Assignment-3
IBMObjectStorage and
IBMWatsonAssistant

AssignmentDate	28October2022
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StudentRollNumber	961819104052
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,

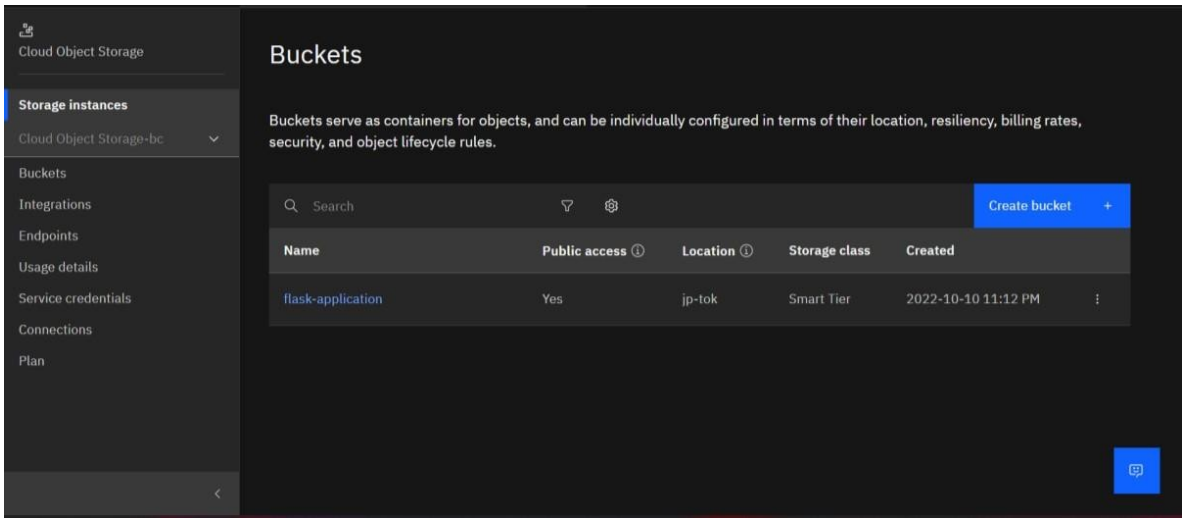
transfer_config=ms_transfer_config)

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:



Question2:

Upload5imagestoibmobject storageandmakeitpublic.writehtmlcodetodisplaying allthe5images.

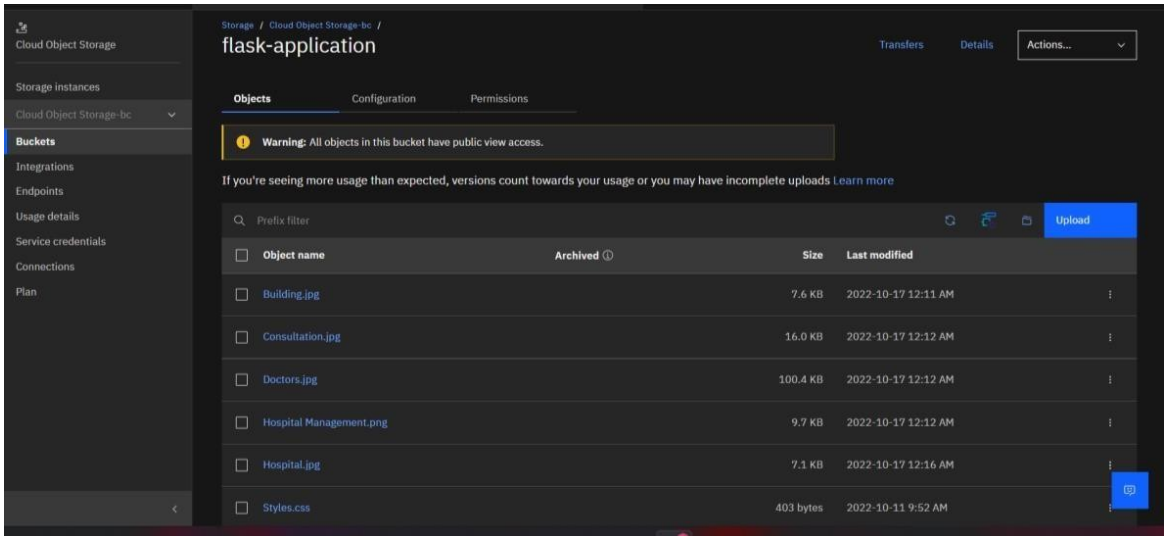
Solution:

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:



Question3:

UploadacsspagetotheobjectstorageandusethesamepageinyourHTML code.

