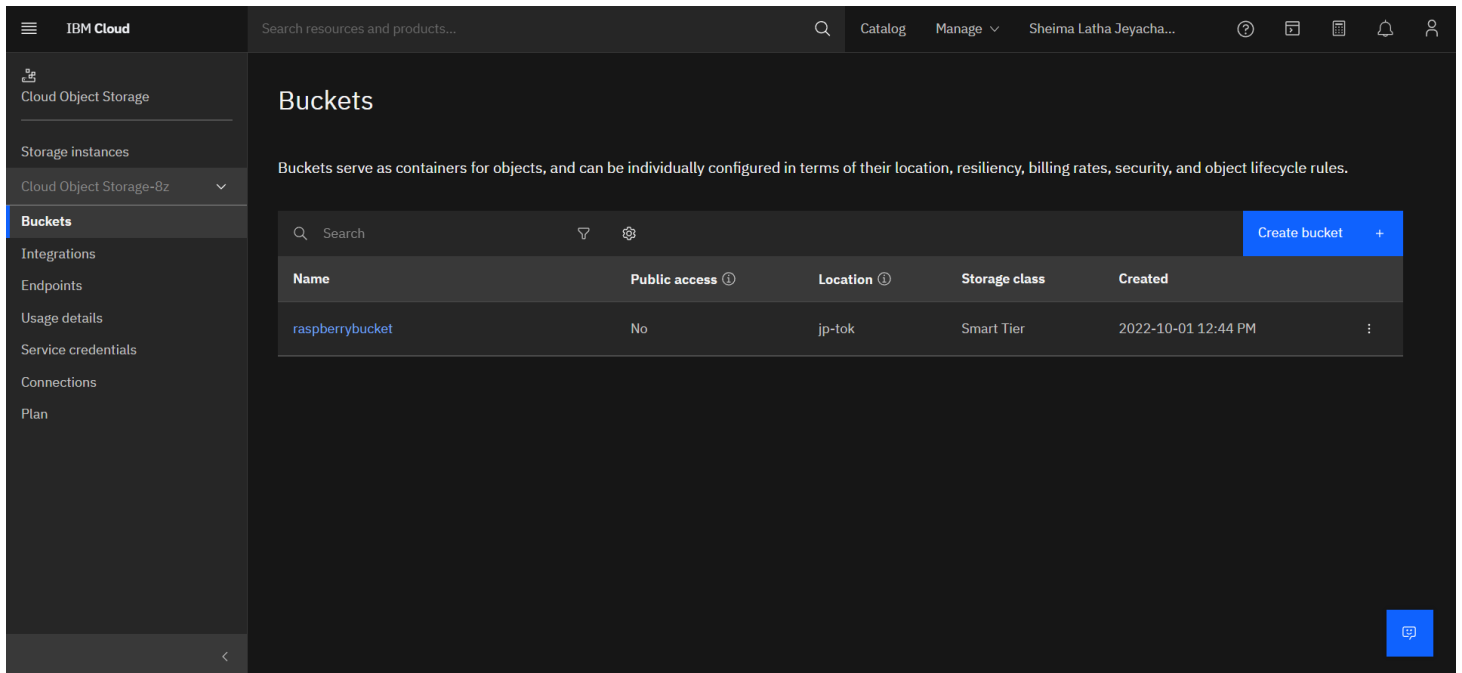


ASSIGNMENT – 3

CLOUD APPLICATION DEVELOPMENT

Date	26 September 2022
Student Name	Sheima Latha. J
Student Roll Number	813819104090
Maximum Marks	2 Marks

