

Assignment-3

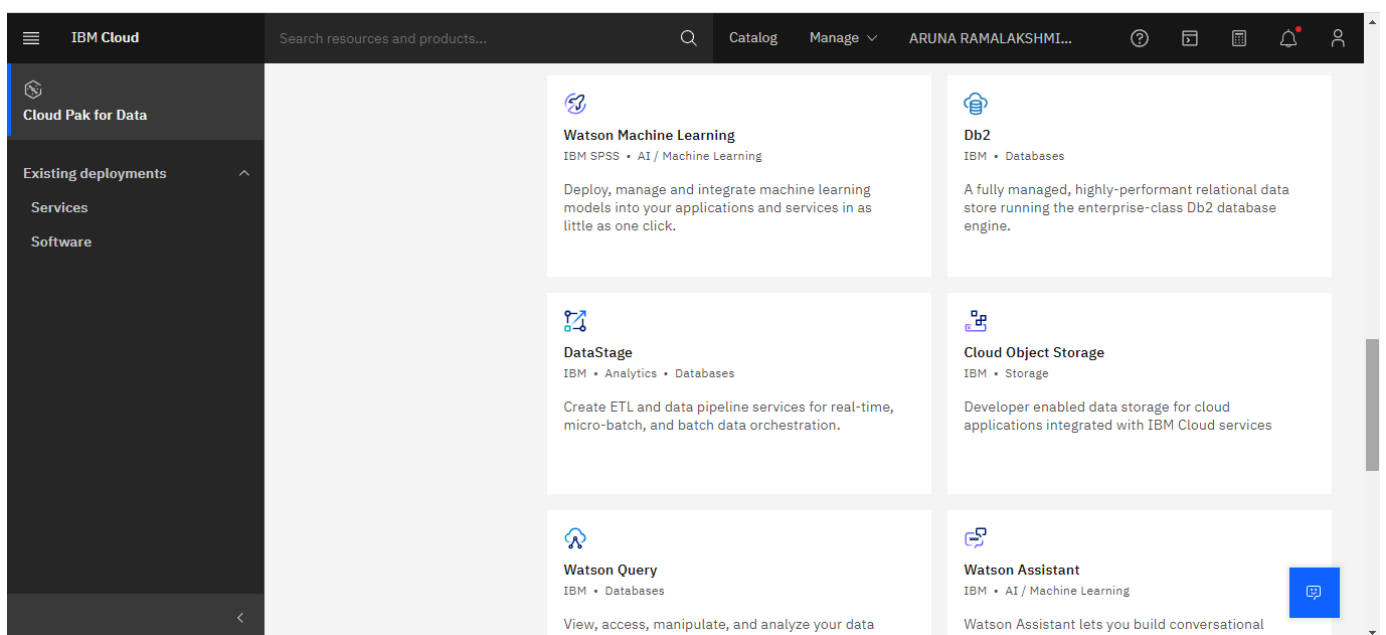
Name	Aruna Ramalakshmi P
Batch	B1-1M3E

1. Create a Bucket in IBM object storage.
2. Upload an 5 images to ibm object storage and make it public. write html code to displaying all the 5 images.
3. Upload a css page to the object storage and use the same page in your HTML code.
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.
5. Create Watson assistant service with 10 steps and use 3 conditions in it. Load that script in HTML page.

STEPS TO BE FOLLOWED

1. CREATE A BUCKET AND UPLOAD IMAGES

- a) Select create resource button
- b) Open *Object Storage* from the catalogue



- c) Choose *IBM Cloud* as infrastructure, select the free plan, give a name and select create
- d) Go to active resource list and select the storage created

e) Select create bucket

The screenshot shows the IBM Cloud console interface. On the left, a sidebar menu lists various services, with 'Buckets' highlighted under 'Cloud Object Storage'. The main content area is titled 'Buckets' and includes a description: 'Buckets serve as containers for objects, and can be individually configured in terms of their location, resiliency, billing rates, security, and object lifecycle rules.' Below this, there is a search bar, a 'Create bucket' button, and a table with columns: Name, Public access, Location, Storage class, and Created. A large blue button with a plus icon is also visible. At the bottom, a URL bar shows a long, complex path to the 'manage' panel.

