Assignment-3
IBMObjectStorage and IBMWatsonAssistant

AssignmentDate	28October2022
StudentName	S. Aarthy
StudentRollNumber	961819104001
MaximumMarks	2Marks

Question1:

CreateaBucketinIBMobject storage.

Solution:

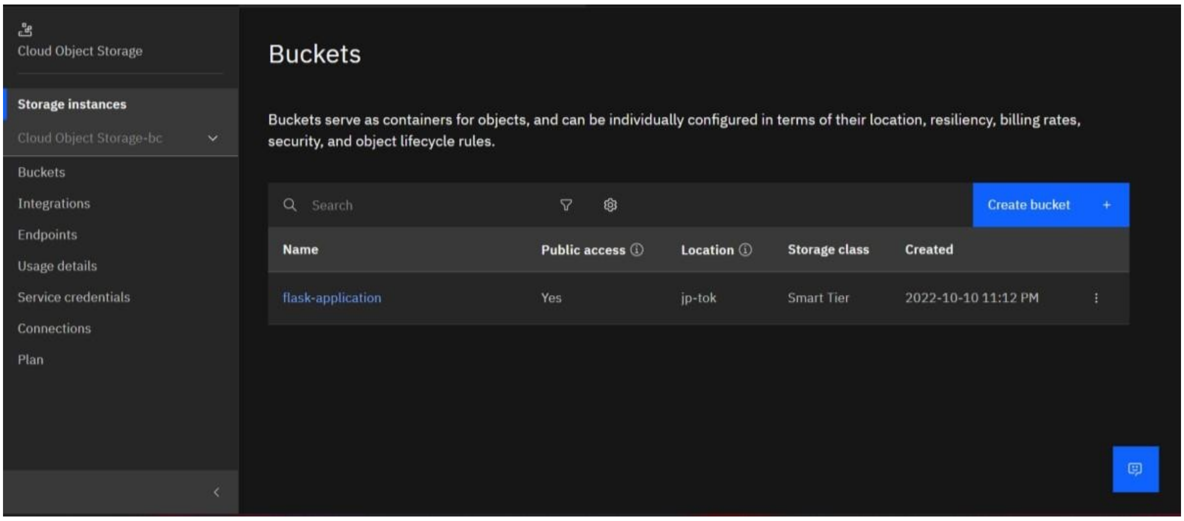
ibmCloudTest.py

```
importibm_boto3

fromibm_botocore.clientimportConfig,ClientError

fromibm_s3transfer.aspera.managerimportAsperaTransferManag

erfromibm_s3transfer.aspera.managerimportAsperaConfig

fromflaskimportFlask,render_template,url_for,request,redirect


COS_ENDPOINT="https://s3.jp-tok.cloud-object-

storage.appdomain.cloud"COS_API_KEY_ID="wprEMAxyjHj5sPI959w

L_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=CO

   S_API_KEY_ID,ibm_service_instance_id=COS_

   INSTANCE_CRN,config=Config(signature_ver

   sion="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"

withAsperaTransferManager(client)astransfer_manager:
  future=transfer_manager.download(bucket_name,object_name,download_filename)futur
  e.result()

defget_item(bucket_name,item_name):
  print("Retrievingitemfrombucket:{0},key:{1}".format(bucket_name,item_name))tr
  y:
    file = cos.Object(bucket_name,
    item_name).get()print("FileContents:{0}".format(fil
    e["Body"].read()))
  exceptClientErrorasbe:
    print("CLIENT ERROR:
  {0}\n".format(be))except Exception ase:
    print("Unabletoretrievefilecontents:{0}".format(e))

defget_bucket_contents(bucket_name):
  print("Retrievingbucketcontentsfrom:{0}".format(bucket_name))
  try:
    files=cos.Bucket(bucket_name).objects.
    all()files_names=[]
    print(files)
    forfile
      infiles:files_names.appen
      d(file.key)
      print("Item:{0}({1}bytes).".format(file.key,file.size)
    )returnfiles_names
  exceptClientErrorasbe:
    print("CLIENT ERROR:
  {0}\n".format(be))except Exception ase:
        print("Unabletoretrievebucketcontents:{0}".format(e))


@app.route('/')
defindex():
    files = get_bucket_contents('flask-
    application')returnrender_template('index.ht
    ml',files=files)


if name=='main':  _
    app.run(debug=True)
```

Output:



Buckets

Buckets serve as containers for objects, and can be individually configured in terms of their location, resiliency, billing rates, security, and object lifecycle rules.

Name	Public access	Location	Storage class	Created
flask-application	Yes	jp-tok	Smart Tier	2022-10-10 11:12 PM

Question2:

Upload5imagestoibmobject storageandmakeitpublic.writehtmlcodetodisplaying allthe5images.

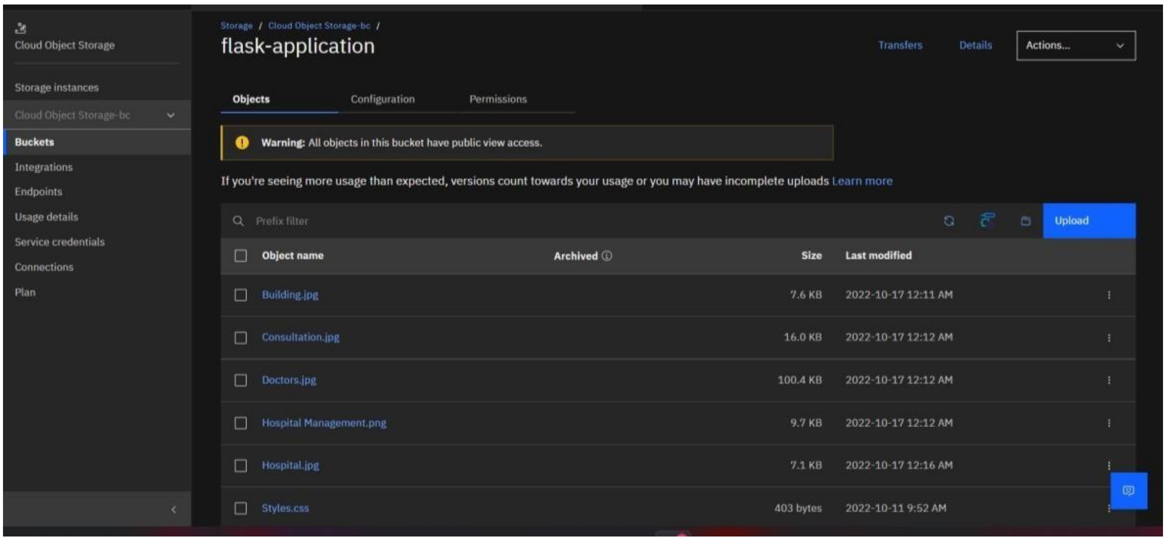
Solution:

index.html

```
<h1>IBMCloudStorageandIBMWatsonAssistant</h1>

<br><hr>


{%blockhead%}

<!--CSS-->

<linkrel="stylesheet"href="{{url_for('static',filename='css/Styles.css')}}"/>

{%endblock%}


<script>window.watsonAssistantChatOp

  tions ={

    integrationID:"8abe6aef-f2bb-4376-be93-

    7fda1857ec36",//TheIDofthisintegration.region: "jp-tok", // The region

    yourintegrationishosted in.

    serviceInstanceID: "440aaee1-fbb4-4c2b-8604-cb5d605fa157", // The ID of your service

    instance.onLoad: function(instance) { instance.render();}

  };

  setTimeout(function(){

    constt=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>


<!doctypehtml>

<html>

  <body>

     {%forrowinfiles%}
```

```
      <divstyle="border:1pxsolid#EFEFEF;margin:10px;">
        <h3>Filename:{{row}}</h3>
        <imgsrc="https://flask-application.s3.jp-tok.cloud-object-storage.appdomain.cloud/{{row}}"width="150px"></td>
      </div>
    {%endfor%}
  </body>
</html>
```

Output:



flask-application

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

□	Object name	Archived ⓘ	Size	Last modified
□	Building.jpg		7.6 KB	2022-10-17 12:11 AM
□	Consultation.jpg		16.0 KB	2022-10-17 12:12 AM
□	Doctors.jpg		100.4 KB	2022-10-17 12:12 AM
□	Hospital Management.png		9.7 KB	2022-10-17 12:12 AM
□	Hospital.jpg		7.1 KB	2022-10-17 12:16 AM
□	Styles.css		403 bytes	2022-10-11 9:52 AM

Question3:

UploadacsspagetotheobjectstorageandusethesamepageinyourHTML code.

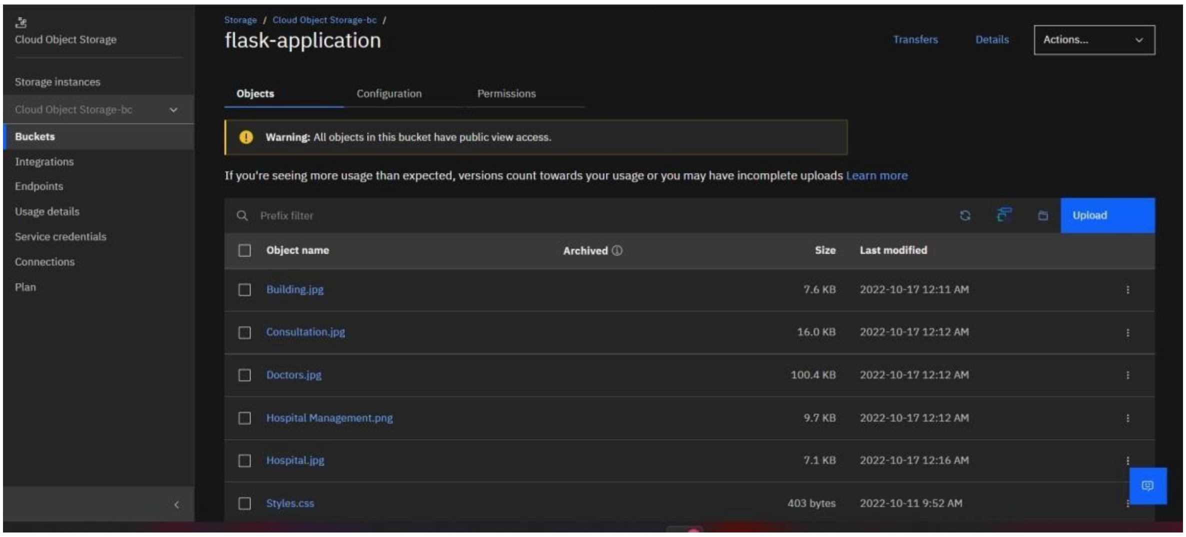
Solution:

Styles.css

```
body{
   background-
   color:rgb(190,229,247);text-
   align:center;
   font-style:italic ;
}
.outercont
{
   height:
   100vh;width:
   100vw;displa
   y: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:



flask-application

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

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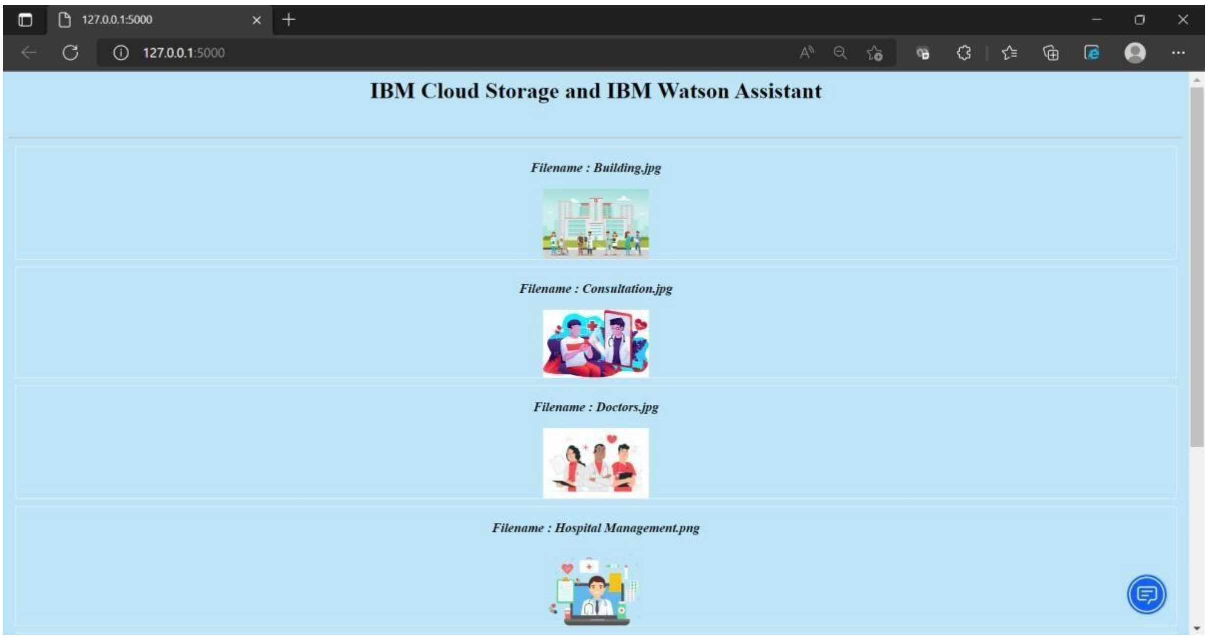
□	Hospital Management.png		9.7 KB	2022-10-17 12:12 AM
□	Hospital.jpg		7.1 KB	2022-10-17 12:16 AM
□	Styles.css		403 bytes	2022-10-11 9:52 AM

Web Page:



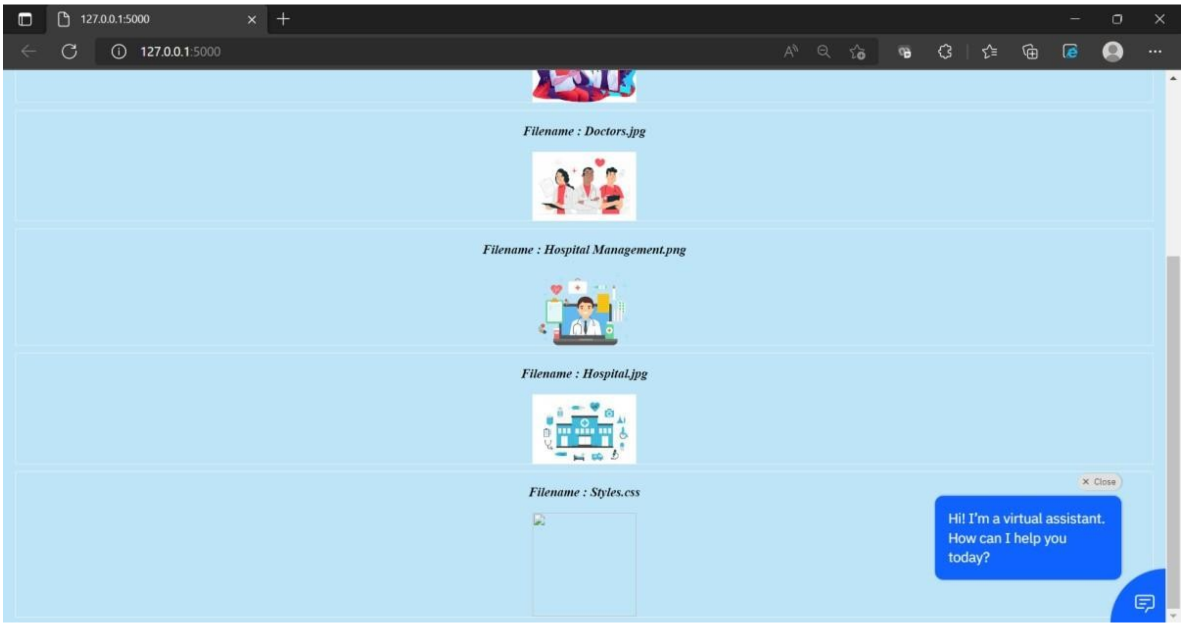
IBM Cloud Storage and IBM Watson Assistant

Filename : Building.jpg

Filename : Consultation.jpg

Filename : Doctors.jpg

Filename : Hospital Management.png



Filename : Doctors.jpg

Filename : Hospital Management.png

Filename : Hospital.jpg

Filename : Styles.css

Hi! I'm a virtual assistant. How can I help you today?

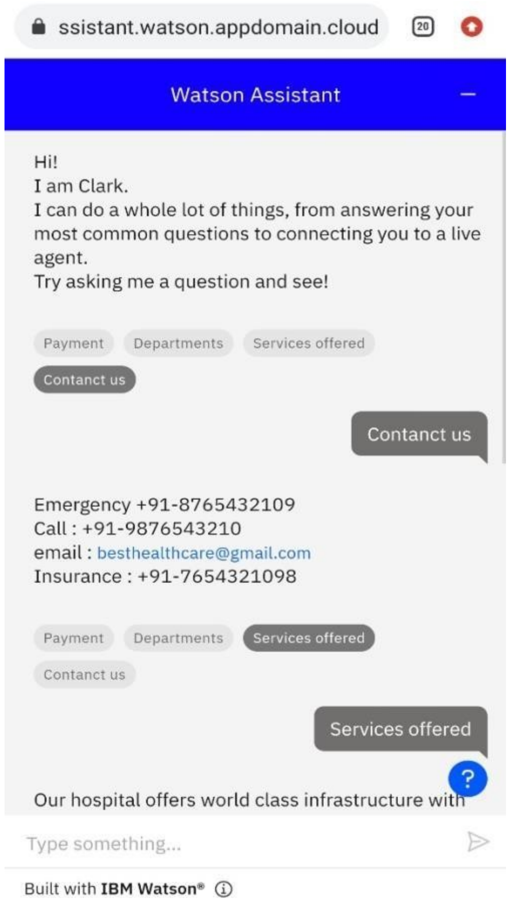
Question-4:

Designachatbot usingIBMWatsonassistantforhospital.Ex:Usercomeswithquerytoknowthebranchesforthat hospitalinyourcity.Submit thewebURLofthat chat botasaassignment.