1. Create a bucket in IBM object storage.

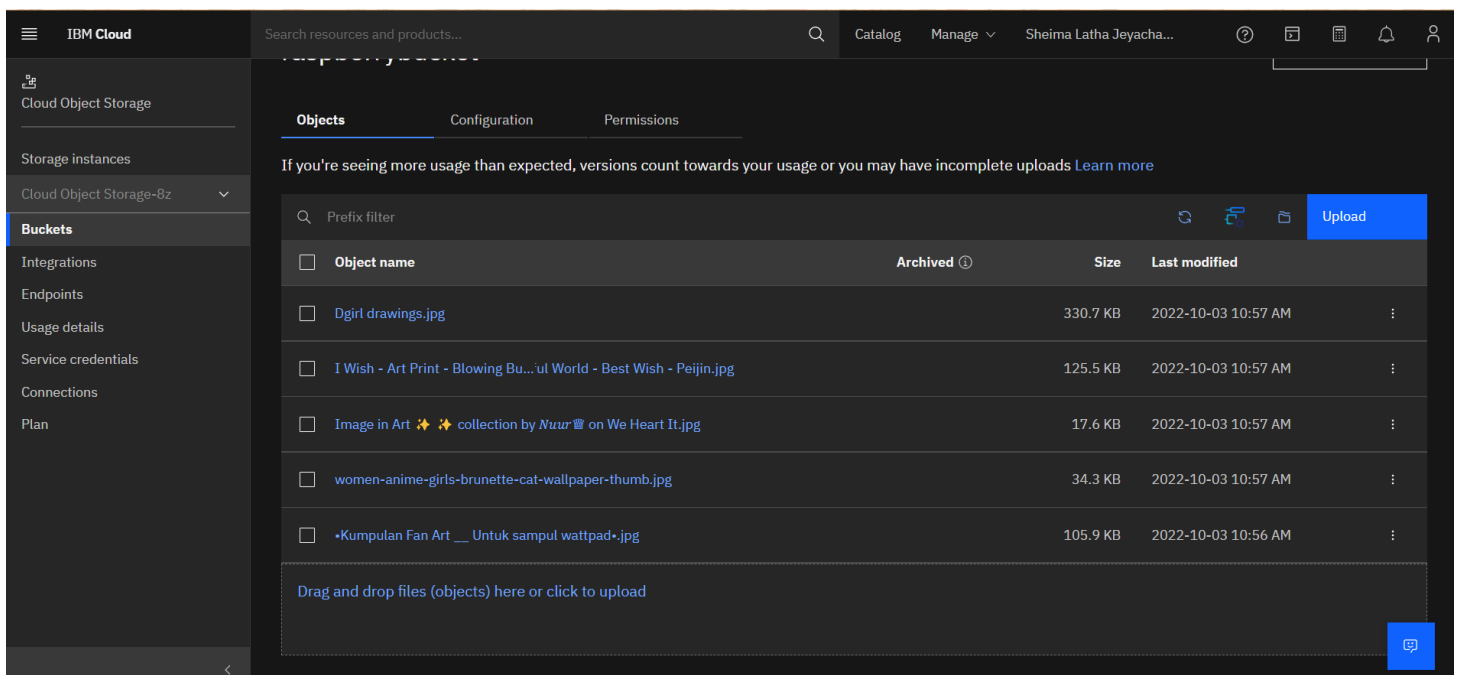


The screenshot shows the IBM Cloud Object Storage interface. On the left, a sidebar lists navigation options: Cloud Object Storage, Storage instances, Cloud Object Storage-8z, Buckets (selected), Integrations, Endpoints, Usage details, Service credentials, Connections, and Plan. The main area is titled 'Buckets' and includes a search bar, a 'Create bucket' button, and a table of existing buckets.

Name	Public access	Location	Storage class	Created
raspberrylbucket	No	jp-tok	Smart Tier	2022-10-01 12:44 PM

Thus, a bucket named “raspberrylbucket” has been created.

2. Upload 5 images to IBM Object Storage and make it public. Write an HTML code to display all the 5 images.



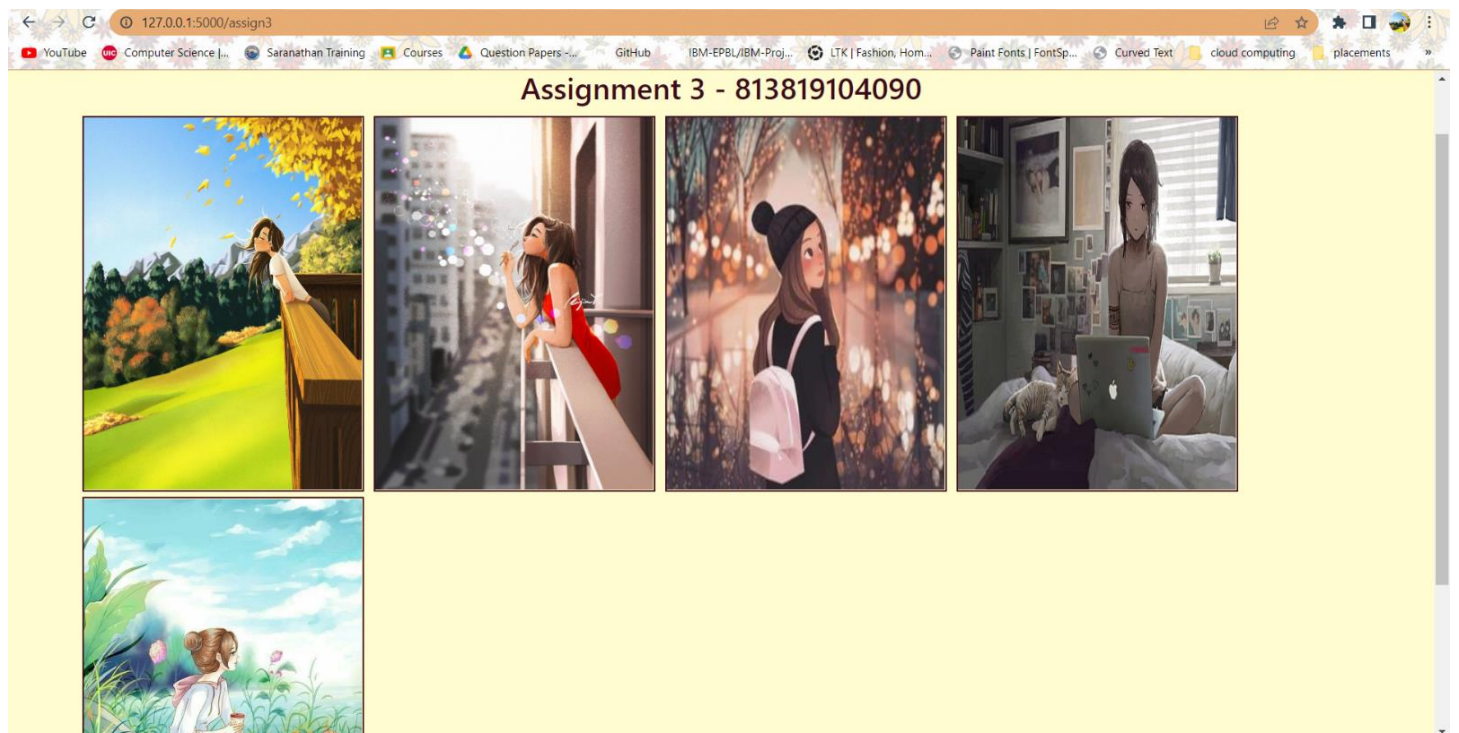
The screenshot shows the IBM Cloud Object Storage interface for the 'Objects' tab. It includes a search bar, an 'Upload' button, and a table of uploaded objects. Below the table is a message about usage and a prompt to drag and drop files.