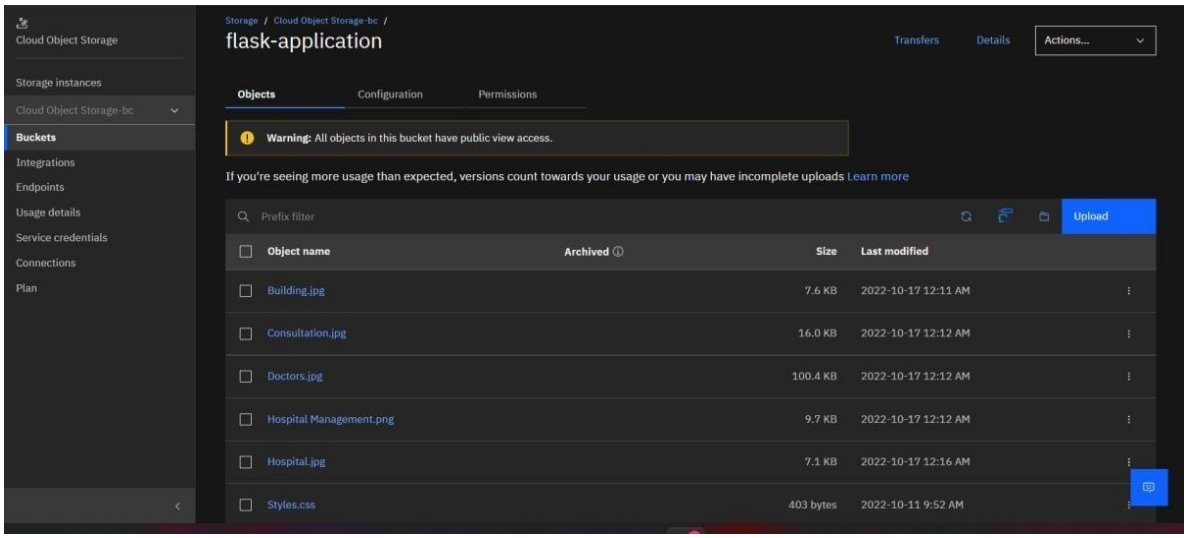
Solution:

Styles.css

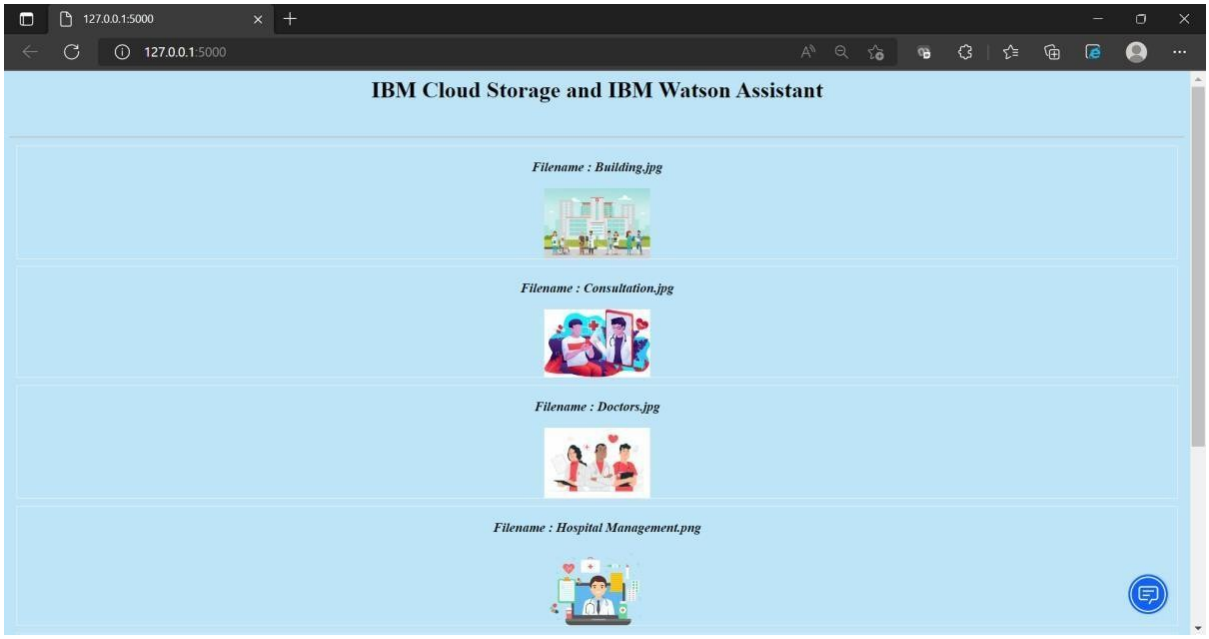
```
body{
   background-
   color:rgb(190,229,247);text-
   align:center;
   font-style:italic ;
}
.outercont
{
   height:
   100vh;width:
   100vw;displa
   y:flex;
   flex-direction:column;
   justify-content:          space-
   around;align-items: center;
}
p{
   font-size:20px;
}
h1{
   text-align:
   center;font-
   style:normal;
}
h2{
   text-align:center;
}
.cont {
   width:700px;
}
```

