

Project Development Phase

Delivery of Sprint - 4

Date	05-11-2022
Team ID	PNT2022TMID50675
Project Name	AI-based discourse for Banking Industry

Build Python Code

1: Importing Libraries

The first step is usually importing the libraries that will be needed in the program.

```
from flask import Flask,render_template
```

2: Creating our flask application and loading

Importing the flask module into the project is mandatory. An object of the Flask class is our WSGI application. Flask constructor takes the name of the current module (__name__).

```
#app=Flask(__name__)  
app=Flask(__name__,template_folder='template')
```

3: Routing to the Html Page

Here, the declared constructor is used to route to the HTML page created earlier.

The '/' route is bound with the bot function. Hence, when the home page of a web server is opened in the browser, the HTML page will be rendered.

```
@app.route('/')  
def bot():  
    return render_template('Chatbot.html')
```

4: Main Function

This is used to run the application in localhost.

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

Build HTML Code

- We use HTML to create the front-end part of the web page.
- Here, we have created 1 HTML page-Chatbot.html
- Chatbot.html displays the home page which integrates with Watson Assistant.
- A simple HTML page is created. Auto-generated source code from IBM Watson Assistants is copied and pasted inside the body tag

Run the Application

- Open the Visual studio from the start menu.
- Open the Project code folder in Visual studio.
- Open the HTML code.
- Add the Watson assistant web chat Banking Chatbot in HTML code.
- Run the code in Web app (chrome or Edge).

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <title>Banking Bot</title>
  <meta content="" name="description">
  <meta content="" name="keywords">

  <!-- Favicons -->
  <link href="assets/img/favicon.png" rel="icon">
  <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

  <!-- Google Fonts -->
  <link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,
600i,700,700i|Raleway:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300
,300i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">

  <!-- Vendor CSS Files -->
  <link href="./assets/vendor/aos/aos.css" rel="stylesheet">
  <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
  <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css"
rel="stylesheet">
```

```

<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="assets/vendor/glightbox/css/glightbox.min.css" rel="stylesheet">
<link href="assets/vendor/remixicon/remixicon.css" rel="stylesheet">
<link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">

<!-- Template Main CSS File -->
<link href="assets/css/style.css" rel="stylesheet">

</head>

<body>
  <script>
    window.watsonAssistantChatOptions = {
      integrationID: "cd12cff4-d24e-4a1e-a41a-a69b8eaf5fdb", // The ID of this
integration.
      region: "us-south", // The region your integration is hosted in.
      serviceInstanceID: "cfc13b0f-48d4-40ed-98bd-9863324211c8", // 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>
  <!-- ===== Header ===== -->
  <header id="header" class="fixed-top ">
    <div class="container d-flex align-items-center justify-content-lg-
between">

      <h1 class="logo me-auto me-lg-0"><a href="index.html">Chat
Bot<span></span></a></h1>
      <!-- Uncomment below if you prefer to use an image logo -->

      <nav id="navbar" class="navbar order-last order-lg-0">
        <ul>
          <li><a class="nav-link scrollto active" href="#hero">Home</a></li>
        </ul>
        <i class="bi bi-list mobile-nav-toggle"></i>
      </nav><!-- .navbar -->

    </div>
  </header><!-- End Header -->

```

```

<!-- ===== Hero Section ===== -->
<section id="hero" class="d-flex align-items-center justify-content-center">
  <div class="container" data-aos="fade-up">

    <div class="d-flex align-items-center justify-content-center" data-
aos="fade-up" data-aos-delay="150">
      <div class="col-xl-6 col-lg-8">
        <h1>AI Based Discourse for Banking Industry<span></span></h1>
      </div>
    </div>

    <div class="row gy-4 mt-5 justify-content-center" data-aos="zoom-in"
data-aos-delay="250">
      <div class="col-xl-2 col-md-4">
        <div class="icon-box">
          <i class="ri-store-line"></i>
          <h3><a href="">Savings</a></h3>
        </div>
      </div>
      <div class="col-xl-2 col-md-4">
        <div class="icon-box">
          <i class="ri-bar-chart-box-line"></i>
          <h3><a href="">Current</a></h3>
        </div>
      </div>
      <div class="col-xl-2 col-md-4">
        <div class="icon-box">
          <i class="ri-calendar-todo-line"></i>
          <h3><a href="">Loan Enquiry </a></h3>
        </div>
      </div>
      <div class="col-xl-2 col-md-4">
        <div class="icon-box">
          <i class="ri-paint-brush-line"></i>
          <h3><a href="">General query</a></h3>
        </div>
      </div>
      <div class="col-xl-2 col-md-4">
        <div class="icon-box">
          <i class="ri-database-2-line"></i>
          <h3><a href="">Net Banking</a></h3>
        </div>
      </div>
    </div>

