Project Development Phase
Delivery of Sprint - 4

Date	09 November 2022
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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('/')
def bot():
    return render_template('chatbot.html')
```

Main Function

This is used to run the application in local host.

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

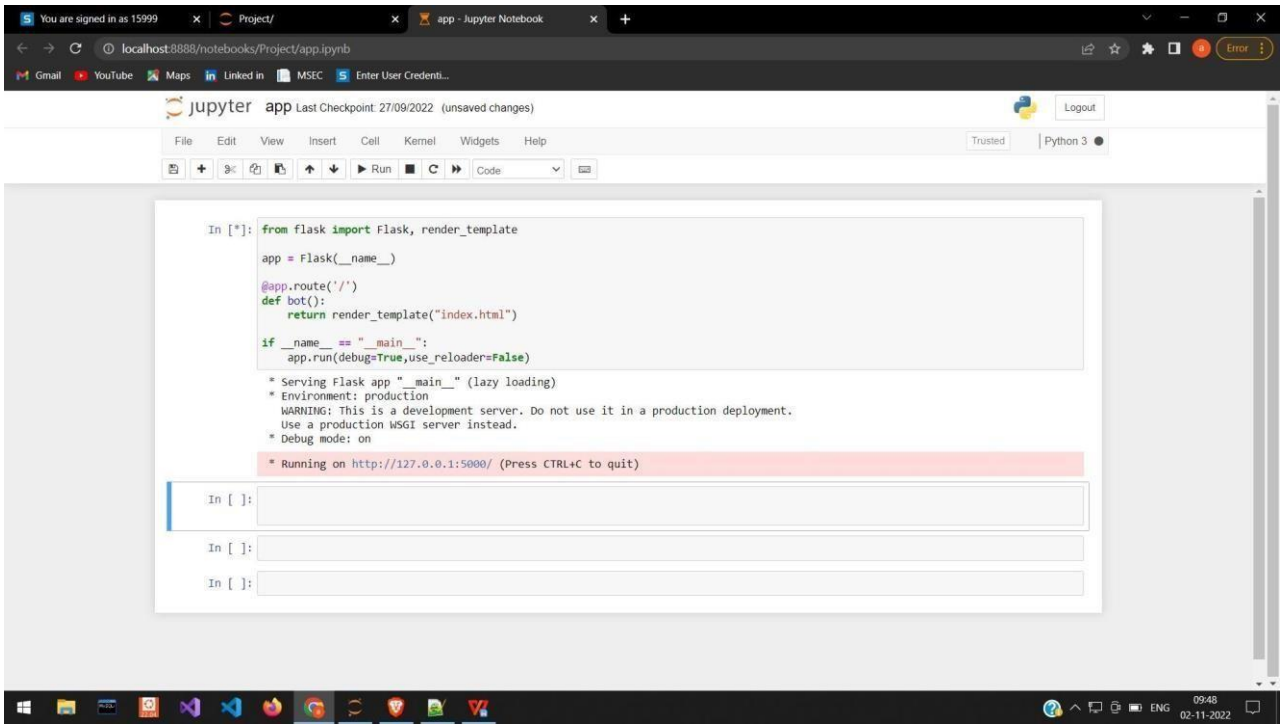