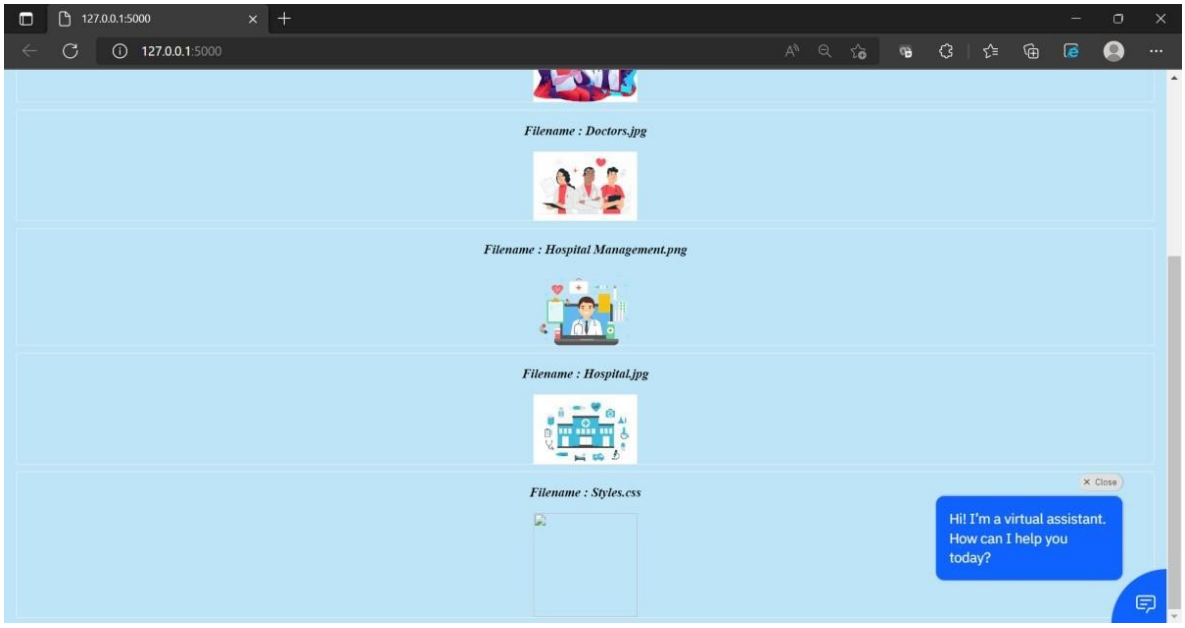
```
.leftcont{
   font-size:17px;
}
.rightcont{
   font-size:17px;
}
.othercont
   {display:flex;
}
```

Output:



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?

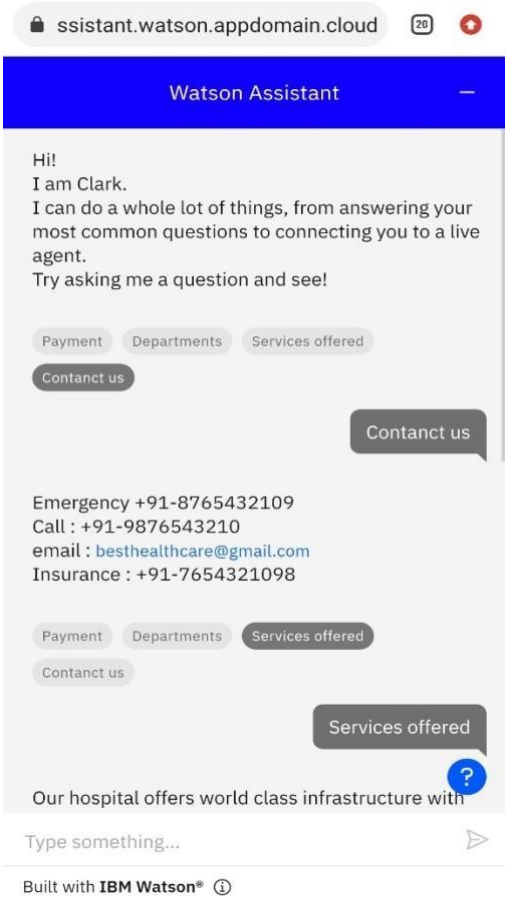
Question-4:

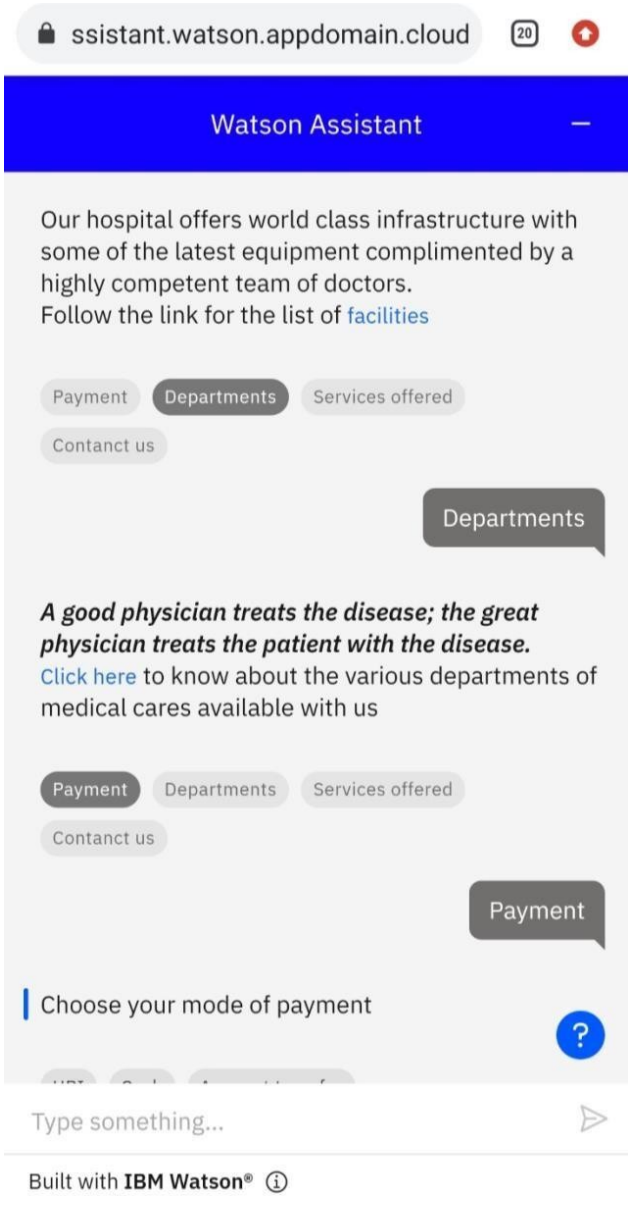
Designachatbot usingIBMWatsonassistantforhospital.Ex:Usercomeswithquerytoknowthebranchesforthat hospitalinyourcity.Submit thewebURLofthat chat botasaassignment.

