PROJECT DEVELOPMENT PHASE
SPRINT III

Team ID	**PNT2022TMID46176**
Project Name	**Project – Smart Fashion Recommender Application**
Date	**07 Nov 22 – 12 Nov 22**
Sprint I	**Implement Web Application, Integrating Sendgrid service & Developing a Chatbot**

➢ Implement Web App – Create IBM DB2 & connect with Python

[SFRA-6] As a user, I Create UI to interact with the application Created: 07/Nov/22 Updated: 12/Nov/22 Resolved: 12/Nov/22	
Status:	Done
Project:	Smart Fashion Recommender Application
Components:	UI

Type:	Story	**Priority:**	Medium
Reporter:	Nisha Subramaniyan	**Assignee:**	Meera V
Resolution:	Done	**Epic:**	Implementing Web Application
Labels:	Create UI to interact with the application		
Time Spent:	1 Week		

[SFRA-7] As a user, I Create IBM DB2 and connect with Python Created: 07/Nov/22 Updated: 12/Nov/22 Resolved: 12/Nov/22	
Status:	Done
Project:	Smart Fashion Recommender Application
Components:	IBM DB2

Type:	Story	**Priority:**	Medium
Reporter:	Nisha Subramaniyan	**Assignee:**	Nisha Subramaniyan
Resolution:	Done	**Epic:**	Implementing Web Application
Labels:	Create IBM DB2 and connect with Python		
Time Spent:	1Week		

In [4]:

```
#DO NOT MODIFY THIS CELL. Just RUN it with Shift + Enter
#Create the dsn connection string
dsn = (
    "DRIVER={0};"
    "DATABASE={1};"
    "HOSTNAME={2};"
    "PORT={3};"
    "PROTOCOL={4};"
    "UID={5};"
    "PWD={6};"
    "SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port, dsn_protocol, dsn_uid, dsn_pwd,dsn_secu

#print the connection string to check correct values are specified
print(dsn)
```

```
DRIVER={IBM DB2 ODBC DRIVER};DATABASE=BLUDB;HOSTNAME=2d46b6b4-cbf6-40eb-bbce-6251e6ba0300.bs2io90l08kqb1od8lcg.databa
ses.appdomain.cloud;PORT=32328;PROTOCOL=TCPIP;UID=vjd29721;PWD=6TTgx8MRBzT45o3q;SECURITY=SSL;
```

Now establish the connection to the database

In [5]:

```
#DO NOT MODIFY THIS CELL. Just RUN it with Shift + Enter
#Create database connection

try:
    conn = ibm_db.connect(dsn, "", "")
    print ("Connected to database: ", dsn_database, "as user: ", dsn_uid, "on host: ", dsn_hostname)

except:
    print ("Unable to connect: ", ibm_db.conn_errormsg() )
```

```
Connected to database:  BLUDB as user:  vjd29721 on host:  2d46b6b4-cbf6-40eb-bbce-6251e6ba0300.bs2io90l08kqb1od8lcg.
databases.appdomain.cloud
```

In [6]:

```
#Retrieve Metadata for the Database Server
server = ibm_db.server_info(conn)

print ("DBMS_NAME: ", server.DBMS_NAME)
print ("DBMS_VER:  ", server.DBMS_VER)
print ("DB_NAME:   ", server.DB_NAME)
```

```
DBMS_NAME:  DB2/LINUXX8664
DBMS_VER:   11.05.0600
DB_NAME:    BLUDB
```

In [7]:

```
#Retrieve Metadata for the Database Client / Driver
client = ibm_db.client_info(conn)

print ("DRIVER_NAME:          ", client.DRIVER_NAME)
print ("DRIVER_VER:           ", client.DRIVER_VER)
print ("DATA_SOURCE_NAME:     ", client.DATA_SOURCE_NAME)
print ("DRIVER_ODBC_VER:      ", client.DRIVER_ODBC_VER)
print ("ODBC_VER:             ", client.ODBC_VER)
print ("ODBC_SQL_CONFORMANCE: ", client.ODBC_SQL_CONFORMANCE)
print ("APPL_CODEPAGE:        ", client.APPL_CODEPAGE)
print ("CONN_CODEPAGE:        ", client.CONN_CODEPAGE)
```

```
DRIVER_NAME:          libdb2.a
DRIVER_VER:           11.05.0500
DATA_SOURCE_NAME:     BLUDB
DRIVER_ODBC_VER:      03.51
ODBC_VER:             03.01.0000
ODBC_SQL_CONFORMANCE: EXTENDED
APPL_CODEPAGE:        1208
CONN_CODEPAGE:        1208
```

➢ Integrating Sendgrid service – Sendgrid integration with python code

[SFRA-8] As a user, I will integrating sendgrid with python code Created: 07/Nov/22 Updated: 12/Nov/22 Resolved: 12/Nov/22	
Status:	Done
Project:	Smart Fashion Recommender Application
Components:	Sendgrid

Type:	Story	**Priority:**	Medium
Reporter:	Nisha Subramaniyan	**Assignee:**	Nandhini Rajesh
Resolution:	Done	**Epic:**	Integrating Sendgrid Service
Labels:	Integrate sendgrid with python code		

```python
# using SendGrid's Python Library
# https://github.com/sendgrid/sendgrid-python
import os
from sendgrid import SendGridAPIClient
from sendgrid.helpers.mail import Mail

message = Mail(
    from_email='from_email@example.com',
    to_emails='to@example.com',
    subject='Sending with Twilio SendGrid is Fun',
    html_content='<strong>and easy to do anywhere, even with Python</strong>')
try:
    sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
    response = sg.send(message)
    print(response.status_code)
    print(response.body)
    print(response.headers)
except Exception as e:
    print(e.message)
```

➢ Developing a Chatbot – Building a Chatbot & integrate with App

[SFRA-9] As a user, I have to build a chatbot and Integrate to application Created: 07/Nov/22 Updated: 12/Nov/22 Resolved: 12/Nov/22

Status:	Done
Project:	Smart Fashion Recommender Application
Components:	Chatbot

Type:	Story	**Priority:**	Medium
Reporter:	Nisha Subramaniyan	**Assignee:**	Ragaswetha M
Resolution:	Done	**Epic:**	Developing A Chatbot
Labels:	Build a chatbot and Integrate to application		
Time Spent:	1Week