f) Select customize your bucket, give a unique name for the bucket across all available buckets around the globe

- ☐ Resiliency – Regional
- ☐ Storage class – Smart Tier

The screenshot displays the 'Custom bucket' configuration page in the IBM Cloud console. It features several input fields and selection options. The 'Unique bucket name' field contains 'arunaramalakshmi'. Under the 'Resiliency' section, 'Regional' is selected with a radio button, while 'Cross Region' and 'Single Site' are unselected. The 'Location' dropdown is set to 'jp-tok'. The 'Storage class' dropdown is set to 'Smart Tier', which is marked as 'New!'. A 'Standard' storage class option is also visible. The page includes links for 'View naming rules', 'View options', and 'View pricing'. A blue button with a plus icon is located at the bottom right.

IBM Cloud

Search resources and products...

Storage / Cloud Object Storage-jv /

arunaramalakshmi

Transfers

Objects Configuration Permissions

If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads [Learn more](#)

Prefix filter

Object name Archived Size Last modified

Objects

Drag and drop files (objects) to upload. An object is your data in fixed form.

Drag and drop files (objects) here or click to upload

Upload

A bucket created successfully! The bucket arunaramalakshmi has been created and is now available to add

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

IBM Cloud

Search resources and products...

Catalog Manage ARUNA RAMALAKSHMI...

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.

Search

Create bucket +

Name	Public access	Location	Storage class	Created
ima1	No	jp-tok	Smart Tier	2022-11-18 10:41 AM
ima2	No	jp-tok	Smart Tier	2022-11-18 10:43 AM
ima3	No	jp-tok	Smart Tier	2022-11-18 11:00 AM
ima4	No	jp-tok	Smart Tier	2022-11-18 11:01 AM
ima5	No	jp-tok	Smart Tier	2022-11-18 11:21 AM

IBM Cloud

Cloud Object Storage

Storage instances

Cloud Object Storage-jv

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Search resources and products...

CatalogManageARUNA RAMALAKSHMI...

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.

Search

Create bucket +

Name	Public access ⓘ	Location ⓘ	Storage class	Created	
ima1	Yes	jp-tok	Smart Tier	2022-11-18 10:41 AM	:
ima2	Yes	jp-tok	Smart Tier	2022-11-18 10:43 AM	:
ima3	Yes	jp-tok	Smart Tier	2022-11-18 11:00 AM	:
ima4	No	jp-tok	Smart Tier	2022-11-18 11:01 AM	:
ima5	No	jp-tok	Smart Tier	2022-11-18 11:21 AM	:

IBM Cloud

Cloud Object Storage

Storage instances

Cloud Object Storage-jv

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Search resources and products...

CatalogManageARUNA RAMALAKSHMI...

object lifecycle rules.

Search

Create bucket +

Name	Public access ⓘ	Location ⓘ	Storage class	Created	
ima1	Yes	jp-tok	Smart Tier	2022-11-18 10:41 AM	:
ima2	Yes	jp-tok	Smart Tier	2022-11-18 10:43 AM	:
ima3	Yes	jp-tok	Smart Tier	2022-11-18 11:00 AM	:
ima4	No	jp-tok	Smart Tier	2022-11-18 11:01 AM	:
ima5	No	jp-tok	Smart Tier	2022-11-18	:

Configuration

Access Policies

Access with Data ...

IAM Panel

Delete bucket

IBM Cloud

Search resources and products...

Cloud Object Storage

Storage instances

Cloud Object Storage-jv

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Public access

Warning: Granting Public access to this bucket will allow anyone to access the bucket. To revoke public access, remove the "Public access" policy from this bucket within

Learn more

Enable public access

Granting public access will allow anyone to access this bucket and read all the objects in it. Are you sure you want to enable this functionality?