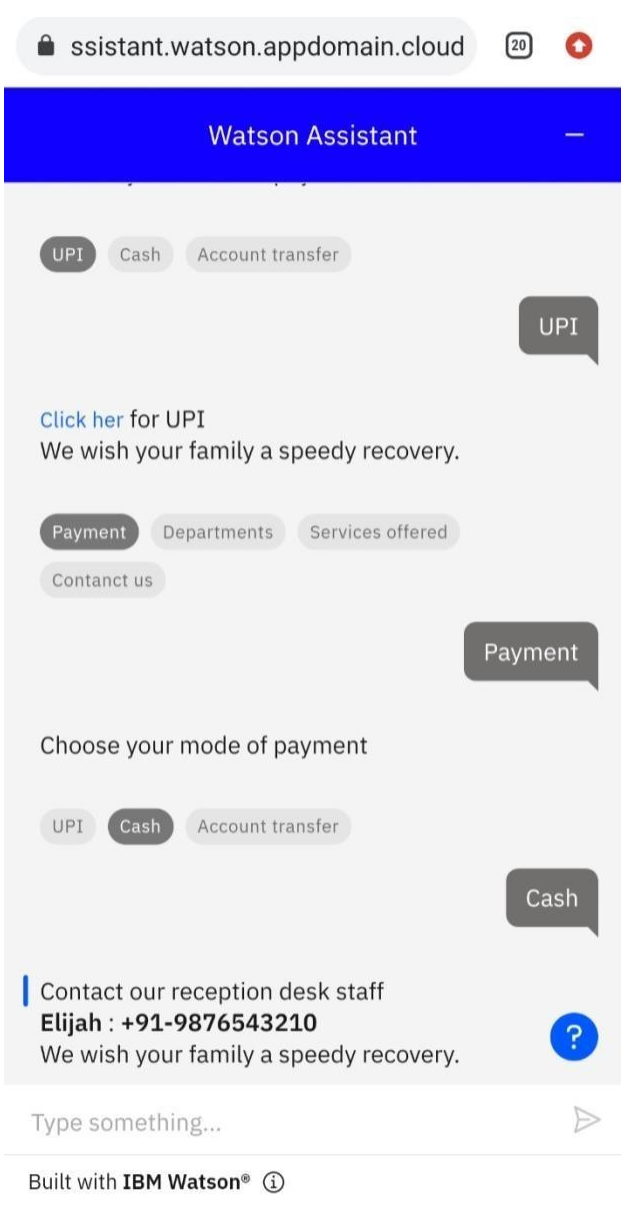
Solution:

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:




ssistant.watson.appdomain.cloud
20
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
20
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:

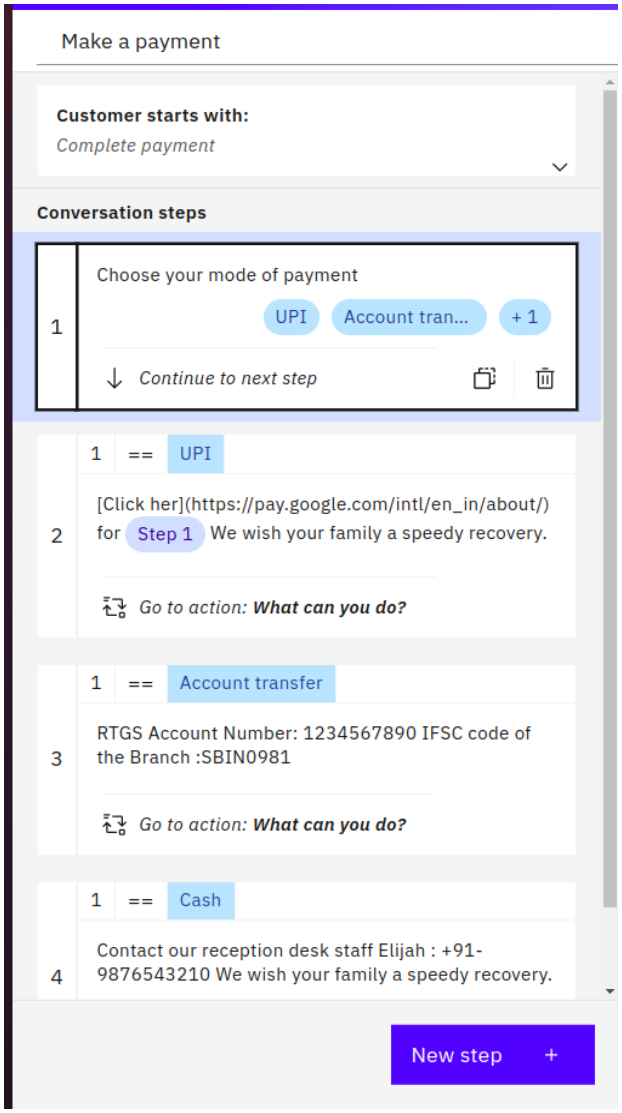
5.CreateWatsonassistantservicewith10stepsanduse3conditionsinit.LoadthatscriptinHTMLpage.

