

Building chatbot and integrate to app

Date	16 November 2022
Team ID	PNT2022TMID47412
Project Name	Skill And Job Recommender

Creating a Watson assistant:

The screenshot shows the IBM Watson Assistant console interface. At the top, there's a navigation bar with 'IBM Watson Assistant Lite' and 'Upgrade' buttons, and a dropdown menu for 'health_care'. Below this is a 'Home' section with a 'Welcome, you're in the new Watson Assistant!' message and a 'Learn more' link. The main content area is titled 'health_care | English (US)' and 'No description'. It features a 'Get started' section with a progress bar showing '3 steps left 7 min' and '0%'. A list of tasks is provided:

- ☐ Learn about Watson Assistant (5 min)
- ☐ Explore your learning center (Explore at your own pace, and mark as complete when you're ready)
- ☐ Explore Watson Assistant features on interactive demo site (2 min)

A rocket icon is shown on the right side of the progress bar. The bottom of the screen shows a Windows taskbar with the date '16-11-2022' and time '21:20'.

Defining actions to the assistant:

IBM Watson Assistant Lite Upgrade health_care

Actions

- Actions
 - Created by you
 - Set by assistant
 - Variables
 - Created by you
 - Set by assistant
 - Set by integration
 - Saved responses

Name	Last edited	Examples Count	Status
Confirm an appointment	15 days ago	6	✓

Items per page: 50 Showing 1–1 of 1 actions

1 1 of 1 pages

Preview

Integration of Watson assistant in the application:

Integration code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Skills and Job Recommendation</title>
5 <meta charset="UTF-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1">
7 <link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
8 <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Raleway">
9 <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
10 <!-- CSS only -->
11 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-Zenh87qX5JnK2210vW8cK2rdkQ2Bzeps1DxbcnCeuOxjzrPF/et3URy98v1WTR1" crossorigin="anonymous">
12
13 <style>
14 body {
15   font-family: "Roboto", sans-serif;
16 }
17 .w3-main{
18   background-image: url("https://img.freepik.com/free-photo/cheerful-lady-medical-uniform-using-laptop_171337-4287.jpg?w=988&t=st=1668616747~exp=1668617347~hmac=a0d1d025f4ea7f645c42ef62188b635b8a9d4d5a313dc33f214a1c90cc9e09e7");
19 }
20 </style>
21 </head>
22 <body class="w3-light-grey w3-content" style="max-width:1600px">
23
24 <!-- Sidebar/menu -->
25 <nav class="w3-sidebar w3-collapse w3-white w3-animate-left" style="z-index:3;width:300px;" id="mySidebar"><br>
26 <div class="w3-container">
27   <a href="#" onclick="w3_close()" class="w3-hide-large w3-right w3-jumbo w3-padding w3-hover-grey" title="close menu">
28     <i class="fa fa-remove"></i>
29   </a>
30   <br><br>
31   <h4><b>Skills and Job Recommendation</b></h4>
32 </div>
33 <div class="w3-bar-block">
34   <a href="#portfolio" onclick="w3_close()" class="w3-bar-item w3-button w3-padding w3-text-teal"><i class="fa fa-th-large fa-fw w3-margin-right"></i>Skills and Job Recommendation</a>
35   <a href="#about" onclick="w3_close()" class="w3-bar-item w3-button w3-padding"><i class="fa fa-user fa-fw w3-margin-right"></i>ABOUT</a>
36   <a href="#contact" onclick="w3_close()" class="w3-bar-item w3-button w3-padding"><i class="fa fa-envelope fa-fw w3-margin-right"></i>CONTACT</a>
37 </div>
38 <div class="w3-panel w3-large">
39   <i class="fa fa-facebook-official w3-hover-opacity"></i>
40   <i class="fa fa-instagram w3-hover-opacity"></i>
41   <i class="fa fa-snapchat w3-hover-opacity"></i>
42   <i class="fa fa-pinterest-p w3-hover-opacity"></i>
43   <i class="fa fa-twitter w3-hover-opacity"></i>
44   <i class="fa fa-linkedin w3-hover-opacity"></i>
45 </div>
46 </nav>
47
48 <!-- Overlay effect when opening sidebar on small screens -->
49 <div class="w3-overlay w3-hide-large w3-animate-opacity" onclick="w3_close()" style="cursor:pointer" title="close side menu" id="myOverlay"></div>
50
51 <!-- IPAGE CONTENT! -->
52 <div class="w3-main" style="margin-left:300px">
```