Cancel

Enable

Create access policy

Context-based restrictions

Firewall (legacy)

IBM Cloud

Search resources and products...

Cloud Object Storage

Storage instances

Cloud Object Storage-jv

Buckets

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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.

Public URL

Reference URL

https://ima1.s3.jp-tok.cloud-object-storage.appdomain.cloud

Create bucket

Name	Public	Storage Class	Tier	Created
ima1				2022-11-18 10:41 AM
ima2	Yes	jp-tok	Smart Tier	2022-11-18 10:43 AM
ima3	Yes	jp-tok	Smart Tier	2022-11-18 11:00 AM
ima4	Yes	jp-tok	Smart Tier	2022-11-18 11:01 AM
ima5	Yes	jp-tok	Smart Tier	2022-11-18 11:21 AM

IBM Cloud

Search resources and products...

Cloud Object Storage

Storage instances

Cloud Object Storage-jv

Buckets

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Endpoints

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Service credentials

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Plan

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.

Public URL

Reference URL

https://ima1.s3.jp-tok.cloud-object-storage.appdomain.cloud

Create bucket

Name	Public	Storage Class	Tier	Created
ima1				2022-11-18 10:41 AM
ima2	Yes	jp-tok	Smart Tier	2022-11-18 10:43 AM
ima3	Yes	jp-tok	Smart Tier	2022-11-18 11:00 AM
ima4	Yes	jp-tok	Smart Tier	2022-11-18 11:01 AM
ima5	Yes	jp-tok	Smart Tier	2022-11-18 11:21 AM

ass3 - Notepad

File Edit Format View Help

```

<br>

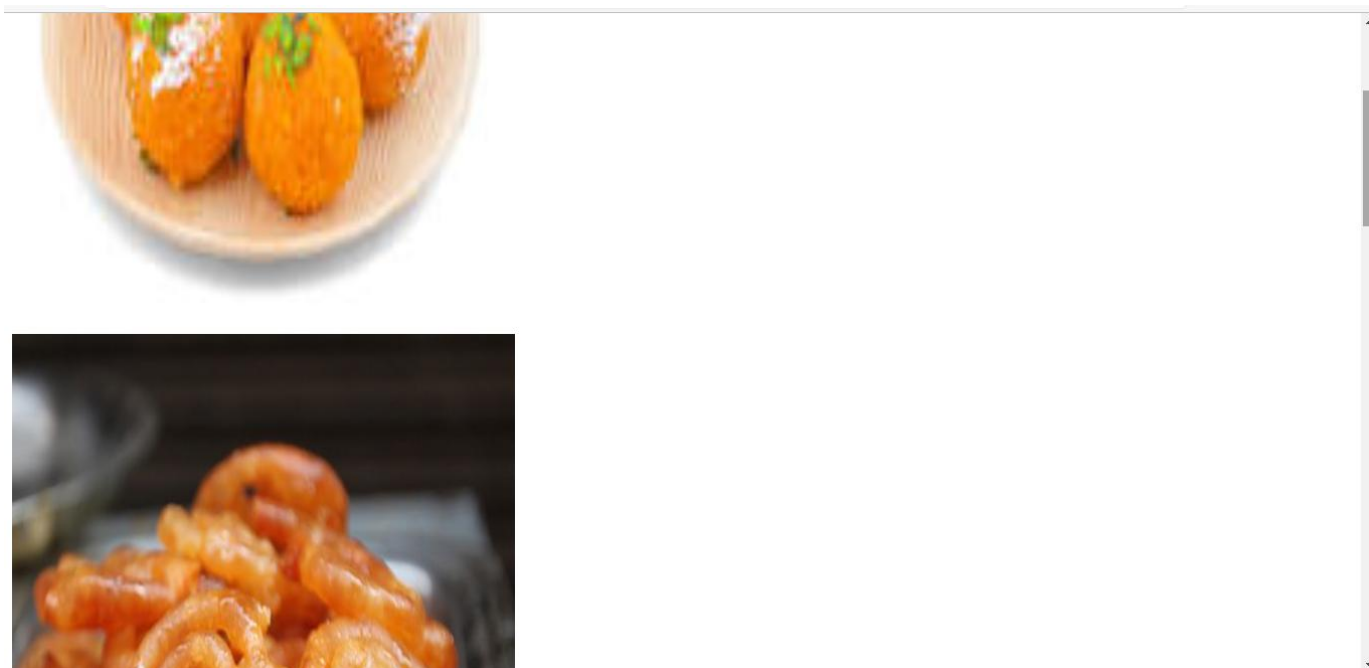

<br>


<br>


<br>


<br>
</body>
</html>
```

