Project Development Phase
Delivery of Sprint - 4

Date	04 November 2022
Team ID	PNT2022TMID31585
Project Name	AI based discourse for Banking Industry

Creating Assistant & Integrate With Flask Web Page

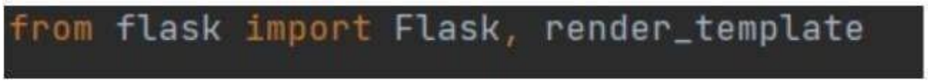
Let us build our flask application which will be running in our local browser as an user interface.

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

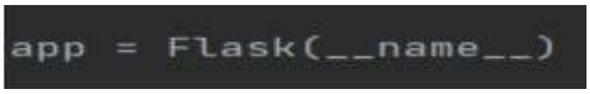
The first step is usually importing the libraries that will be needed in theprogram.



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

Importing the flask module into the project is mandatory. An object of theFlask class is our WSGI application. Flask constructor takes the name of thecurrent module (_name _).

2: Creating our flask application and loading

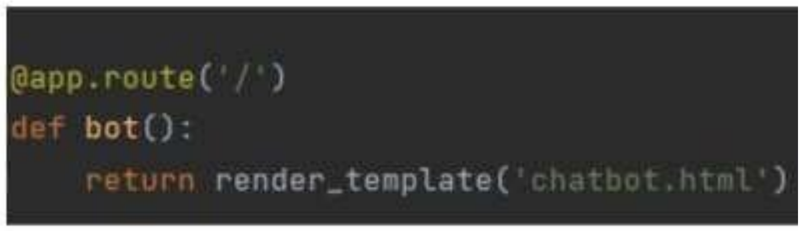


```
app = Flask(__name__)
```

3: Routing to the Html Page

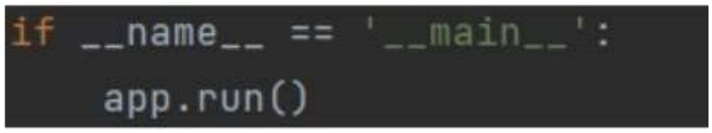
Here, the declared constructor is used to route to the HTML page createdearlier.

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 be rendered.



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

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



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

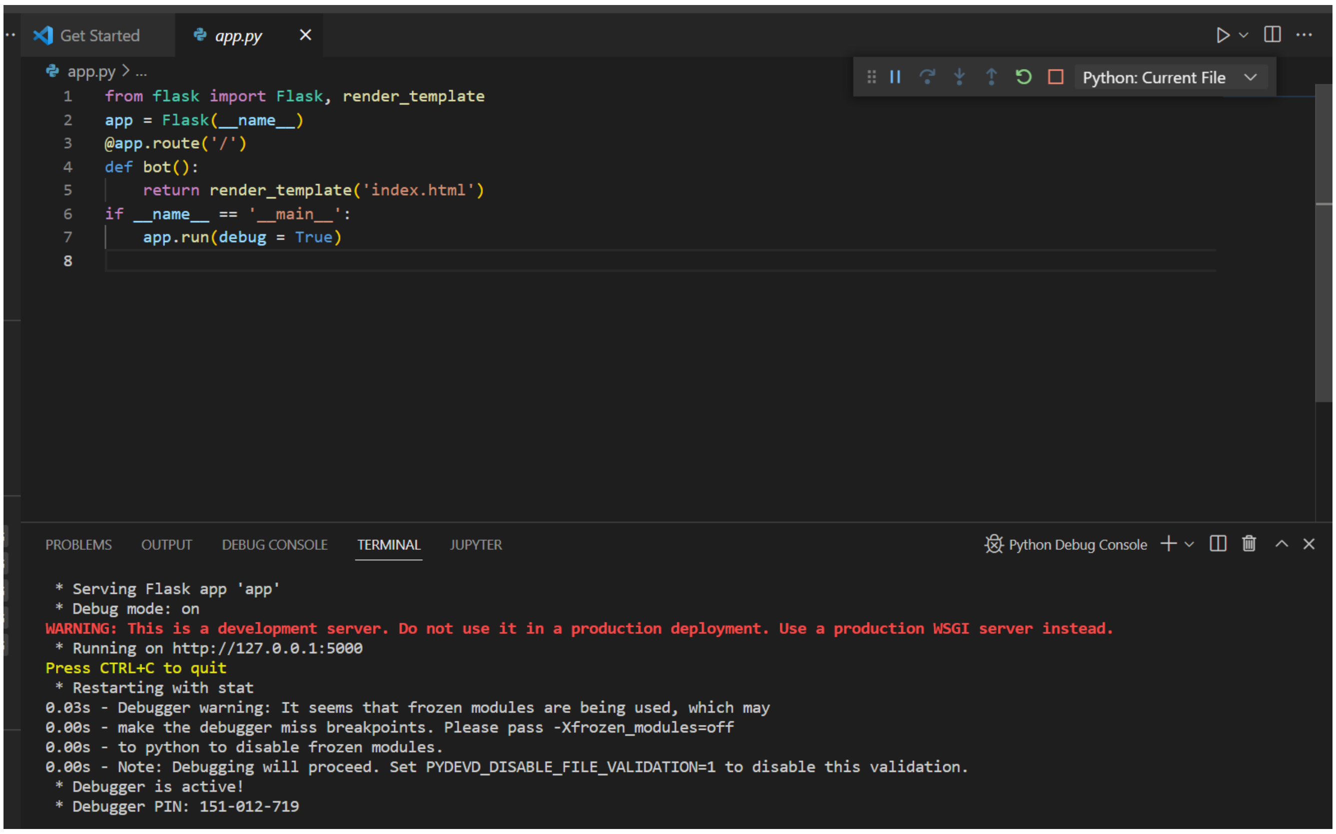
Building HTML Code

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.

