

ASSIGNMENT - 3

EXPLORE OBJECT STORAGE AND WATSON ASSISTANT IN IBM CLOUD

| | |
|---------------------|------------------|
| Assignment Date | 07 November 2022 |
| Student Name | Sathish Kumar P |
| Student Roll Number | 95071912087 |
| Maximum Marks | 2 Marks |

1. Create a Bucket in IBM object storage.

Bucket details Show less

| | | | |
|--|------------------------------------|---------------------|---------------------|
| Bucket name | skill-and-job-recommender-bucket-1 | Total bytes | 0 bytes |
| Service instance | cloud-object-storage | Resiliency | Regional |
| Total objects | 0 | Location | us-south |
| Storage class | Smart Tier ① | Date created | 2022-10-05 12:00 AM |
| Cloud Functions trigger Disabled Learn more | | | |

Bucket instance CRN
This value identifies the service instance when listing or creating buckets via the API. [Learn more](#)

crn:v1:bluemix:public:cloud-object-storage:global:a/77bb2e90befd4ac087dc7d87fcae81ec:7e526f93-ae46-4b84-8523-2d07bf0d5183:bucket:skill-and-job-recommender-bucket-1

Service credentials
You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

New credential +

| Key name | Date created |
|---------------------|---------------------|
| Reader Credential 1 | 2022-10-05 12:34 AM |

```
{
  "apikey": "oFDfvfe2FnnK2Fsfxe1DxWTxTZ8EXBE415U3H1X7Fu0p",
  "endpoints": "https://control.cloud-object-storage.cloud.ibm.com/v2/endpoints",
  "iam_apikey_description": "Auto-generated for key crn:v1:bluemix:public:cloud-object-storage:global:a/77bb2e90befd4ac087dc7d87fcae81ec:7e526f93-ae46-4b84-8523-2d07bf0d5183:resource-key:17f76994-6216-4e62-86f9-6192796ca547",
  "iam_apikey_name": "Reader Credential 1",
  "iam_role_crn": "crn:v1:bluemix:public:iam:::serviceRole:Reader",
  "iam_serviceid_crn": "crn:v1:bluemix:public:iam-identity::a/77bb2e90befd4ac087dc7d87fcae81ec:serviceid:ServiceId-0d1e602f-dc1e-4b73-a8b6-6ac7aa288d29",
  "resource_instance_id": "crn:v1:bluemix:public:cloud-object-storage:global:a/77bb2e90befd4ac087dc7d87fcae81ec:7e526f93-ae46-4b84-8523-2d07bf0d5183::"
}
```

2. Upload 5 images to IBM object storage and make it public. Write HTML code to display all 5 images.

Storage / Skill and Job Recommender Cloud Object Storage /

skill-and-job-recommender-bucket-1

TransfersDetailsActions...

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

RefreshRefresh iconNew iconUpload

| <input type="checkbox"/> | Object name | Archived ⓘ | Size | Last modified | |
|--------------------------|----------------------|------------|----------|---------------------|---|
| <input type="checkbox"/> | Balloons.jpg | | 412.5 KB | 2022-10-05 12:36 AM | ⋮ |
| <input type="checkbox"/> | Fireworks.jpg | | 3.7 MB | 2022-10-05 12:36 AM | ⋮ |
| <input type="checkbox"/> | Hot Air Balloons.jpg | | 1.2 MB | 2022-10-05 12:36 AM | ⋮ |
| <input type="checkbox"/> | Mountains.jpg | | 1.5 MB | 2022-10-05 12:36 AM | ⋮ |
| <input type="checkbox"/> | Swing.jpg | | 2.3 MB | 2022-10-05 12:36 AM | ⋮ |

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skill-and-job-recommender-bucket-1

TransfersDetailsActions...

ObjectsConfigurationPermissions

Bucket access policies

Manage access to this bucket by creating IAM policies for users and service IDs. Users and service IDs must also have an instance level viewer role (or higher) to use the console or to list buckets using the REST API.