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3. Upload a css page to the object storage and use the same page in your HTML code.

IBM Cloud

Search resources and products...

Catalog Manage ARUNA RAMALAKSHMI...

Buckets

ass3 - Notepad

```
File Edit Format View Help
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="/static/index.css" />
</head>
<body>

<br>

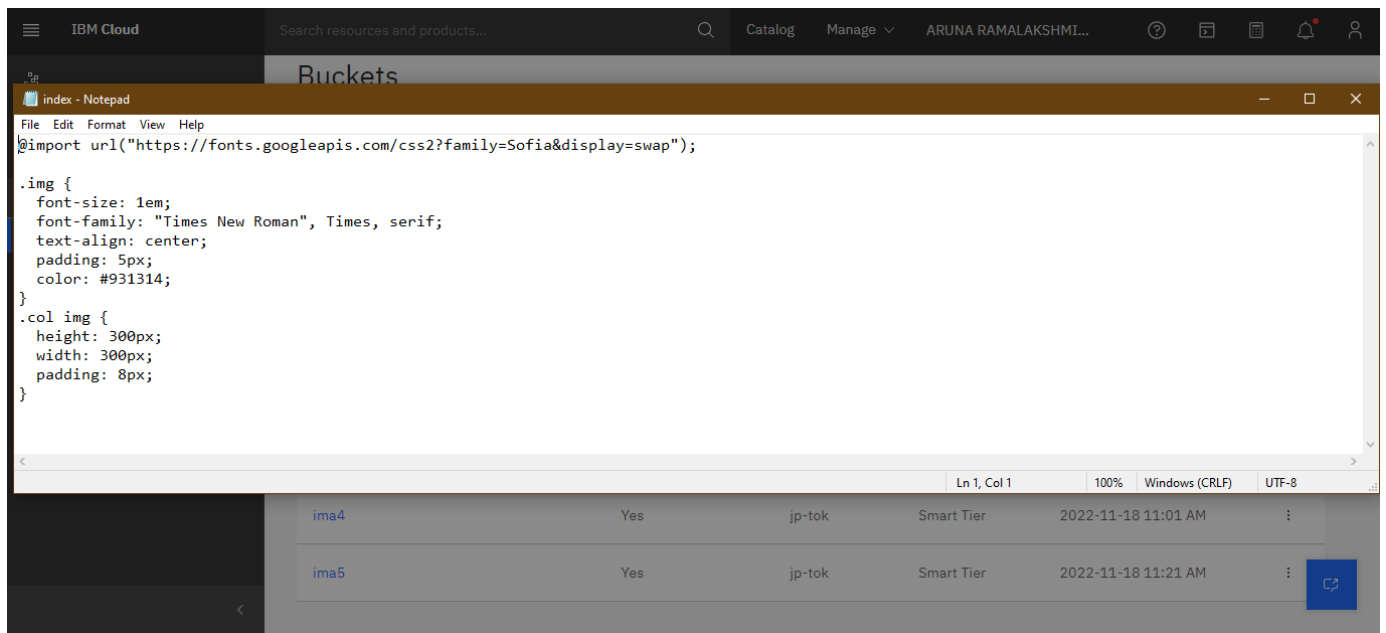
<br>

<br>

<br>
</body>
</html>
```