Object name	Archived	Size	Last modified
Dgirl drawings.jpg		330.7 KB	2022-10-03 10:57 AM
I Wish - Art Print - Blowing Bu...ul World - Best Wish - Peijin.jpg		125.5 KB	2022-10-03 10:57 AM
Image in Art 🌟 collection by Nuur on We Heart It.jpg		17.6 KB	2022-10-03 10:57 AM
women-anime-girls-brunette-cat-wallpaper-thumb.jpg		34.3 KB	2022-10-03 10:57 AM
•Kumpulan Fan Art __ Untuk sampul wattpad-.jpg		105.9 KB	2022-10-03 10:56 AM

HTML Code:

```
main.py x assign3img.html x connect.py x objstorage.py x assign3imgcss.html x assistant.html x
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6   <title>Assignment 3</title>
7   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css" integrity="sha384-9aIt2nRpC12Uk9gS9baDl4
8   <link rel="stylesheet" type="text/css" href="{url_for('static',filename='assign3styles.css')}" />
9 </head>
10 <body>
11   <h2>Assignment 3 - 813819104090</h2>
12   
13   
14   
15   
16   
17 </body>
18 </html>
```

Output:



File name: assign3img.html, main.py, objstorage.py

The above mentioned files have been uploaded in GitHub.

IBM Cloud

Cloud Object Storage

Storage instances

Cloud Object Storage-8z

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Search resources and products...

ObjectsConfigurationPermissions

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](#)

Prefix filter

Upload

<input type="checkbox"/>	Object name	Archived ⓘ	Size	Last modified	
<input type="checkbox"/>	Dgirl drawings.jpg		330.7 KB	2022-10-03 11:01 AM	⋮
<input type="checkbox"/>	I Wish - Art Print - Blowing Bu...ul World - Best Wish - Peijin.jpg		125.5 KB	2022-10-03 11:01 AM	⋮
<input type="checkbox"/>	Image in Art 🎨🎨 collection by Nuur👤 on We Heart It.jpg		17.6 KB	2022-10-03 11:01 AM	⋮
<input type="checkbox"/>	assign3styles.css		189 bytes	2022-10-03 1:08 PM	⋮
<input type="checkbox"/>	women-anime-girls-brunette-cat-wallpaper-thumb.jpg		34.3 KB	2022-10-03 11:02 AM	⋮
<input type="checkbox"/>	•Kumpulan Fan Art __ Untuk sampel wattpad•.jpg		105.9 KB	2022-10-03 11:00 AM	⋮

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

The screenshot shows a VS Code editor with the following tabs: main.py, connect.py, objstorage.py, assign3imgcss.html (active), and assistant.html. The active file, assign3imgcss.html, contains the following HTML code:

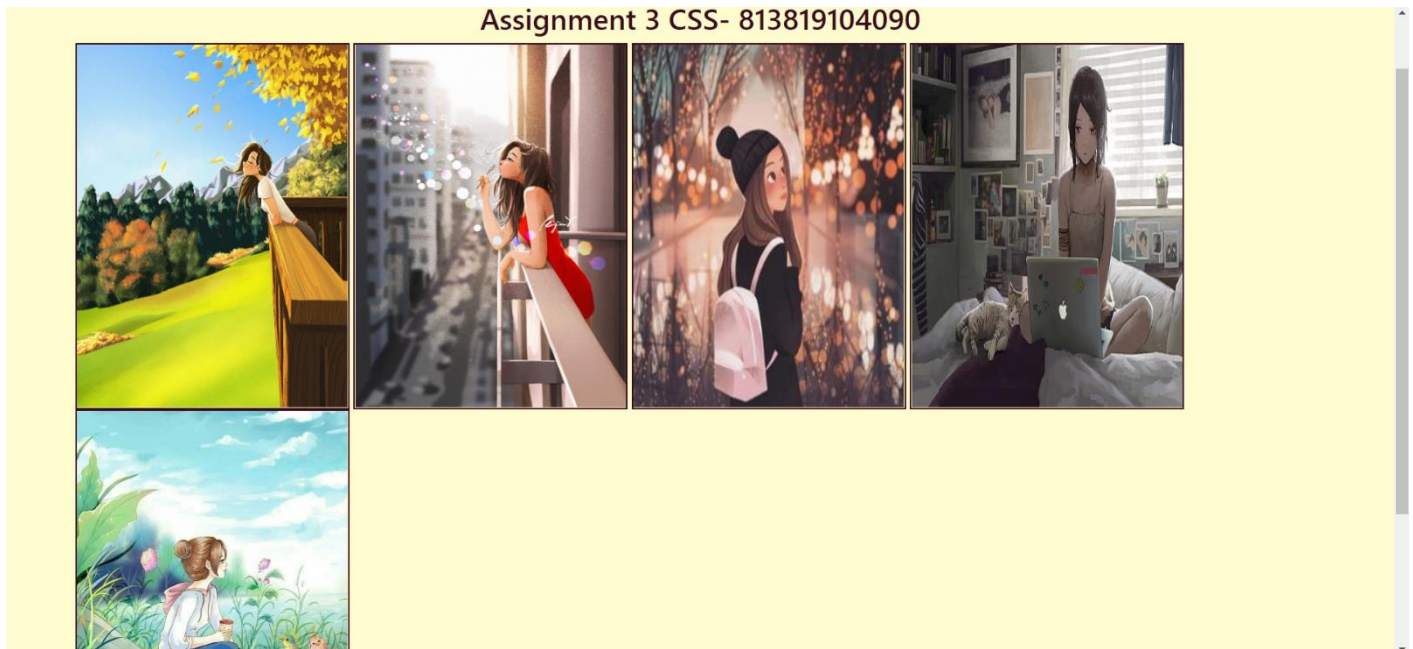
```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6   <title>Assignment 3 CSS</title>
7   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css" integrity="sha384-9aIt2nRpC12Uv9gSSh9dL141nMQApE=026FwA0HRwG215MYYVfF"
8   <link rel="stylesheet" type="text/css" href="{url_for('redirect_to', link='https://s3.jp-tok.cloud-object-storage.appdomain.cloud/raspberrypi/assign3styles.css')}">
9 </head>
10 <body>
11   <h2>Assignment 3 CSS- 813819104090</h2>
12   
13   
18 </html>

```

A red box highlights the line: `<link rel="stylesheet" type="text/css" href="{url_for('redirect_to', link='https://s3.jp-tok.cloud-object-storage.appdomain.cloud/raspberrypi/assign3styles.css')}">`

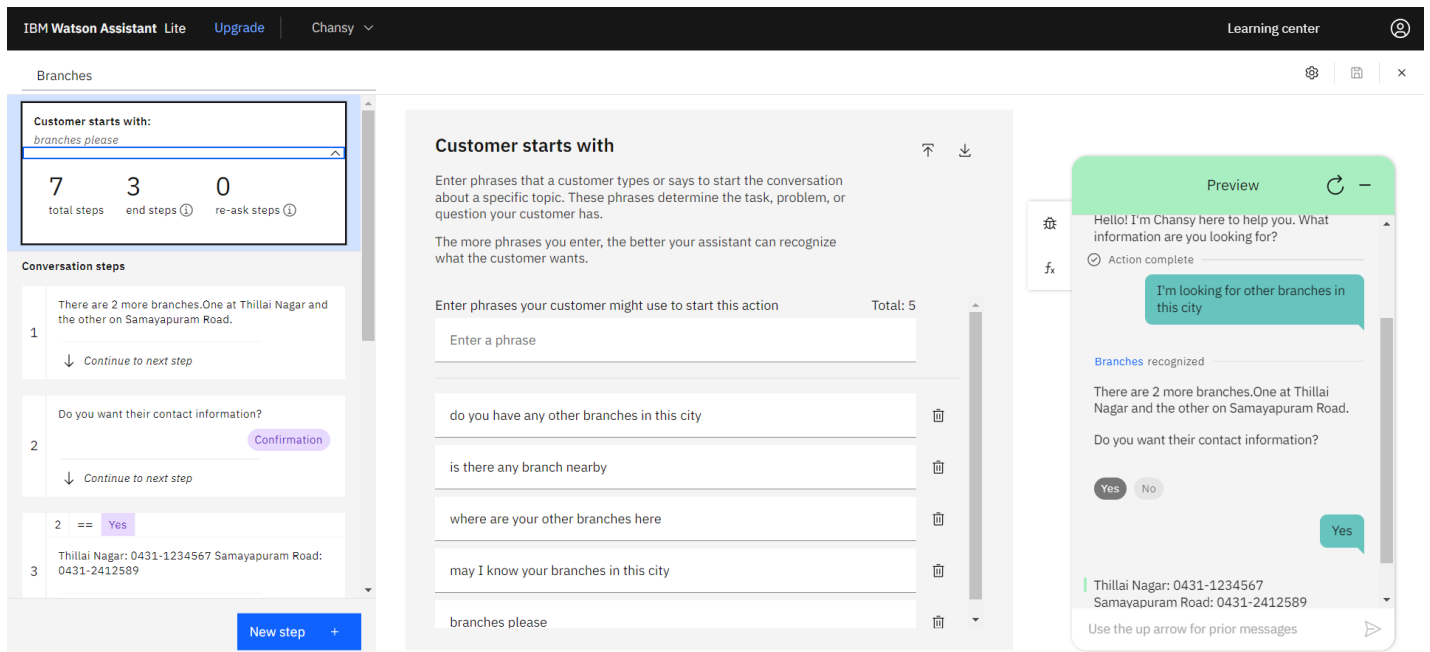
Output:



File name: assign3imgcss.html , assign3styles.css, main.py, objstorage.py

The files have been uploaded in GitHub.