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-8604-cb5d605fa157%3A%3Affa26b03-3295-42fd-a098-6723615c4e58&integrationID=a3e3b932-8ee4-43ee-9ccb-f3cfa9687188&region=jp-tok&serviceInstanceID=440aaee1-fbb4-4c2b-8604-cb5d605fa157

Output:



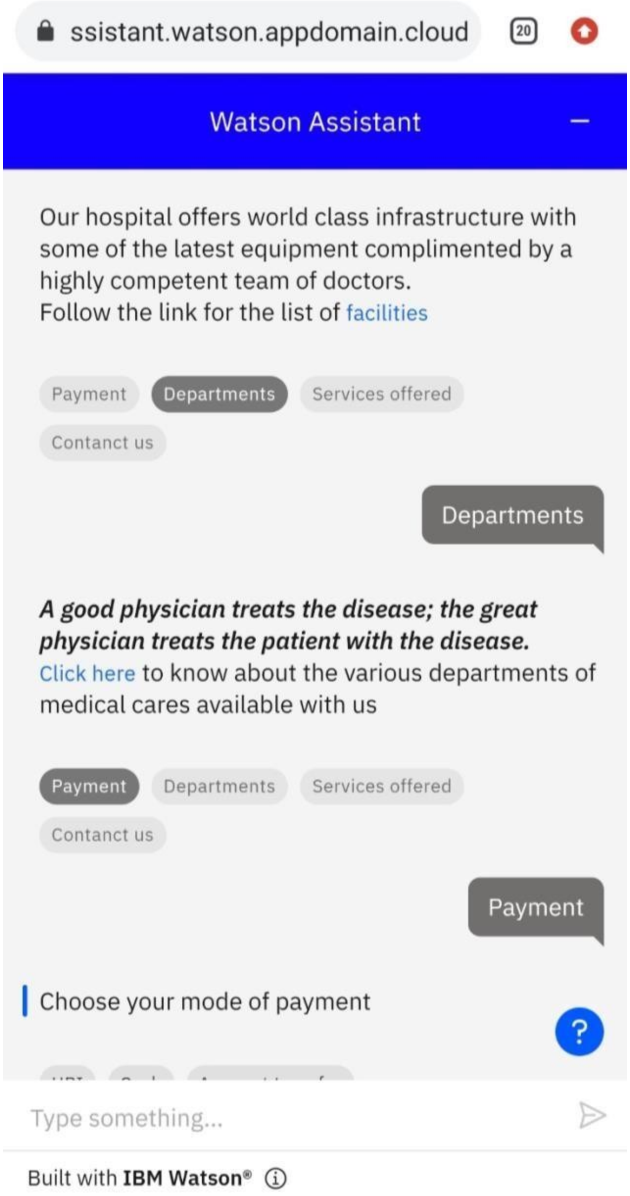
Hi!
I am Clark.
I can do a whole lot of things, from answering your most common questions to connecting you to a live agent.
Try asking me a question and see!

Contanct us

Emergency +91-8765432109
Call : +91-9876543210
email : besthealthcare@gmail.com
Insurance : +91-7654321098

Services offered

Our hospital offers world class infrastructure with



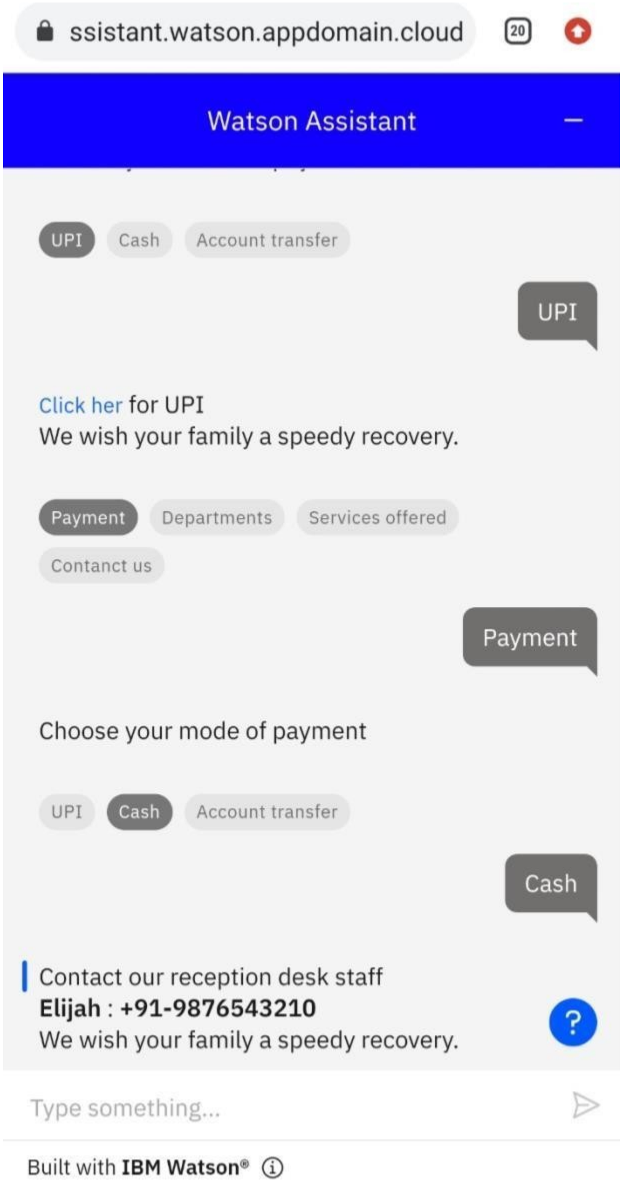
Our hospital offers world class infrastructure with some of the latest equipment complimented by a highly competent team of doctors.
Follow the link for the list of facilities

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

Choose your mode of payment



UPI

Click her for UPI
We wish your family a speedy recovery.

Payment

Choose your mode of payment

Cash

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

Question-5:

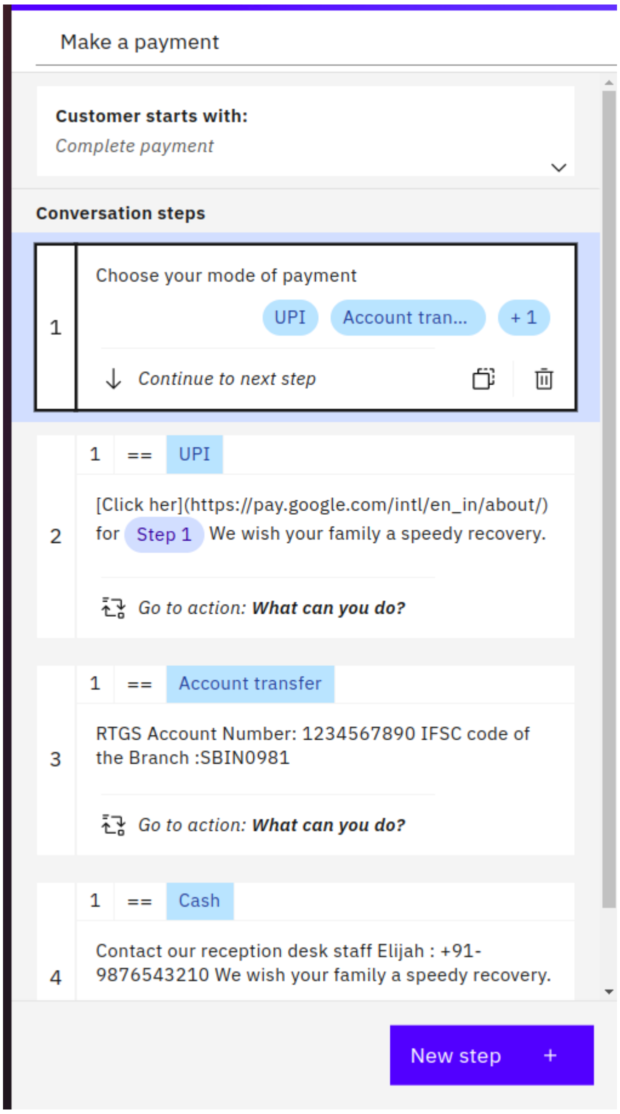
5.CreateWatsonassistantservicewith10stepsanduse3conditionsinit.LoadthatscriptinHTMLpage.

Solution:

```
<script>window.watsonAssistantChatOp
  tions ={
    integrationID:"8abe6aef-f2bb-4376-be93-
    7fda1857ec36",//TheIDofthisintegration.region: "jp-tok", //Theregion
    yourintegrationishosted in.
    serviceInstanceID: "440aaee1-fbb4-4c2b-8604-cb5d605fa157", // The ID of your service
    instance.onLoad: function(instance) { instance.render();}
  };
  setTimeout(function(){
    constt=document.createElement('script');
    t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/"
+(window.watsonAssistantChatOptions.clientVersion||'latest')+"/WatsonAssistantChatEntry.j
s";
    document.head.appendChild(t);
  });
 </script>
```

Steps:

Stepsinpayment



Make a payment

Customer starts with:

Complete payment

Conversation steps

1 Choose your mode of payment

Continue to next step

2 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?***

3 1 == Account transfer

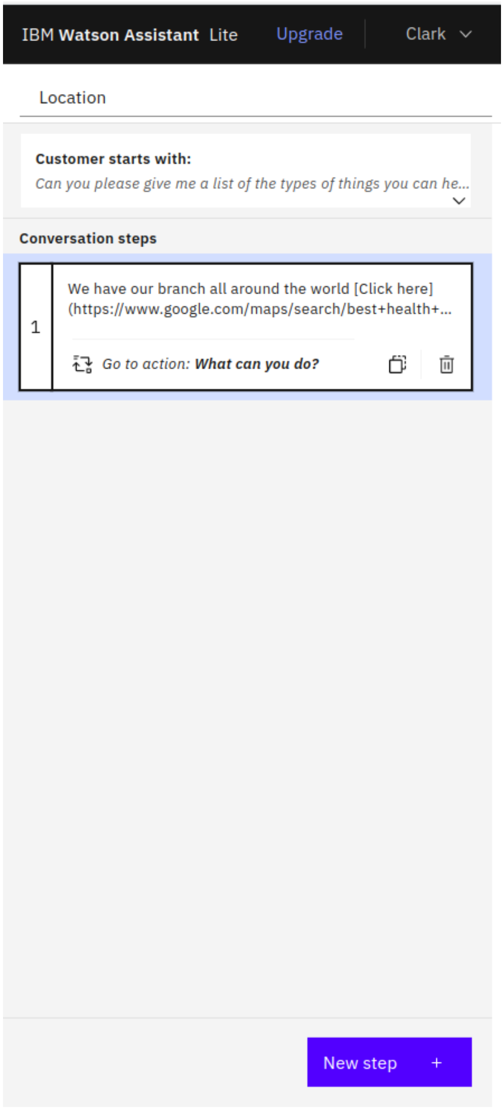
RTGS Account Number: 1234567890 IFSC code of the Branch :SBIN0981