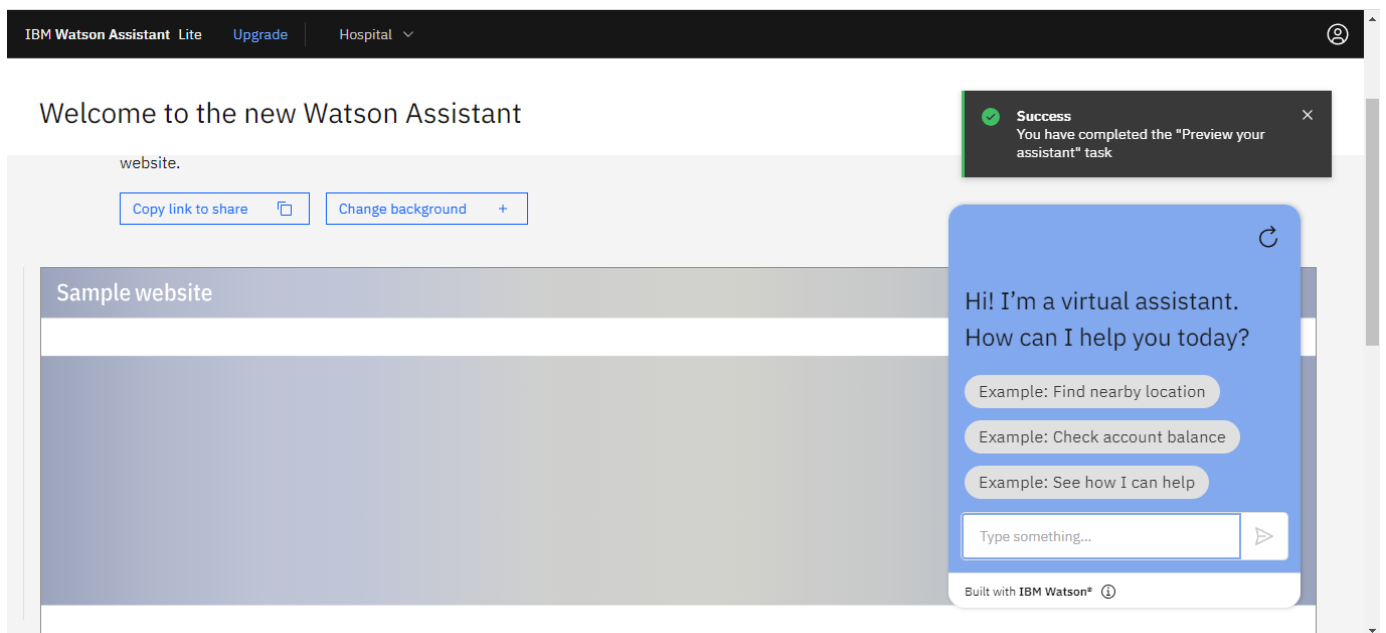
Ln 19, Col 70 100% Windows (CRLF) UTF-8

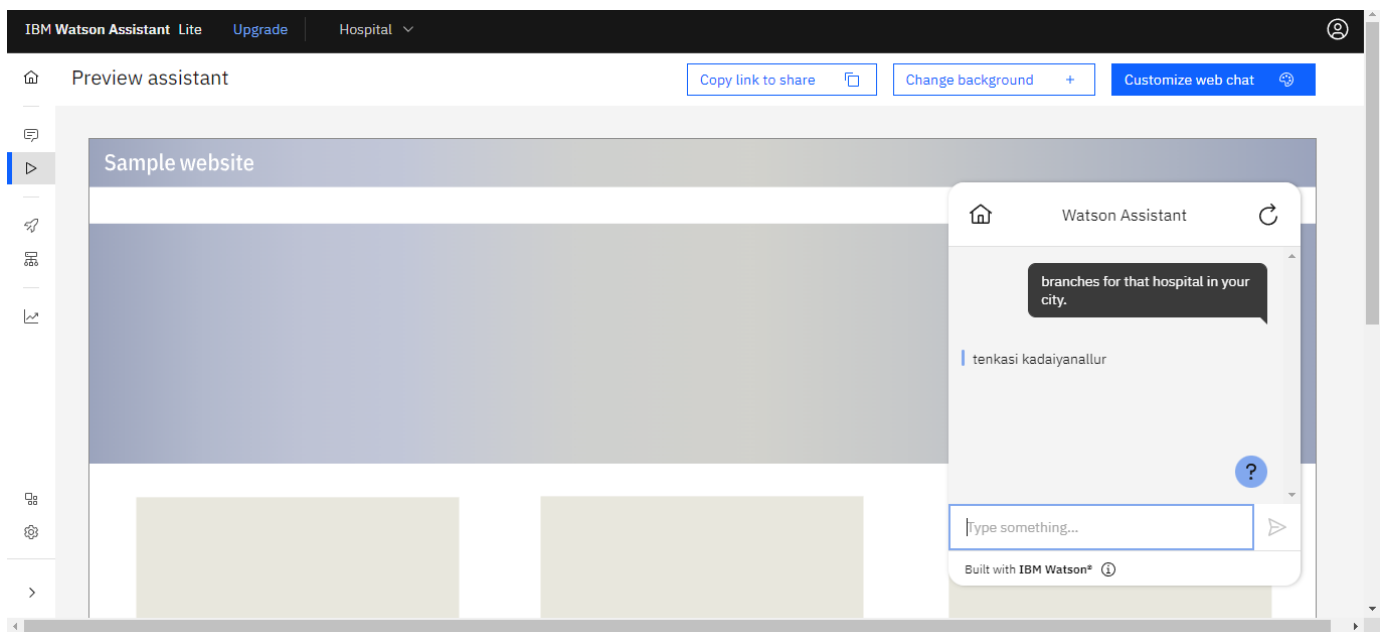