4. Design a chatbot using IBM Watson assistant for hospital. For e.g., user comes with query to know the branches for that hospital in your city. Submit the web URL of that chatbot as an assignment.

The image shows the IBM Watson Assistant interface. On the left, the 'Branches' workspace is visible, showing a conversation flow with steps 1, 2, and 3. Step 1 provides branch information, step 2 asks for contact information, and step 3 provides the contact details. The main area shows the 'Customer starts with' section, where phrases for starting the conversation are listed. On the right, a 'Preview' window shows a simulated chat interaction where the user asks for branches, and the assistant provides the information and contact details.

IBM Watson Assistant
Lite
Upgrade
Chansy

Branches

Customer starts with:
branches please

Conversation steps

1

There are 2 more branches. One at Thillai Nagar and the other on Samayapuram Road.

Continue to next step

2

Do you want their contact information?

Confirmation

Continue to next step

2 == Yes

3

Thillai Nagar: 0431-1234567 Samayapuram Road: 0431-2412589

Action complete

2 == No

New step +

IBM Watson Assistant
Lite
Upgrade
Chansy

Branches

2 == No

4

Okay. FYI, this is Karur Bypass Road branch. Contact: 0431-2356894.

Continue to next step

5

Do you have any other queries?

Confirmation

Continue to next step

5 == Yes

6

Yes, tell me.

Action complete

5 == No

7

I'm happy to help you.

Action complete

New step +

Assignment 3 Chatbot

127.0.0.1:5000/myassistant

YouTube
Computer Science [...]
Saranathan Training
Courses
Question Papers [...]
GitHub
IBM-EPBL/IBM-Proj...
LTK | Fashion, Hom...
Paint Fonts | FontSp...
Curved Text
cloud computing
placements

Chatbot for Hospital

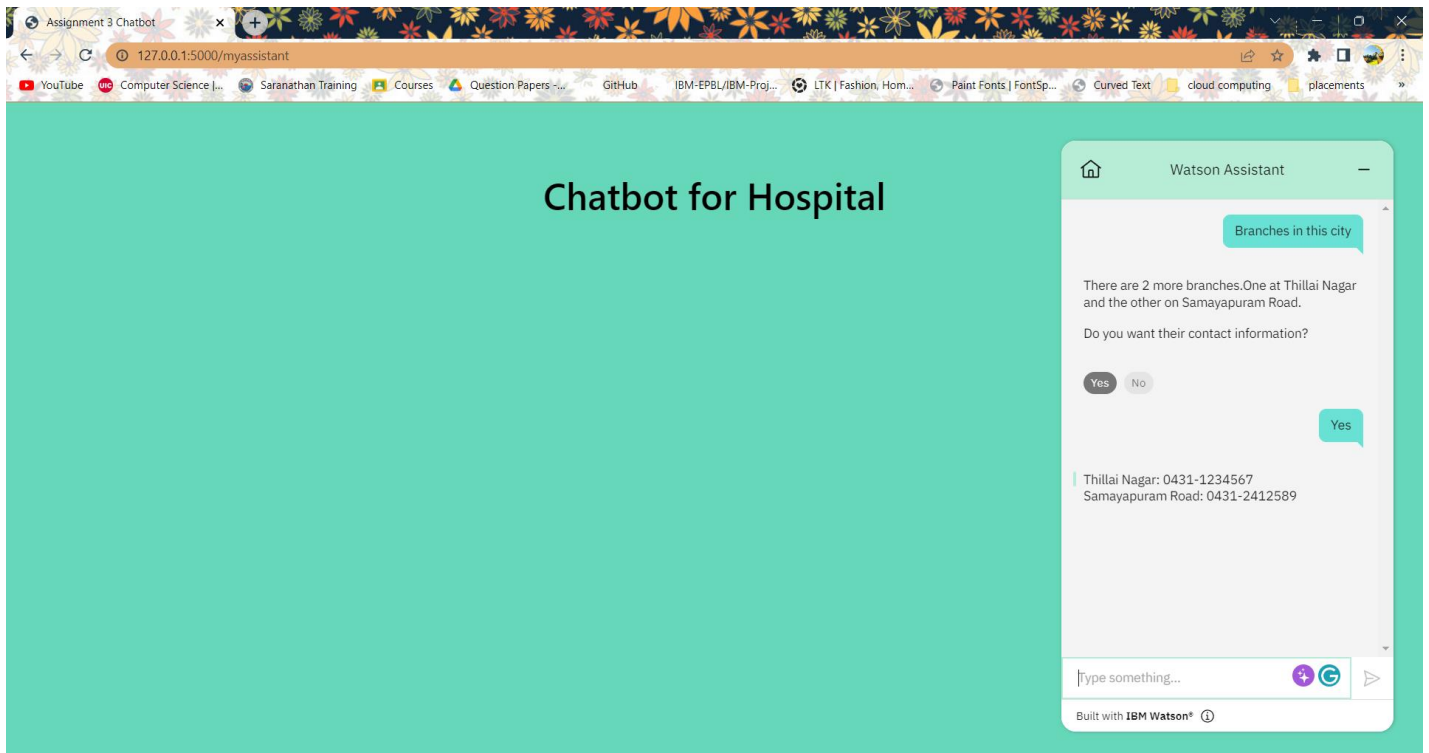
Hi! I'm Chansy. How can I help you today?

