Assignment -3
IBM Object Storage and IBM Watson Assistant

Assignment Date	13 november 2022
Student Name	SUNDARAM V.A
Student Roll Number	95071912099

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-storage:global:a/602bcedcf9224f7b8c2e1aed60258292: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)

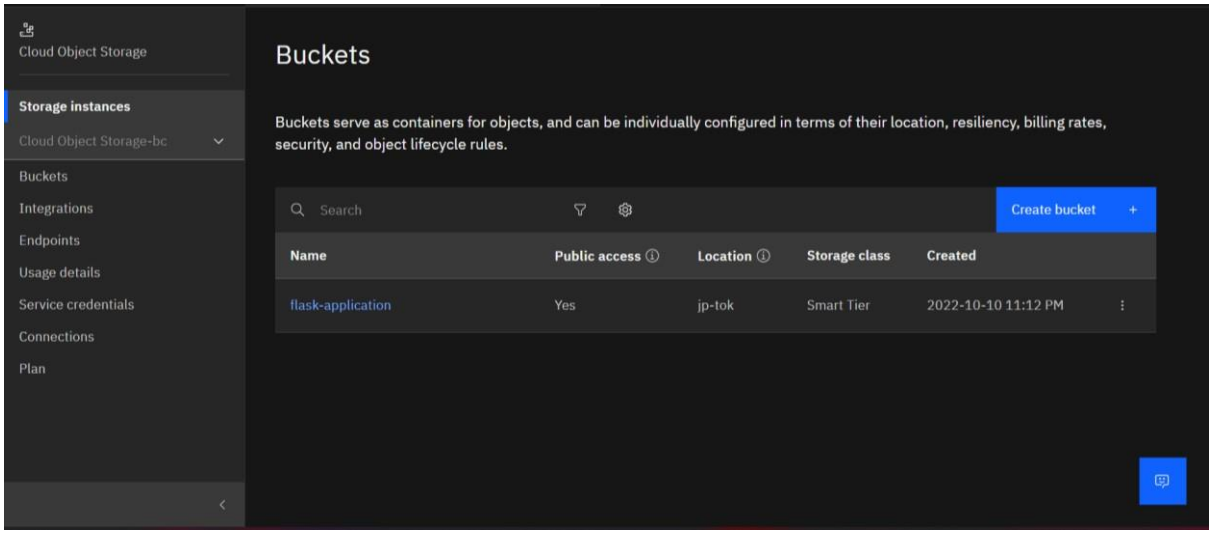
transfer_manager = AsperaTransferManager(client=client, transfer_config=ms_transfer_config)

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:

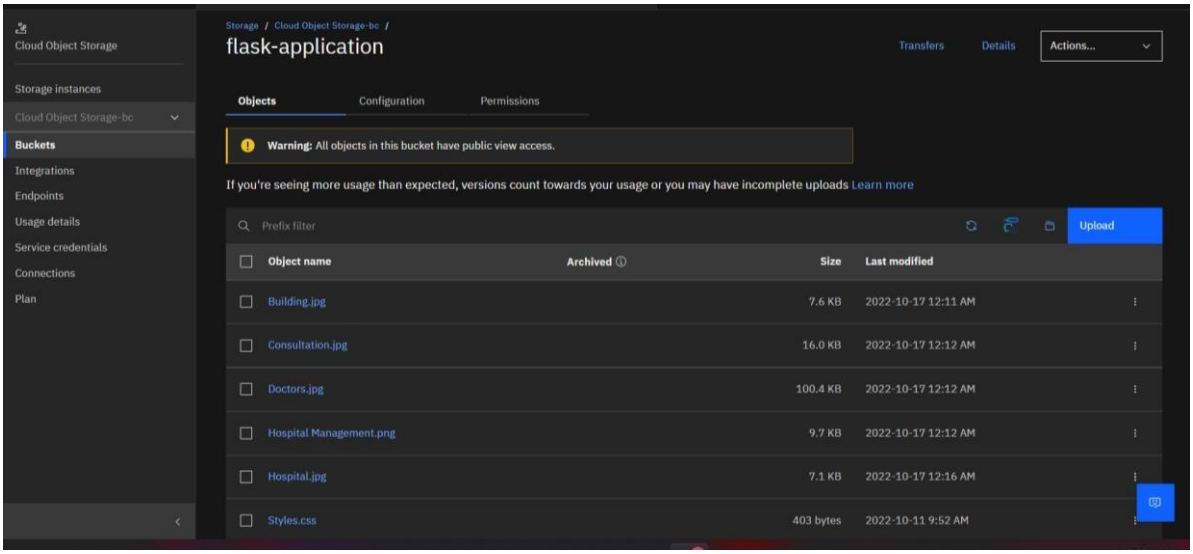
Upload 5 images to ibm object storage and make it public. write html code to displaying all the 5 images.

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>
    <img src="https://flask-application.s3.jp-tok.cloud-object-storage.appdomain.cloud/{{row}}"
width="150px"></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.