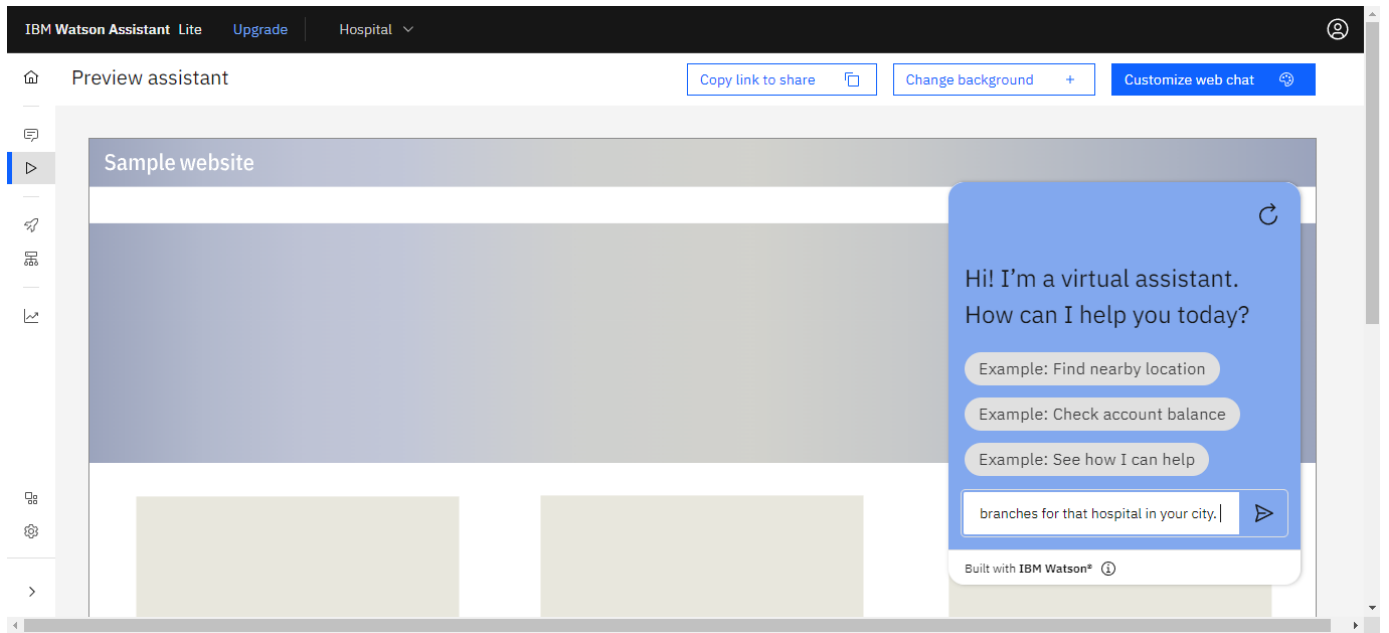
ima4	Yes	jp-tok	Smart Tier	2022-11-18 11:01 AM	
ima5	Yes	jp-tok	Smart Tier	2022-11-18 11:21 AM	