Example: Other branches in the city

Example: Details about vaccines

Type something...

Built with IBM Watson®



File name: assistant.html, main.py

The files have been uploaded in GitHub.

Web URL:

```
<script>
  window.watsonAssistantChatOptions = {
    integrationID: "148c8b05-d7de-489c-a970-517c3676838f", // The ID of this
integration.
    region: "au-syd", // The region your integration is hosted in.
    serviceInstanceID: "efccfecfcd-0afd-4fd7-8f9e-8a9e819f7075", // 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>
```

main.py:

```
from flask import Flask, render_template, request, redirect, url_for
from connect import *
from objstorage import *
app = Flask(__name__)
```



```
@app.route('/myassistant')
def assistant_page():
    return render_template('assistant.html')

if(__name__=='__main__'):
    app.run()
```

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

I’m creating a chatbot for hospital.

Actions: Greetings

IBM Watson Assistant Lite Upgrade Chansy

Learning center

Greetings

Customer starts with:
hello

Conversation steps

1

Hello! I'm Chansy here to help you. What information are you looking for?

Action complete

New step +

Customer starts with:

Enter phrases that a customer types or says to start the conversation about a specific topic. These phrases determine the task, problem, or question your customer has.

The more phrases you enter, the better your assistant can recognize what the customer wants.

Enter phrases your customer might use to start this action Total: 4

Enter a phrase

chansy

namaste

hi

hello

Preview >

Actions: Timely Greetings

IBM Watson Assistant Lite Upgrade Chansy

Learning center

Timely Greetings

Customer starts with:
good morning

Conversation steps

1

Current time > 04:00 AM

Current time < 12:00 PM

Good Morning! How can I help you?

Action complete

2

Current time == 12:00 PM

Current time > 12:01 ...

Good Afternoon. How can I help you?

Action complete

3

Current time > 04:00 PM

Current time < 11:59 PM

Good evening! How can I help you?

Action complete

New step +

Customer starts with:

Enter phrases that a customer types or says to start the conversation about a specific topic. These phrases determine the task, problem, or question your customer has.

The more phrases you enter, the better your assistant can recognize what the customer wants.

Enter phrases your customer might use to start this action Total: 3

Enter a phrase

good evening

good afternoon

good morning

Preview >

Actions: Branches

Branches

Customer starts with:
branches please

Conversation steps

1

There are 2 more branches.One at Thillai Nagar and the other on Samayapuram Road.

Continue to next step

2

Do you want their contact information?

Confirmation

Continue to next step

2 == Yes

Thillai Nagar: 0431-1234567 Samayapuram Road: 0431-2412589

Action complete

2 == No

New step +

Customer starts with:

Enter phrases that a customer types or says to start the conversation about a specific topic. These phrases determine the task, problem, or question your customer has.

The more phrases you enter, the better your assistant can recognize what the customer wants.

Enter phrases your customer might use to start this action

Total: 5

Enter a phrase

do you have any other branches in this city

is there any branch nearby

where are your other branches here

may I know your branches in this city

branches please

Preview

Branches

Customer starts with:
branches please

Conversation steps

1

There are 2 more branches.One at Thillai Nagar and the other on Samayapuram Road.

Continue to next step

2

Do you want their contact information?

Confirmation

Continue to next step

2 == Yes

Thillai Nagar: 0431-1234567 Samayapuram Road: 0431-2412589

Action complete

2 == No

New step +

Branches

2 == No

4

Okay. FYI, this is Karur Bypass Road branch. Contact: 0431-2356894.

Continue to next step

5

Do you have any other queries?

Confirmation

Continue to next step

5 == Yes

6

Yes, tell me.

Action complete

5 == No

7

I'm happy to help you.

Action complete

New step +

Action: Vaccination

IBM Watson Assistant Lite Upgrade Chansy Learning center

Vaccination

Customer starts with:
Vaccination

11 total steps 5 end steps 0 re-ask steps

Conversation steps

1 We have vaccines like BCG, Hep B1, Hepatitis A- 1, etc. for children and covid-19 (Covaxine and...
Continue to next step

2 Would you like to register for one?
Confirmation
Continue to next step

2 == Yes
3 Enter your e-mail id.
Regex

New step +

Customer starts with

Enter phrases that a customer types or says to start the conversation about a specific topic. These phrases determine the task, problem, or question your customer has.

The more phrases you enter, the better your assistant can recognize what the customer wants.

Enter phrases your customer might use to start this action Total: 5

Enter a phrase

details about vaccination

vaccination for covid

vaccination for children

vaccination availability

Vaccination

Preview

Greet customer [default]
Hi

Greetings recognized
Hello! I'm Chansy here to help you. What information are you looking for?

Action complete
I would like to know about vaccinations at your hospital.

Vaccination recognized
We have vaccines like BCG, Hep B1, Hepatitis A- 1, etc. for children and covid-19 (Covaxine and Covishield).
Would you like to register for one?

Type something...