Access policies

Public access

Status: Enabled

Role for this bucket:

Content Reader

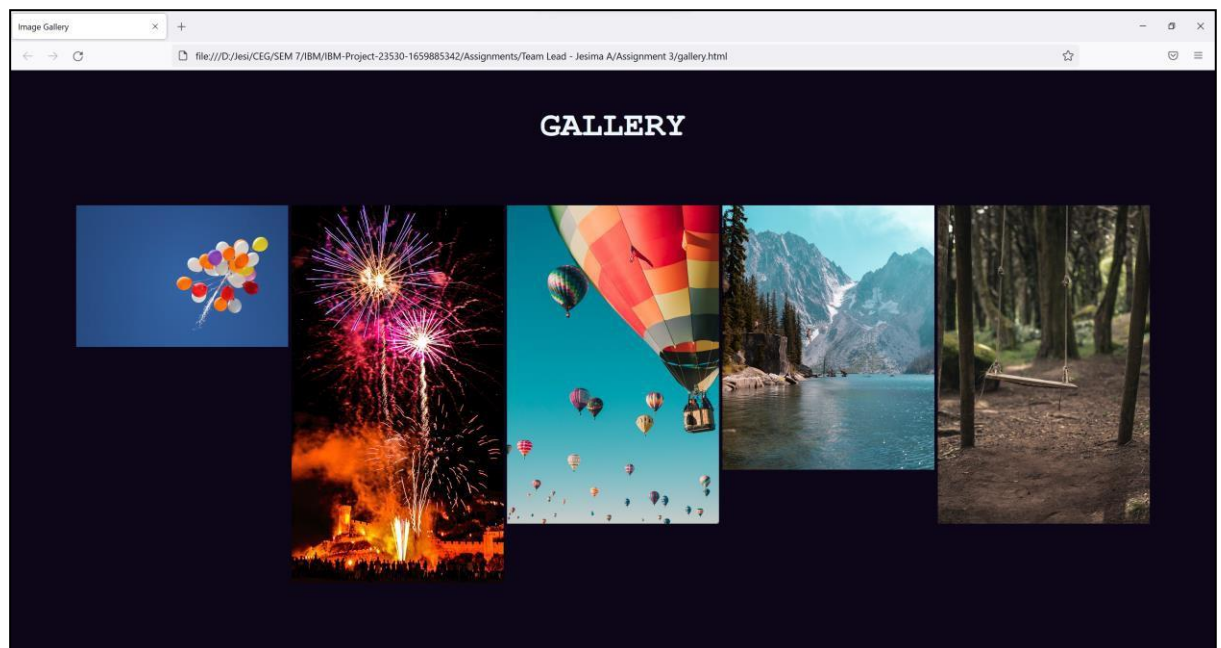
As a Content Reader, one can read and list objects in the bucket.