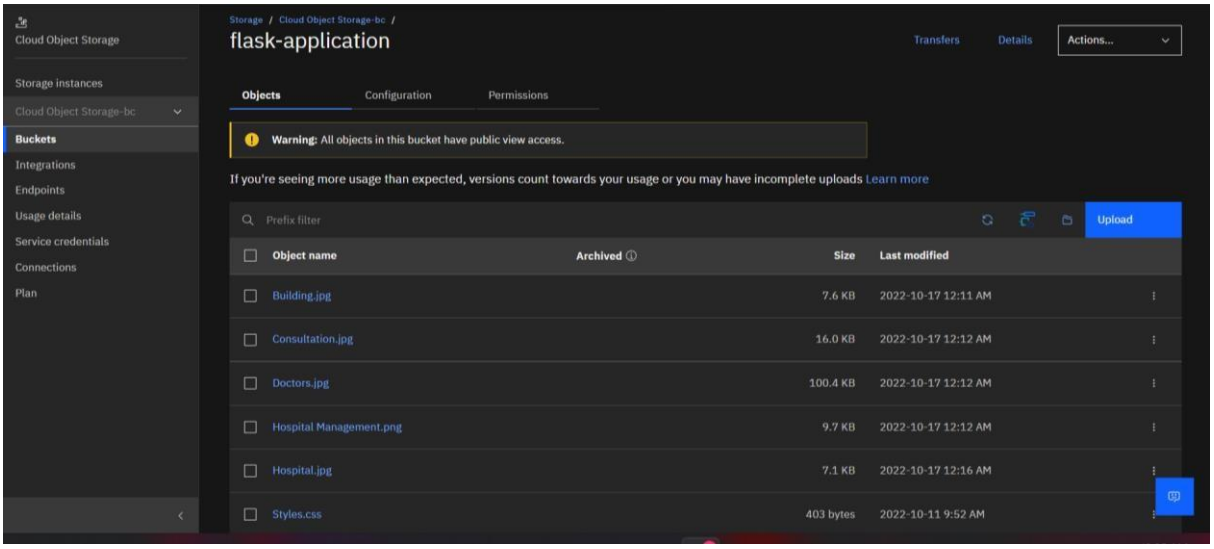
Solution: Styles.css body {

background-color: rgb(190, 229, 247);

text-align: center; font-style: italic ;

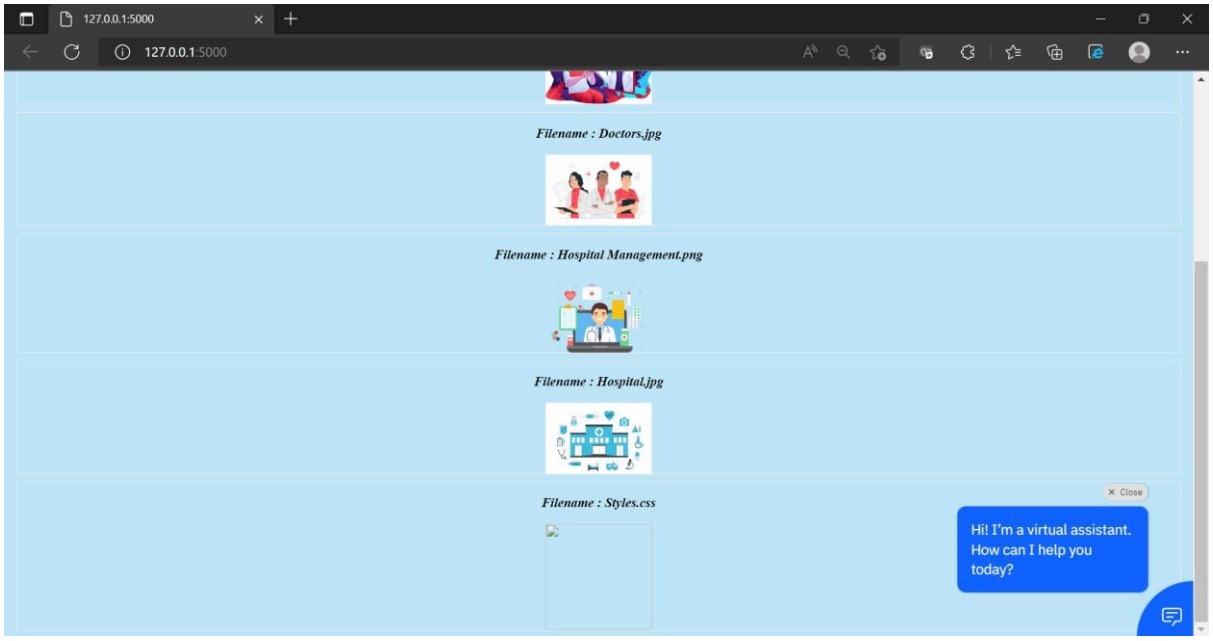
```
}
.outercont
{
   height: 100vh;
width: 100vw;
   display: flex;    flex-direction:
column;    justify-content:
space-around;    align-items:
center;
} p {    font-size:
20px;
}
h1 {    text-align:
center;    font-style:
normal;
}
h2 {    text-align:
center;
}
.cont {    width:
700px;
}
.leftcont {    font-
size: 17px;
}
.rightcont {    font-
size: 17px;
}
.othercont {
   display: flex;
}
```

