

Assignment -3
IBM Object Storage and IBM Watson Assistant

Assignment Date	28 October 2022
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Student Roll Number	961819104008
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))
```

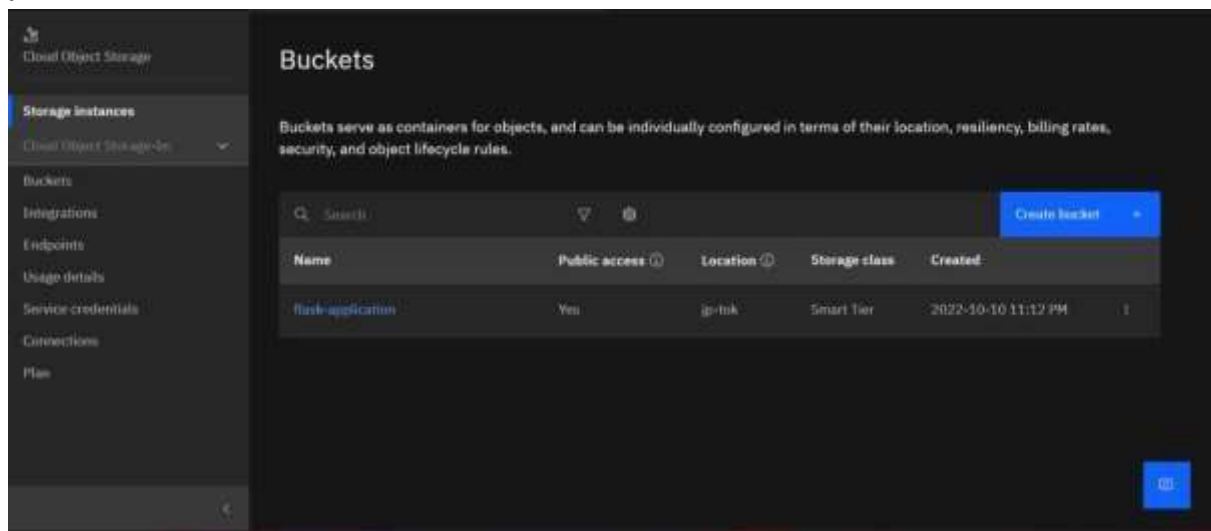
```

@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-
4376be937fda1857ec36", // 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>