Go to action: ***What can you do?***

4 1 == Cash

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

Stepsinlocation



Location

Customer starts with:

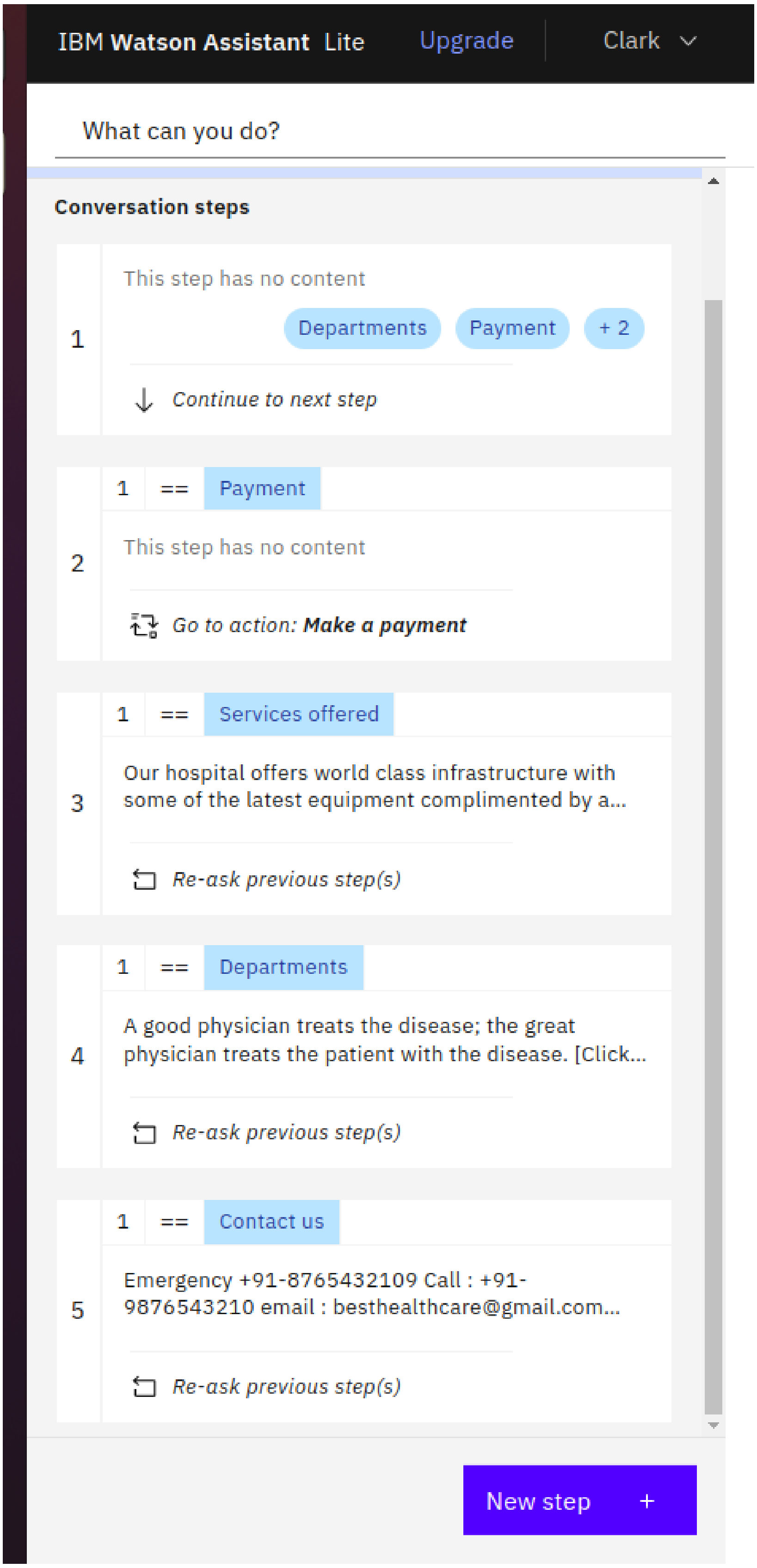
Can you please give me a list of the types of things you can he...

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?***

stepsinWhat canyoudo



What can you do?

Conversation steps

1 This step has no content

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

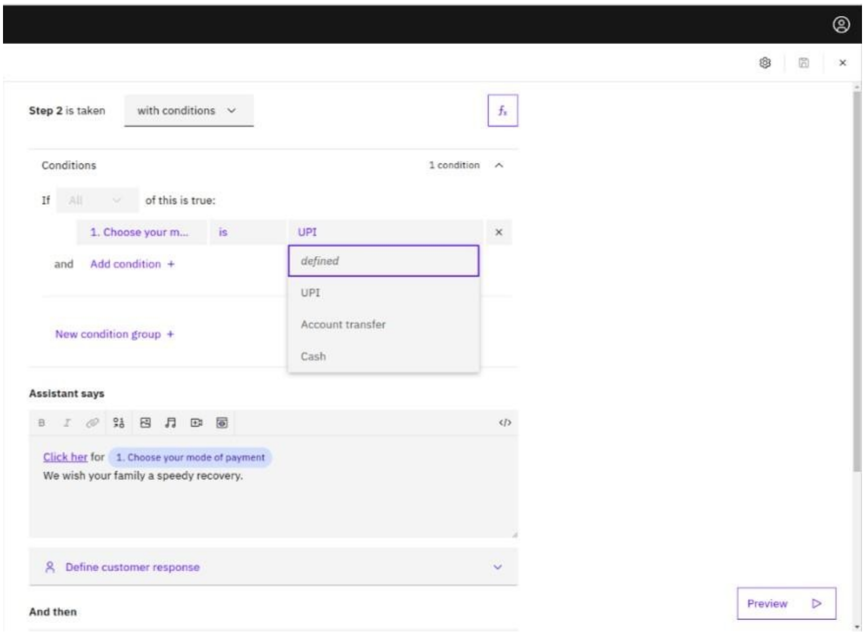
Emergency +91-8765432109 Call : +91-9876543210 email : besthealthcare@gmail.com...

Re-ask previous step(s)

Conditions:

Conditionsinpayment

- UPI
- Accounttransfer
- Cash



Step 2 is taken with conditions

Conditions 1 condition

If All of this is true:

1. Choose your m... is UPI

and Add condition +

New condition group +

Assistant says

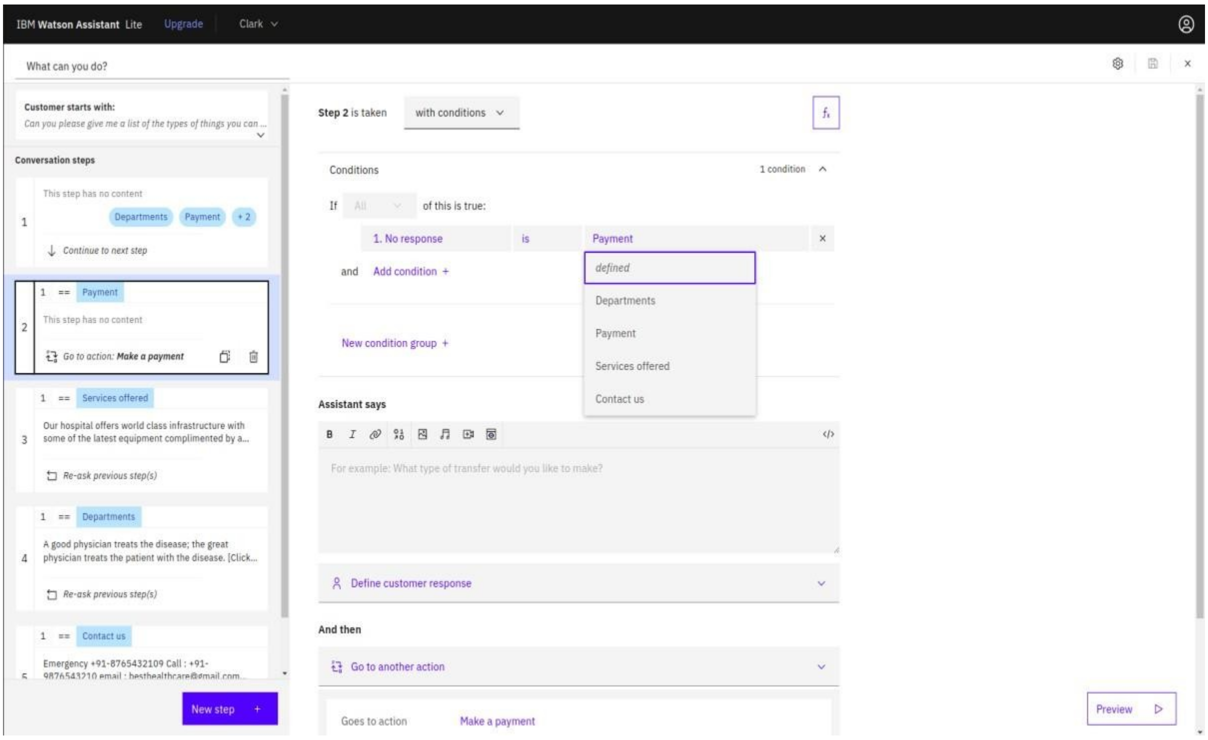
Click her for 1. Choose your mode of payment
We wish your family a speedy recovery.

Define customer response

And then