Solution:

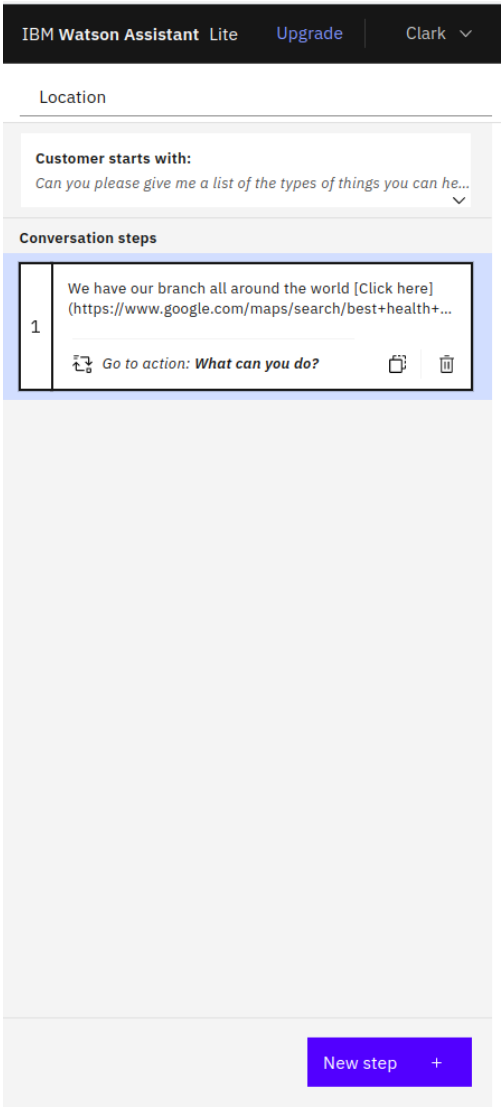
```
<script>window.watsonAssistantChatOp
  tions ={
    integrationID:"8abe6aef-f2bb-4376-be93-
    7fda1857ec36",//TheIDofthisintegration.region: "jp-tok", //Theregion
    yourintegrationishosted in.