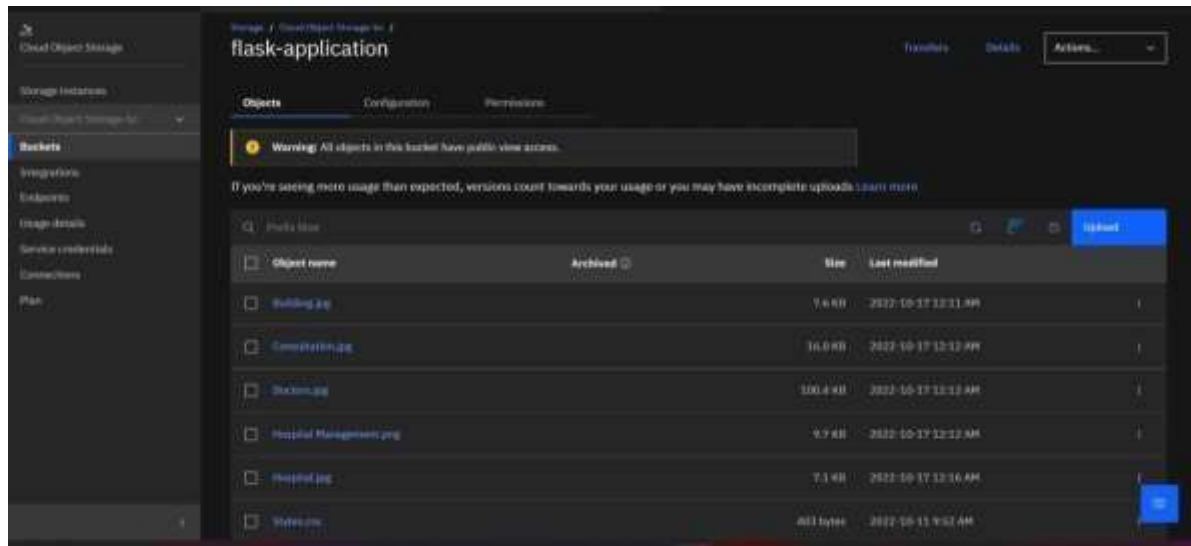
        </div>

    {% 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:

Cloud Object Storage

Storage Instances

Cloud Object Storage In

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

flask-application

Transfer Details

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 so you may have incomplete uploads. [Learn more](#)

Search

Profile icon

Upload

<input type="checkbox"/>	Object name	Archived	Size	Last modified	