ConditionsinWhat canyoudo

- Departments
- Payment
- Servicesoffered
- Contact us



IBM Watson Assistant Lite Upgrade Clark

What can you do?

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

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...

New step +

Step 2 is taken with conditions

Conditions 1 condition

If All of this is true:

1. No response is Payment

and Add condition +

defined
Departments
Payment
Services offered
Contact us

New condition group +

Assistant says

For example: What type of transfer would you like to make?

Define customer response

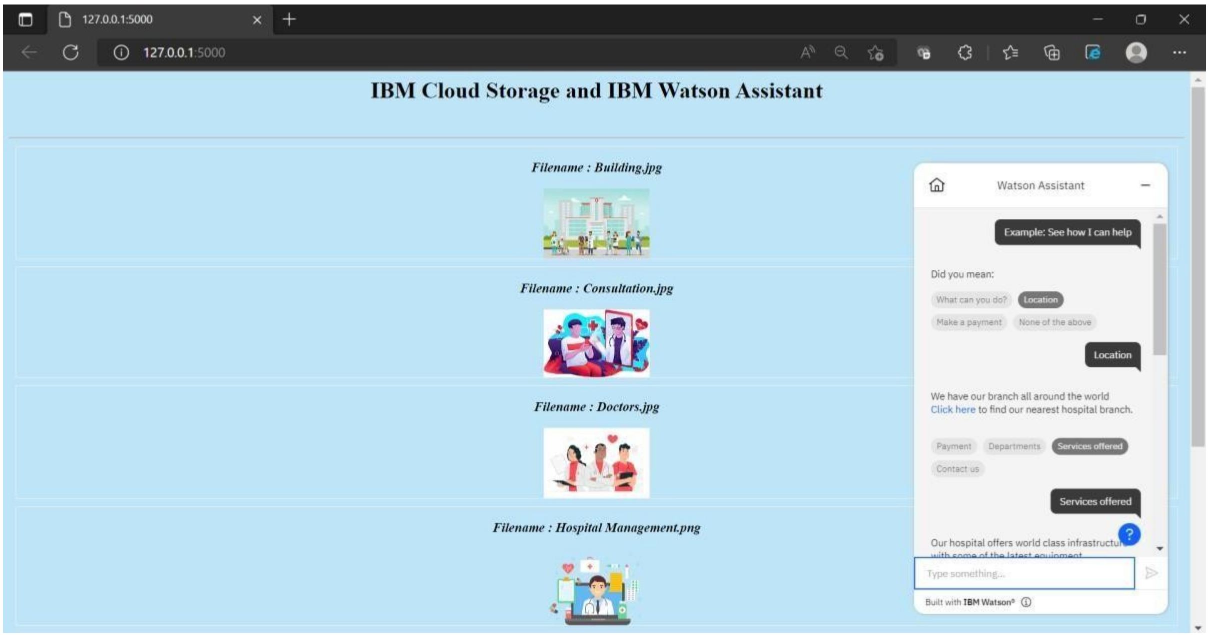
And then

Go to another action

Goes to action Make a payment

Preview

Output:



IBM Cloud Storage and IBM Watson Assistant

Filename : Building.jpg

Filename : Consultation.jpg

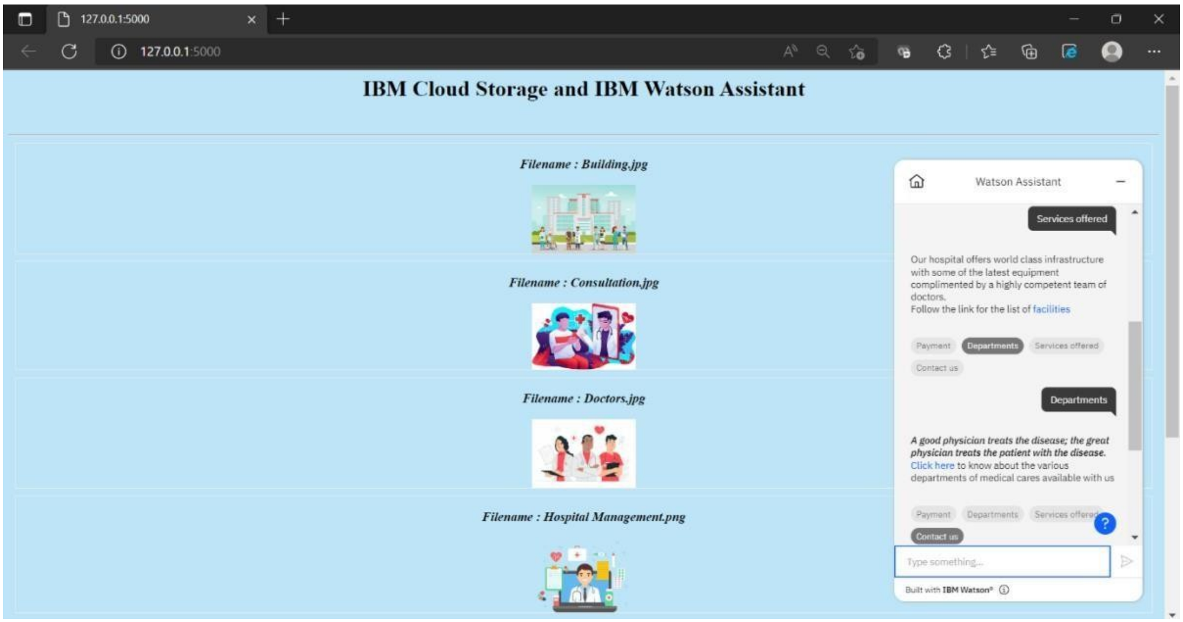
Filename : Doctors.jpg

Filename : Hospital Management.png

Did you mean:

We have our branch all around the world
Click here to find our nearest hospital branch.

Our hospital offers world class infrastructure
with some of the latest equipment



IBM Cloud Storage and IBM Watson Assistant

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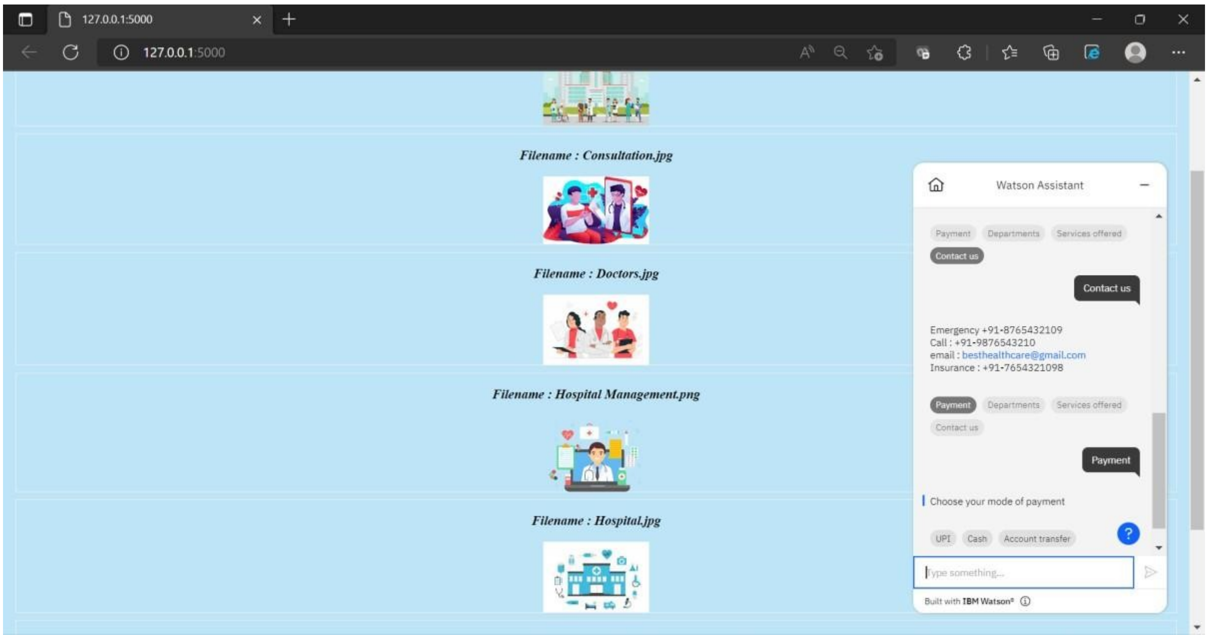
Filename : Doctors.jpg

Filename : Hospital Management.png

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

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



Filename : Consultation.jpg

Filename : Doctors.jpg

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Filename : Hospital.jpg

Contact us

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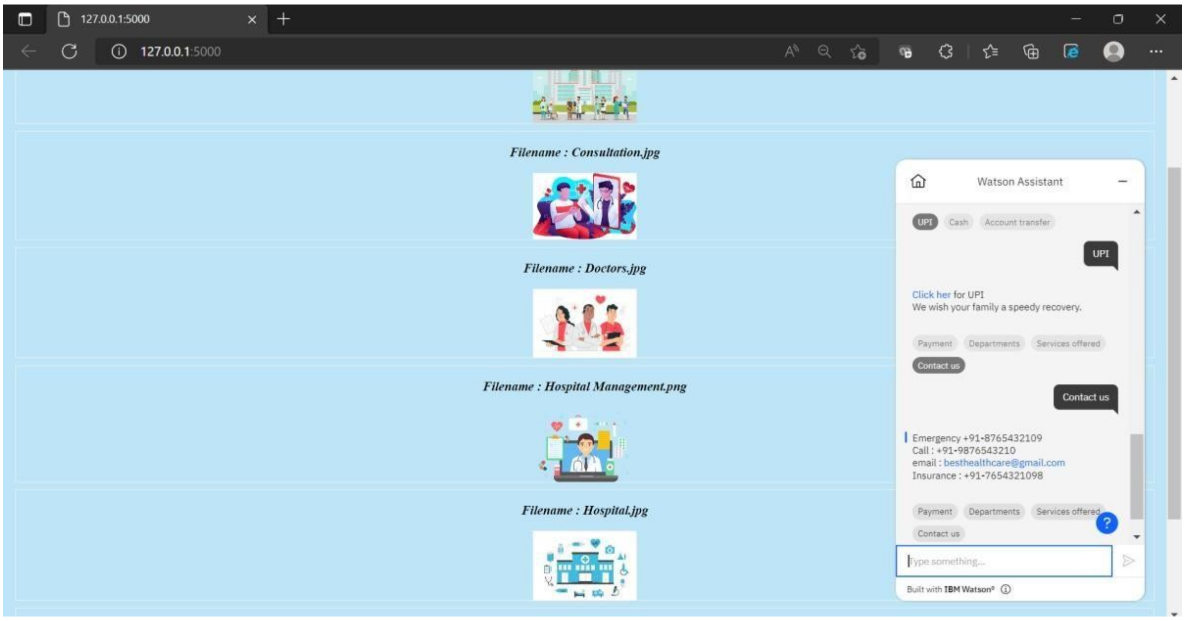
Call : +91-9876543210
email : besthealthcare@gmail.com
Insurance : +91-7654321098

Payment

Choose your mode of payment



Filename : Consultation.jpg

Filename : Doctors.jpg

Filename : Hospital Management.png

Filename : Hospital.jpg

UPI

Click her for UPI
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email : besthealthcare@gmail.com
Insurance : +91-7654321098