

Team ID	PNT2022TMID42819
Project Name	Smart Fashion Recommender Application

SPRINT 2 CODE & TEST CASE

Create a Flask App :

Solution:

```
from distutils.log import debug
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re

app = Flask(__name__)

app.secret_key = 'a'

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=hgc00903;PWD=UzumT0ZHCXvHur30", '', '')

@app.route("/")

def homer():
    return render_template('index.html')

@app.route('/login', methods = ['GET', 'POST'])
def login():
    global userid
    msg = ''

    if request.method == 'POST' :
        username = request.form['username']
        password = request.form['password']
        sql = "SELECT * FROM users WHERE username =? AND password=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print (account)
        if account:
            session['loggedin'] = True
            session['id'] = account['USERNAME']
```

```

        userid= account['USERNAME']
        session['username'] = account['USERNAME']
        msg = 'Logged in successfully !'

        msg = 'Logged in successfully !'
        return render_template('index.html', msg = msg)
    else:
        msg = 'Incorrect username / password !'
    return render_template('login.html', msg = msg)

@app.route('/register', methods =['GET', 'POST'])
def registet():
    msg = ''
    if request.method == 'POST' :
        username = request.form['username']
        email = request.form['email']
        password = request.form['password']
        sql = "SELECT * FROM users WHERE username =?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg = 'Account already exists !'
        elif not re.match(r'^@+@[^@]+\.[^@]+', email):
            msg = 'Invalid email address !'
        elif not re.match(r'[A-Za-z0-9]+', username):
            msg = 'name must contain only characters and numbers !'
        else:
            insert_sql = "INSERT INTO users VALUES (?, ?, ?)"
            prep_stmt = ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prepare_stmt, 1, username)
            ibm_db.bind_param(prepare_stmt, 2, email)
            ibm_db.bind_param(prepare_stmt, 3, password)
            ibm_db.execute(prepare_stmt)
            msg = 'You have successfully registered !'
    elif request.method == 'POST':
        msg = 'Please fill out the form !'
    return render_template('register.html', msg = msg)

if __name__ == '__main__':
    app.run(debug=True)

```

CART.HTML:

```

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Clothing Store</title>
  <link rel="stylesheet" href="/static/product.css">
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.8.1/font/bootstrap-icons.css">
</head>

<body>
  <header>
    <div class="logo"><a href="#"></a></div>
    <div class="menu">
      <a href="#">
        <ion-icon name="close" class="close"></ion-icon>
      </a>
    </div>
    <div class="heading">
      <ul>
        <li><a href="/templates/index.html" class="under">Home</a></li>
        <li><a href="/templates/product.html" class="under">Shop</a></li>
        <li><a href="/templates/contactus.html" class="under">Contact
us</a></li>
        <li><a href="/templates/aboutus.html" class="under">About Us</a></li>
        <li><a href="/templates/login.html" class="under">Login</a></li>
        <li><a href="/templates/cart.html" class="under">Cart</a></li>
      </ul>
    </div>
    <div class="heading1">
      <ion-icon name="menu" class="ham"></ion-icon>
    </div>
  </header>

  <div class="navbar">
    <a href="index.html">
      <h2>Clothing Store</h2>
    </a>

    <a href="cart.html">
      <div class="cart">
        <i class="bi bi-cart2"></i>
        <div id="cartAmount" class="cartAmount">0</div>
      </div>
    </a>

  </div>

```

```

    <div id="label" class="text-center"></div>

    <div class="shopping-cart" id="shopping-cart"></div>
</body>
<div>
</div>
<script src="/src/data.js"></script>
<script src="/src/cart.js"></script>

</html>