<input type="checkbox"/>	backlog.jpg		7.6 KB	2022-10-17 12:11 AM	1
<input type="checkbox"/>	Carrollville.jpg		16.0 KB	2022-10-17 12:12 AM	1
<input type="checkbox"/>	Onions.jpg		106.4 KB	2022-10-17 12:12 AM	1
<input type="checkbox"/>	Hospital Management.jpg		9.7 KB	2022-10-17 12:12 AM	1
<input type="checkbox"/>	Prognosis.jpg		7.1 KB	2022-10-17 12:16 AM	1
<input type="checkbox"/>	Stiles.txt		403 bytes	2022-10-17 11:52 AM	1

Web Page:



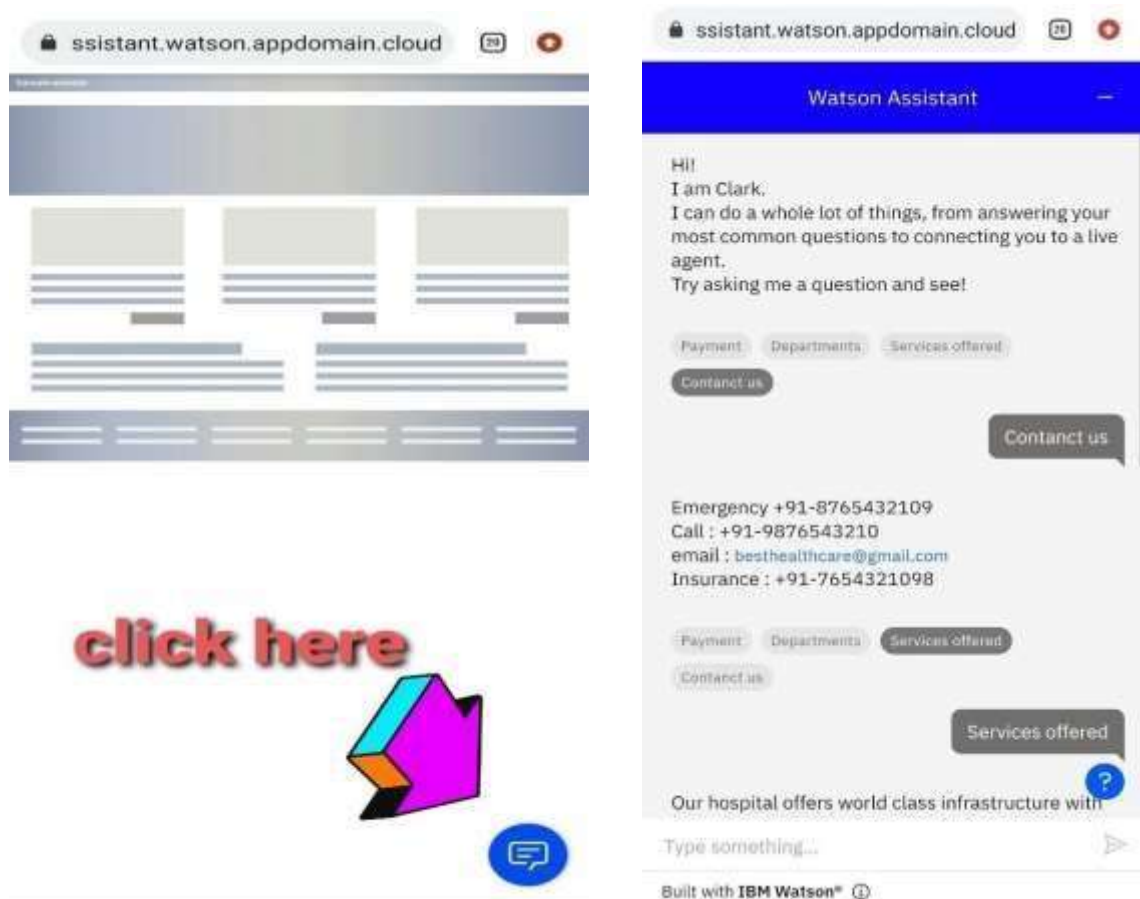
Question-4:

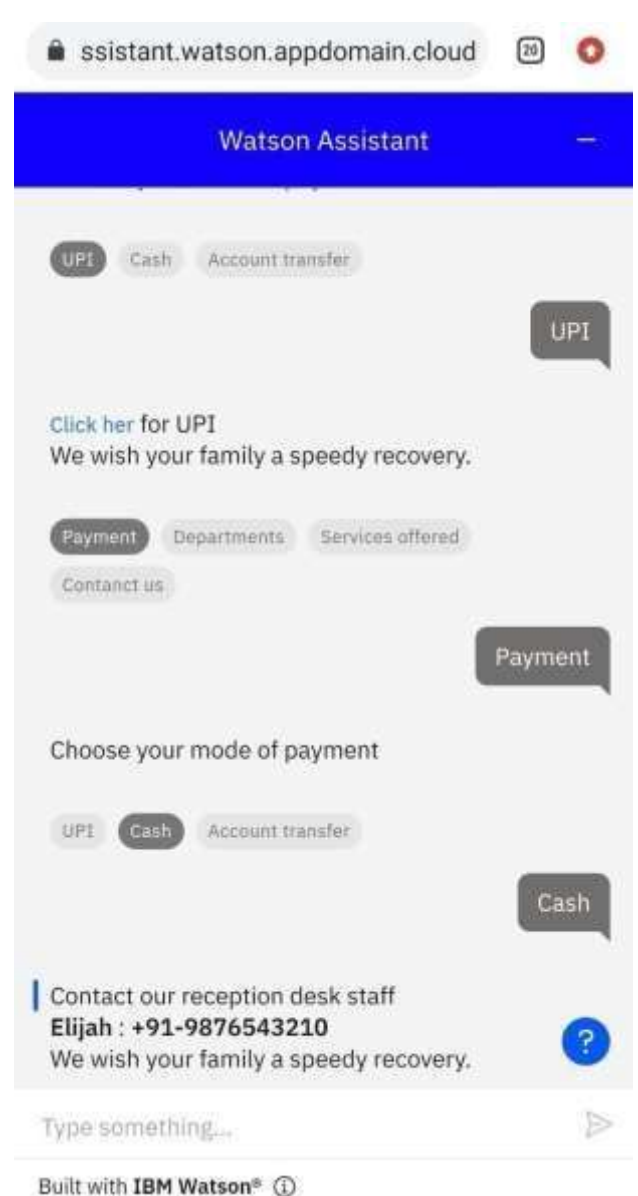
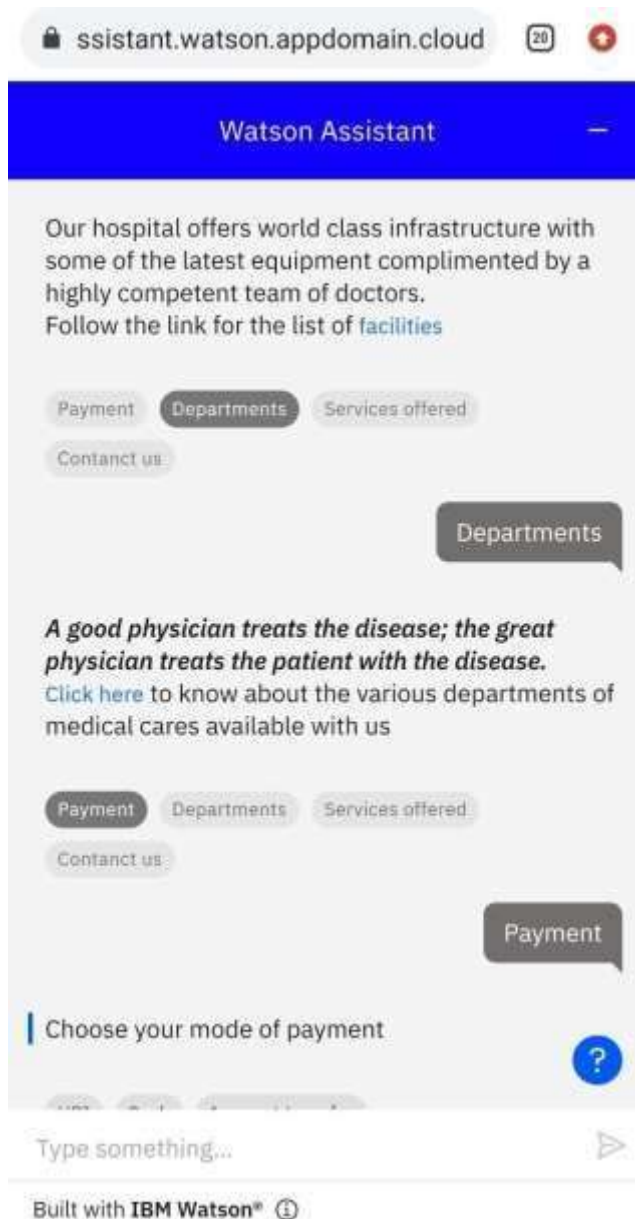
Design a chatbot using IBM Watson assistant for hospital. Ex: User comes with query to know the branches for that hospital in your city. Submit the web URL of that chat bot as a assignment.