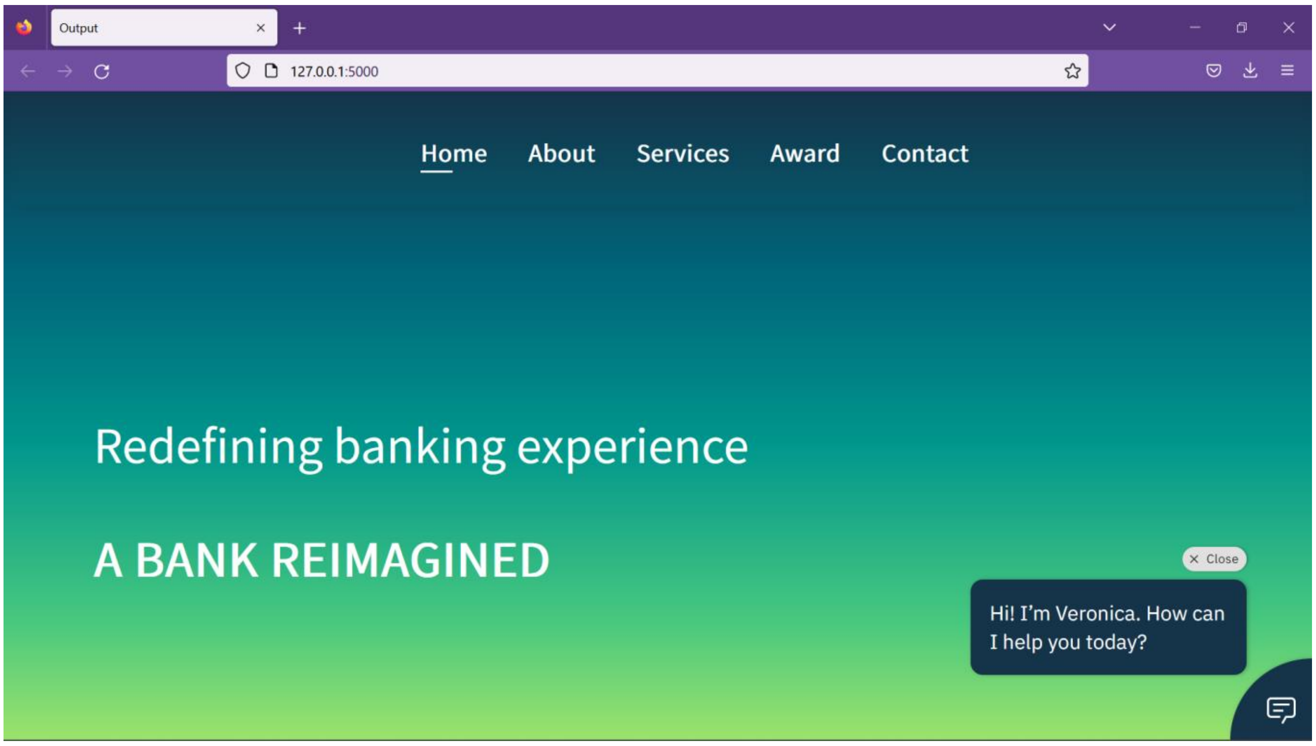
Run the application

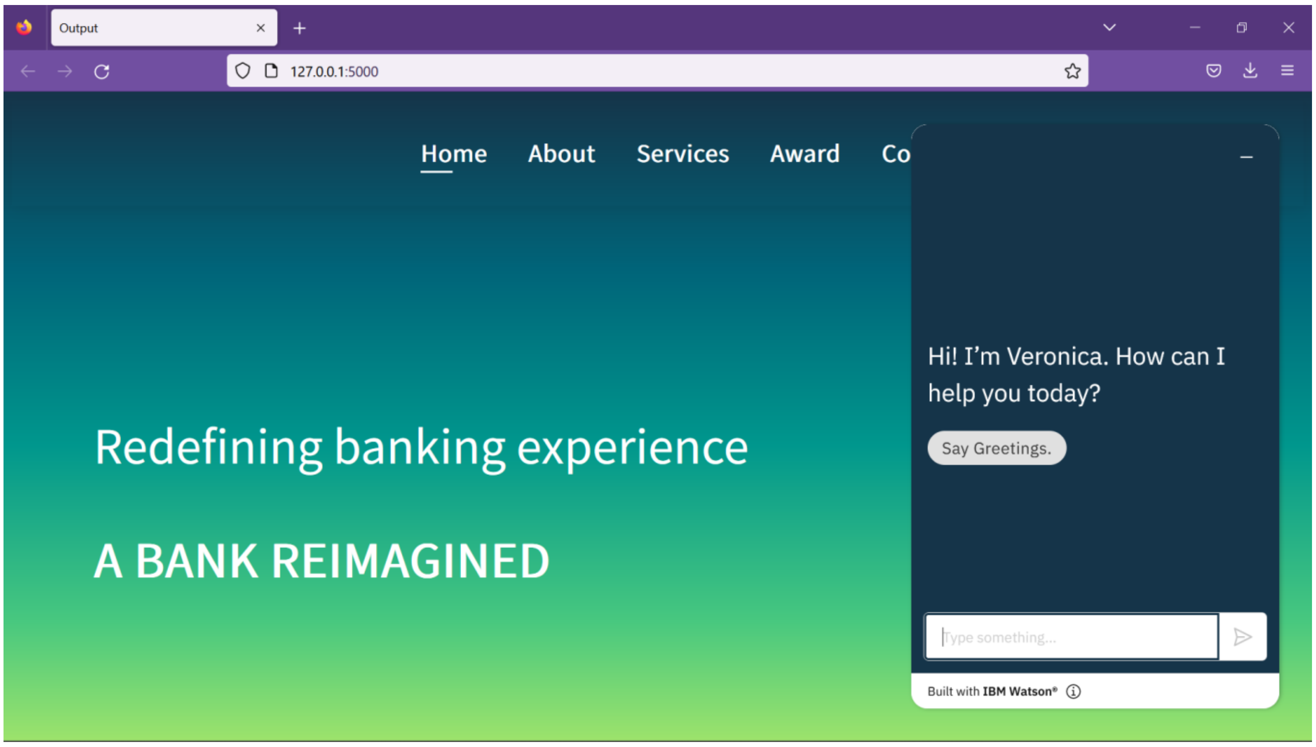
Open Visual studio code
Navigate to the folder where app.py resides.
Run the python code
Open a browser and type this URL http://127.0.0.1:5000/
It launches the application integrated with IBM Watson Assistant



```python
from flask import Flask, render_template
app = Flask(__name__)
@app.route('/')
def bot():
    return render_template('index.html')
if __name__ == '__main__':
    app.run(debug = True)
```

```
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
0.03s - Debugger warning: It seems that frozen modules are being used, which may
0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
0.00s - to python to disable frozen modules.
0.00s - Note: Debugging will proceed. Set PYDEVD_DISABLE_FILE_VALIDATION=1 to disable this validation.
 * Debugger is active!
 * Debugger PIN: 151-012-719
```