    serviceInstanceID: "440aaee1-fbb4-4c2b-8604-cb5d605fa157", // The ID of your service
    instance.onLoad: 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:

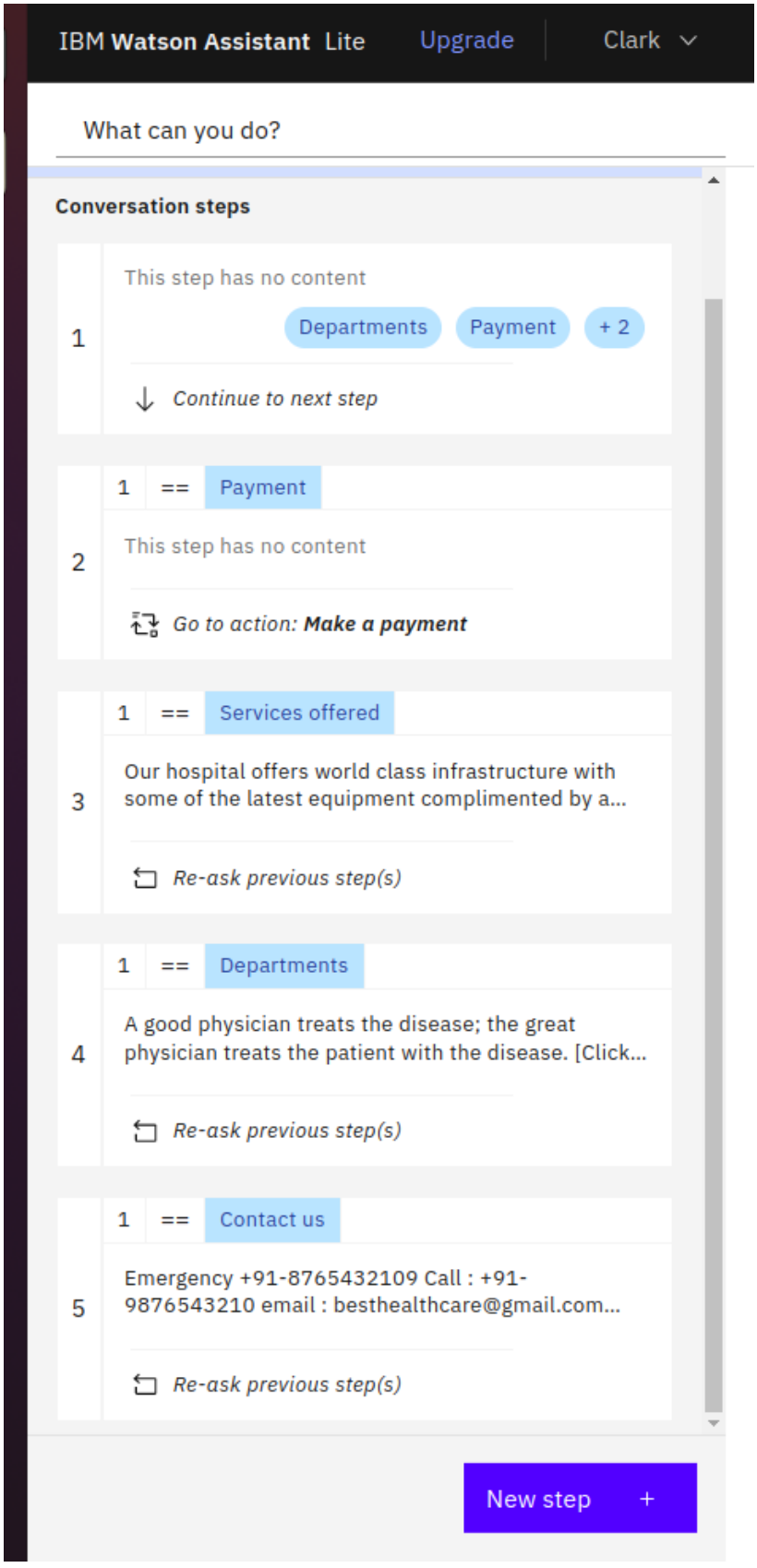
Stepsinpayment



Stepsinlocation



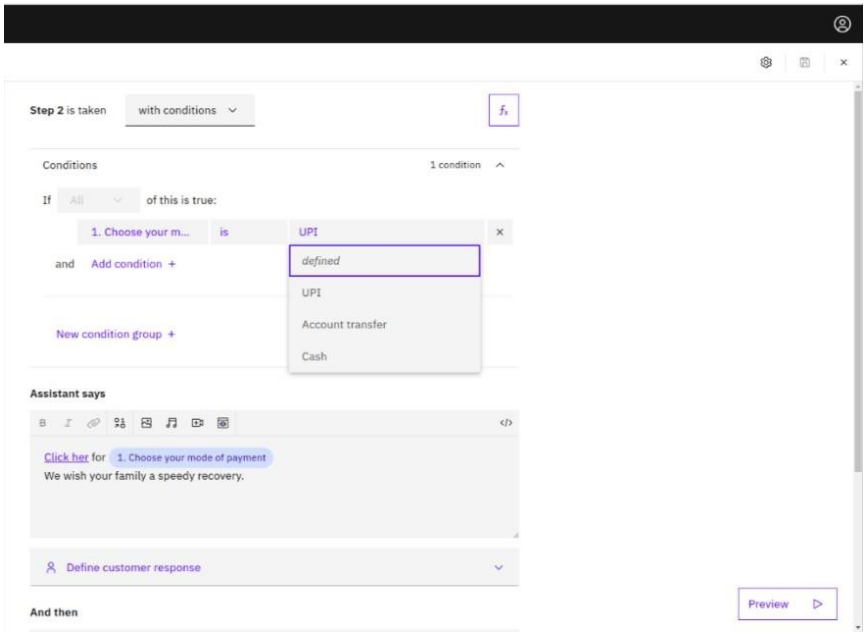
