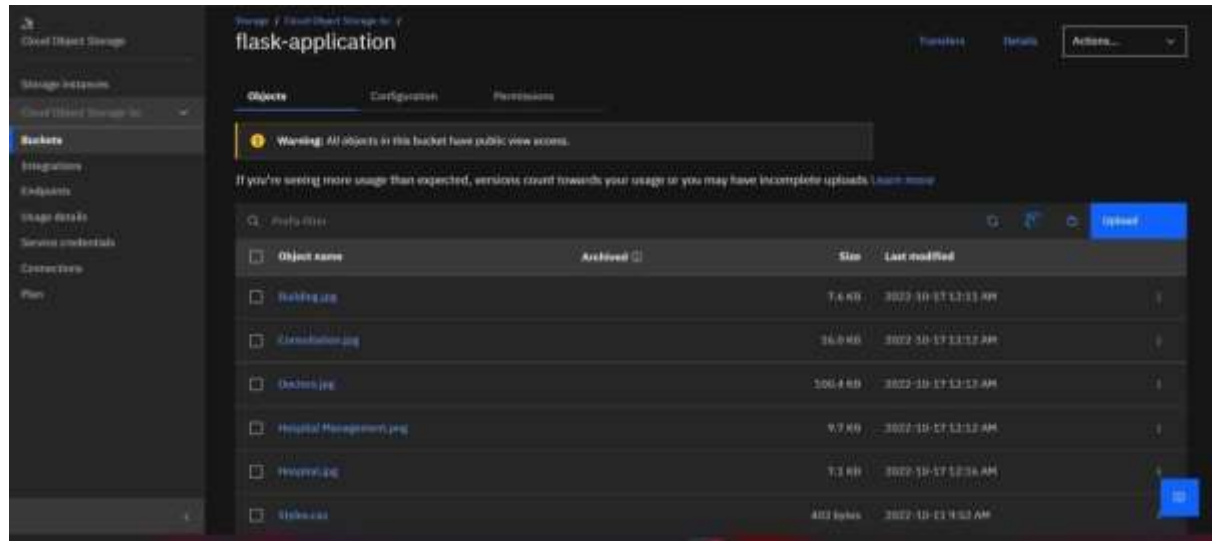
.cont { width: 700px; }

.leftcont { fontsize: 17px; }

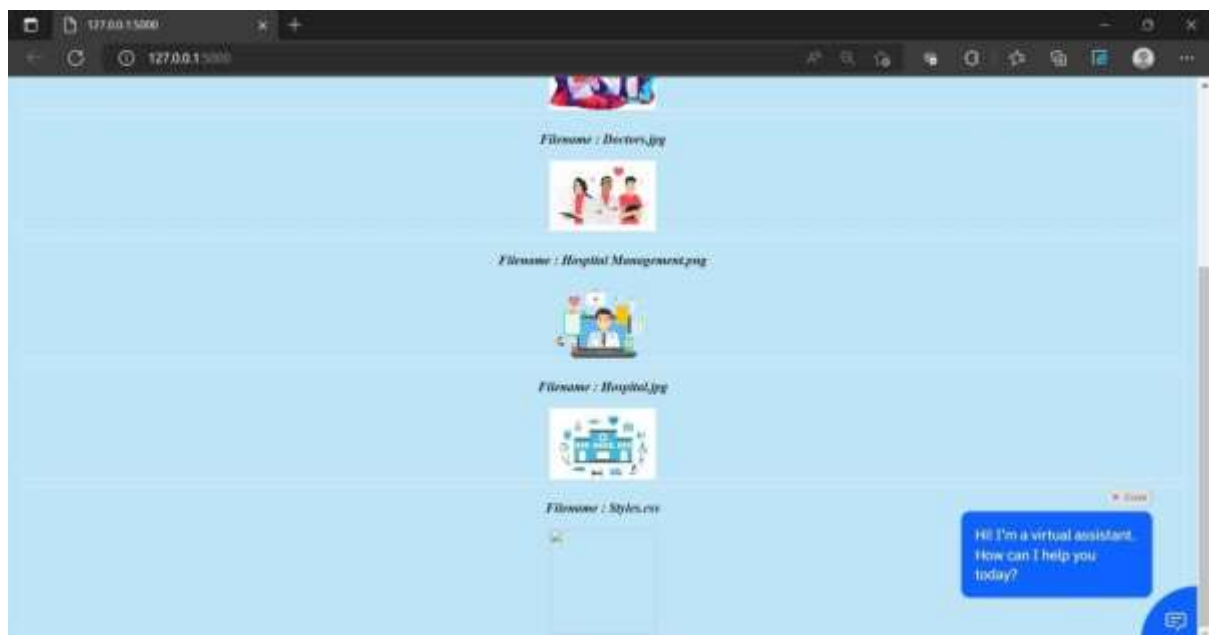
.rightcont { fontsize: 17px; }
```

```
.othercont {