```

54 <!-- Header -->
55 <header id="portfolio">
56 <a href="#"></a>
57 <span class="w3-button w3-hide-large w3-xxlarge w3-hover-text-grey" onclick="w3_open()"><i class="fa fa-bars"></i></span>
58 <div class="w3-container">
59 <b>b>Skills and Job Recommendation</b></h1>
60 <div class="w3-section w3-bottombar w3-padding-16">
61 <span class="w3-margin-right">Filter:</span>
62 <button class="w3-button btn btn-primary">All</button>
63 <button class="w3-button btn btn-warning"><i class="fa fa-diamond w3-margin-right"></i>Design</button>
64 <button class="w3-button w3-white w3-hide-small"><i class="fa fa-photo w3-margin-right"></i>Photos</button>
65 <button class="w3-button w3-white w3-hide-small"><i class="fa fa-map-pin w3-margin-right"></i>Art</button>
66 </div>
67 </div>
68 </header>
69
70 <!-- First Photo Grid -->
71 <div class="w3-row-padding">
72 <div class="w3-third w3-container w3-margin-bottom">
73 
74 <div class="w3-container w3-white">
75 <p>b>Data Analyst</b></p>
76 <p>a>A data analyst reviews data to identify key insights into a business's customers and ways the data can be used to solve problems. They also communicate this information to company leadership and other stakeholders.</p>
77 </div>
78 </div>
79 <div class="w3-third w3-container w3-margin-bottom">
80 
81 <div class="w3-container w3-white">
82 <p>b>Data Engineer</b></p>
83 <p>p>The main focus of a data engineer is to metamorphose the raw data into something viable and readable before its presentation to an organization. Not just this, they are required to design, build, test, blend, manage, and optimize the data with the help of numerous sources.</p>
84 </div>
85 </div>
86 <div class="w3-third w3-container">
87 
88 <div class="w3-container w3-white">
89 <p>b>System Engineer</b></p>
90 <p>p>Systems engineers analyze organizational systems to find more efficient ways of doing things. Typical activities include: Analyzing system challenges and identify the best solution to meet project needs. Taking a project from conception to completion.</p>
91 </div>
92 </div>
93 </div>
94 <div class="w3-center w3-padding-32">
95 <div class="w3-bar">
96 <a href="#" class="w3-bar-item w3-button w3-hover-black"><i></i></a>
97 <a href="#" class="w3-bar-item w3-button w3-black w3-button">i</i></a>
98 <a href="#" class="w3-bar-item w3-button w3-hover-black">2</a>
99 <a href="#" class="w3-bar-item w3-button w3-hover-black">3</a>
100 <a href="#" class="w3-bar-item w3-button w3-hover-black">4</a>
101 <a href="#" class="w3-bar-item w3-button w3-hover-black"><i></i></a>
102 </div>
103 </div>
104
105 <div class="w3-container w3-padding-large w3-grey">
106 <h4 id="contact"><b>Contact Me</b></h4>
107 <div class="w3-row-padding w3-center w3-padding-24" style="margin:0 -16px">
108 <div class="w3-third w3-dark-grey">
109 <p><i class="fa fa-envelope w3-xxlarge w3-text-light-grey"></i></p>
110 <p>email@email.com</p>
111 </div>
112 <div class="w3-third w3-teal">
113 <p><i class="fa fa-map-marker w3-xxlarge w3-text-light-grey"></i></p>
114 <p>Chicago, US</p>
115 </div>
116 <div class="w3-third w3-dark-grey">
117 <p><i class="fa fa-phone w3-xxlarge w3-text-light-grey"></i></p>
118 <p>512312311</p>
119 </div>
120 </div>
121 <hr class="w3-opacity">
122 <form action="/action_page.php" target="_blank">
123 <div class="w3-section">
124 <label>Name</label>
125 <input class="w3-input w3-border" type="text" name="Name" required>
126 </div>
127 <div class="w3-section">
128 <label>Email</label>
129 <input class="w3-input w3-border" type="text" name="Email" required>
130 </div>
131 <div class="w3-section">
132 <label>Message</label>
133 <input class="w3-input w3-border" type="text" name="Message" required>
134 </div>
135 <button type="submit" class="w3-button w3-black w3-margin-bottom"><i class="fa fa-paper-plane w3-margin-right"></i>Send Message</button>
136 </form>
137 </div>
138
139 </div> -->
140
141 <script>
142 function w3_open() {
143 document.getElementById("mySidebar").style.display = "block";
144 document.getElementById("myOverlay").style.display = "block";
145 }
146
147 function w3_close() {
148 document.getElementById("mySidebar").style.display = "none";
149 document.getElementById("myOverlay").style.display = "none";
150 }
151 </script>
152 <script>
153 window.watsonAssistantChatOptions = {
154 integrationID: "2deecf5a-577b-4938-9220-99b1236550ca", // The ID of this integration.
155 region: "au-syd", // The region your integration is hosted in.
156 serviceInstanceID: "ae673325-ea65-475c-903d-426ebf109f29", // The ID of your service instance.
157 onLoad: function(instance) { instance.render(); }
158 };
159 setTimeout(function(){
160 const t=document.createElement('script');
161 t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" + (window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
162 document.head.appendChild(t);
163 });
164 </script>
165
166 </body>
167 </html>

```