CODE

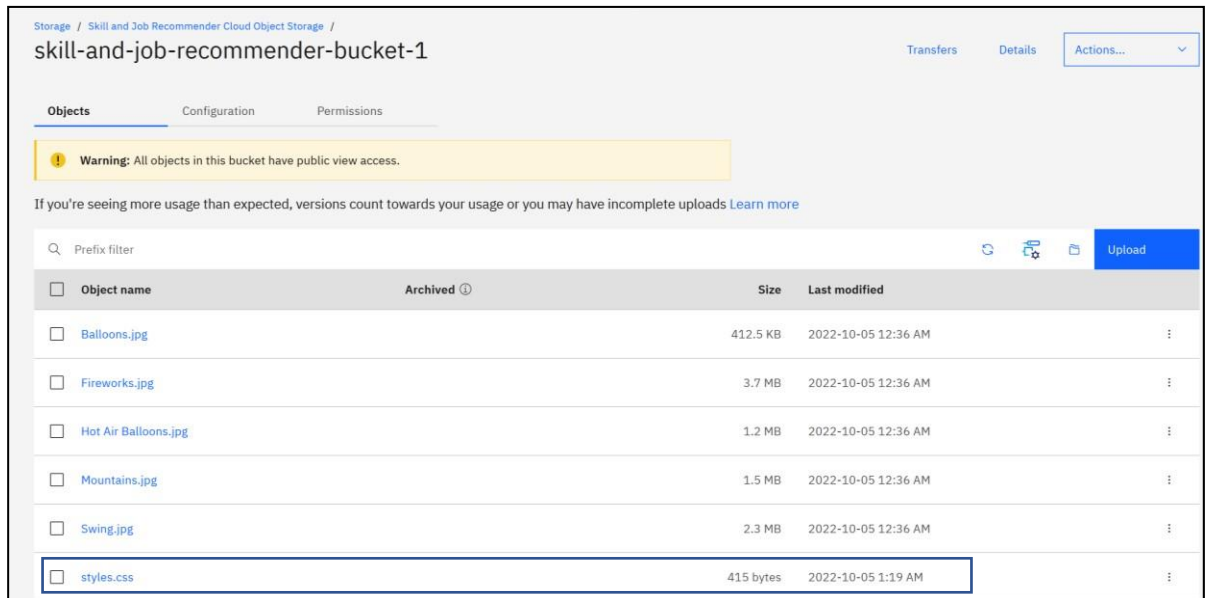
gallery.html

```
gallery.html U X
gallery.html > html > head > style > #gallery
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Image Gallery</title>
5 <style type="text/css">
6     body{
7         background-color: rgb(13, 6, 24);
8     }
9     #gallery{
10        margin-top: 10%;
11        margin: 5%;
12        line-height:0;
13        column-count:5;
14        column-gap:5px;
15    }
16    #gallery img{
17        width: 100% !important;
18        height: auto !important;
19        margin-bottom:5px;
20    }
21    h2{
22        text-align: center;
23        font-family: Courier;
24        font-size: 50px;
25        margin-top: 3%;
26        font-weight: bolder;