Output:



Web Page:


127.0.0.1:5000
127.0.0.1:5000
IBM Cloud Storage and IBM Watson Assistant
Filename : Building.jpg
Filename : Consultation.jpg
Filename : Doctors.jpg
Filename : Hospital Management.png


127.0.0.1:5000
127.0.0.1:5000
Filename : Doctors.jpg
Filename : Hospital Management.png
Filename : Hospital.jpg
Filename : Styles.css
Close
Hi! I'm a virtual assistant. How can I help you today?

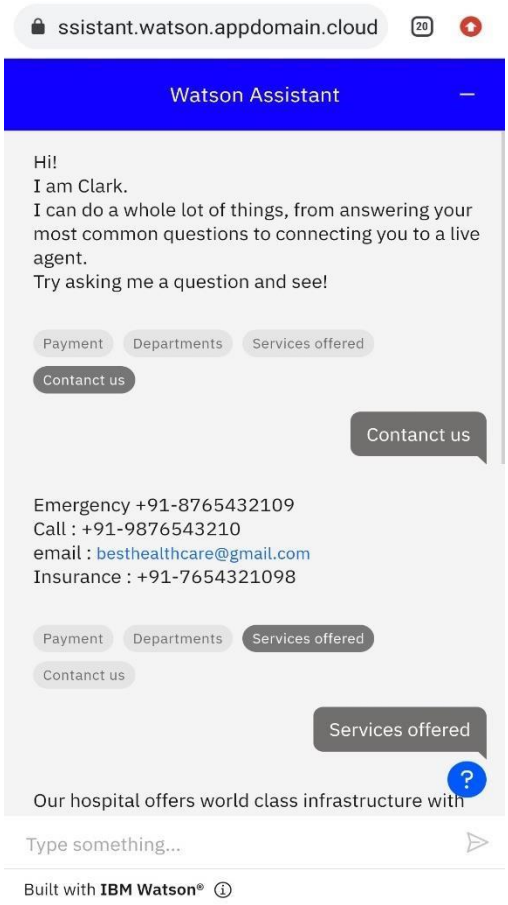
Question-4:

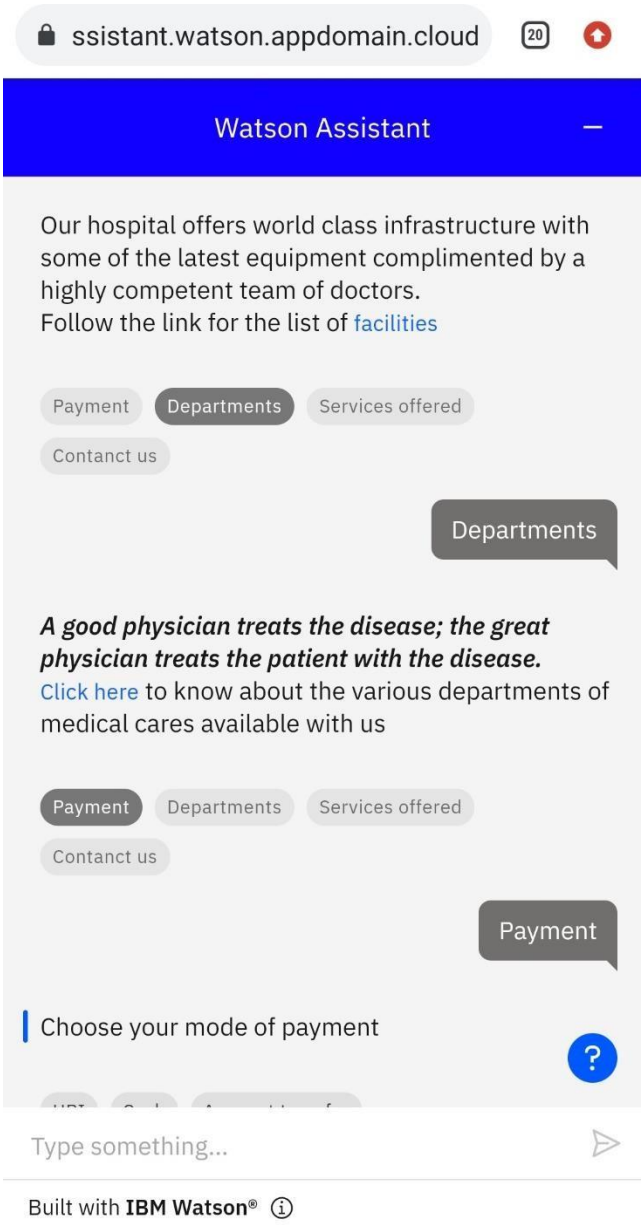
Design a chatbot using IBM Watson assistant for hospital. Ex: User comes with query to know the branches for that hospital in your city. Submit the web URL of that chat bot as a assignment.