```

141 <script>
142 function w3_open() {
143     document.getElementById("mySidebar").style.display = "block";
144     document.getElementById("myOverlay").style.display = "block";
145 }
146
147 function w3_close() {
148     document.getElementById("mySidebar").style.display = "none";
149     document.getElementById("myOverlay").style.display = "none";
150 }
151 </script>
152 <script>
153 window.watsonAssistantChatOptions = {
154     integrationID: "2deecf5a-577b-4938-9220-99b1236550ca", // The ID of this integration.
155     region: "au-syd", // The region your integration is hosted in.
156     serviceInstanceID: "ae673325-ea65-475c-903d-426ebf109f29", // The ID of your service instance.
157     onLoad: function(instance) { instance.render(); }
158 };
159 setTimeout(function(){
160     const t=document.createElement('script');
161     t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" + (window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
162     document.head.appendChild(t);
163 });
164 </script>
165
166 </body>
167 </html>

```

Result:

The screenshot displays a web browser window with the address bar showing `127.0.0.1:5500/watson.html#`. The website, titled "Skills and Job Recommendation", features a sidebar with navigation links: "Skills and Job Recommendation", "ABOUT", and "CONTACT", along with social media icons. The main content area has tabs for "ALL", "Design", "Photos", and "Art". Under the "Design" tab, there are two featured roles: "Data Analyst" and "Data Engineer".

The "Data Analyst" section describes a role where a data analyst reviews data to identify key insights into a business's customers and ways the data can be used to solve problems. They also communicate this information to company leadership and other stakeholders.

The "Data Engineer" section describes a role where the main focus of a data engineer is to metamorphose the raw data into something viable and readable for its presentation to an organization. Not just this, they are required to design, build, test, blend, maintain, and optimize the data with the numerous sources.

A Watson Assistant chat window is overlaid on the right side of the browser. The chat history shows a user saying "hai", followed by a system message asking for an email address to confirm an appointment. The user provides "job@gmail.com", and the system responds with "Thanks. I've found you in our system!". The system then informs the user of an appointment scheduled for Nov 16, 2022 at 10:30:17 PM and asks if they would like to confirm it. The user selects "Yes, confirm this appointment". The chat window also includes a "Type something..." input field and a "Built with IBM Watson®" footer.

The Windows taskbar at the bottom shows the date and time as 22:31 on 16-11-2022, along with various system icons and the Windows Start button.

