

Project Development Phase

Delivery of Sprint – 4

Date	09 – Nov - 2022
Team ID	PNT2022TMID22390
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 an user interface.

In the flask application, users will interact with the chat bot, 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. 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('/', methods= ['GET','POST'])
def Chatbot():
    return render_template('Chatbot.html')
```

Main Function

This is used to run the application in 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 and then it shows http://127.0.0.1:5500/Chatbot.html](http://127.0.0.1:5500/Chatbot.html)
6. It launches the application integrated with IBM Watson Assistant.

```
C:\WINDOWS\system32\cmd. x + v
Requirement already satisfied: flask in c:\users\sanka\appdata\local\programs\python\python311\lib\site-packages (2.2.2)Requirement already satisfied: Werkzeug<=2.2.2 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

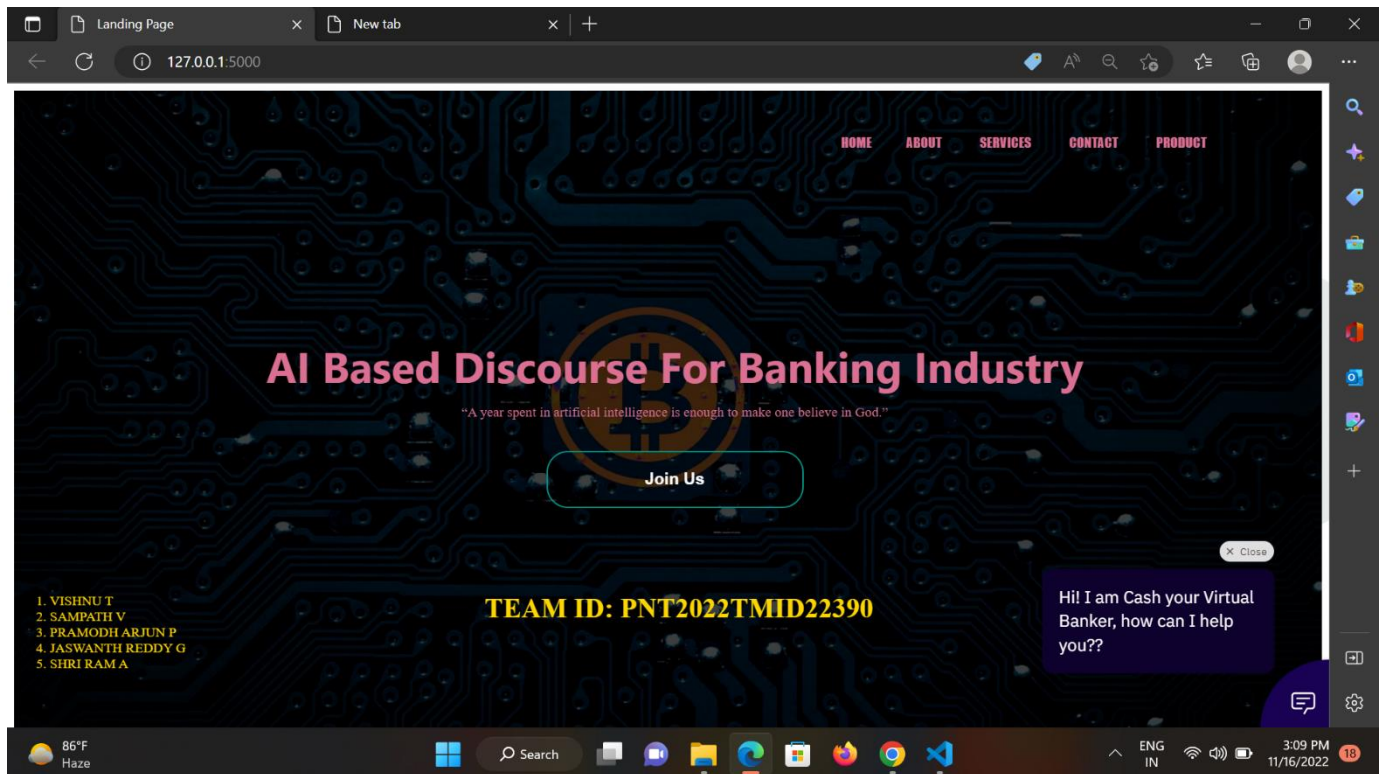
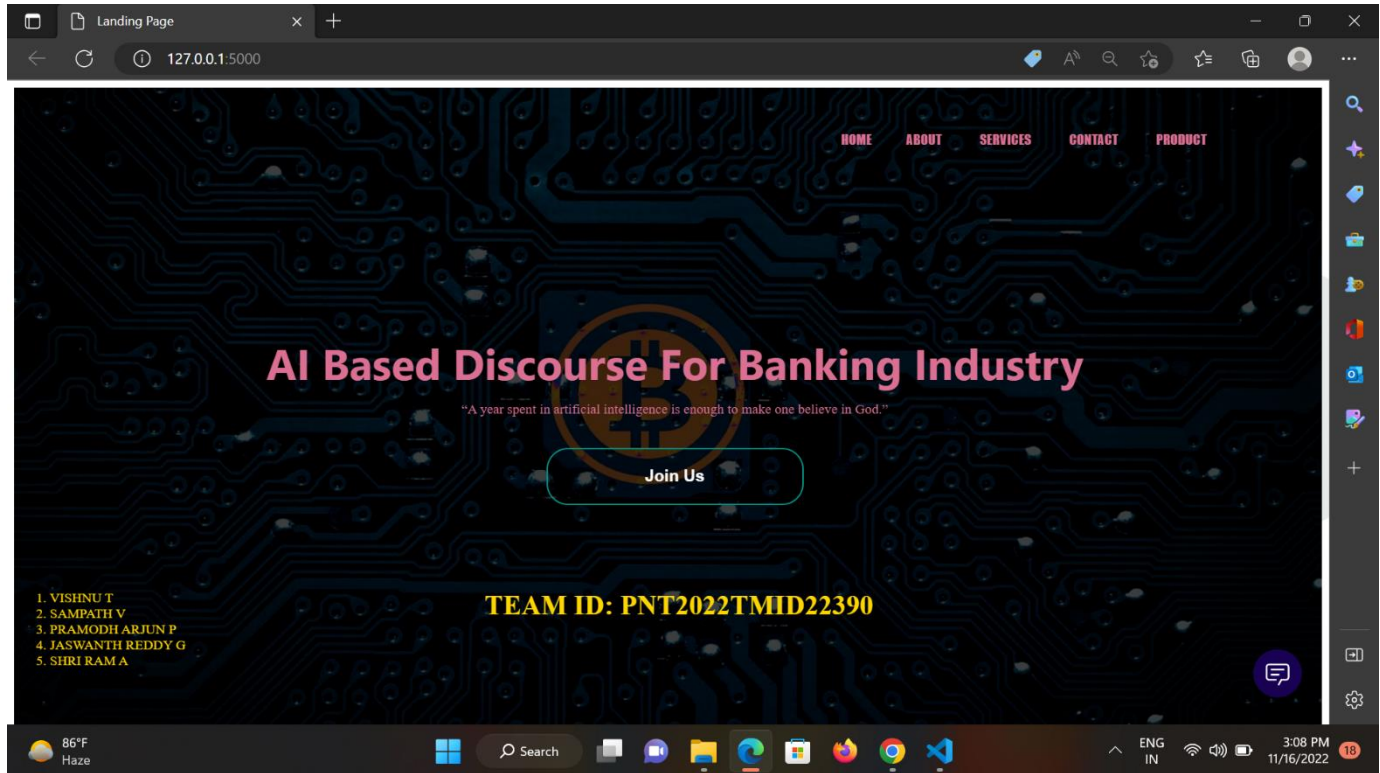
C:\Users\sanka>python.exe -m pip install --upgrade pip