stepsinWhat canyoudo



Conditions:

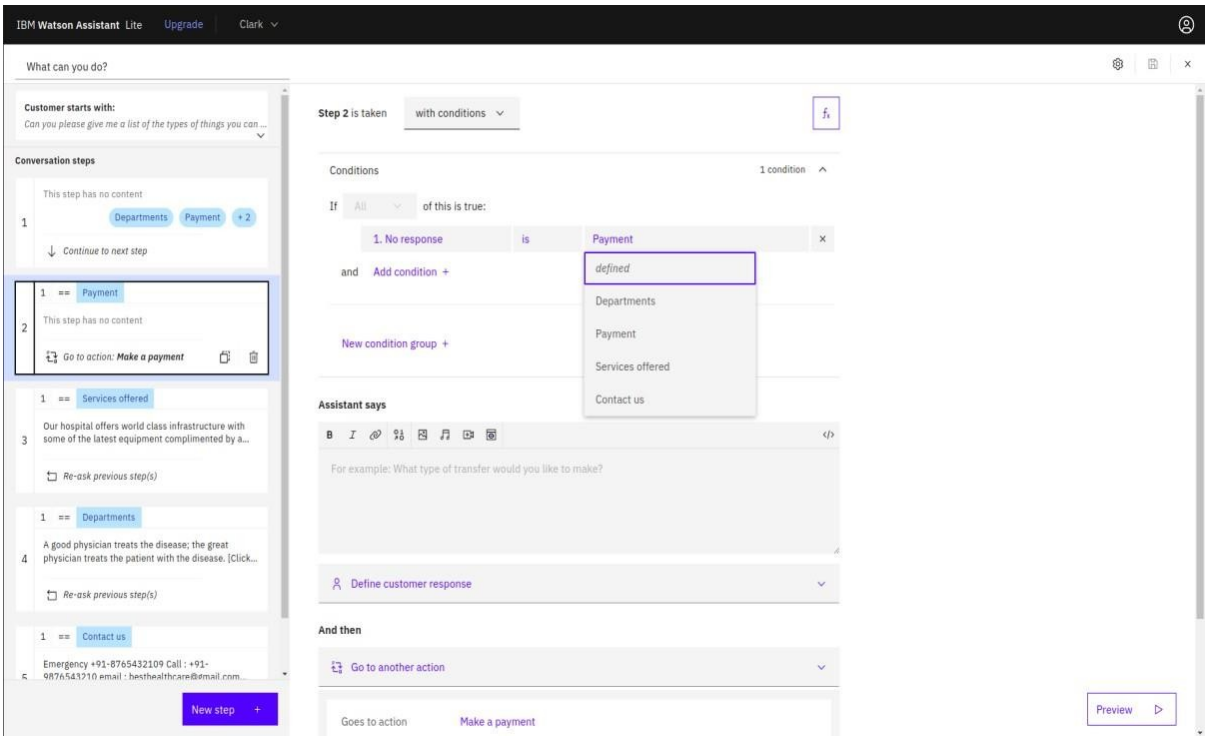
Conditionsinpayment

- UPI
- Accounttransfer
- Cash

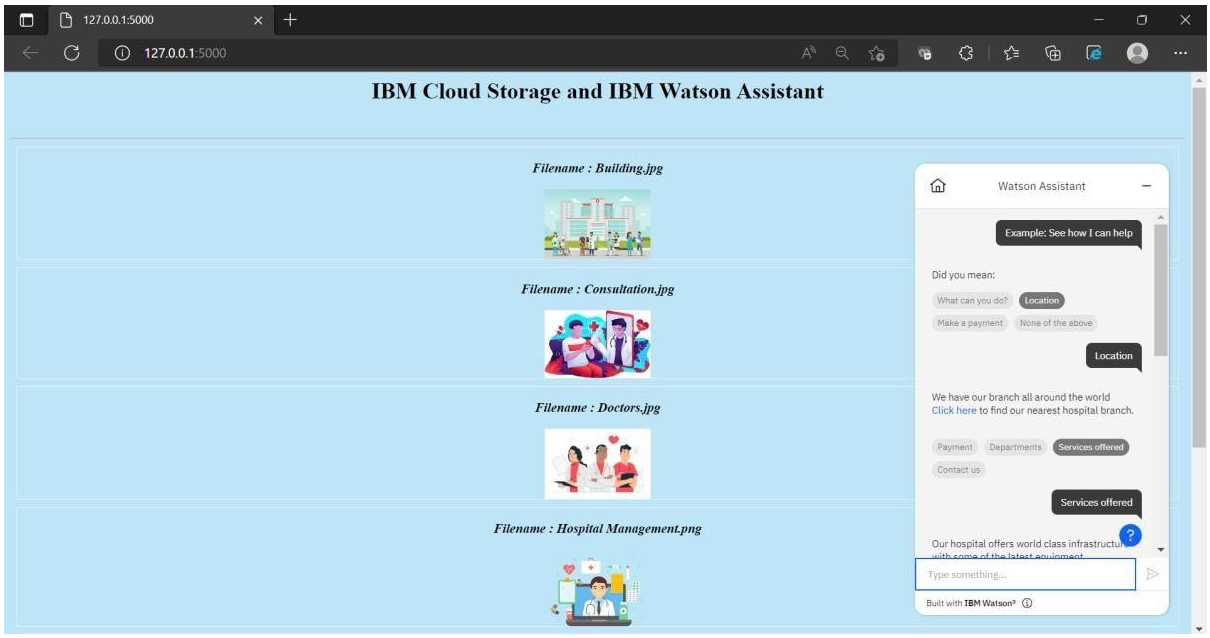


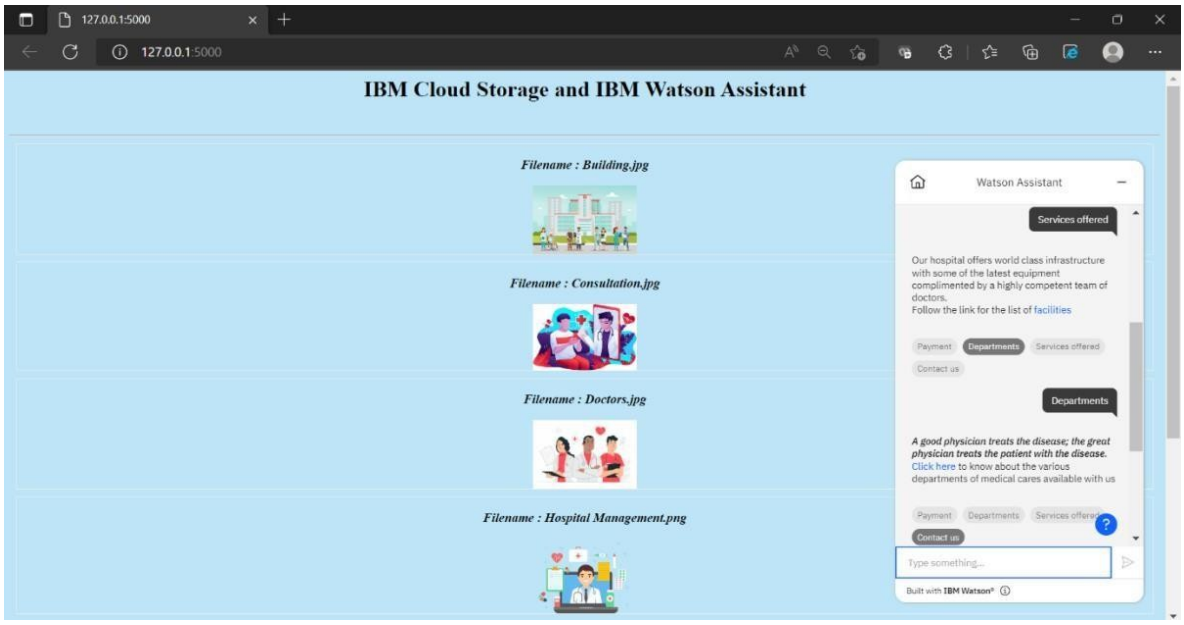
ConditionsinWhat canyoudo

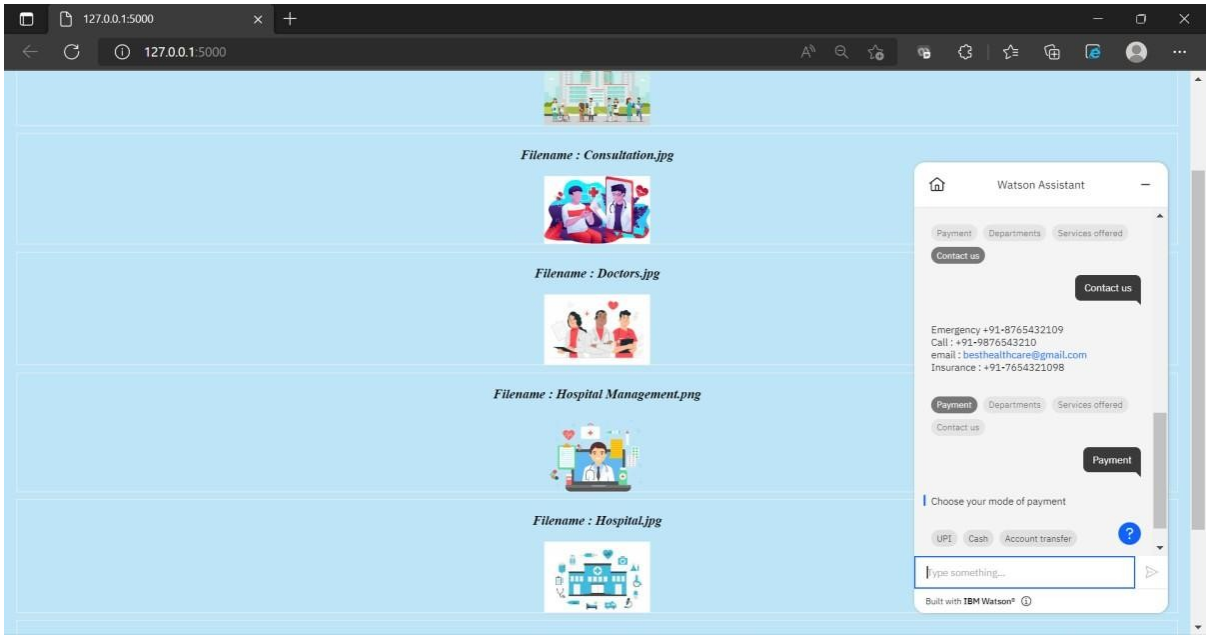