27        color: aliceblue;
28    }
29 </style>
30 </head>
31 <body>
32 <h2>GALLERY</h2>
33 <div id="gallery">
34 
35 
36 
37 
38 
39 </div>
40 </body>
41 </html>
```

OUTPUT



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



CODE

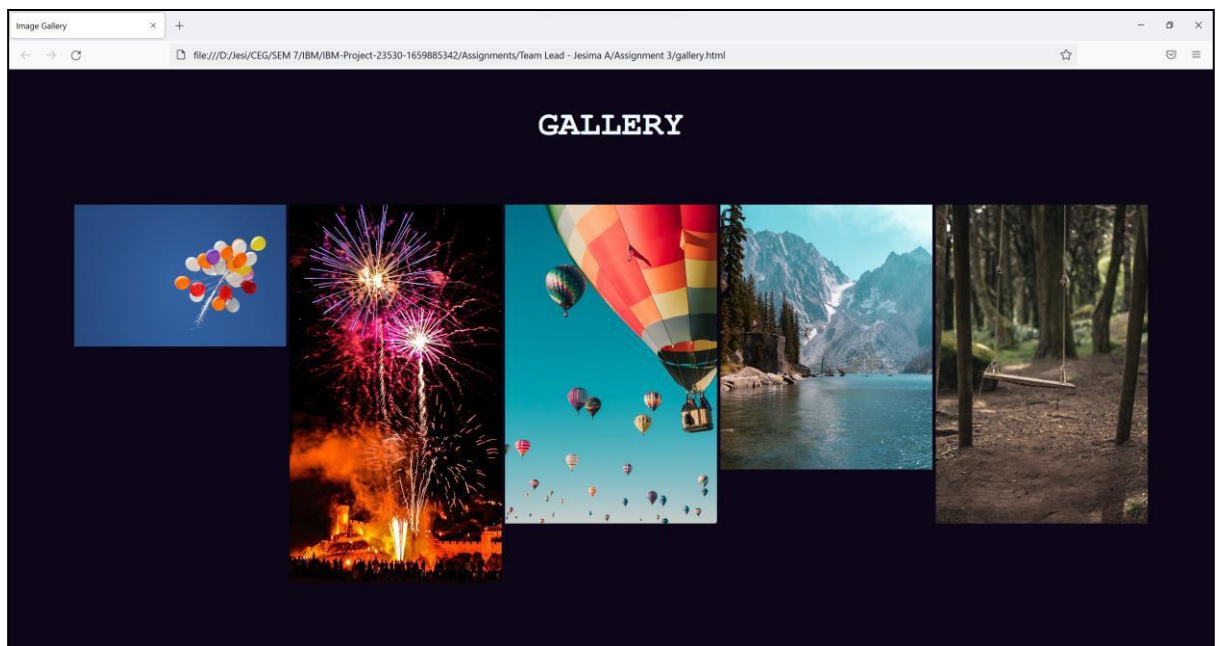
gallery.html

```
gallery.html U X
gallery.html > html > head > link
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Image Gallery</title>
5     <link rel="stylesheet" href="https://skill-and-job-recommender-bucket-1.s3.us-south.cloud-object-storage.appdomain.cloud/styles.css">
6   </head>
7   <body>
8     <h2>GALLERY</h2>
9     <div id="gallery">
10      
11      
12      
13      
14      
15    </div>
16  </body>
17 </html>
```