  </div>
</section><!-- End Hero -->

<div id="preloader"></div>

```

```

<a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i class="bi bi-arrow-up-short"></i></a>

<!-- Vendor JS Files -->
<script src="assets/vendor/purecounter/purecounter_vanilla.js"></script>
<script src="assets/vendor/aos/aos.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
<script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
<script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
<script src="assets/vendor/php-email-form/validate.js"></script>

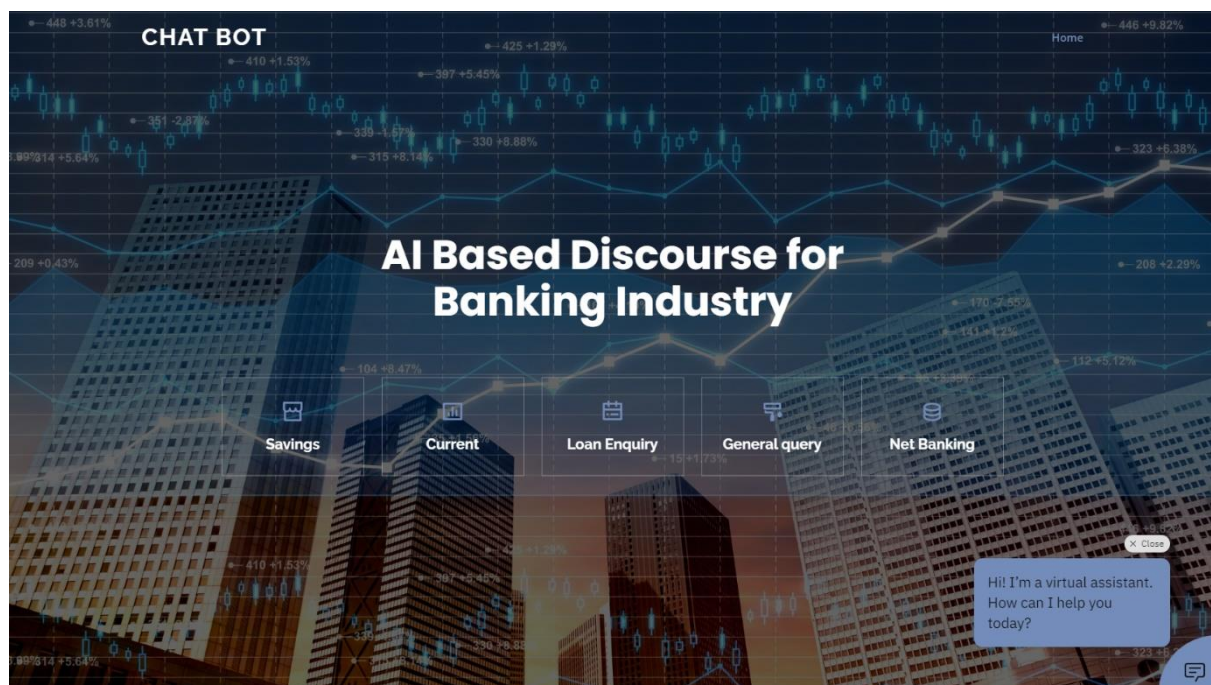
<!-- Template Main JS File -->
<script src="assets/js/main.js"></script>