4. Design a chatbot using IBM Watson assistant for hospital

- Select create resource button
- Open *Watson Assistant* from the catalogue
- Choose the lite plan and create the bot
- Launch the assistant and select the actions tab to add new actions to the bot





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

IBM Watson Assistant Lite Upgrade hospital Learning center

hi

Re-ask previous step(s)

6 is Bed availability

Total 50 beds are available today Thank you

8

Re-ask previous step(s)

6 is Parking facility

9 Yes, The hospital has good parking facility.

Continue to next step

10 Do you want additional details about the hospital?

Confirmation

Action complete

New step +

Step 10 is taken without conditions

Assistant says

Do you want additional details about the hospital?

Yes No

View response Edit validation

And then

End the action

Preview

Thank you

What details do you want here?

Appointment details Bed availability

Parking facility

Yes, The hospital has good parking facility.

There are no additional steps for this action. Add a new step or end the action.

Use the up arrow for prior messages

Included 3 conditions in steps:

IBM Watson Assistant Lite Upgrade hospital Learning center

hi

Customer starts with: hello

Conversation steps

1 What details would you like to know about?

service branch +3

Continue to next step

1 is hospitalname

Dharan hospital

2

Re-ask previous step(s)

1 is branch

Erode, Chennai, Salem, now Where you are going to prefer?

3

New step +

Step 10 is taken without conditions

Assistant says

Do you want additional details about the hospital?

Yes No

View response Edit validation

And then

End the action

Preview

Thank you

What details do you want here?

Appointment details Bed availability

Parking facility

Yes, The hospital has good parking facility.

There are no additional steps for this action. Add a new step or end the action.

Type something...

IBM Watson Assistant Lite Upgrade hospital Learning center

hi

1 Continue to next step

1 is hospitalname
Dharan hospital

2 Tr Free text
Re-ask previous step(s)

1 is branch
Erode, Chennai, Salem, now Where you are going to prefer?

3 salem chennai +1
Continue to next step

3 is salem
How you know about the dharan hospital?

4 Social media Doctor +1
Continue to next step

Step 4 is taken with conditions

Conditions

If All of this is true:

3. Erode, Che... is salem

and Add condition +

New condition group +

Assistant says

How you know about the dharan hospital?

Preview

Thank you

What details do you want here?

Appointment details Bed availability

Parking facility

Parking facility

Yes, The hospital has good parking facility.

There are no additional steps for this action. Add a new step or end the action.

Use the up arrow for prior messages

IBM Watson Assistant Lite Upgrade hospital Learning center

hi

3 is salem
How you know about the dharan hospital?

4 Social media Doctor +1
Continue to next step

4 is Relatives
Is your relatives had a treatment here?

5 Confirmation
Continue to next step

What details do you want here?

6 Appointment... Bed availabi... +1
Continue to next step

6 is Appointment details

Step 5 is taken with conditions

Conditions

If All of this is true:

4. How you k... is Relatives

and Add condition +

New condition group +

Assistant says

Is your relatives had a treatment here?

Preview

Thank you

What details do you want here?