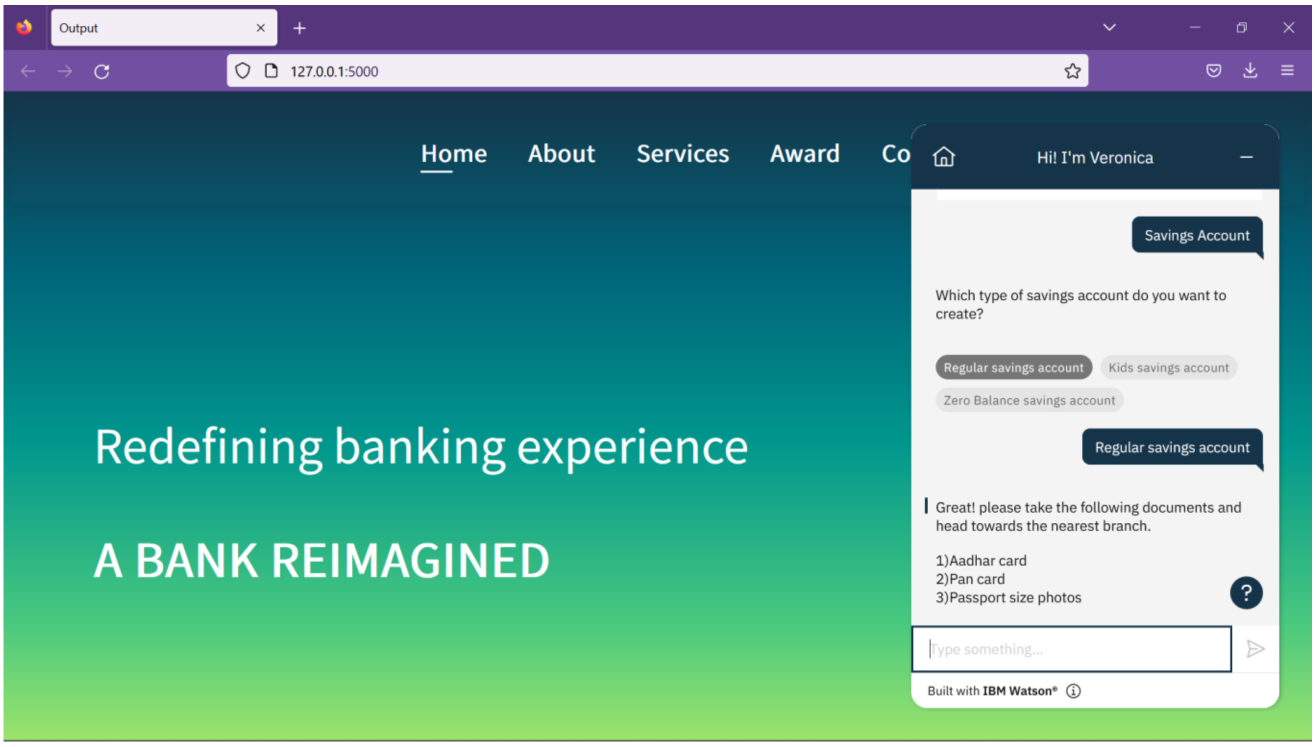

Output
127.0.0.1:5000
Home
About
Services
Award
Contact
Redefining banking experience
A BANK REIMAGINED
Close
Hi! I'm Veronica. How can I help you today?



Redefining banking experience

A BANK REIMAGINED

Hi! I'm Veronica. How can I help you today?