display: flex;
}
```

Output:



Web Page:



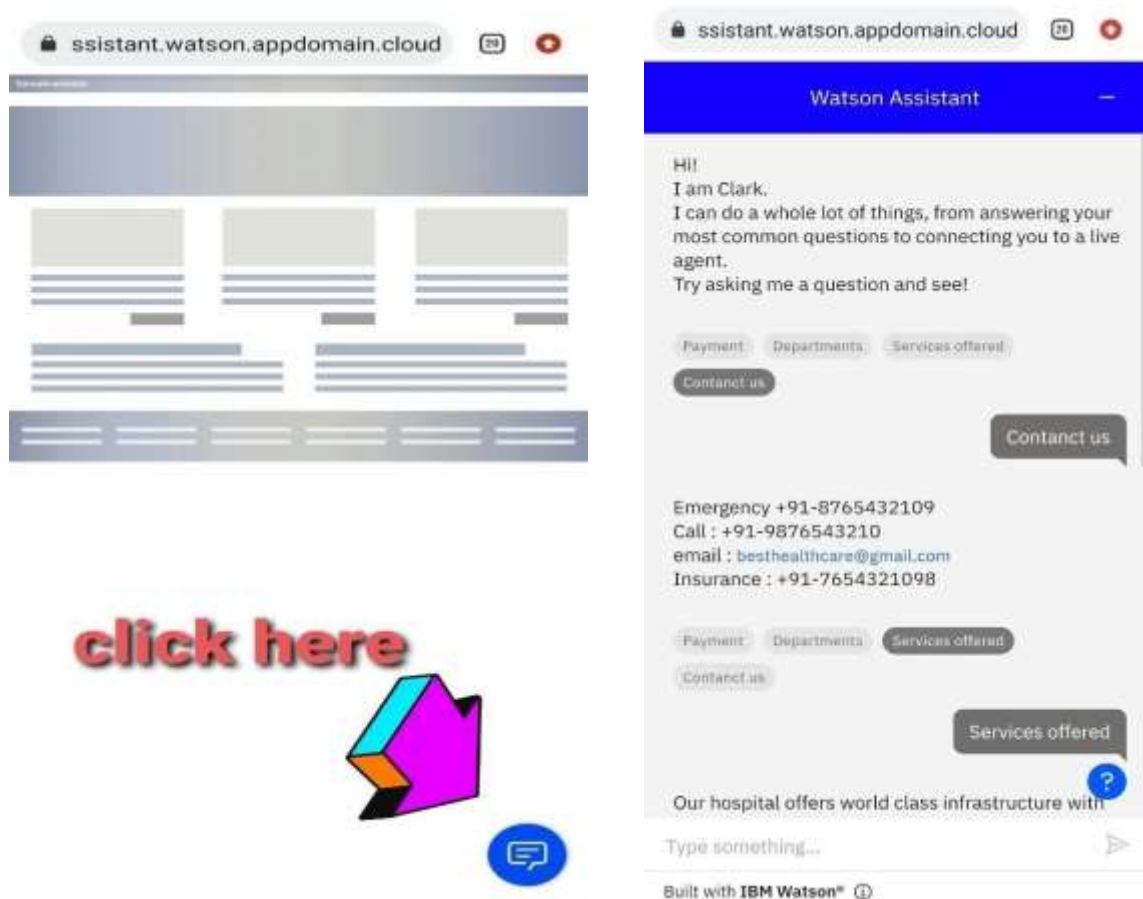
Question-4:

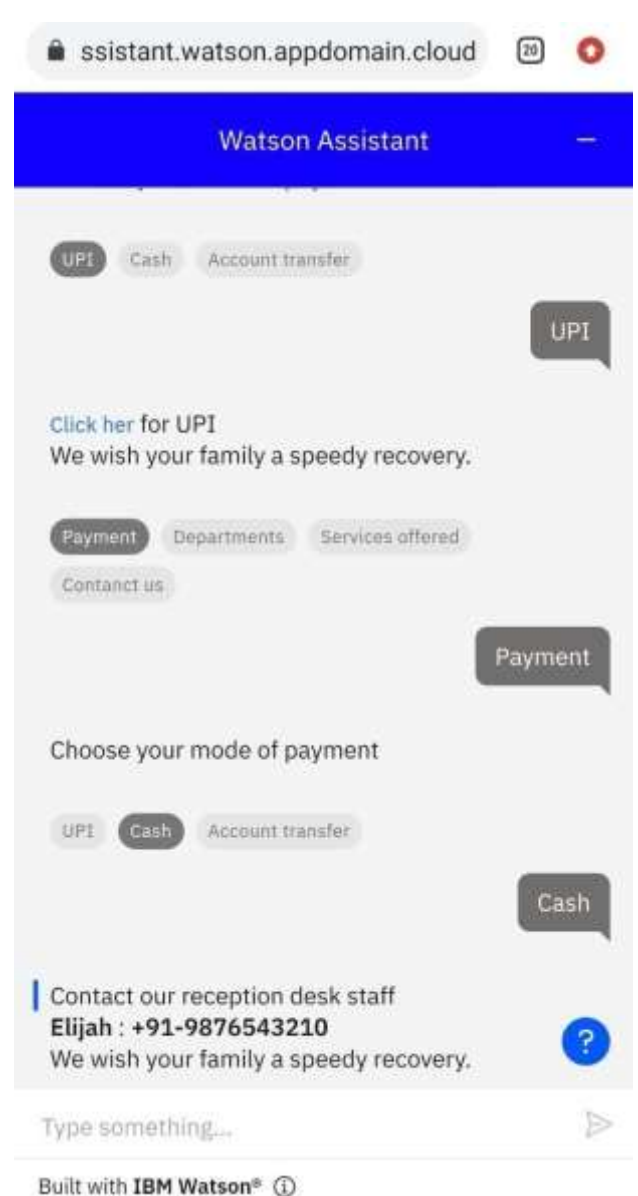
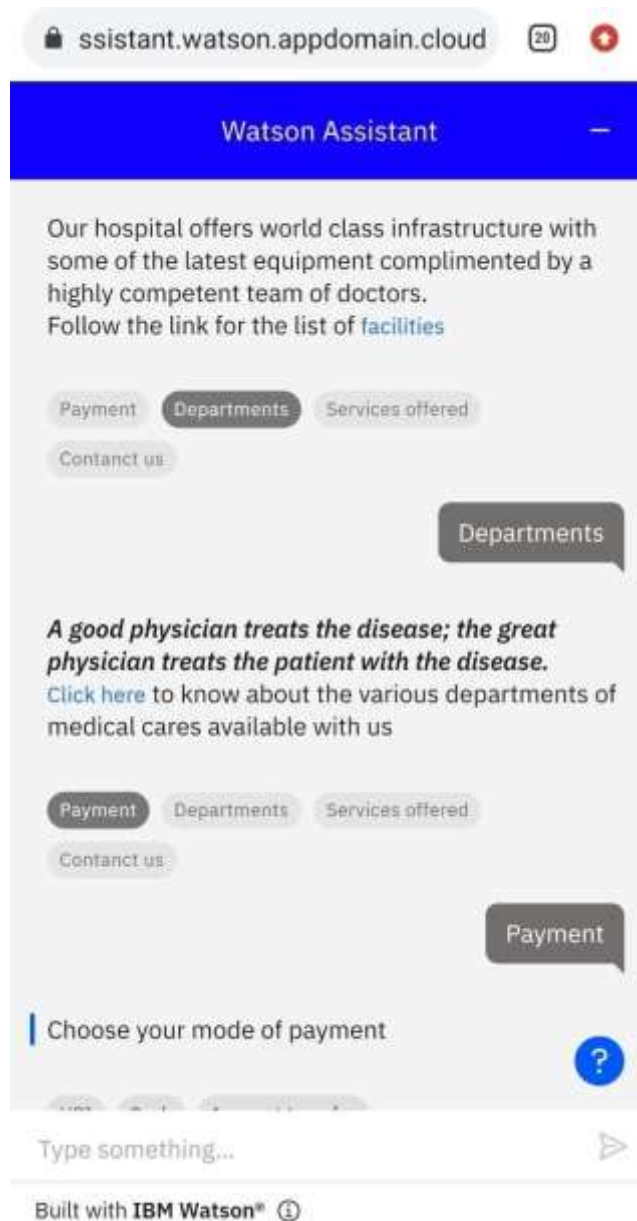
Design a chatbot using IBM Watson assistant for hospital. Ex: User comes with query to know the branches for that hospital in your city. Submit the web URL of that chat bot as a assignment.