Appointment details Bed availability

Parking facility

Parking facility

Yes, The hospital has good parking facility.

There are no additional steps for this action. Add a new step or end the action.

Type something...

IBM Watson Assistant Lite Upgrade hospital Learning center

hi

Re-ask previous step(s)

6 is Bed availability
Total 50 beds are available today Thank you

8 Tr Free text
Re-ask previous step(s)

6 is Parking facility
Yes, The hospital has good parking facility.

9 Continue to next step

Do you want additional details about the hospital?

10 Confirmation
Action complete

Step 6 is taken with conditions

Conditions

If All of this is true:

6. What detai... is Parking facility

and Add condition +

New condition group +

Assistant says

Yes, The hospital has good parking facility.

Preview

Thank you

What details do you want here?

Appointment details Bed availability

Parking facility

Parking facility

Yes, The hospital has good parking facility.

There are no additional steps for this action. Add a new step or end the action.

Type something...

Index.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta http-equiv="X-UA-Compatible" content="IE=edge" />

  <meta name="viewport" content="width=device-width, initial-scale=1.0" />

  <title>Home</title>

  <link rel="stylesheet" href="{{url_for('redirect_to',link='https://s3.jp-tok.cloud-object -
storage.appdomain.cloud/cloudbucket/assign3.css')}}" type="text/css">


<script>

  window.watsonAssistantChatOptions = {
    integrationID: "8c0d878c-d3b4-4a3e-b63a-01b255dc7d6e", // The ID of this integration.region: "us-
south", // The region your integration is hosted in.
    serviceInstanceID: "398c4efa-af81-42f3-badd-b3b31e98f373",
    // 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>

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> </head>
```

```
<body>
  <form action="/uploader" method="POST" enctype="multipart/form-data">
    <input type="text" placeholder="Enter file name" name="filename" />
    <br />
    <br />
    <input type="file" name="file" />
    <br />
    <br />
    <input type="submit" />
```

```
</form>
  <br/>
  <br/>
  <br/>
  {% for row in files %}
    <div style="border: 1px solid #EFEFEF;margin:10px;">
      <h3>Filename : {{row}} </h3>
      </td>
    </div>
  {% endfor %}
</body>
</html>
```

App.py

```
import io

from flask import Flask, redirect, url_for, render_template, request
import ibm_boto3

from ibm_botocore.client import Config, ClientError

COS_ENDPOINT="https://s3.jp-tok.cloud-object-storage.appdomain.cloud" COS_API_KEY_ID=""
COS_INSTANCE_CRN=""


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
)

app=Flask(__name__)


@app.route('/')
def index():
    try:
        files = cos.Bucket('cloudbucket').objects.all()
        files_names = []
        for file in files:
```

```

        files_names.append(file.key)
        print(file)
        print("Item: {0} {1} bytes.".format(file.key, file.size))return
        render_template('index.html',files=files_names)

except ClientError as be:
    print("CLIENT ERROR: {0}\n".format(be))return
    render_template('index.html')
except Exception as e:
    print("Unable to retrieve bucket contents: {0}".format(e))
    return render_template('index.html')

@app.route('/uploader',methods=['POST'])def
upload(): name_file=request.form['filename']
f = request.files['file']try:
    part_size = 1024 * 1024 * 5

    file_threshold = 1024 * 1024 * 15

    transfer_config = ibm_boto3.s3.transfer.TransferConfig(
        multipart_threshold=file_threshold,

        multipart_chunksize=part_size
    )

    content = f.read()

```

```
cos.Object('cloudbucket',
           name_file).upload_fileobj(
           Fileobj=io.BytesIO(content),
           Config=transfer_config
           )
return
redirect(url_for('index'))
except ClientError as be:
    print("CLIENT ERROR:
    {0}\n".format(be))return
    redirect(url_for('index'))

except Exception as e:
    print("Unable to complete multi-part upload:
    {0}".format(e))return redirect(url_for('index'))

if __name__ == '__main__':
    app.run(host='0.0.0.0', port=8080, debug=True)
```