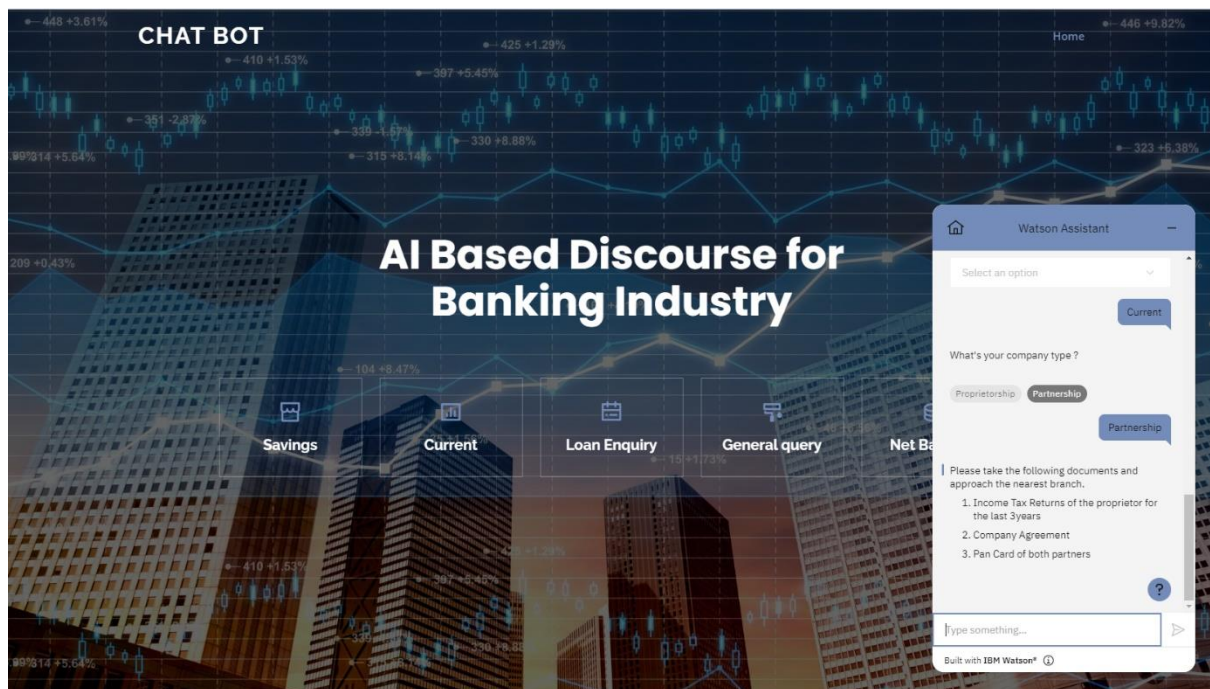
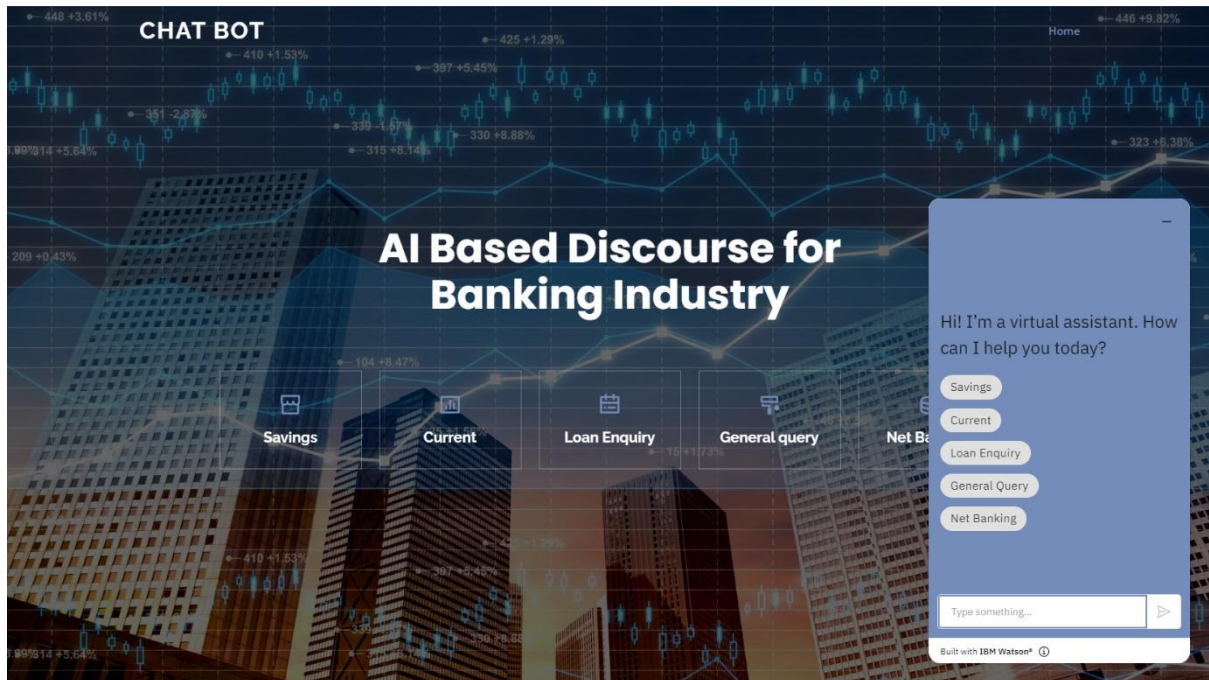
</body>

</html>

```

Output:





Sprint-4 JIRA file:

[illegible]