Requirement already satisfied: pip in c:\users\sanka\appdata\local\programs\python\python311\lib\site-packages (22.3)
Collecting pip
  Downloading pip-22.3.1-py3-none-any.whl (2.1 MB)
    2.1/2.1 MB 97.9 kB/s eta 0:00:00
Installing collected packages: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

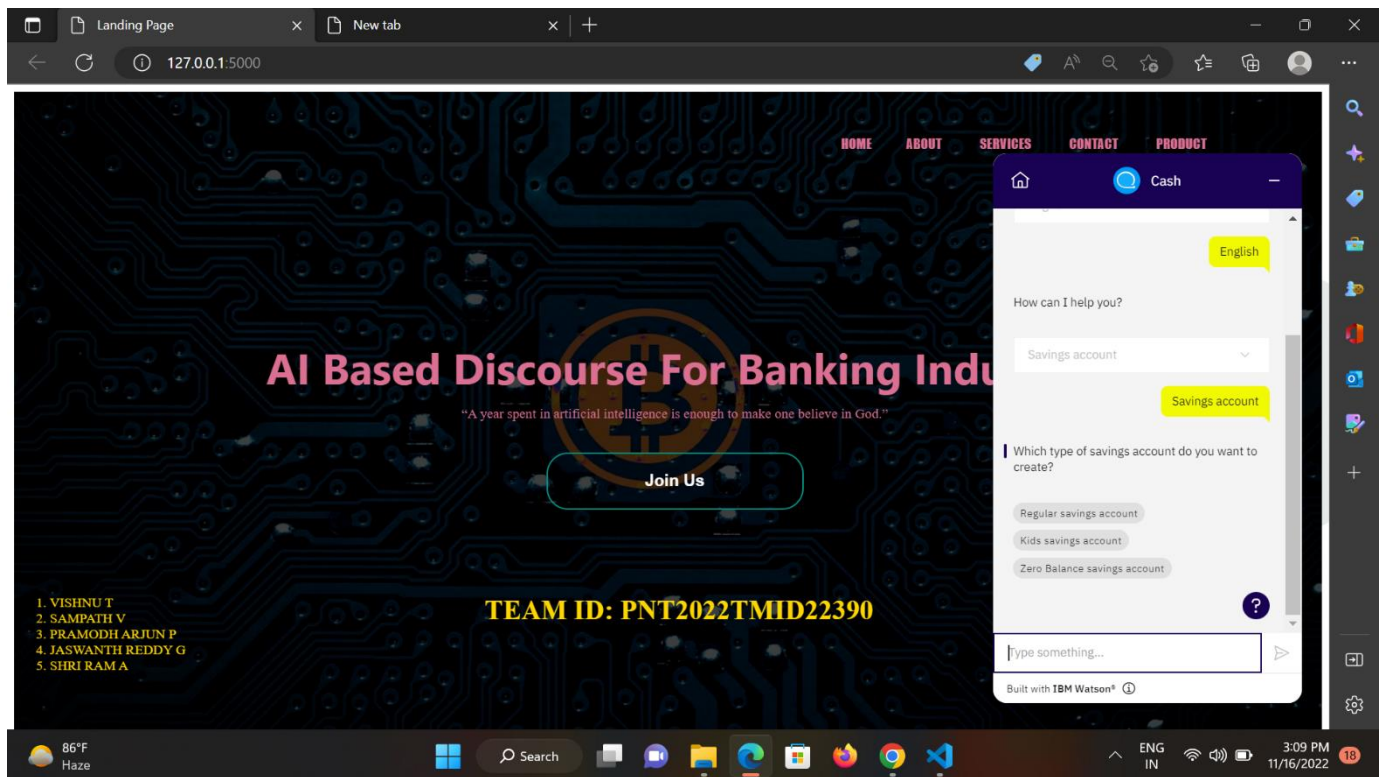
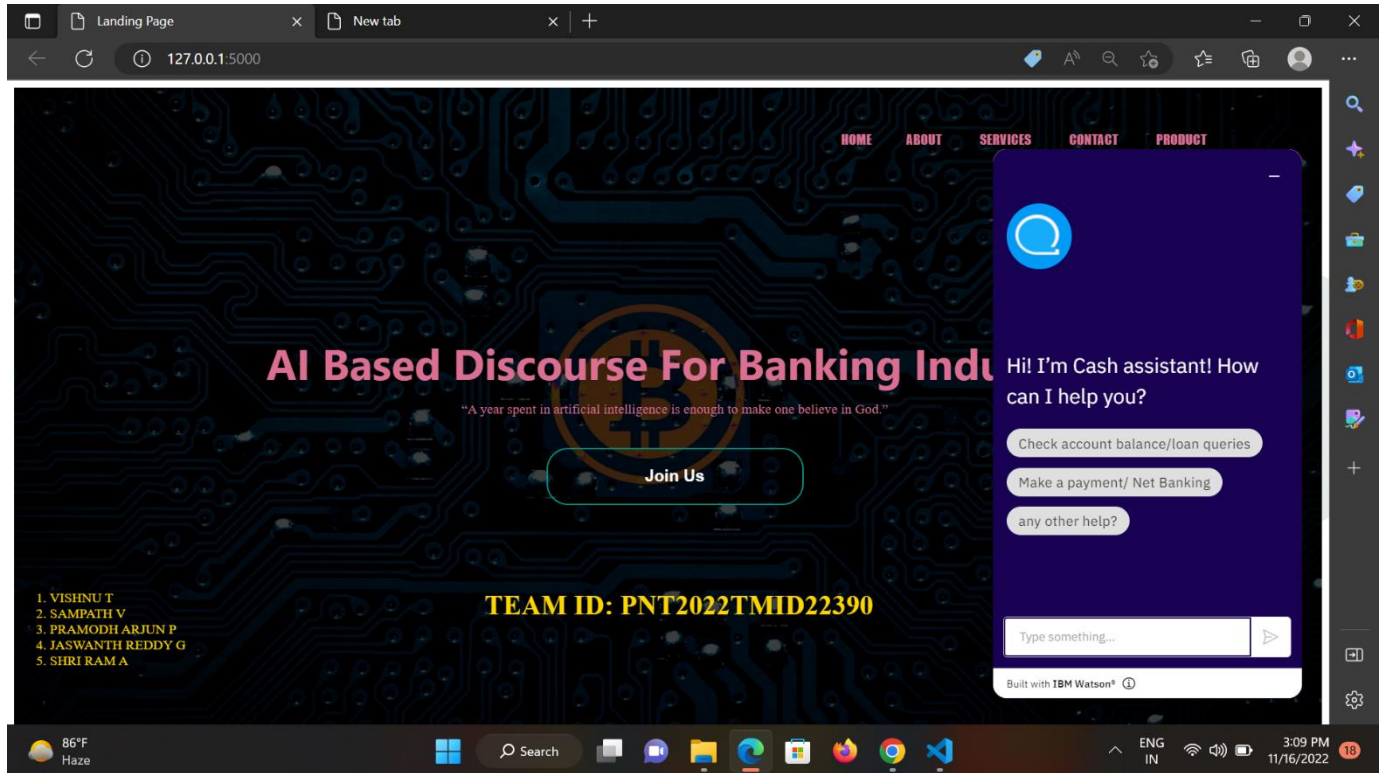
C:\Users\sanka>
```

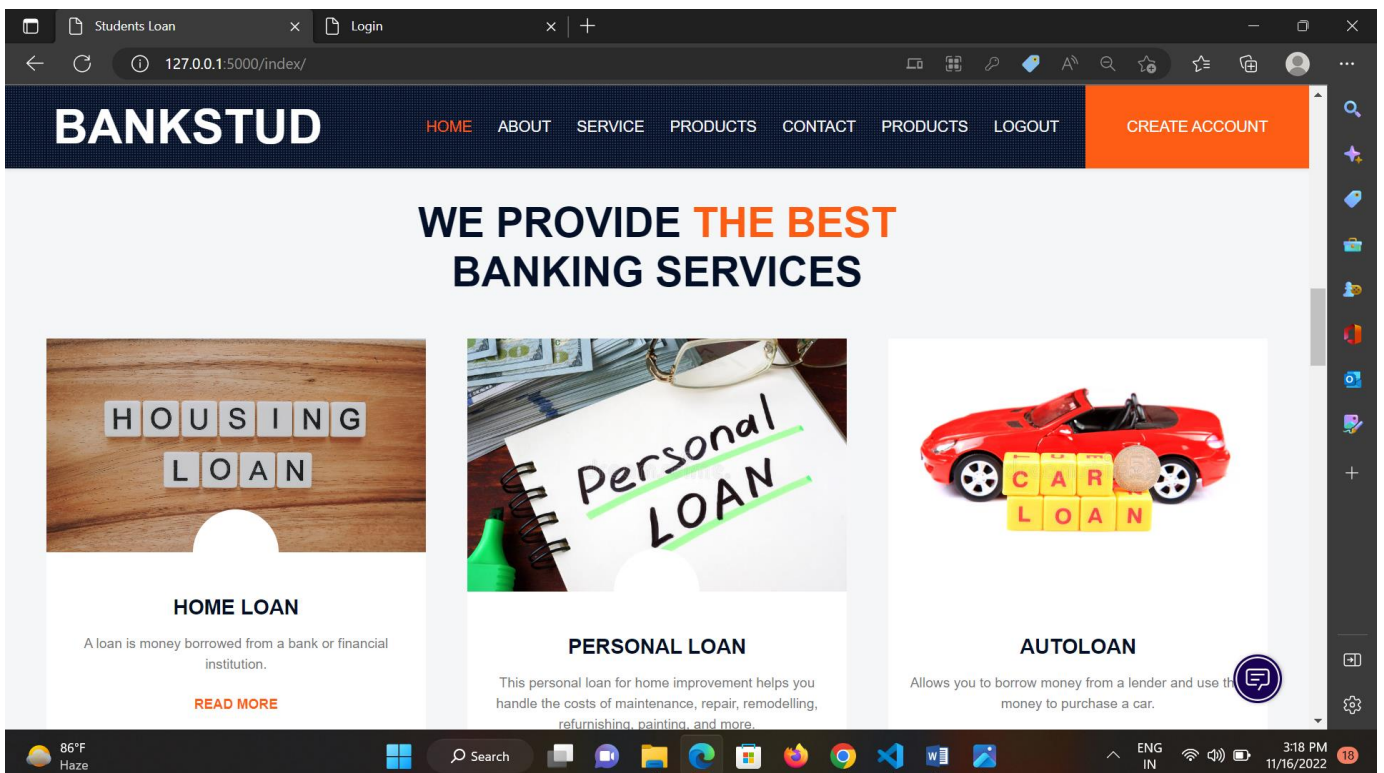
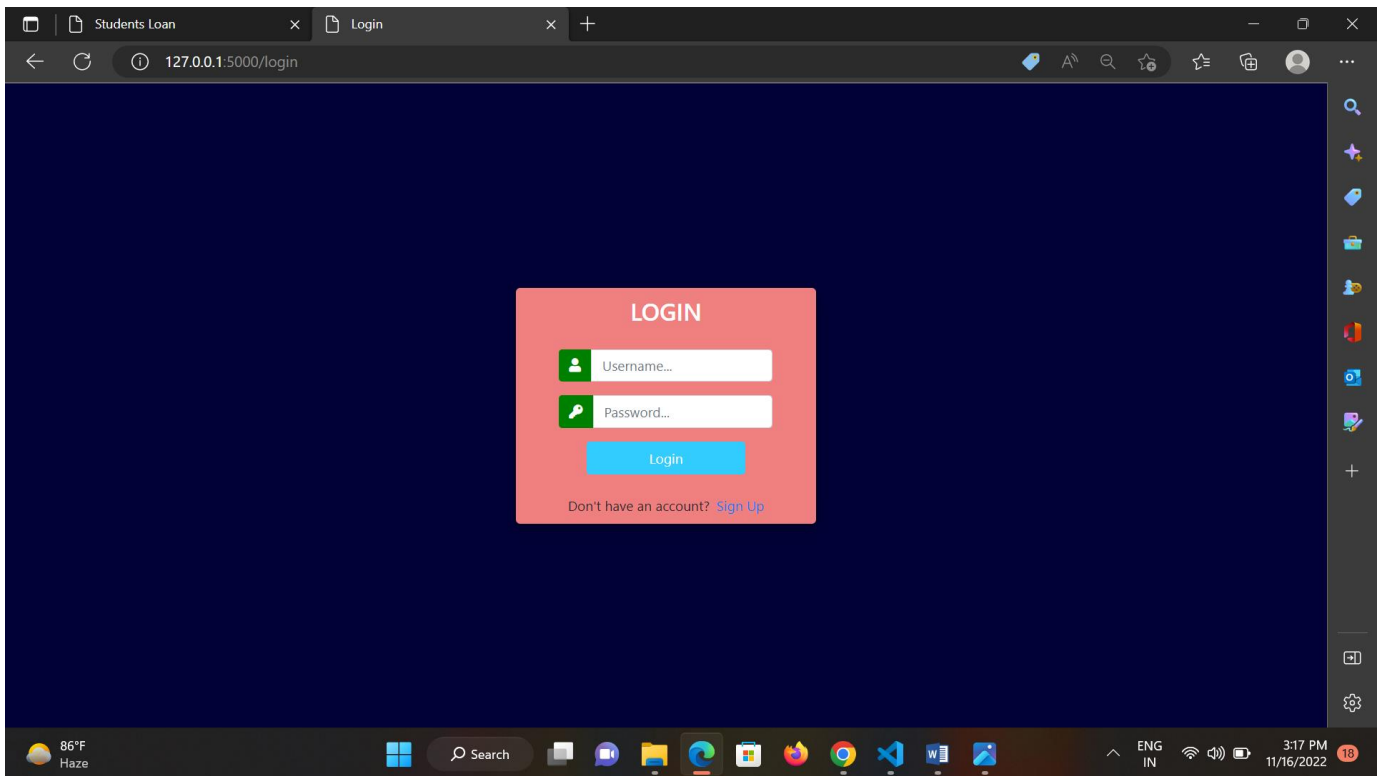
```
File Edit Selection View Go Run Terminal Help
app.py - Visual Studio Code

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('/', methods = ['GET','POST'])
6
7 def Chatbot():
8     return render_template('Chatbot.html')
9
10 if __name__ == '__main__':
11     app.run()
```







Students Loan

Login


127.0.0.1:5000/index/

BANKSTUD

HOMEABOUTSERVICEPRODUCTSCONTACTPRODUCTSLOGOUT

CREATE ACCOUNT

WE PROVIDE THE BEST BANKING SERVICES




HOUSING
LOAN

HOME LOAN

A loan is money borrowed from a bank or financial institution.

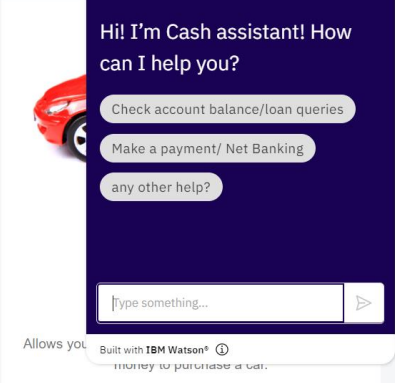
READ MORE



Personal
LOAN

PERSONAL LOAN

This personal loan for home improvement helps you handle the costs of maintenance, repair, remodelling, refurbishing, painting, and more.



Hi! I'm Cash assistant! How can I help you?

Check account balance/loan queries

Make a payment/ Net Banking

any other help?

Allows you Built with IBM Watson® money to purchase a car.

86°F Haze

Search

ENG IN

3:18 PM 11/16/2022


HOME LOAN

A loan is money borrowed from a bank or financial institution.

[READ MORE](#)

PERSONAL LOAN

This personal loan for home improvement helps you handle the costs of maintenance, repair, remodelling, refurbishing, painting, and more.



Hi! I'm Cash assistant! How can I help you?

Check account balance/loan queries

Make a payment/ Net Banking

any other help?

Allows you Built with IBM Watson® money to purchase a car.

Preview of Chatbot:

<https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageUrl=https%3A%2F%2Fgb.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-2b994459-1a5a-45a0-8955-89a6fd927161%3A%3Afc3fa4be-9ce8-4c04-ade5-6b159eba2610&integrationID=77c74feb-c1a6-4cac-85ff-d19401c2d534®ion=eu-gb&serviceInstanceID=2b994459-1a5a-45a0-8955-89a6fd927161>

Source code is attached in Final Deliverables.

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