IBM Watson Assistant Lite Upgrade Chansy

Vaccination

Customer starts with:
Vaccination

Conversation steps

1 We have vaccines like BCG, Hep B1, Hepatitis A- 1, etc. for children and covid-19 (Covaxine and...
Continue to next step

2 Would you like to register for one?
Confirmation
Continue to next step

2 == Yes
3 Enter your e-mail id.
Regex

New step +

IBM Watson Assistant Lite Upgrade Chansy

Vaccination

2 == Yes 3 == Defined

4 For which vaccine, are you requesting?
Baby vaccines Covid-19 Vac...
Continue to next step

2 == Yes 3 == Defined

4 == Baby vaccines

5 Thank you for registering. You will receive the registration form shortly through e-mail. Fill the...
Action complete

2 == Yes 3 == Defined

4 == Covid-19 Vaccines

6 Covaxin or Covishield?
Covaxin Covishield
Continue to next step

New step +

IBM Watson Assistant Lite
Upgrade
Chansy

Vaccination

2 == Yes
3 == Defined

4 == Covid-19 Vaccines ...

7
Thank you for registering. The appointment details will be sent to the registered email ID.

Action complete

2 == Yes
3 == Defined

4 == Covid-19 Vaccines ...

8
Oops! Covishield is currently unavailable. We'll notify you through the registered email address as...

Action complete

2 == No

9
Okay. Do you have any other query?

Confirmation

Continue to next step

2 == No
9 == Yes

10
Okay. What can I do for you?

Action complete

2 == No
9 == No

11
I'm happy to help you. Have a good day.

Action complete

New step +

IBM Watson Assistant Lite
Upgrade
Chansy

Vaccination

4 == Covid-19 Vaccines ...

8
Oops! Covishield is currently unavailable. We'll notify you through the registered email address as...

Action complete

2 == No

9
Okay. Do you have any other query?

Confirmation

Continue to next step

2 == No
9 == Yes

10
Okay. What can I do for you?

Action complete

2 == No
9 == No

11
I'm happy to help you. Have a good day.

Action complete

New step +

Sample Output:

Scenario: The user wants to know about vaccination hospital details and register for it.

Assignment 3 Chatbot
127.0.0.1:5000/myassistant

YouTube
Computer Science
Saranathan Training
Courses
Question Papers
GitHub
IBM-EPBL/IBM-Proj...
LTK | Fashion, Hom...
Paint Fonts | FontSp...
Curved Text
cloud computing
placements