Redefining banking experience

A BANK REIMAGINED

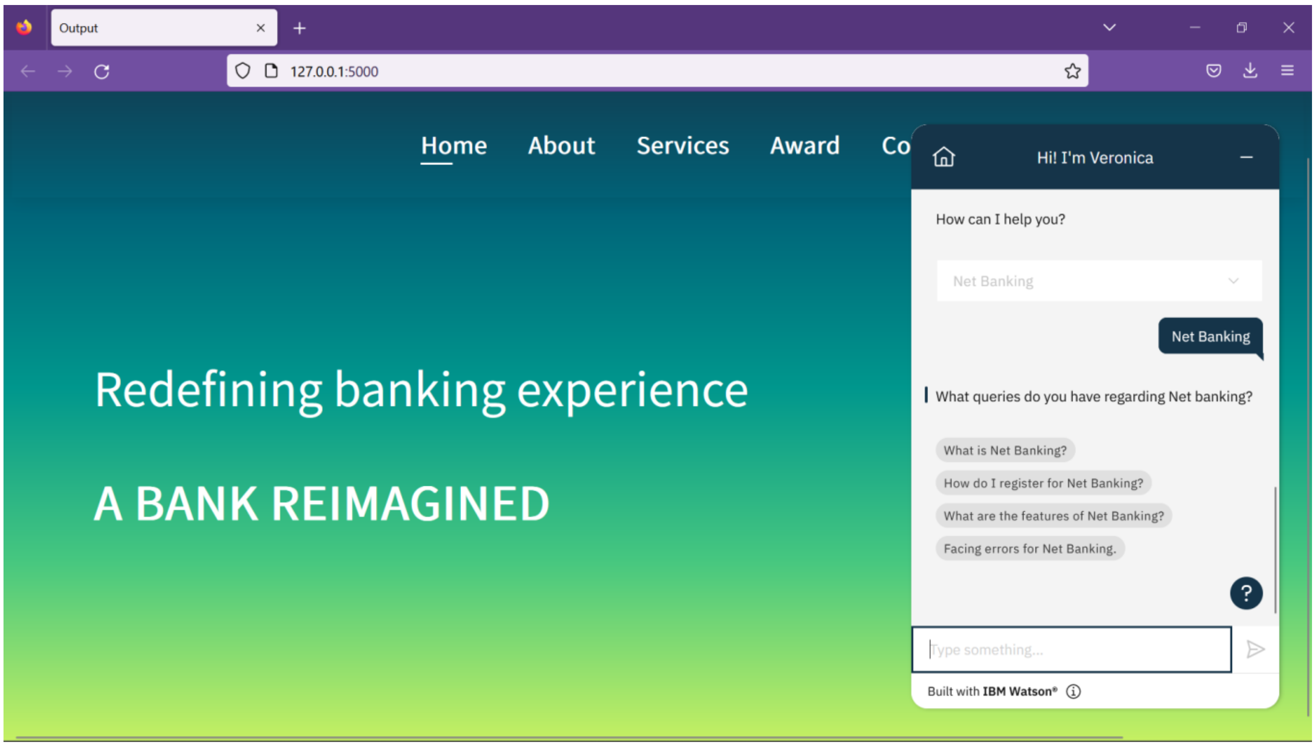
Savings Account

Which type of savings account do you want to create?

Regular savings account

Great! please take the following documents and head towards the nearest branch.

1)Aadhar card
2)Pan card
3)Passport size photos



Redefining banking experience

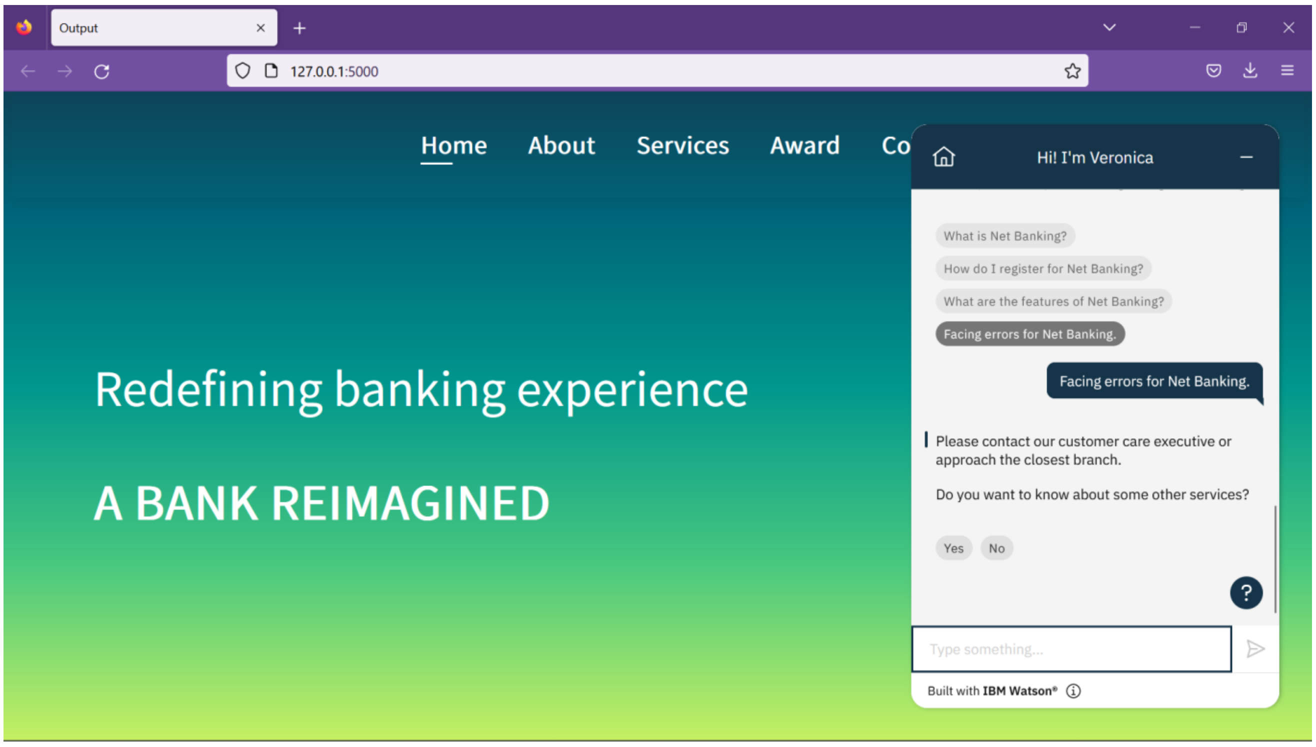
A BANK REIMAGINED

How can I help you?

Net Banking

What queries do you have regarding Net banking?

What is Net Banking?
How do I register for Net Banking?
What are the features of Net Banking?
Facing errors for Net Banking.



Redefining banking experience

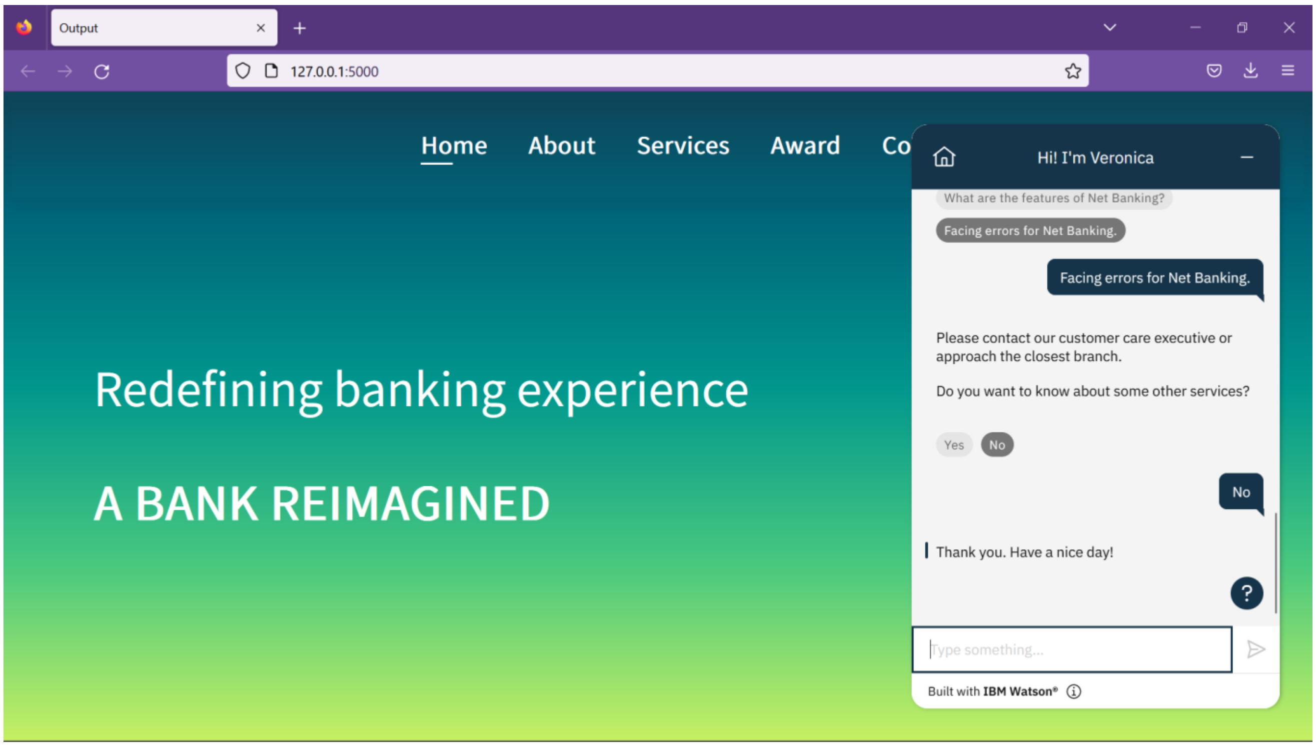
A BANK REIMAGINED

What is Net Banking?
How do I register for Net Banking?
What are the features of Net Banking?
Facing errors for Net Banking.

Facing errors for Net Banking.

Please contact our customer care executive or approach the closest branch.

Do you want to know about some other services?



What are the features of Net Banking?

Facing errors for Net Banking.

Facing errors for Net Banking.

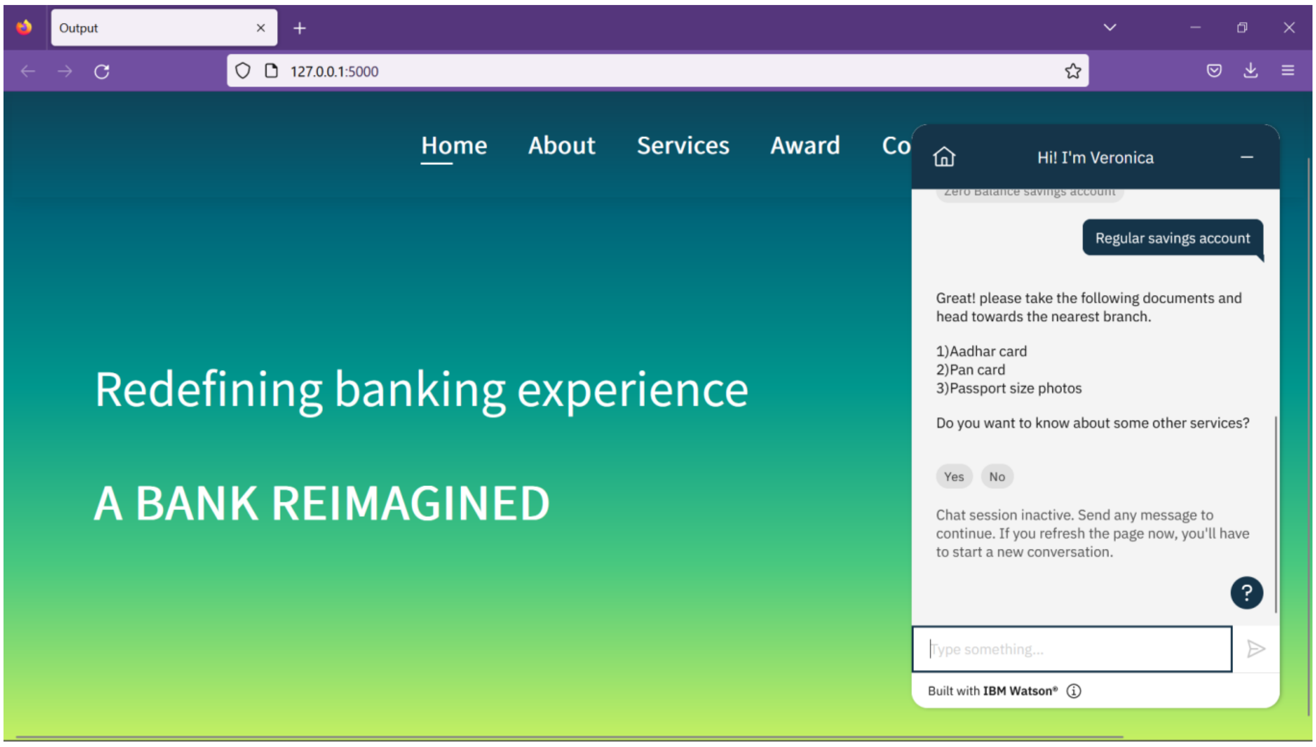
Please contact our customer care executive or approach the closest branch.

Do you want to know about some other services?

Yes [✓ No]

No

Thank you. Have a nice day!



Zero Balance savings account

Regular savings account

Great! please take the following documents and head towards the nearest branch.

1)Aadhar card
2)Pan card
3)Passport size photos

Do you want to know about some other services?

Yes No

Chat session inactive. Send any message to continue. If you refresh the page now, you'll have to start a new conversation.