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-440aeee1-fbb4-4c2b8604cb5d605fa157%3A%3Affa26b03-3295-42fd-a098-6723615c4e58&integrationID=a3e3b9328ee443ee-9ccb-f3cfa9687188®ion=jptok&serviceInstanceID=440aeee1-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-4376be937fda1857ec36", // 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

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)

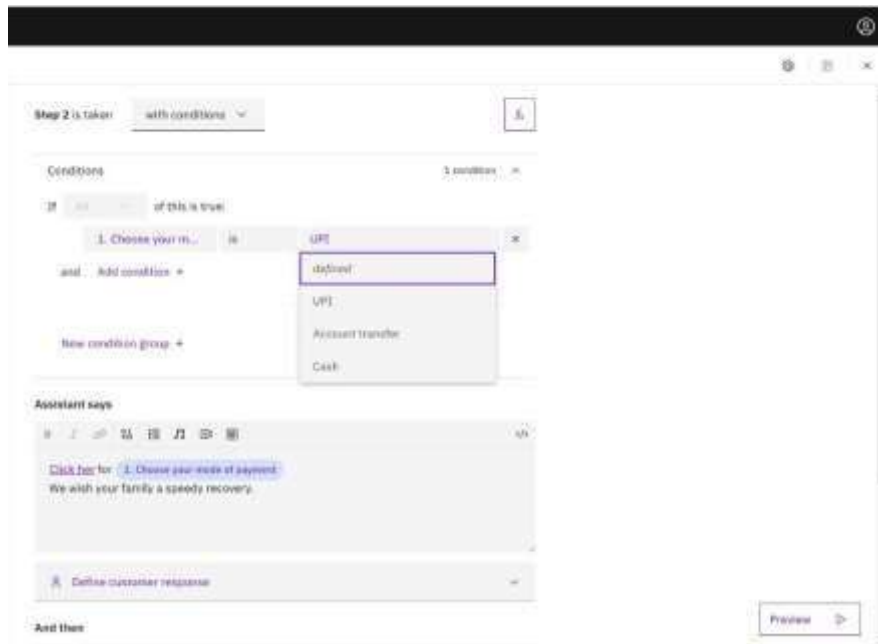
New step +

Conditions:

Conditions in payment

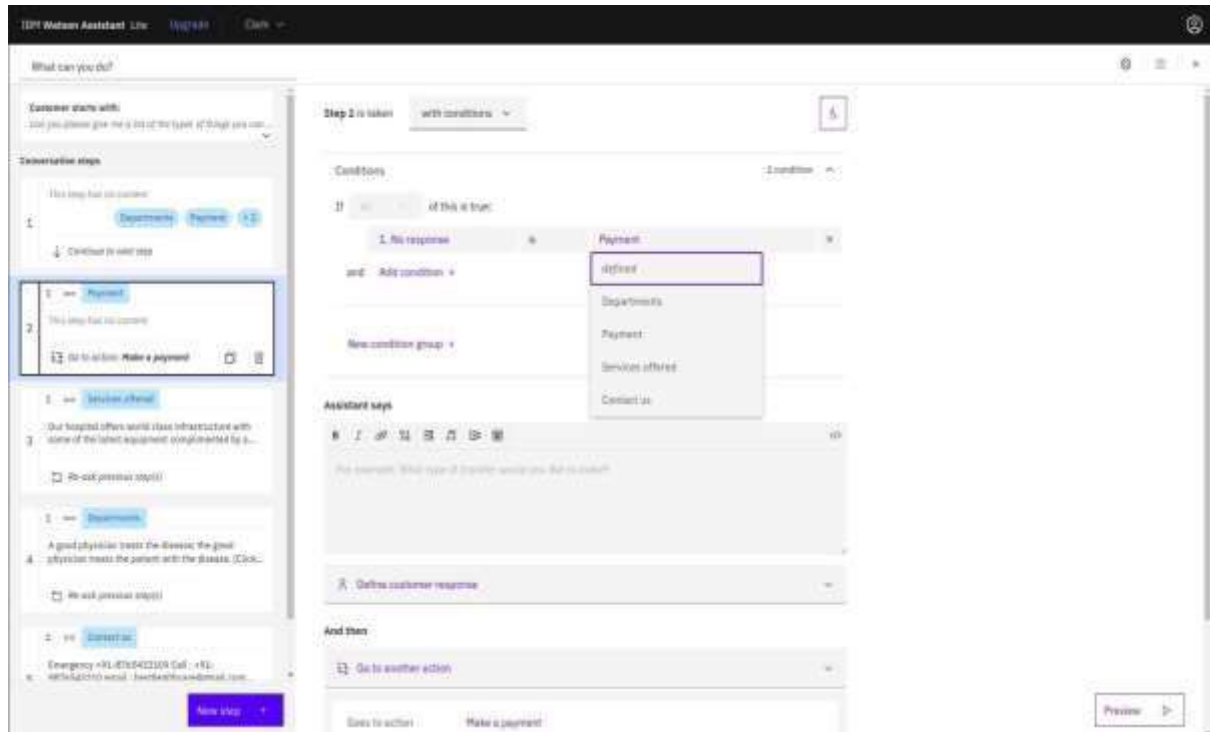
- UPI

- Account transfer
- Cash



Conditions in What can you do

- Departments
- Payment
- Services offered
- Contact us



Output:



