

## Project Development Phase

### Delivery of Sprint - 4

Date	04 November 2022
Team ID	PNT2022TMID18026
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 chat bot 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('/')  
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 WatsonAssistant.

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 Jupyter notebook (anaconda3)

Navigate to the folder where app.ipynb 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.

You are signed in as 15999 x Project/ x app - Jupyter Notebook x +

localhost8888/notebooks/Project/app.ipynb

Gmail YouTube Maps LinkedIn MSEC Enter User Credi...

jupyter app Last Checkpoint: 27/09/2022 (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
In [ ]: 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, use_reloader=False)

* Serving Flask app "__main__" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

In [ ]:

In [ ]:

In [ ]:

09:48 ENG 02-11-2022

IBM Watson Assistant

New Tab

us-south.assistant.watson.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Aconversation%3Aus-south%3Aa%2F3136784660c84e3195c...

YouTube Enter User Credi... erp HackerRank Swayam NPTEL SmartIntenz LinkedIn Watson Assistant

IBM Watson Assistant Lite Upgrade Veronica

### Actions

Actions

Created by you

Set by assistant

Variables

Created by you

Set by assistant

Set by integration

Saved responses

Name	Last edited
Thanks	22 days ago
Loan	22 days ago
Index	22 days ago
End	22 days ago
Query	22 days ago
Savings	2 days ago
Current	22 days ago
What can you do?	22 days ago

Items per page: 50 Showing 1-14 of 14 actions

Preview

Greet customer [default]

Welcome, how can I assist you?

hi

Greeting recognized

Good to see you.

Index recognized

How can I help you?

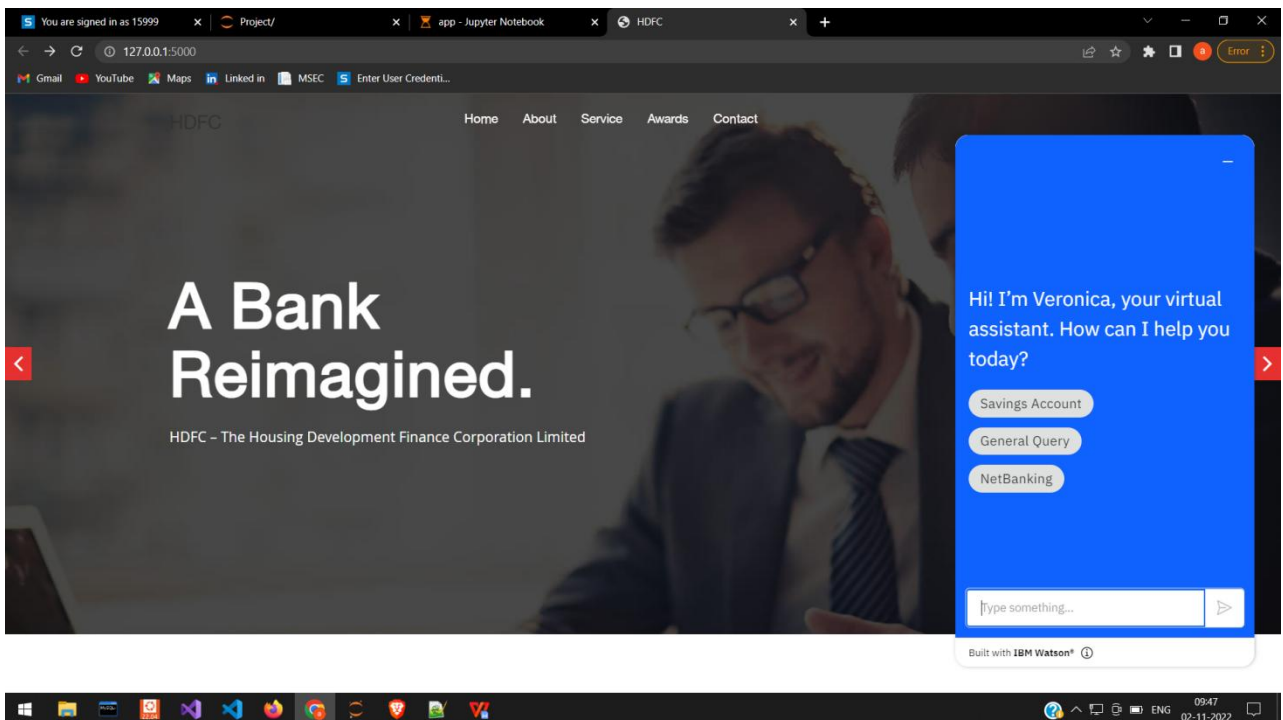
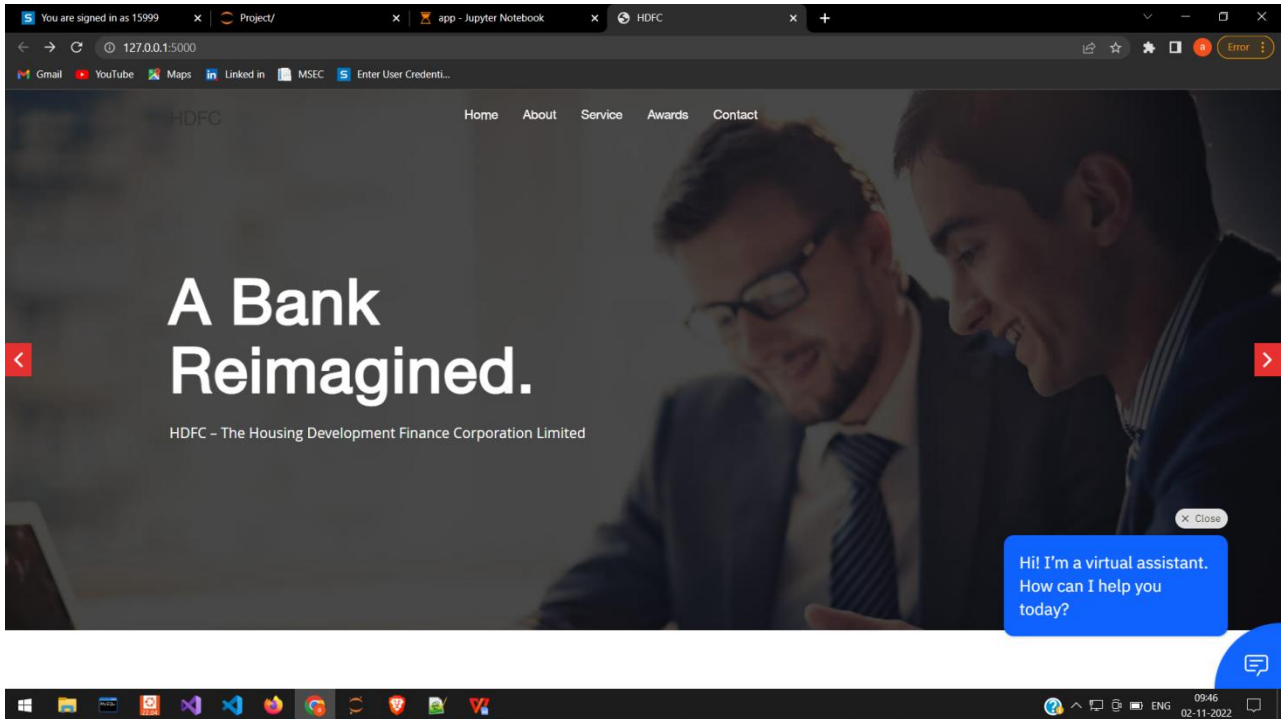
Loan enquiry

Loan enquiry

Loan recognized

Use the up arrow for prior messages

14:29 ENG 02-11-2022



You are signed in as 15999

Project/

app - Jupyter Notebook

HDFC

127.0.0.1:5000

Gmail

YouTube

Maps

Linked in

MSEC

Enter User Credi...

HDFC

HomeAboutServiceAwardsContact

A Bank Reimagined.

HDFC – The Housing Development Finance Corporation Limited

Watson Assistant

Savings Account

Which type of savings account do you want to create ?

Regular savings Account Kids saving Account

Zero Balance saving 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

Would you like to learn more about our other services?

Type something...

Built with IBM Watson®

09:47

02-11-2022