Building HTML Code

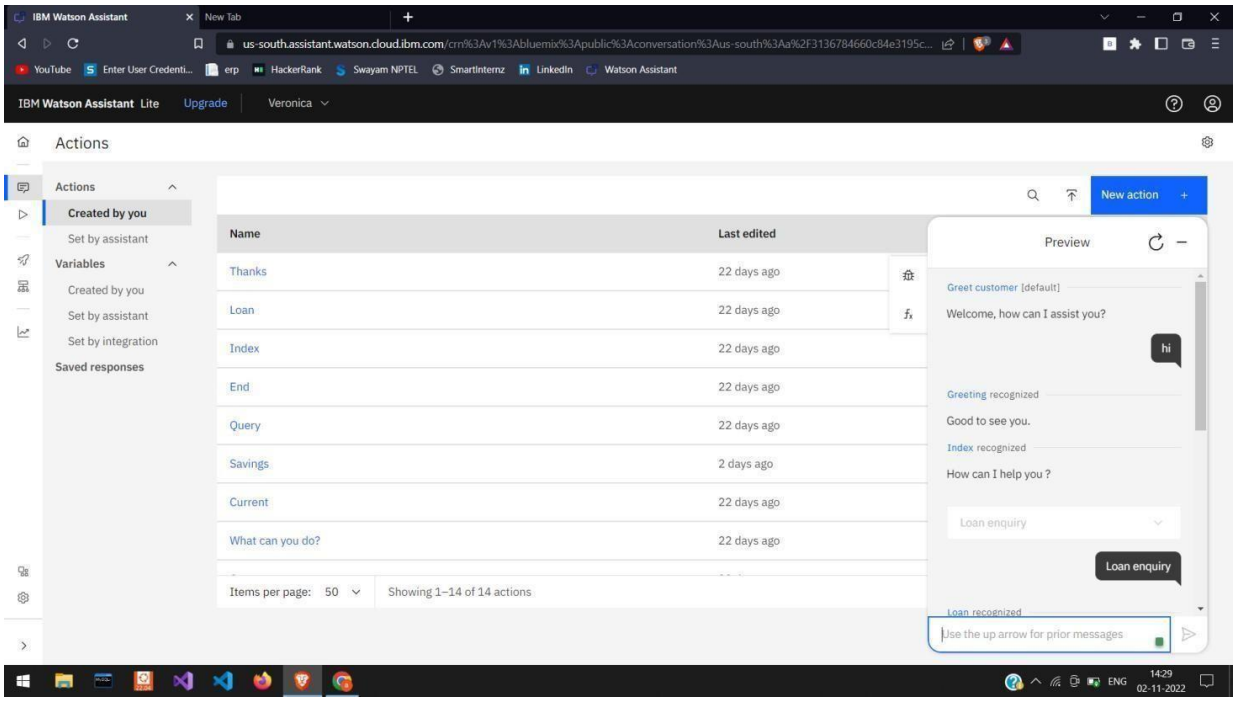
We have used HTML to create the front-end part of the web page.
Here, wehave created“index.html” displays the home page which gets integrated with WatsonAssistant.

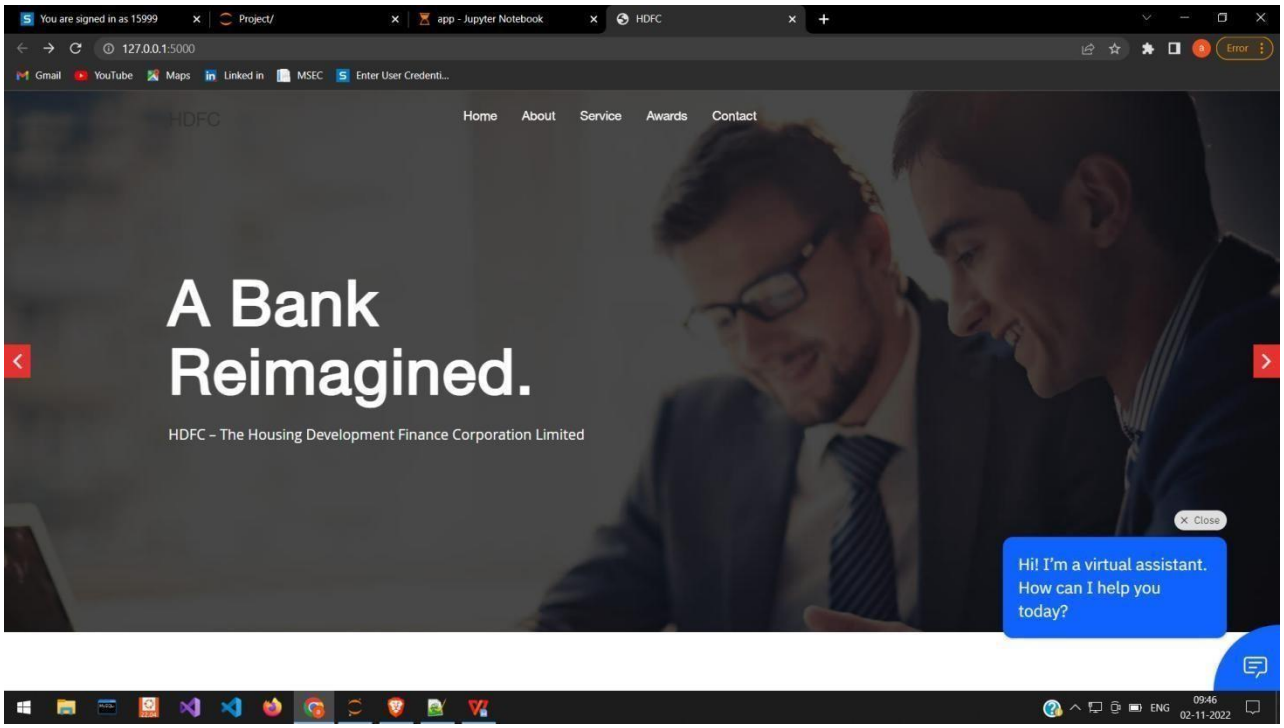
Auto-generated source code which contains the Integration ID of IBM Watson Assistants is copied and pasted inside the body tag.

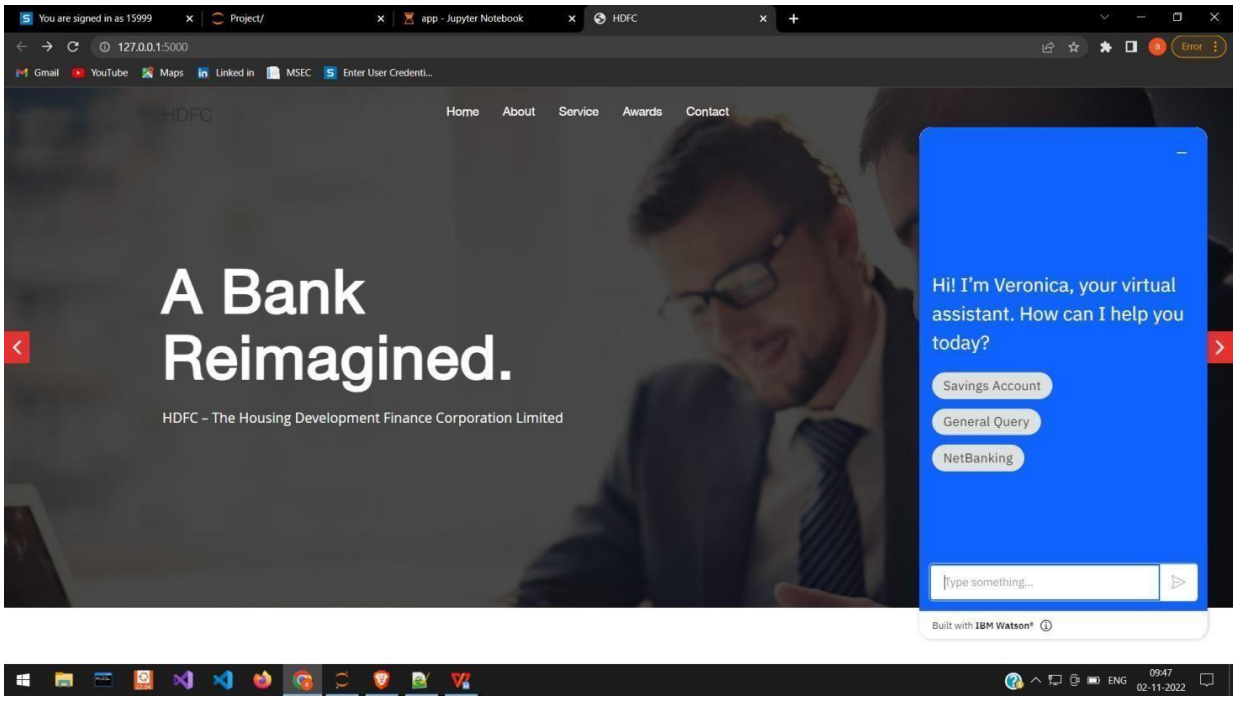
Run the application

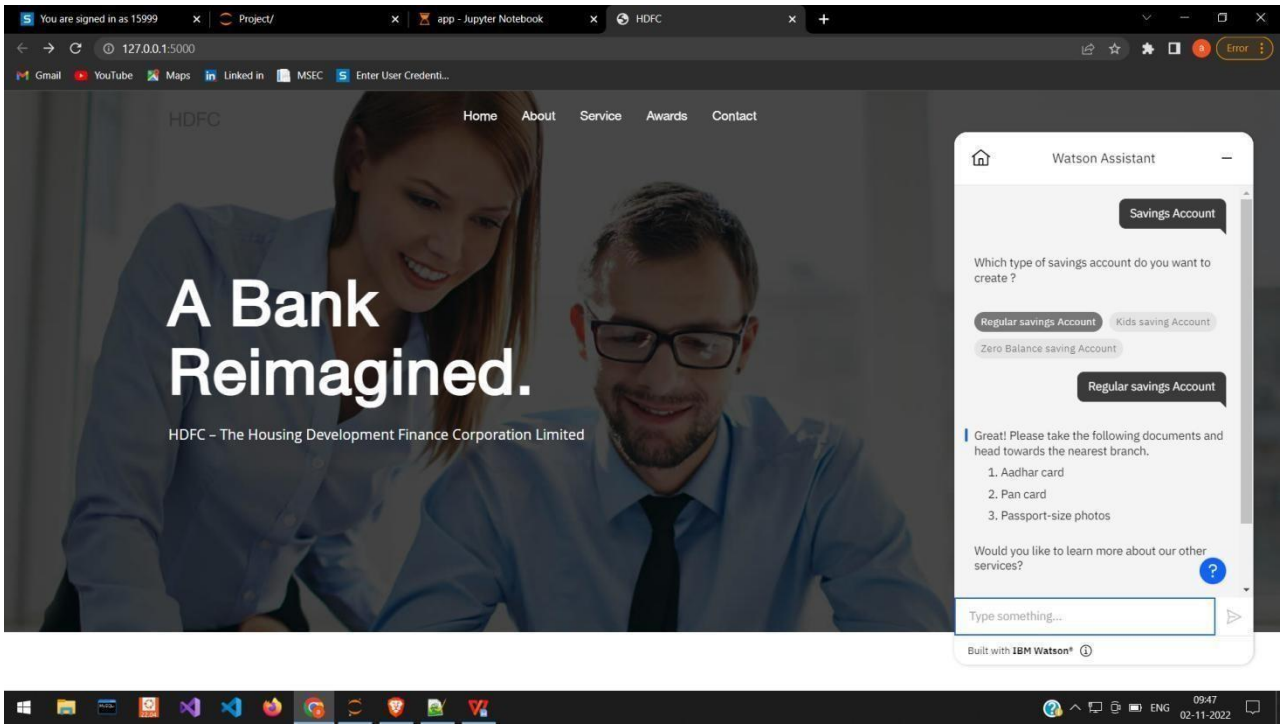
Open Jupyter notebook (anaconda3)
Navigate to the folder where app.ipynb resides.
Run the python code
Open a browser and type this URL http://127.0.0.1:5000/
It launches the application integrated with IBM Watson Assistant.


You are signed in as 15999
Project/
app - Jupyter Notebook
localhost:8888/notebooks/Project/app.ipynb
jupyter app Last Checkpoint: 27/09/2022 (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3
Run
Code
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 [ ]:
ENG
09:48
02-11-2022


IBM Watson Assistant
New Tab
us-south.assistant.watson.cloud.ibm.com
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
New action
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
ENG
14:29
02-11-2022


You are signed in as 15999
Project/
app - Jupyter Notebook
HDFC
127.0.0.1:5000
Error
Gmail
YouTube
Maps
Linked in
MSEC
Enter User Credenti...
HDFC
Home
About
Service
Awards
Contact
A Bank Reimagined.
HDFC – The Housing Development Finance Corporation Limited
Close
Hi! I'm a virtual assistant. How can I help you today?
ENG
09:46
02-11-2022


You are signed in as 15999
Project/
app - Jupyter Notebook
HDFC
127.0.0.1:5000
Error
Gmail
YouTube
Maps
Linked in
MSEC
Enter User Credenti...
HDFC
Home
About
Service
Awards
Contact
A Bank Reimagined.
HDFC – The Housing Development Finance Corporation Limited
Hi! I'm Veronica, your virtual assistant. How can I help you today?
Savings Account
General Query
NetBanking
Type something...
Built with IBM Watson®
ENG
09:47
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 Credenti...
HDFC
Home
About
Service
Awards
Contact
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®
ENG
09:47
02-11-2022