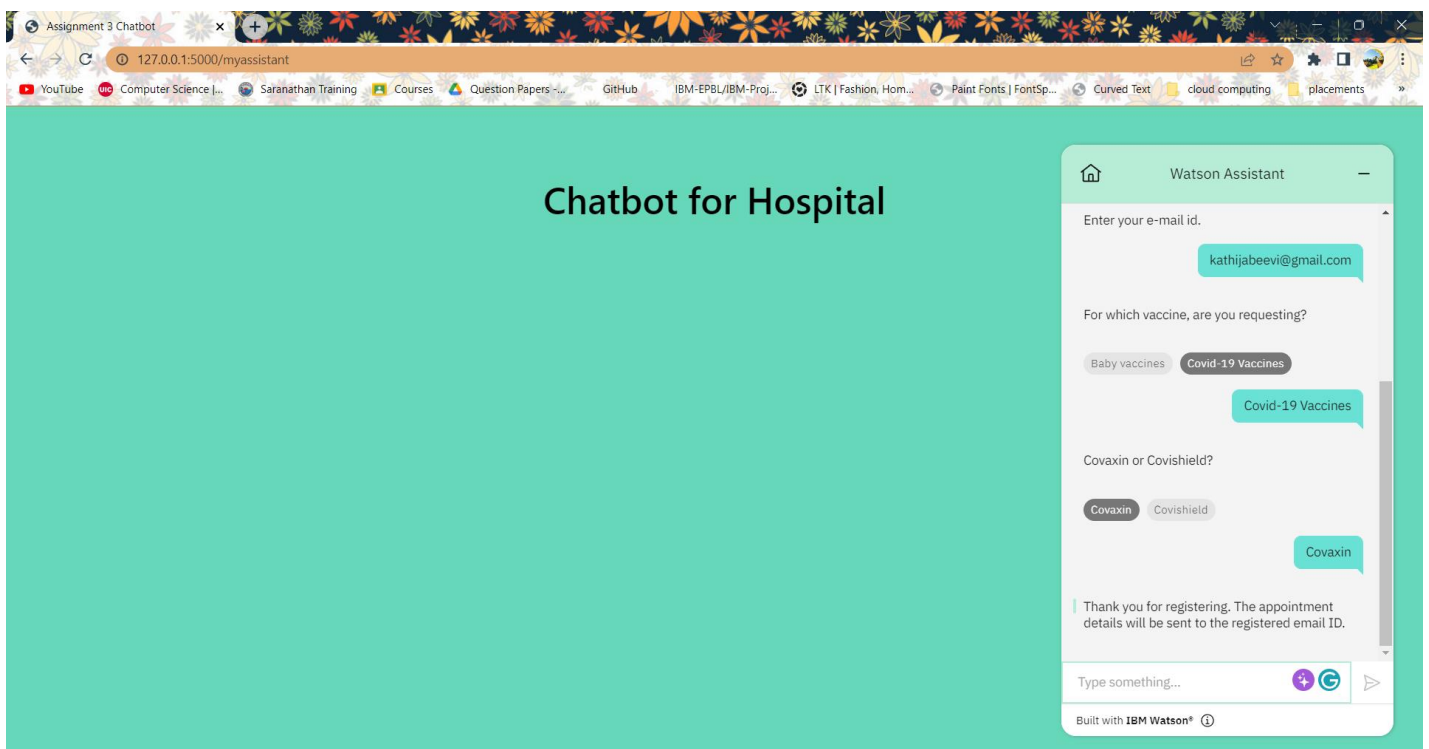
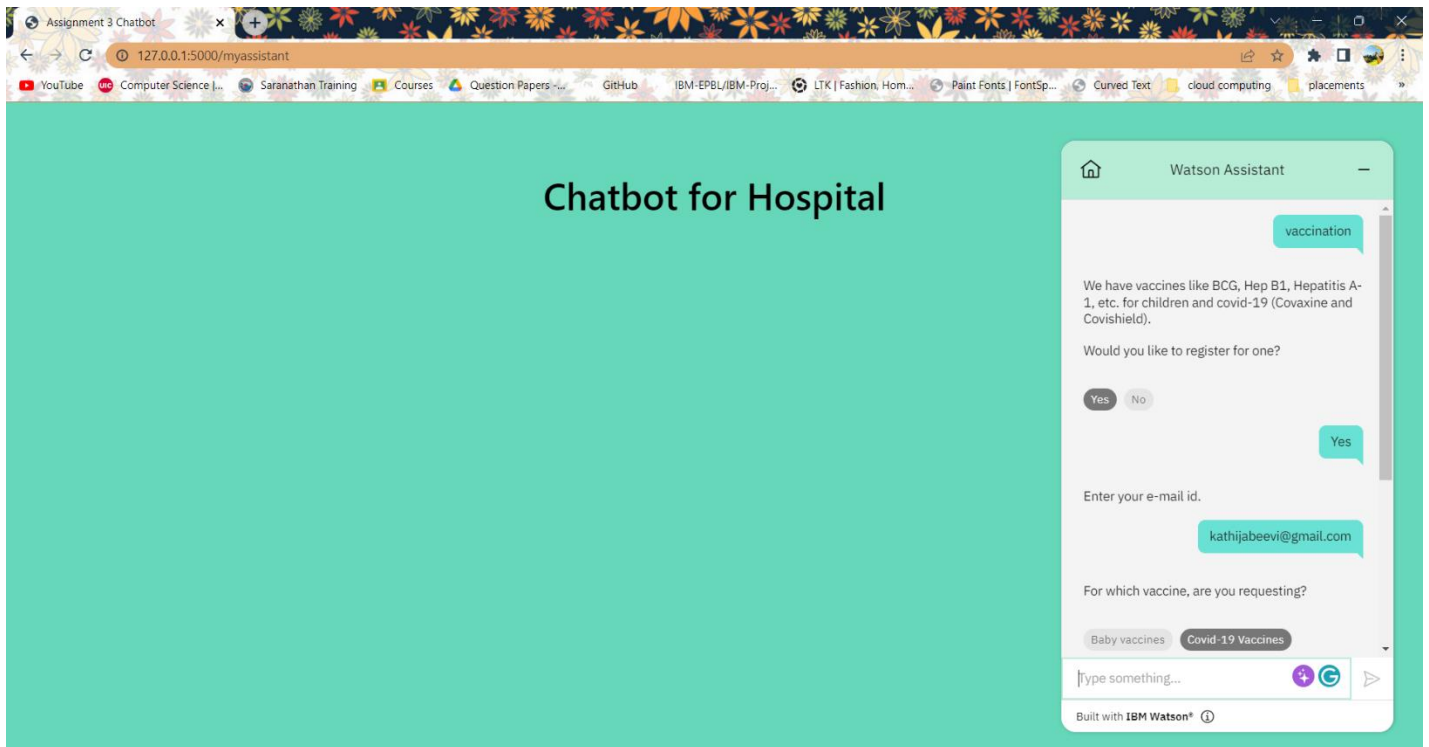
Chatbot for Hospital

Hi! I'm Chansy. How can I help you today?

Example: Other branches in the city
Example: Details about vaccines

Type something...

Built with IBM Watson®



File name: assistant.html, main.py

The files have been uploaded in GitHub.

Script in assistant.html file:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
```

```

    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Assignment 3 Chatbot</title>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css"
integrity="sha384-9aIt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYxxFfc+NcPb1dKGj7Sk"
crossorigin="anonymous">
    <style>
        body{
            background-color: #66d7b9;
            color: black;
            margin: 5%;
        }
    </style>
</head>
<body>
    <h1 style="text-align: center">Chatbot for Hospital</h1>
    <script>
        window.watsonAssistantChatOptions = {
            integrationID: "148c8b05-d7de-489c-a970-517c3676838f", // The ID of this integration.
            region: "au-syd", // The region your integration is hosted in.
            serviceInstanceID: "efccfecfcd-0afd-4fd7-8f9e-8a9e819f7075", // 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>
</body>
</html>

```

main.py:

```

from flask import Flask, render_template, request, redirect, url_for
from connect import *
from objstorage import *
app = Flask(__name__)

@app.route('/myassistant')
def assistant_page():
    return render_template('assistant.html')

if(__name__=='__main__'):
    app.run()

```