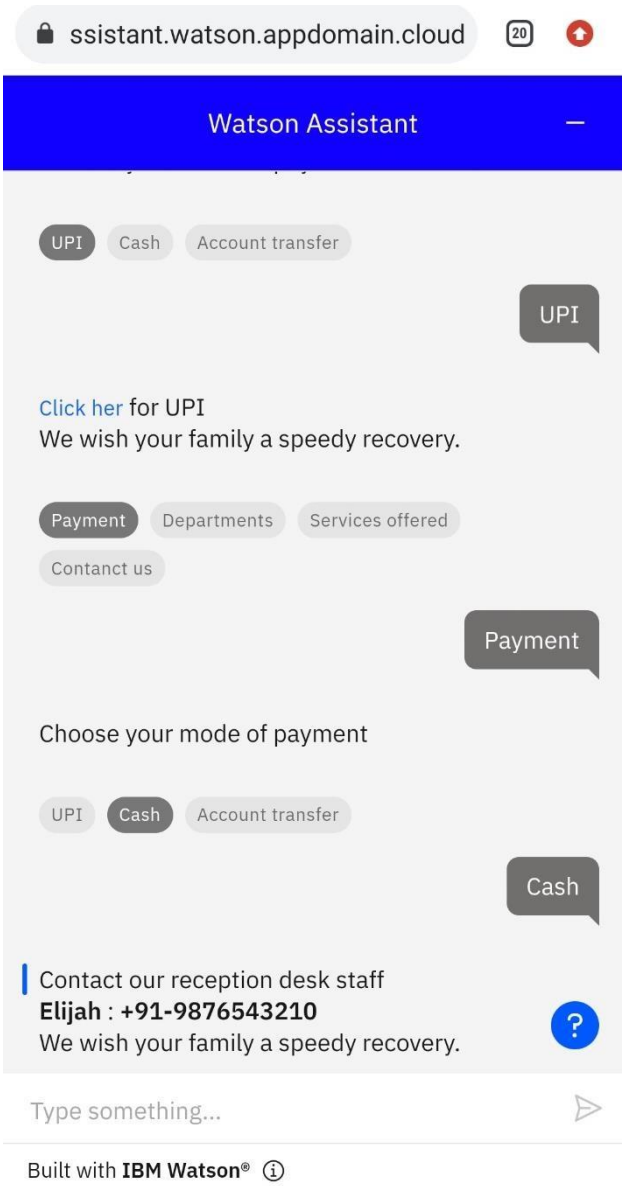
Solution:

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-fbb4-4c2b-8604cb5d605fa157%3A%3Affa26b03-3295-42fd-a098-6723615c4e58&integrationID=a3e3b932-8ee443ee-9ccb-f3cfa9687188&region=jp-tok&serviceInstanceID=440aaee1-fbb4-4c2b-8604cb5d605fa157

Output:




ssistant.watson.appdomain.cloud
Watson Assistant
Our hospital offers world class infrastructure with some of the latest equipment complimented by a highly competent team of doctors.
Follow the link for the list of facilities
Payment
Departments
Services offered
Contanct us
Departments
A good physician treats the disease; the great physician treats the patient with the disease.
Click here to know about the various departments of medical cares available with us
Payment
Departments
Services offered
Contanct us
Payment
Choose your mode of payment
Type something...
Built with IBM Watson®


ssistant.watson.appdomain.cloud
Watson Assistant
UPI
Cash
Account transfer
UPI
Click her for UPI
We wish your family a speedy recovery.
Payment
Departments
Services offered
Contanct 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...
Built with IBM Watson®

Question-5:

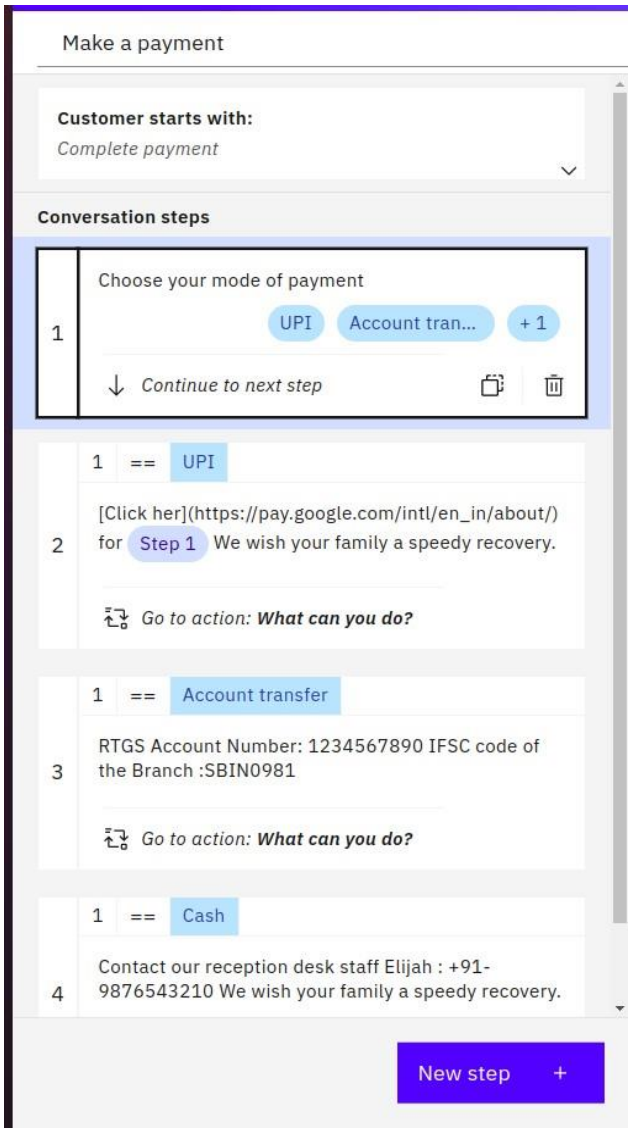
5.Create Watson assistant service with 10 steps and use 3 conditions in it. Load that script in HTML page.

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>
```

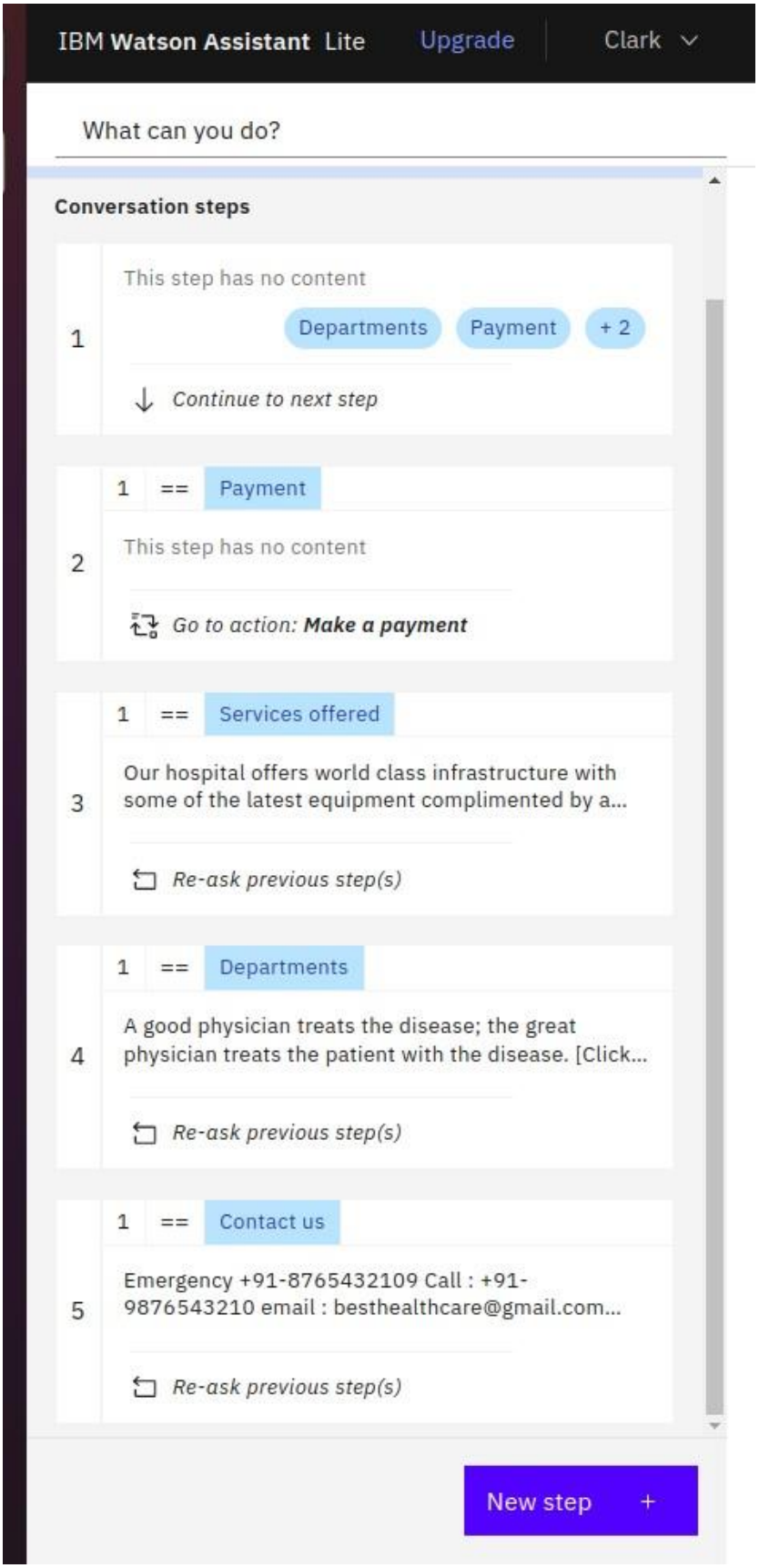
Steps:

Steps in payment



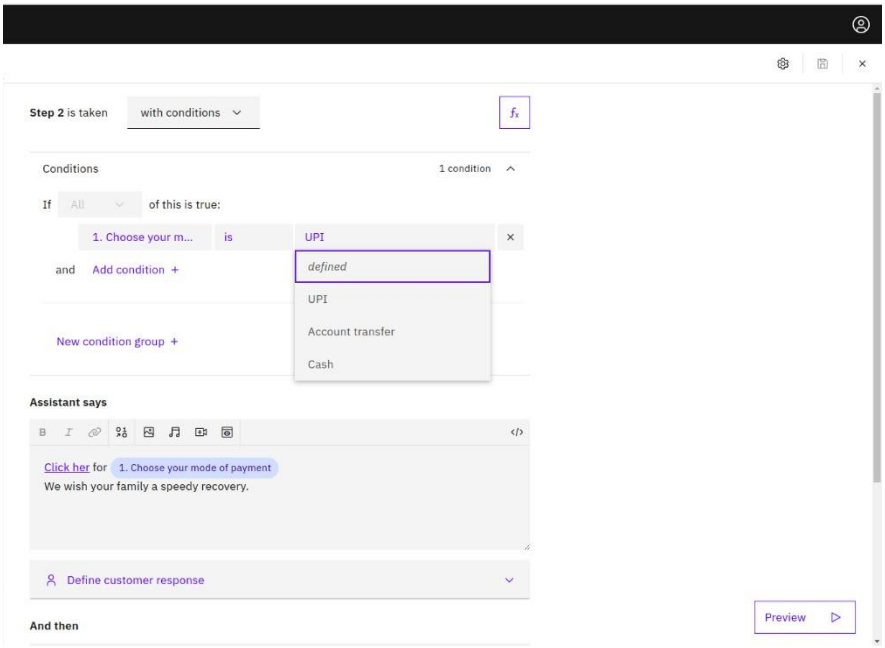
Steps in location

steps in What can you do



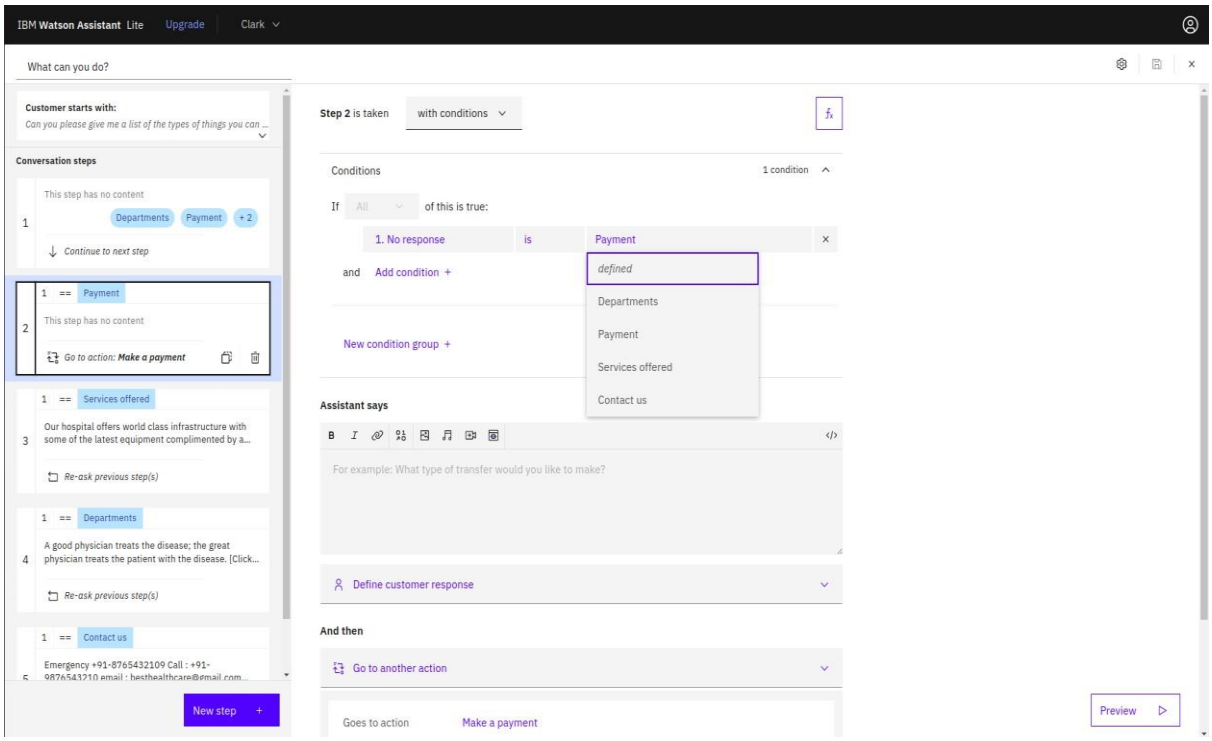
Conditions:
Conditions in payment

- UPI
- Account transfer
- Cash



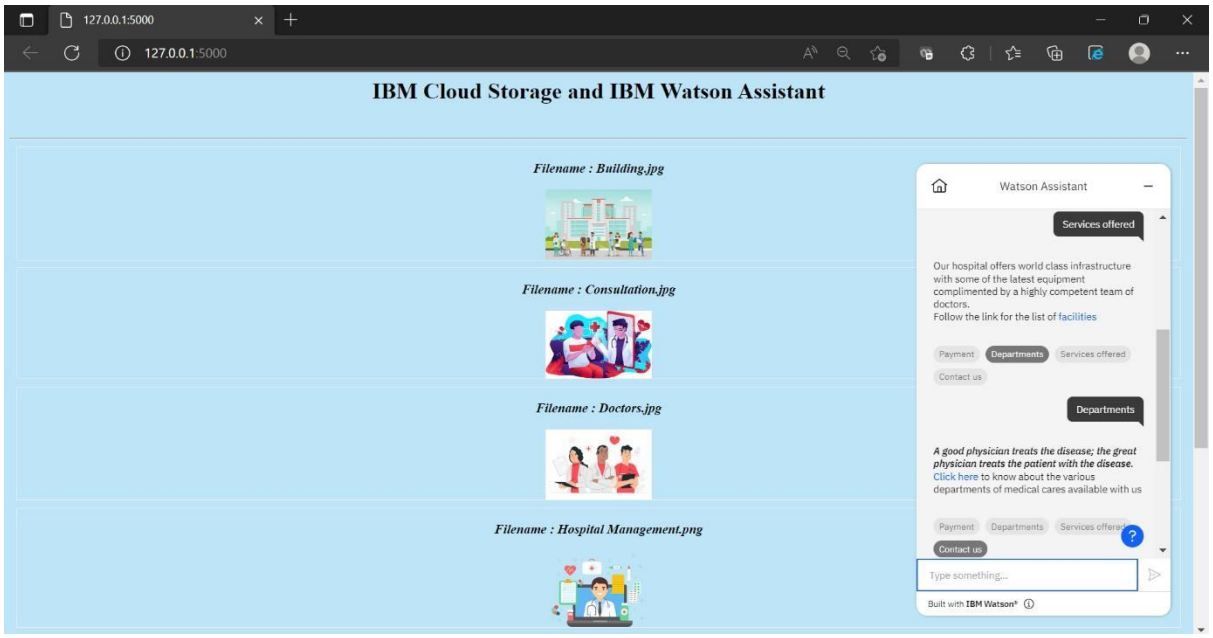
Conditions in What can you do

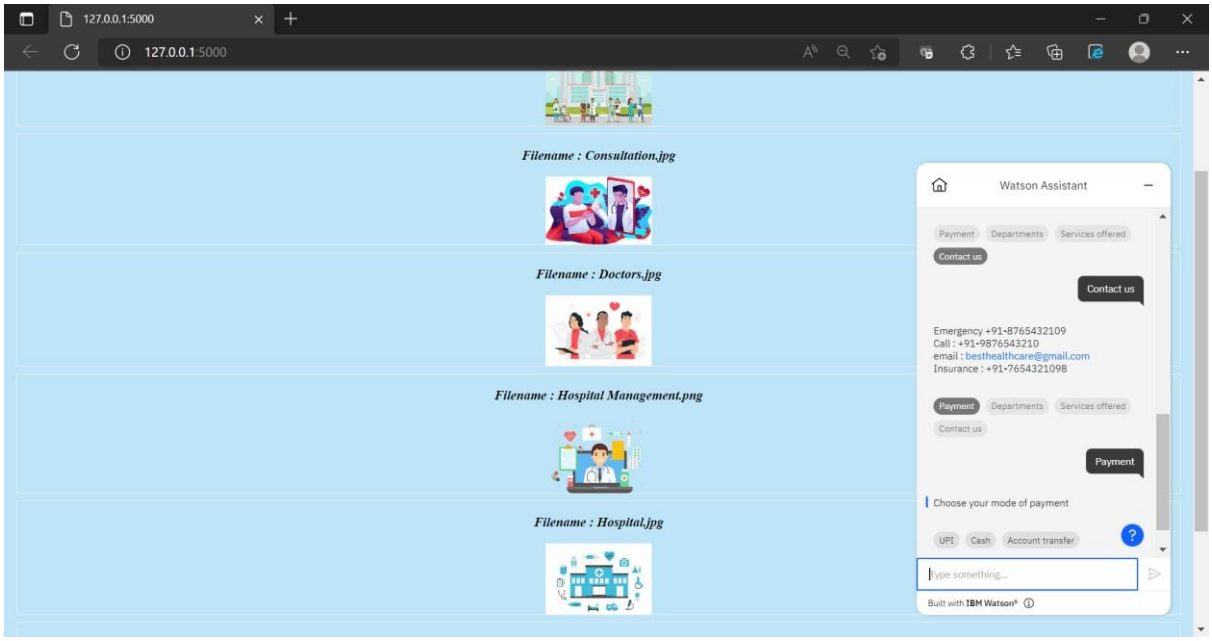
- Departments
- Payment
- Services offered
- Contact us

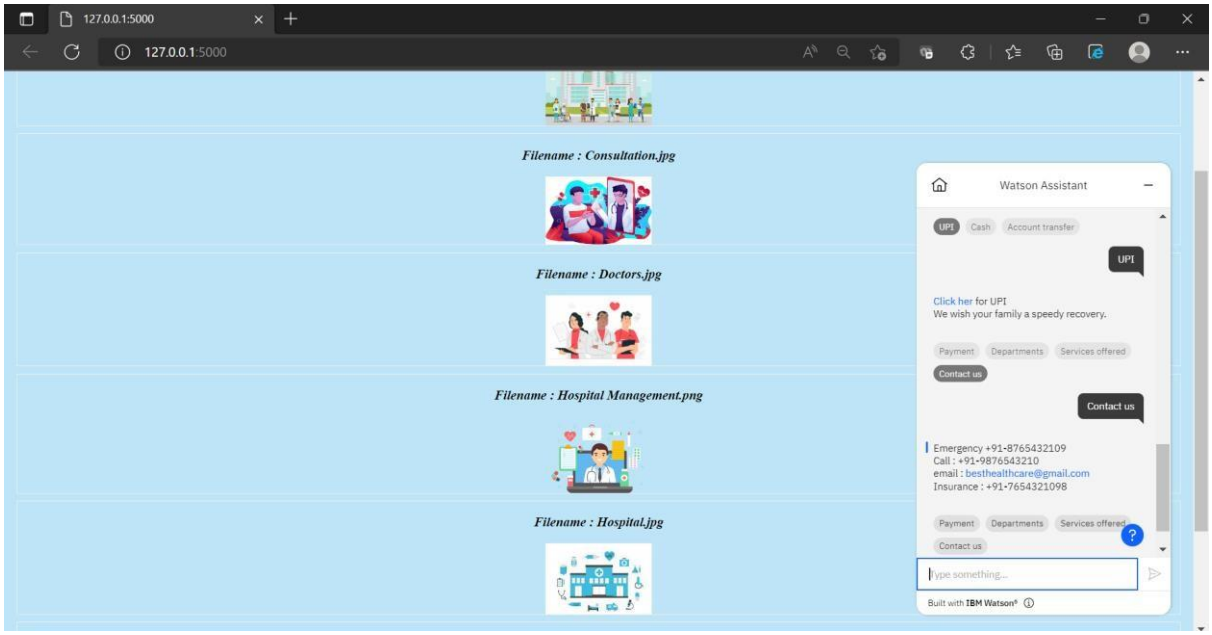


Output:


127.0.0.1:5000
127.0.0.1:5000
IBM Cloud Storage and IBM Watson Assistant
Filename : Building.jpg
Filename : Consultation.jpg
Filename : Doctors.jpg
Filename : Hospital Management.png
Watson Assistant
Example: See how I can help
Did you mean:
What can you do?
Location
Make a payment
None of the above
Location
We have our branch all around the world
Click here to find our nearest hospital branch.
Payment
Departments
Services offered
Contact us
Services offered
Our hospital offers world class infrastructure
Type something...
Built with IBM Watson®


127.0.0.1:5000
127.0.0.1:5000
IBM Cloud Storage and IBM Watson Assistant
Filename : Building.jpg
Filename : Consultation.jpg
Filename : Doctors.jpg
Filename : Hospital Management.png
Watson Assistant
Services offered
Our hospital offers world class infrastructure with some of the latest equipment complimented by a highly competent team of doctors.
Follow the link for the list of facilities
Payment
Departments
Services offered
Contact us
Departments
A good physician treats the disease; the great physician treats the patient with the disease.
Click here to know about the various departments of medical cares available with us
Payment
Departments
Services offered
Contact us
Type something...
Built with IBM Watson®


127.0.0.1:5000
127.0.0.1:5000
Filename : Consultation.jpg
Filename : Doctors.jpg
Filename : Hospital Management.png
Filename : Hospital.jpg
Watson Assistant
Payment
Departments
Services offered
Contact us
Contact us
Emergency +91-8765432109
Call : +91-9876543210
email : besthealthcare@gmail.com
Insurance : +91-7654321098
Payment
Departments
Services offered
Contact us
Payment
Choose your mode of payment
UPI
Cash
Account transfer
Type something...
Built with IBM Watson®


127.0.0.1:5000
127.0.0.1:5000
Filename : Consultation.jpg
Filename : Doctors.jpg
Filename : Hospital Management.png
Filename : Hospital.jpg
Watson Assistant
UPI
Cash
Account transfer
UPI
Click her for UPI
We wish your family a speedy recovery.
Payment
Departments
Services offered
Contact us
Contact us
Emergency +91-8765432109
Call : +91-9876543210
email : besthealthcare@gmail.com
Insurance : +91-7654321098
Payment
Departments
Services offered
Contact us
Type something...
Built with IBM Watson®