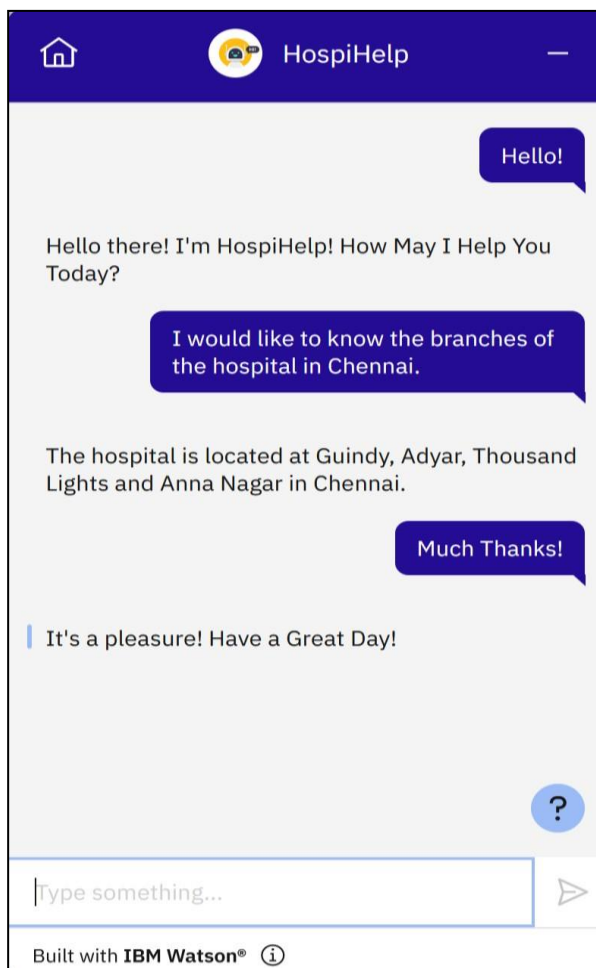
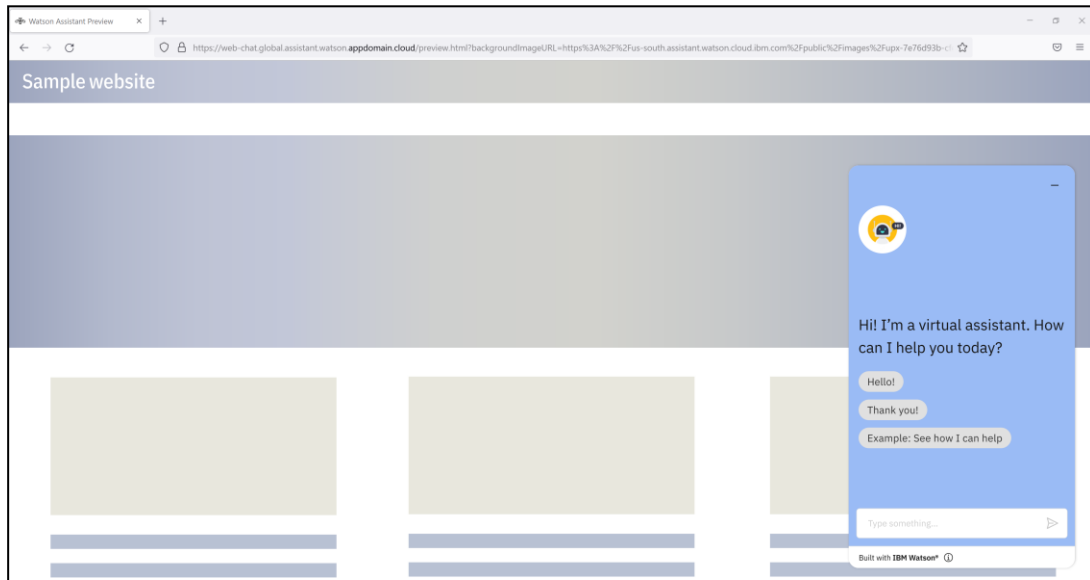
styles.css

```
# styles.css U X
# styles.css > body
1  body{
2      background-color: rgb(13, 6, 24);
3  }
4  #gallery{
5      margin-top: 10%;
6      margin: 5%;
7      line-height:0;
8      column-count:5;
9      column-gap:5px;
10 }
11 #gallery img{
12     width: 100% !important;
13     height: auto !important;
14     margin-bottom:5px;
15 }
16 h2{
17     text-align: center;
18     font-family: Courier;
19     font-size: 50px;
20     margin-top: 3%;
21     font-weight: bolder;
22     color: aliceblue;
23 }
```