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-9ccb-f3cfa9687188®ion=jp-tok&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-f2bb-4376-  
be937fda1857ec36", // 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

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

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)

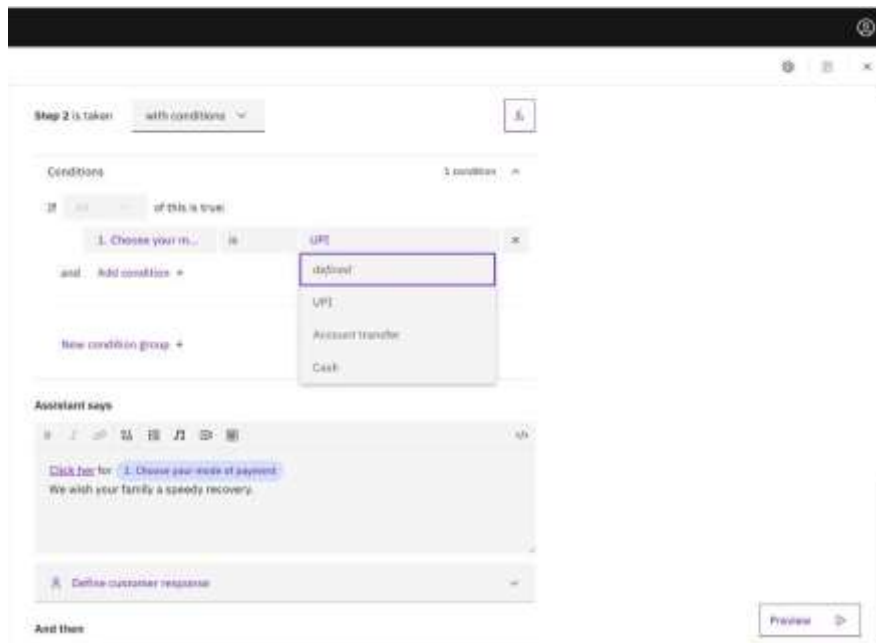
New step +

Conditions:

Conditions in payment

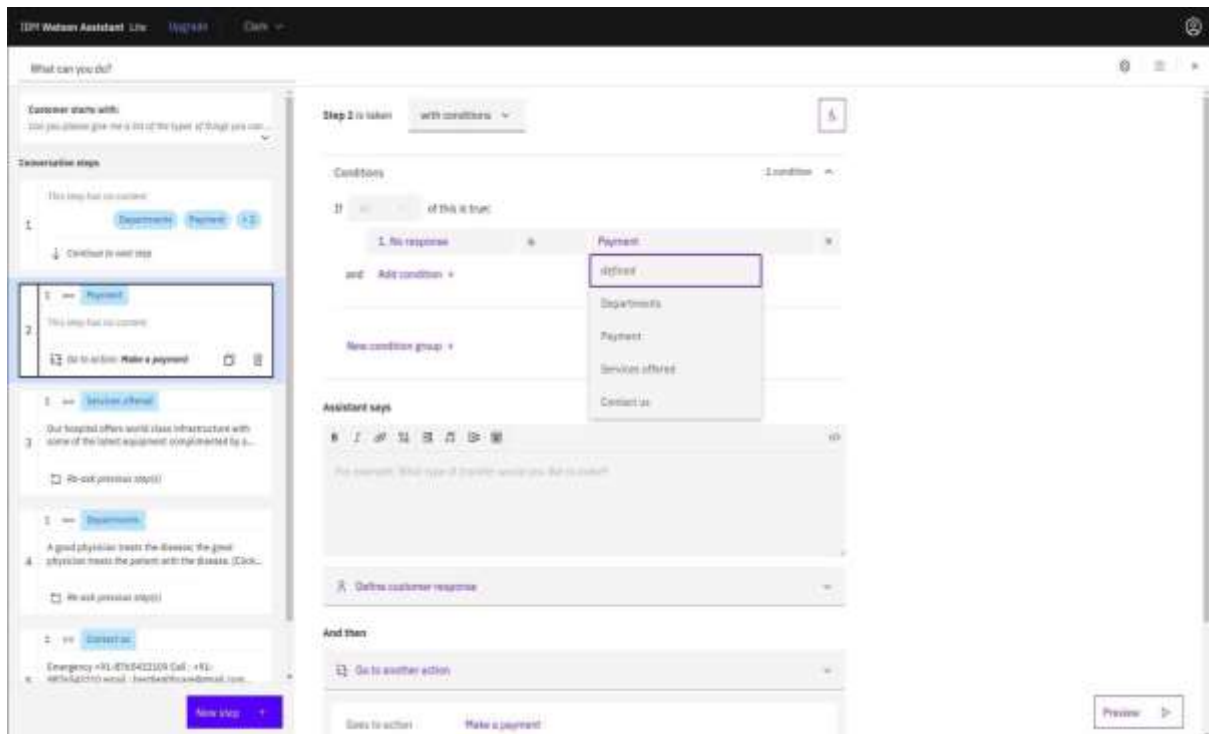
- UPI

- Account transfer
- Cash



Conditions in What can you do

- Departments
- Payment
- Services offered
- Contact us



Output:



