

## Project Development Phase

### Delivery of Sprint – 4

Date	17 November 2022
Team ID	PNT2022TMID43737
Project Name	AI-based discourse for Banking Industry

### Creating Assistant & Integrate with Flask Web Page

Let us build our flask application which will be running in our local browser as a user interface.

In the flask application, users will interact with the chatbot, and based on the user queries they will get the chatbot responses.

### Building 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
```

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

#### 2: Creating our flask application and loading

```
app = Flask(__name__)
```

#### 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('/Chatbot', methods= ['GET','POST'])
def Chatbot():
    return render_template('Chatbot.html')
```

## Main Function

This is used to run the application in the local host.

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

## Building HTML Code

We have used HTML to create the front-end part of the web page.

Here, we have created “index.html” displays the home page which gets integrated with Watson Assistant.

Auto-generated source code which contains the Integration ID of IBM Watson Assistants is copied and pasted inside the body tag.

## Run the application

1. Open Vs Code
2. Navigate to the folder where app.py resides.
3. Run the python code
4. Open a browser and type this URL <http://127.0.0.1:5500/>.
5. [Click Chatbot.html](http://127.0.0.1:5500/Chatbot.html) and then it shows <http://127.0.0.1:5500/Chatbot.html>
6. It launches the application integrated with IBM Watson Assistant.

```
C:\WINDOWS\system32\cmd.exe
Requirement already satisfied: flask in c:\users\sanka\appdata\local\programs\python\python311\lib\site-packages (2.2.2)
Requirement already satisfied: Werkzeug in c:\users\sanka\appdata\local\programs\python\python311\lib\site-packages (from flask) (2.2.2)
Requirement already satisfied: Jinja2>=3.0 in c:\users\sanka\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.1.2)
Requirement already satisfied: itsdangerous>=2.0 in c:\users\sanka\appdata\local\programs\python\python311\lib\site-packages (from flask) (2.1.2)
Requirement already satisfied: click>=8.0 in c:\users\sanka\appdata\local\programs\python\python311\lib\site-packages (from flask) (8.1.3)
Requirement already satisfied: colorama in c:\users\sanka\appdata\local\programs\python\python311\lib\site-packages (from click>=8.0->flask) (0.4.6)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\sanka\appdata\local\programs\python\python311\lib\site-packages (from Jinja2>=3.0->flask) (2.1.1)

[notice] A new release of pip available: 22.3 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

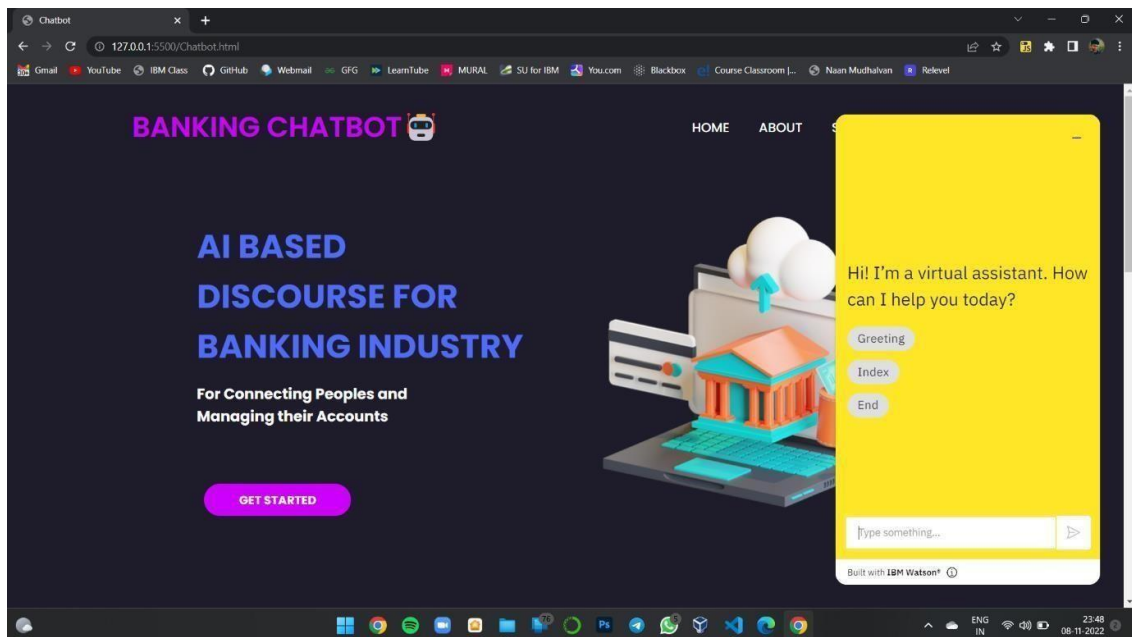
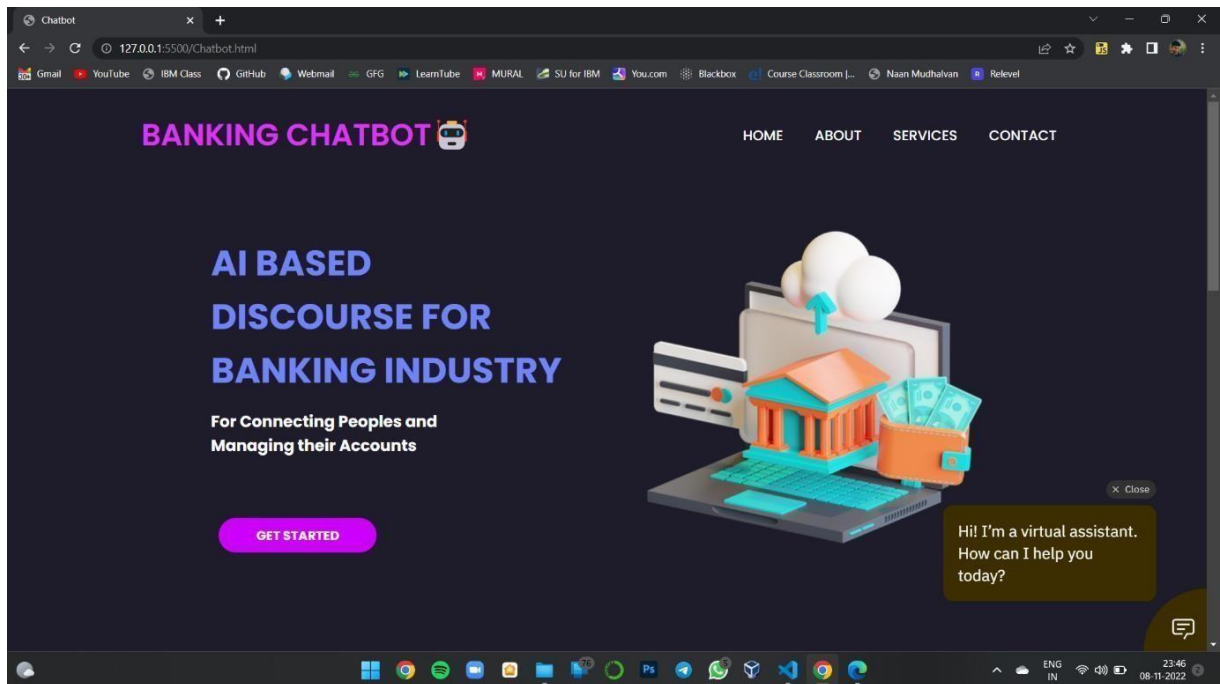
C:\Users\sanka>python.exe -m pip install --upgrade pip
Requirement already satisfied: pip in c:\users\sanka\appdata\local\programs\python\python311\lib\site-packages (22.3)
Collecting pip
  Downloading pip-22.3.1-py3-none-any.whl (2.1 MB)
    2.1/2.1 MB 97.9 kB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 22.3
    Uninstalling pip-22.3:
      Successfully uninstalled pip-22.3
  Successfully installed pip-22.3.1

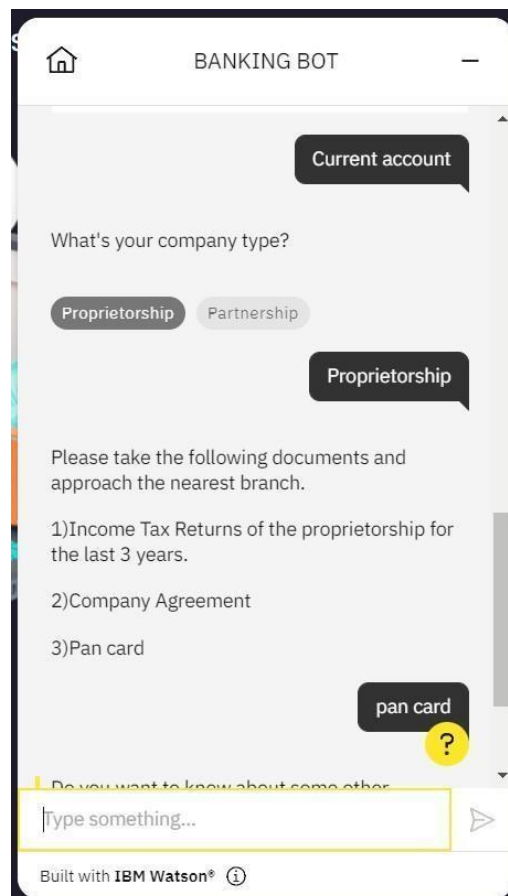
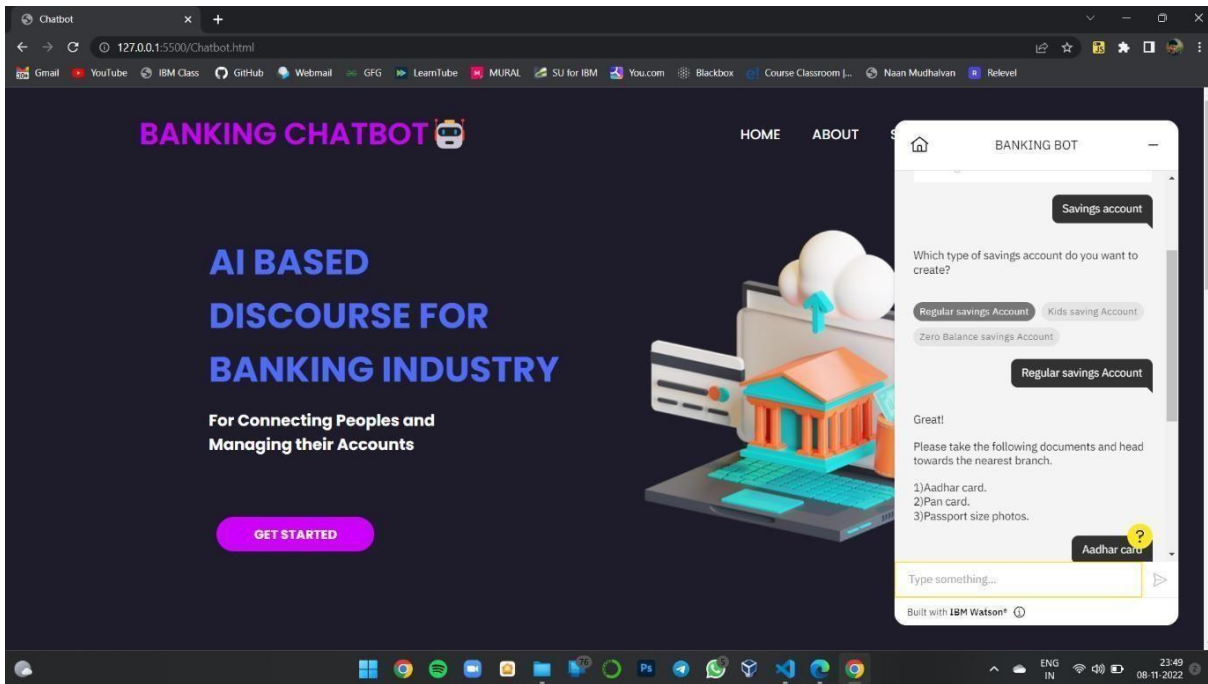
C:\Users\sanka>
```

```
File Edit Selection View Go Run Terminal Help
app.py - Visual Studio Code

EXPLORER
  1.png
  2.png
  3.png
  4.png
  app.py
  Chatbot.html
  desktop.ini
  styles.css

app.py
1 from flask import Flask, render_template
2
3 app = Flask(__name__)
4
5 @app.route('/chatbot', methods = ['GET', 'POST'])
6
7 def chatbot():
8     return render_template('Chatbot.html')
9
10 if __name__ == '__main__':
11     app.run()
```





## Preview of Chatbot

[https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageUrl=https%3A%2F%2Fus-south.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx- 35339789-38d5-451f-8f05-3ddb5dbbe57e%3A%3A49d7f8d1-0500-4610-9518-068ec885f252&integrationID=fc789460-2e93-472d-b324-c85bef5219f5&region=us-south&serviceInstanceID=35339789-38d5-451f-8f05-3ddb5dbbe57e](https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageUrl=https%3A%2F%2Fus-south.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-35339789-38d5-451f-8f05-3ddb5dbbe57e%3A%3A49d7f8d1-0500-4610-9518-068ec885f252&integrationID=fc789460-2e93-472d-b324-c85bef5219f5&region=us-south&serviceInstanceID=35339789-38d5-451f-8f05-3ddb5dbbe57e)