OUTPUT



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



CHATBOT ACCESS URL

<https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https%3A%2F%2Fus-south.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-7e76d93b-cfe4-4370-993d-1ce3ecc6df02%3A%3A9e62255e-7bfd-4e11-912d-8976dd82ae93&integrationID=16b10e58-7082-47cc-b524-6a709bbb871d®ion=us-south&serviceInstanceID=7e76d93b-cfe4-4370-993d-1ce3ecc6df02>

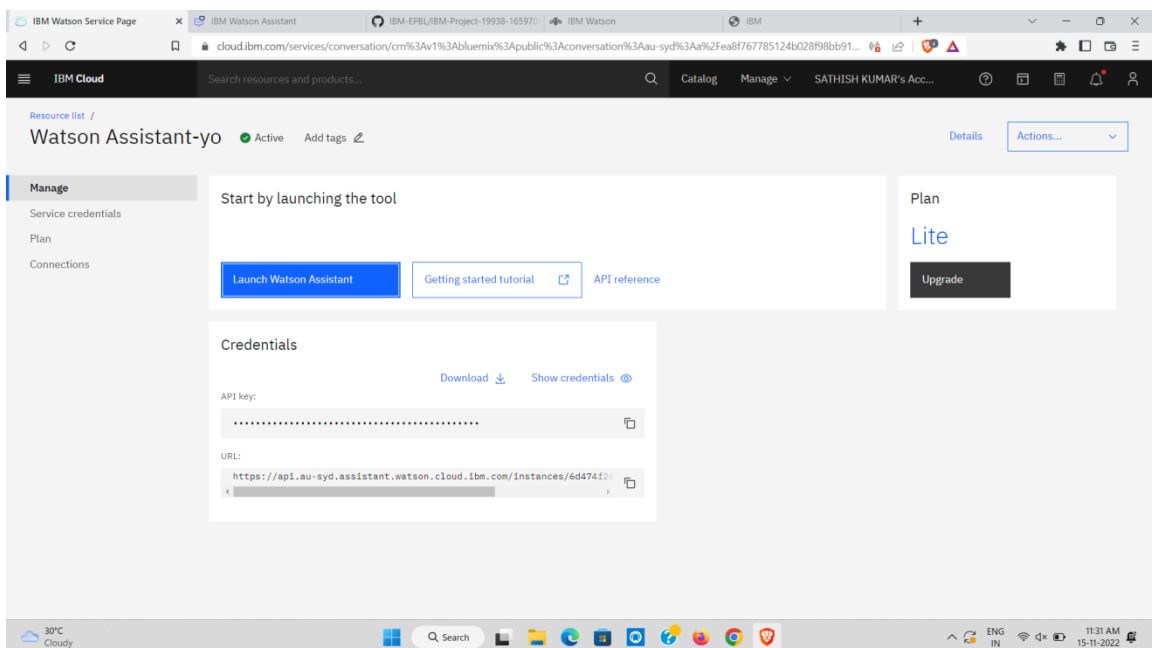
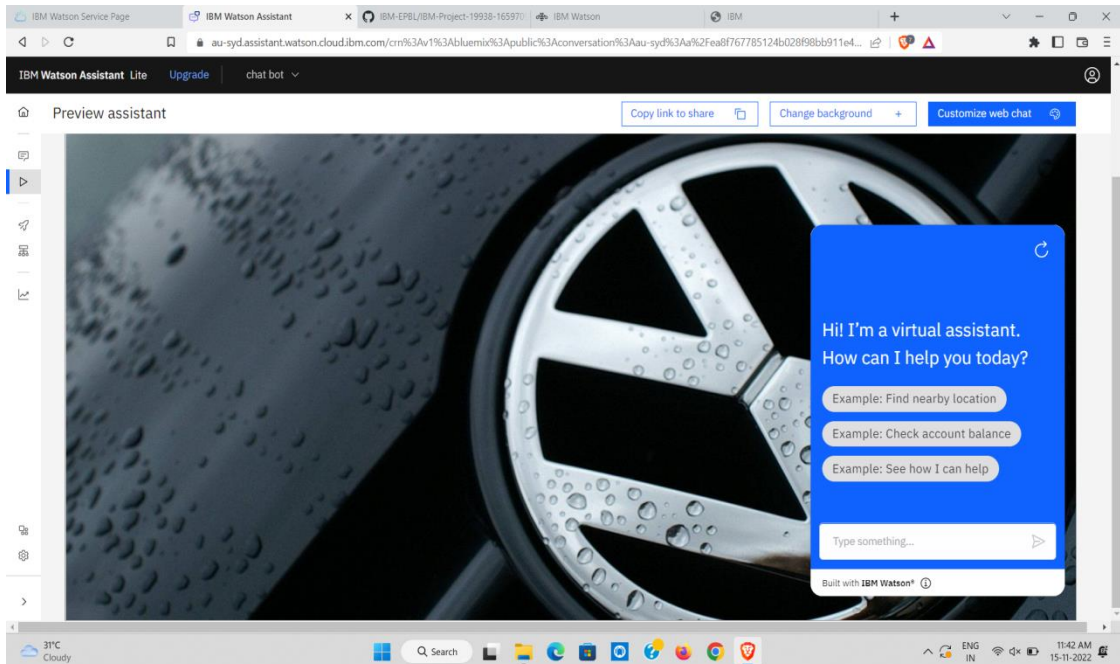
5. Create a Watson assistant service with 10 steps and use 3 conditions in it. Load that script in the HTML page.

