Project Development Phase
Delivery of Sprint - 6

Date	19 November 2022
Team ID	PNT2022TMID29862
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

1. The Bot should be able to guide a customer to create a bank account.
2. The Bot should be able to answer loan queries.
3. The Bot should be able to answer general banking queries.
4. The Bot should be able to answer queries regarding net banking.
5. 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 browser with a user interface.

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

Build Python Code

```
import email

from email import message

from importlib.resources import contents

from tkinter import S

from turtle import title

from flask import Flask, redirect,render_template, request,session, url_for, Flask

from pyexpat import model

from werkzeug.utils import secure_filename

import ibm_db
```

```
from flask_mail import Mail, Message

from markupsafe import escape

from flask import Flask,render_template,request

import requests

app = Flask(_name_)

app.secret_key = b'_5#y2L"F4Q8z\n\Xec]/'

mail = Mail(app)

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=1bbf73c5-d84a-4bb0-85b9-ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=32286;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=hzj88231;PWD=z8f4ZiZ171T0FvR1","","")

print(conn)

print("connection successful...")

@app.route('/', methods = ['GET','POST'])

def signup():

    return render_template('signup.html')

@app.route('/login', methods=['GET','POST'])

def login():

    return render_template('login.html')

@app.route('/index')

def index():

    return render_template('index.html')

@app.route('/account')

def account():

    return render_template('account.html')

@app.route('/aboutus')

def aboutus():

    return render_template('aboutus.html')
```

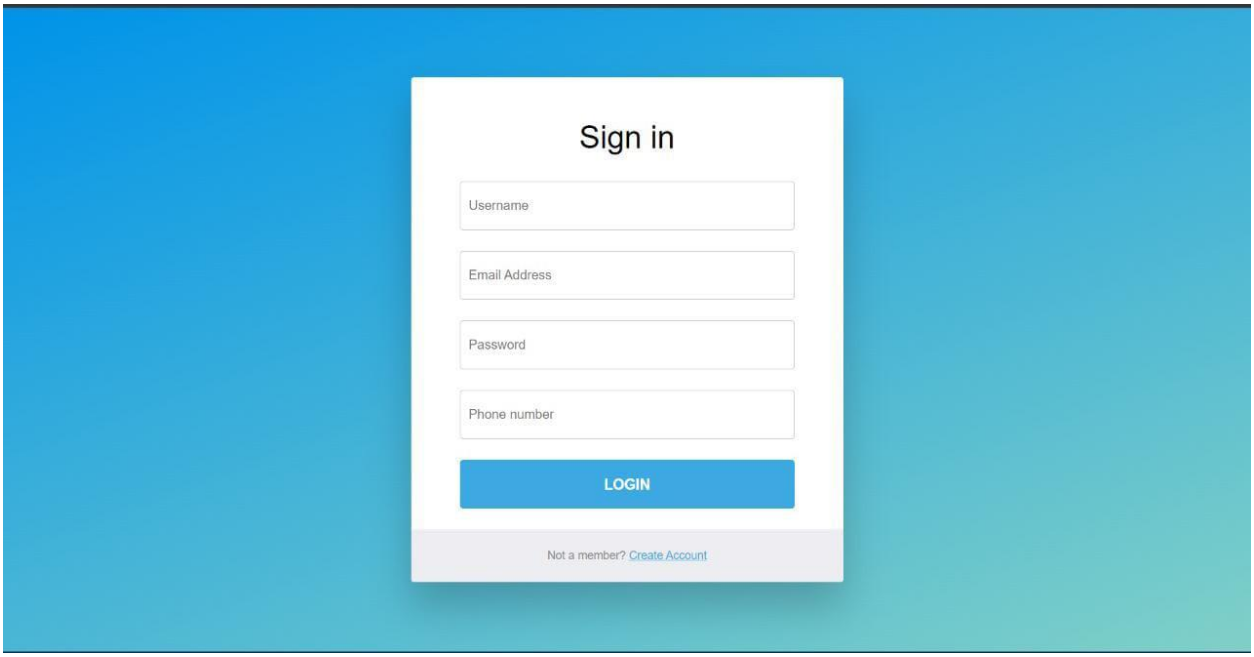
```
@app.route('/services')
def services():
    return render_template('services.html')
@app.route('/register', methods=['GET', 'POST'])
def register():
    if request.method == 'POST':
        uname = request.form['uname']
        mail = request.form['email']
        phone = request.form['phone']
        password = request.form['password']
        sql = "SELECT * FROM customer WHERE email=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,mail)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
    if account:
        return render_template('index.html', msg="You are already a member, please login using
your details....")
    else:
      insert_sql = "INSERT INTO customer VALUES (?,?,?,?)"
      prep_stmt = ibm_db.prepare(conn, insert_sql)
      ibm_db.bind_param(prep_stmt, 1, uname)
      ibm_db.bind_param(prep_stmt, 2, mail)
      ibm_db.bind_param(prep_stmt, 3, phone)
      ibm_db.bind_param(prep_stmt, 4, password)
      ibm_db.execute(prep_stmt)
    return render_template('login.html', msg="Student Data saved successfuly..")
```

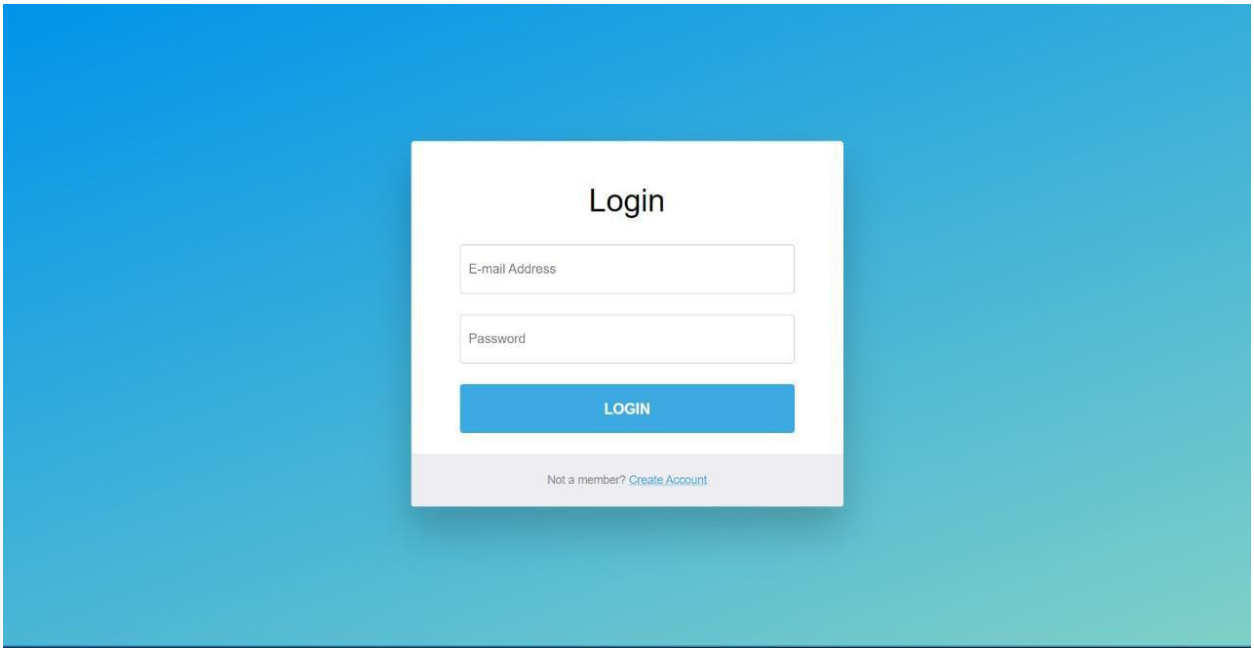
```
@app.route('/signin', methods=['GET', 'POST'])
def signin():
    sec = ''
    if request.method == 'POST':
        mail = request.form['email']
        password = request.form['password']
        sql = f"select * from customer where email='{escape(mail)}' and password=
'{escape(password)}'"
        stmt = ibm_db.exec_immediate(conn, sql)
        data = ibm_db.fetch_both(stmt)
        if data:
            session["mail"] = escape(mail)
            session["password"] = escape(password)
            return redirect(url_for('index'))
        else:
            return render_template('login.html',msg = "Invalid email/ Password or Not registered!!?")
    return "not going to happen dickhead!!??"
if _name_ == '_main_':
    app.run(host='0.0.0.0', debug=True)
```

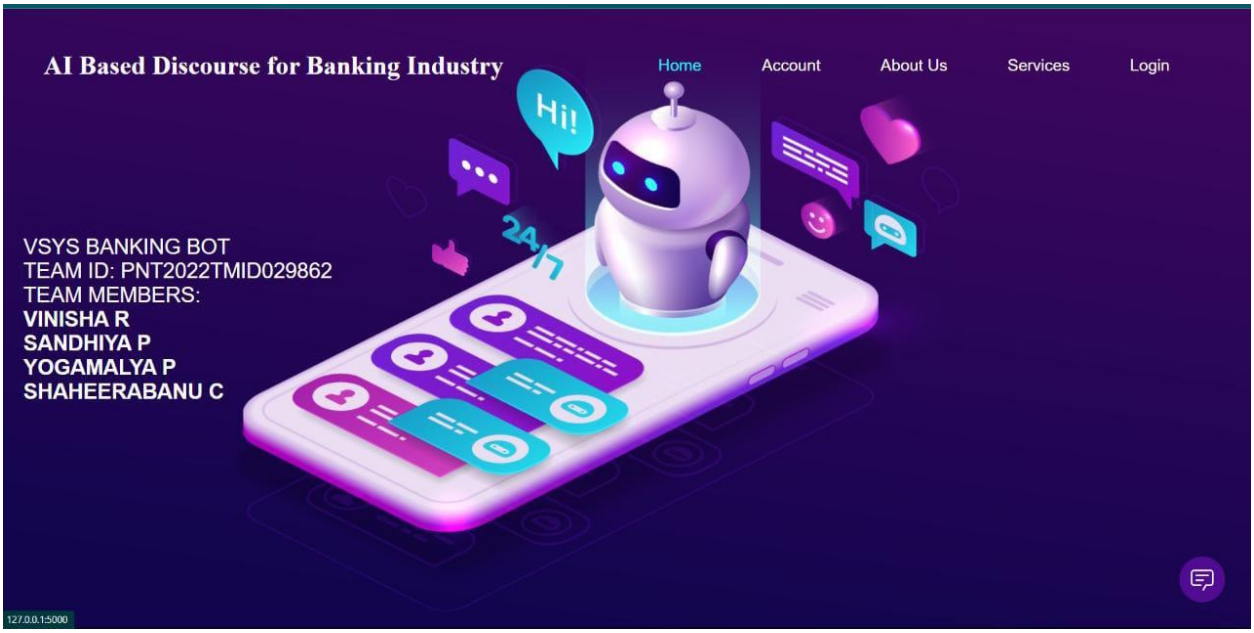
Build HTML Code

- We use HTML to create the front-end part of the web page.
- Here, we have created HTML page-index.html
- Chatbot.html displays the home page which integrates with Watson Assistant.
- A simple HTML page is created. Auto-generated source code from IBM Watson Assistants is copied and pasted inside the body tag

Run The Application






AI Based Discourse for Banking Industry
Home
Account
About Us
Services
Login
Hi!
24/7
VSYS BANKING BOT
TEAM ID: PNT2022TMID029862
TEAM MEMBERS:
VINISHA R
SANDHIYA P
YOGAMALYA P
SHAHEERABANU C
127.0.0.1:5000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SANDHIYA P
YOGAMALYA P
SHAHEERABANU C
Hi !! Welcome to VSYS Assistant. How can I help you?
Balance
Check account balance
See how I can help
Type something...
Built with IBM Watson®