- Departments
- Payment
- Servicesoffered
- Contact us

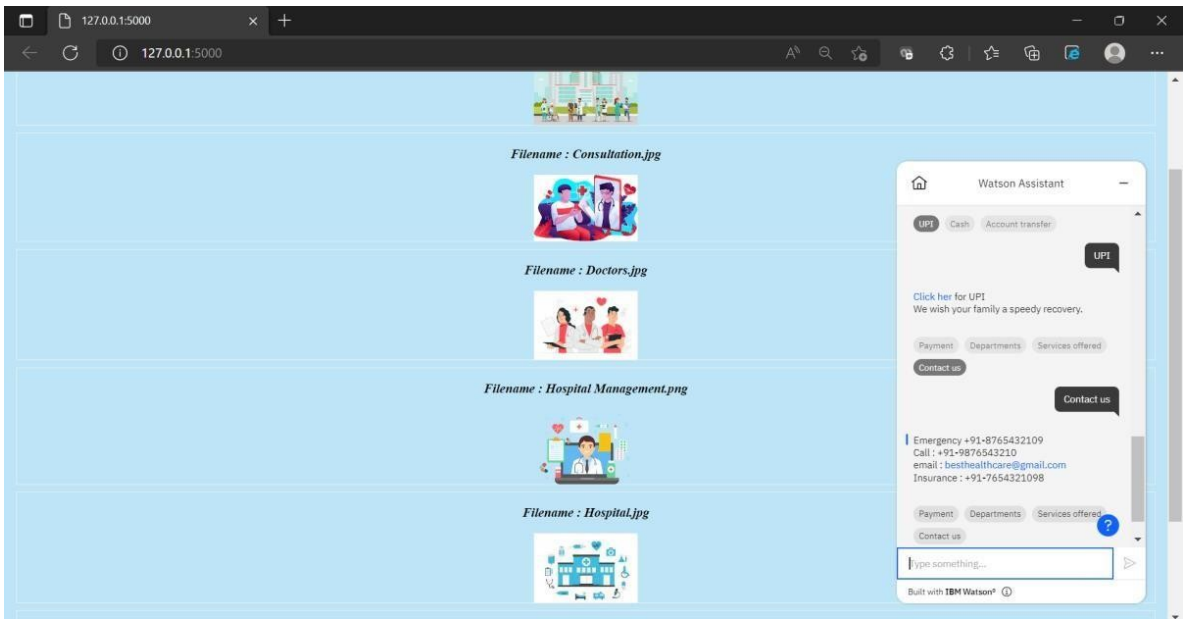


Output:


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
Type something...
Built with IBM Watson®


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®