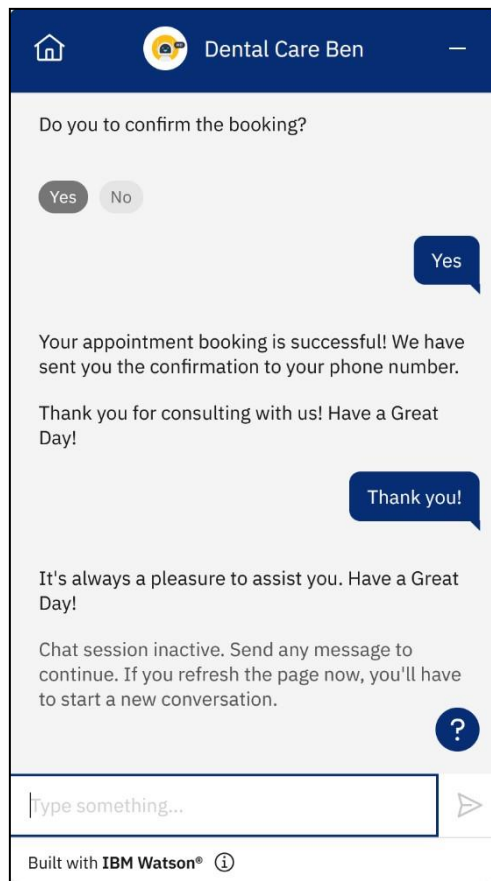
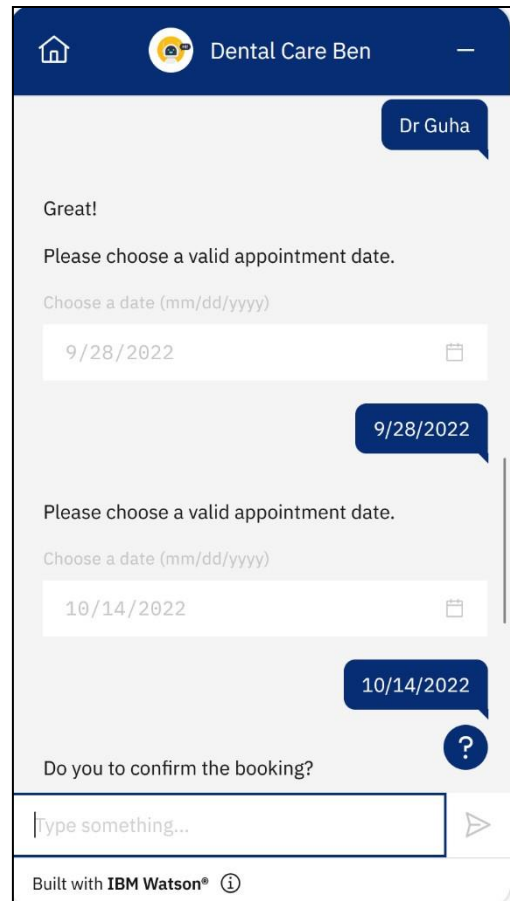
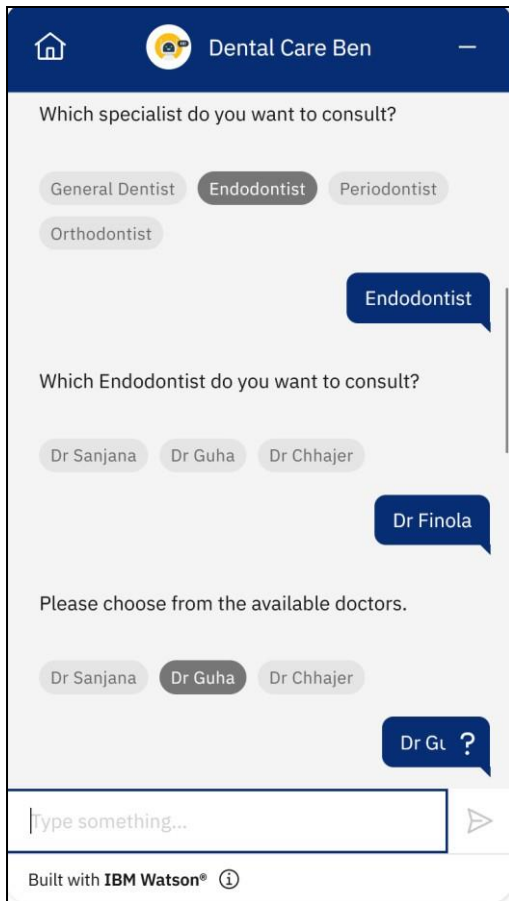
CODE

watson_assistant.html

```
watson_assistant.html U X
watson_assistant.html > html > body > script > setTimeout() callback
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>Home Page</title>
5      </head>
6      <body>
7          <script>
8              window.watsonAssistantChatOptions = {
9                  integrationID: "5662b8d5-6e03-4ed1-b8a9-36cef43ef236", // The ID of this integration.
10                 region: "us-south", // The region your integration is hosted in.
11                 serviceInstanceID: "7e76d93b-cfe4-4370-993d-1ce3ecc6df02", // The ID of your service instance.
12                 onLoad: function(instance) { instance.render(); }
13             };
14             setTimeout(function(){
15                 const t=document.createElement('script');
16                 t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
17                     (window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
18                 document.head.appendChild(t);
19             });
20         </script>
21     </body>
22 </html>
```

OUTPUT





CHATBOT ACCESS URL

<https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageUrl=https%3A%2F%2Fus-south.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-7e76d93b-cfe4-4370-993d-1ce3ecc6df02%3A%3Aa24c121b-aeaf-41f1-bf8a-d19edf633544&integrationID=d72d2591-b006-4dbb-8d00-a5b9939741c3®ion=us-south&serviceInstanceID=7e76d93b-cfe4-4370-993d-1ce3ecc6df02>