Project Development Phase

Delivery of Sprint - 4

Date	14 November 2022
Team ID	PNT2022TMID44746
Project Name	AI-based discourse for Banking Industry

Creating Assistant & Integrate With Flask Web Page

You will be creating a banking bot in this activity that has the following capabilities

- The Bot should be able to guide a customer to create a bank account.
- The Bot should be able to answer loan queries.
- The Bot should be able to answer general banking queries.
- The Bot should be able to answer queries regarding net banking.
- With the help of this bot, you can get all the required details related to banking.

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

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

Build Python Code

1: Importing Libraries

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

```
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. 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 createdearlier.

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 berendered.

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

Main Function

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

This is used to run the application in localhost.

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 withWatson Assistant.
- A simple HTML page is created. Auto-generated source codefrom IBM Watson Assistants is copied and pasted inside thebody tag

Run The Application

Run the application

- Open the anaconda prompt from the start menu.
- Navigate to the folder where your app.py resides.
- Now type the "python app.py" command.
- It will show the local host where your app is running on h HYPERLINK "http://127.0.0.1.5000/" HYPERLINK "http://127.0.0.1.5000/ HYPERLINK "http://127.0.0.1.5000/"" HYPERLINK "http://127.0.0.1.5000/"tt HYPERLINK "http://127.0.0.1.5000/" HYPERLINK HYPERLINK "http://127.0.0.1.5000/""http://127.0.0.1.5000/ HYPERLINK "http://127.0.0.1.5000/"" HYPERLINK "http://127.0.0.1.5000/"p HYPERLINK "http://127.0.0.1.5000/" HYPERLINK "http://127.0.0.1.5000/"HYPERLINK "http://127.0.0.1.5000/ HYPERLINK "http://127.0.0.1.5000/"" HYPERLINK "http://127.0.0.1.5000/": HYPERLINK "http://127.0.0.1.5000/" HYPERLINK "http://127.0.0.1.5000/"HYPERLINK HYPERLINK "http://127.0.0.1.5000/" HYPERLINK "http://127.0.0.1.5000/""http://127.0.0.1.5000/ HYPERLINK "http://127.0.0.1.5000/"" HYPERLINK "http://127.0.0.1.5000/"// HYPERLINK "http://127.0.0.1.5000/" HYPERLINK "http://127.0.0.1.5000/"HYPERLINK "http://127.0.0.1.5000/ HYPERLINK "http://127.0.0.1.5000/"" HYPERLINK "http://127.0.0.1.5000/"1 HYPERLINK "http://127.0.0.1.5000/" HYPERLINK HYPERLINK "http://127.0.0.1.5000/""http://127.0.0.1.5000/ HYPERLINK "http://127.0.0.1.5000/"" HYPERLINK "http://127.0.0.1.5000/"2 HYPERLINK "http://127.0.0.1.5000/" HYPERLINK "http://127.0.0.1.5000/"HYPERLINK "http://127.0.0.1.5000/ HYPERLINK "http://127.0.0.1.5000/"" HYPERLINK "http://127.0.0.1.5000/"7 HYPERLINK "http://127.0.0.1.5000/" HYPERLINK "http://127.0.0.1.5000/"HYPERLINK HYPERLINK "http://127.0.0.1.5000/" HYPERLINK

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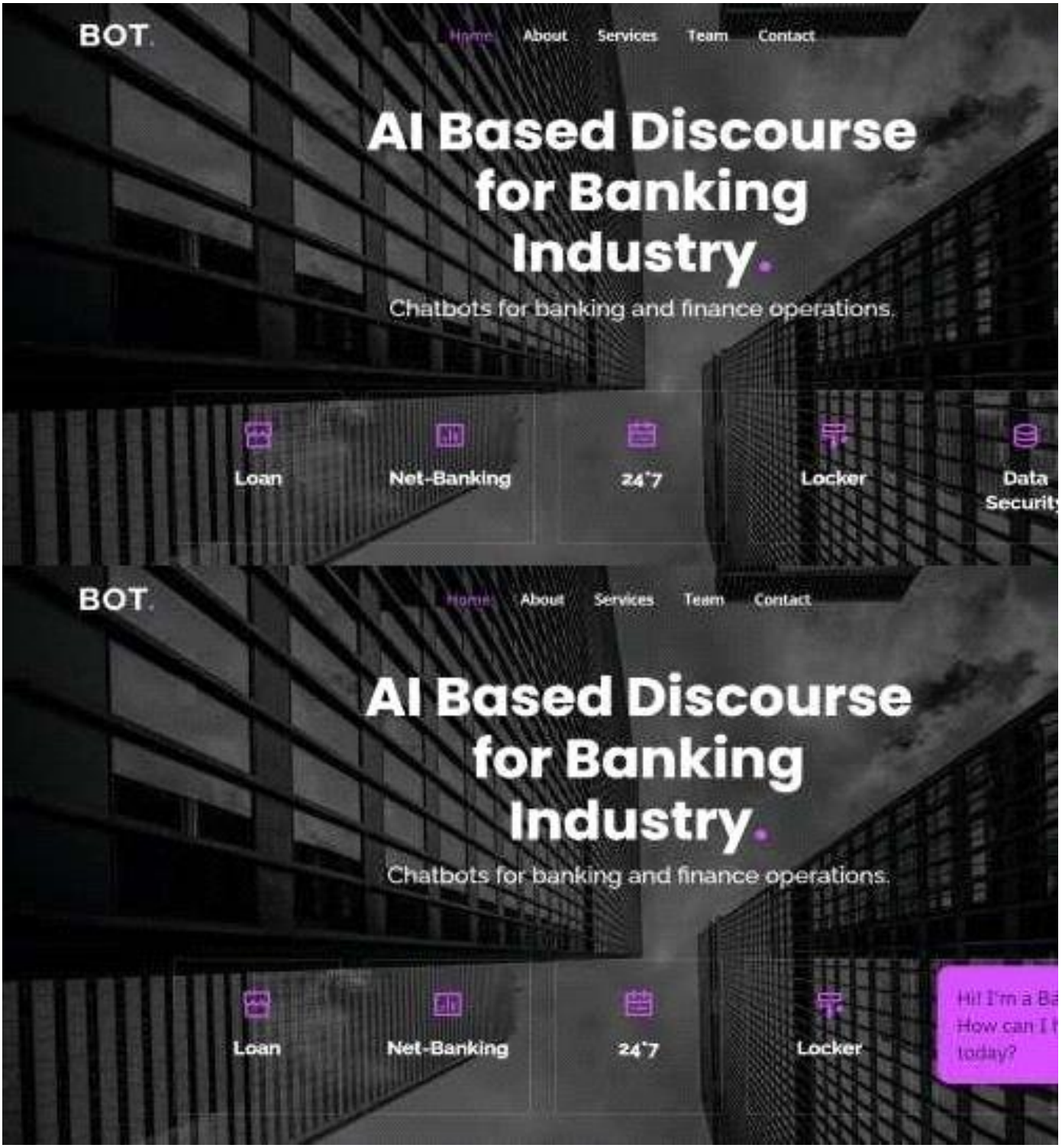
- Copy that localhost URL and open that URL in the browser. Itdoes navigate me to where you can view your web page.

Then it will run on localhost:5000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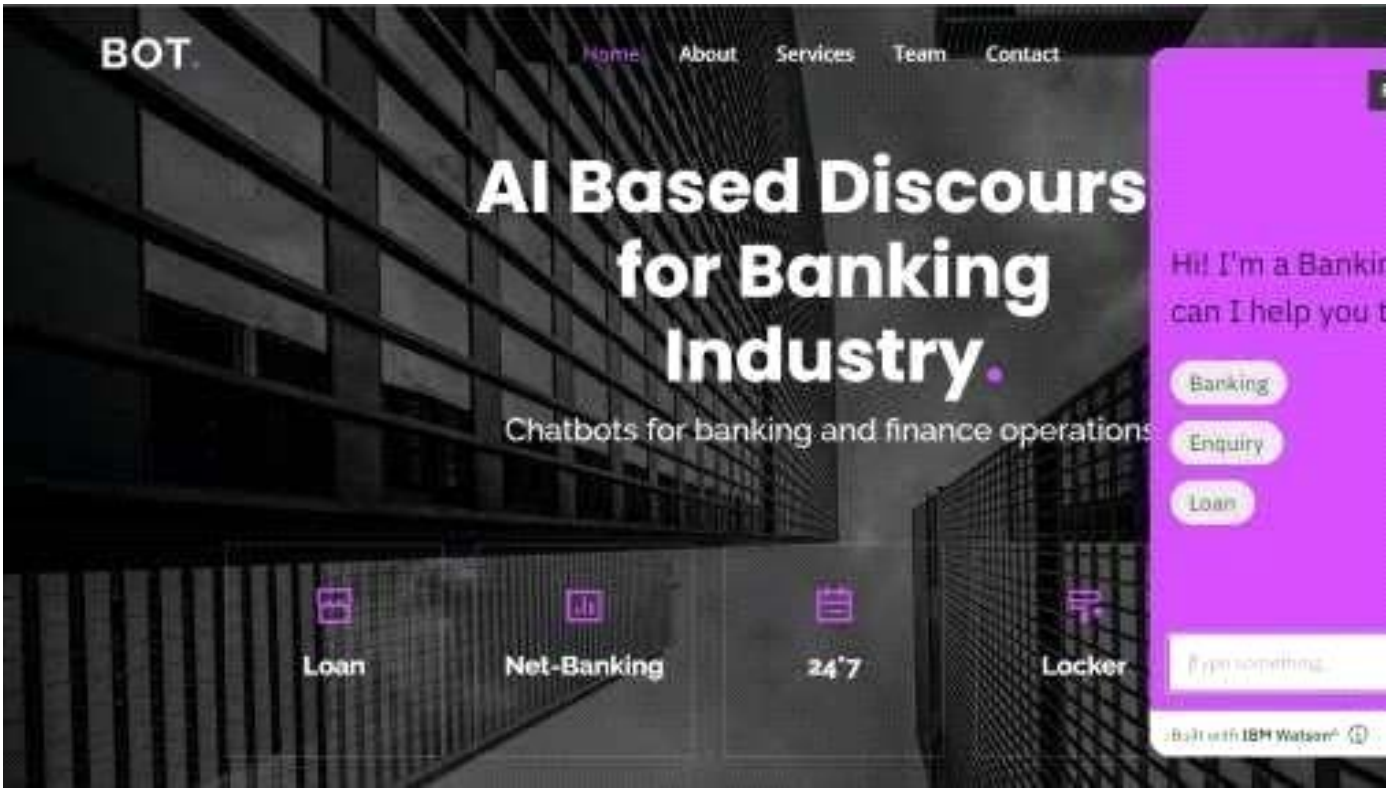
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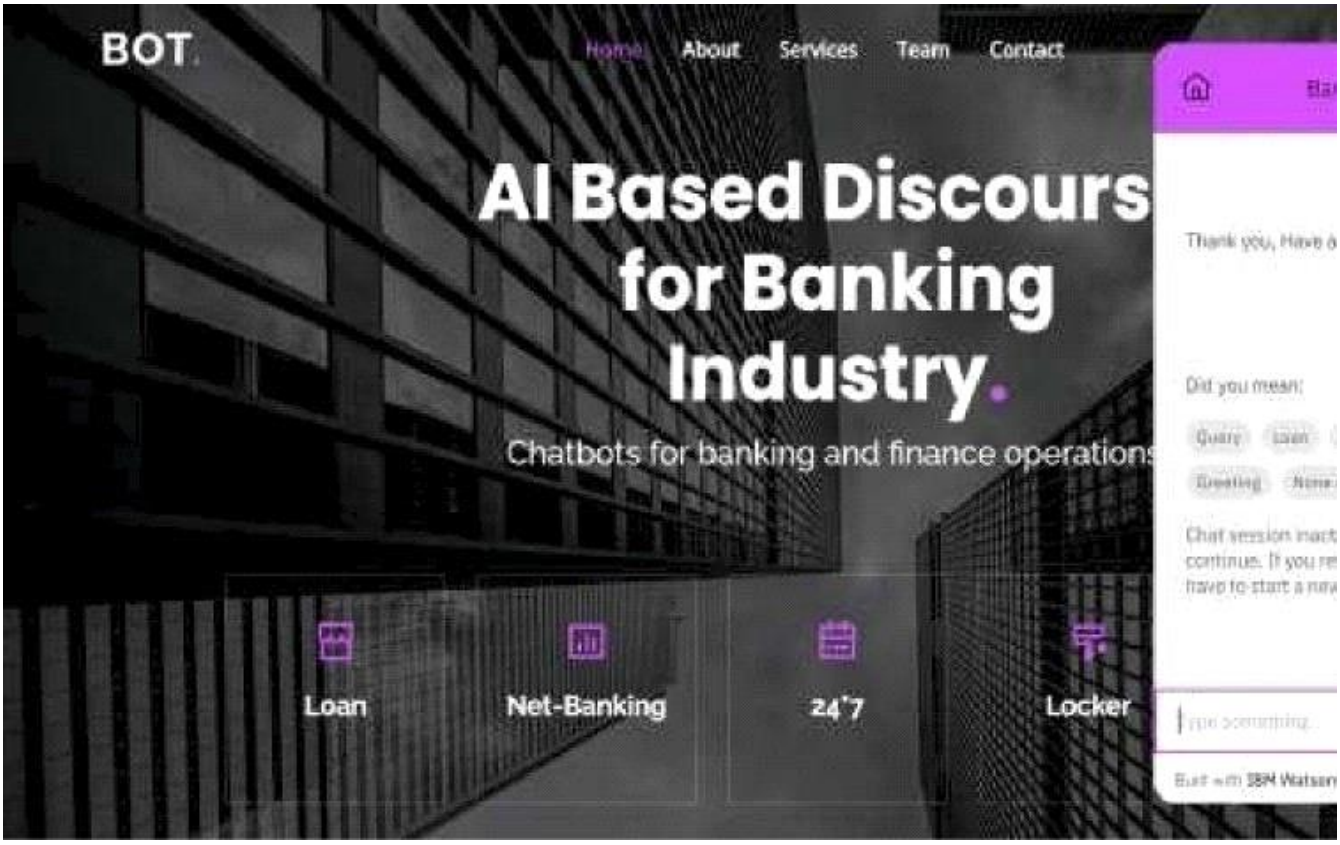
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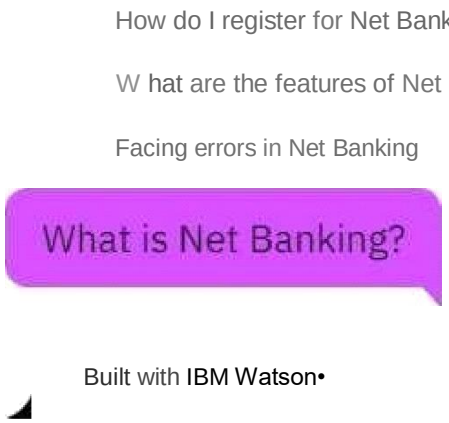
What queries do you have regarding Net banking?

What is Net Banking?



PREVIEW OF CHATBOT:

https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroun dImage URL=https%3A%2F%2Fus-south.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx- 23571e7e- fdd2-47af-b02a-45f7c14411ae%3A%3A6ffbfbc1-64a0-4bb7-925c-e0f76ece7593&integrationID=d365db8b-9408-418f-a61b-e18a5f564312&region=us-south&serviceInstanceID=23571e7e-fdd2- 47af-b02a-45f7c14411ae

Source code is attached in Final Deliverables.

Note: No code for this project. So, I attached the screenshot and step to build it.