```

SENDGRID SERVICE USING PYTHON:

```

# importing

libraries from flask import Flask

from flask_mail import Mail, Message

app = Flask(    name    )

mail = Mail(app) # instantiate the mail class

# configuration of mail

app.config['MAIL_SERVER']='smtp.gmail.com'

app.config['MAIL_PORT'] = 465

app.config['MAIL_USERNAME'] = 'yourId@gmail.com'

app.config['MAIL_PASSWORD'] = '*****'

app.config['MAIL_USE_TLS'] = False

app.config['MAIL_USE_SSL'] = True

mail = Mail(app)

# message object mapped to a particular URL '/' @app.route("/")

def index():
msg =
Message(

'Hello',

sender = 'yourId@gmail.com',

recipients = ['receiver'sid@gmail.com']

)

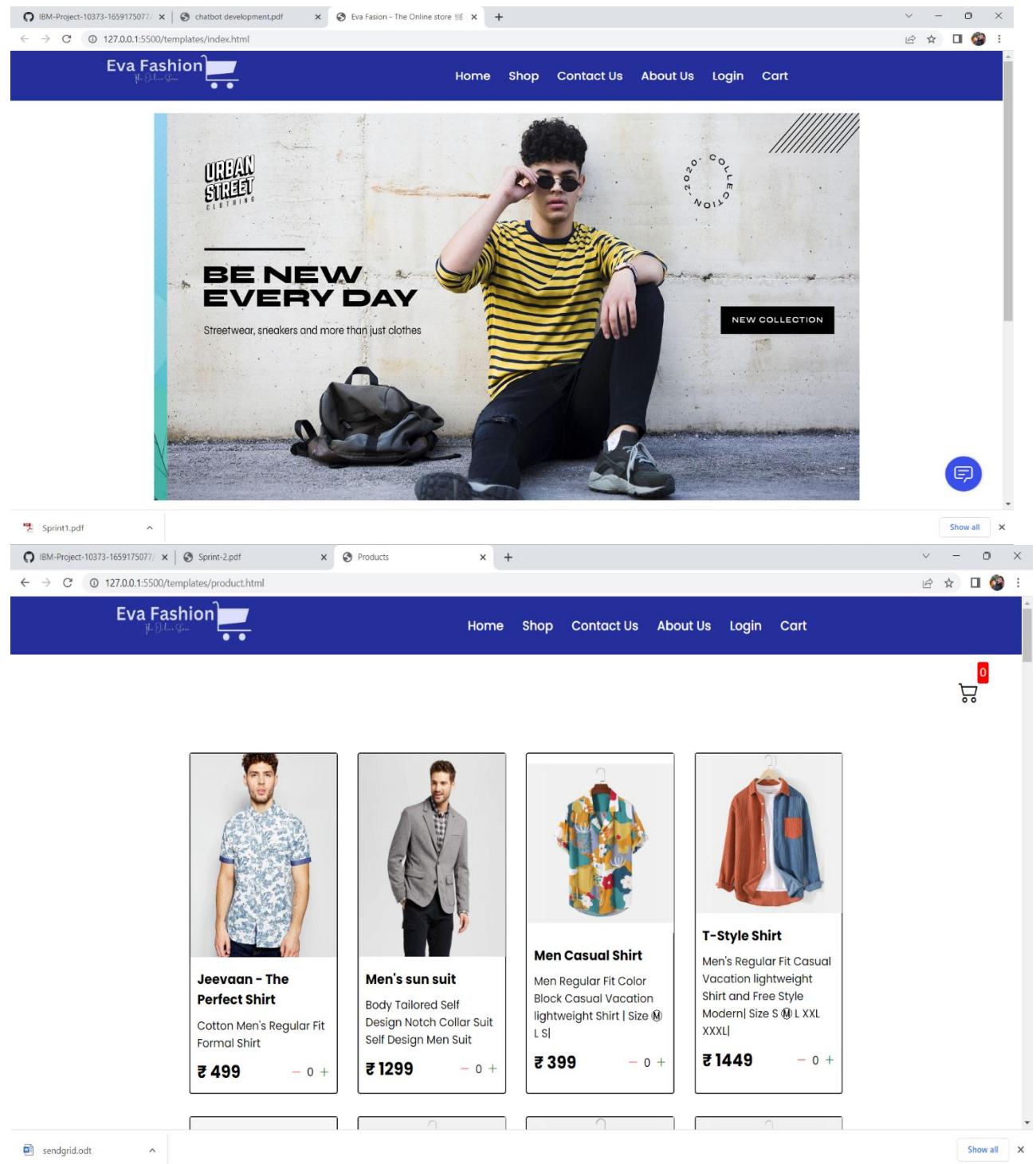
```

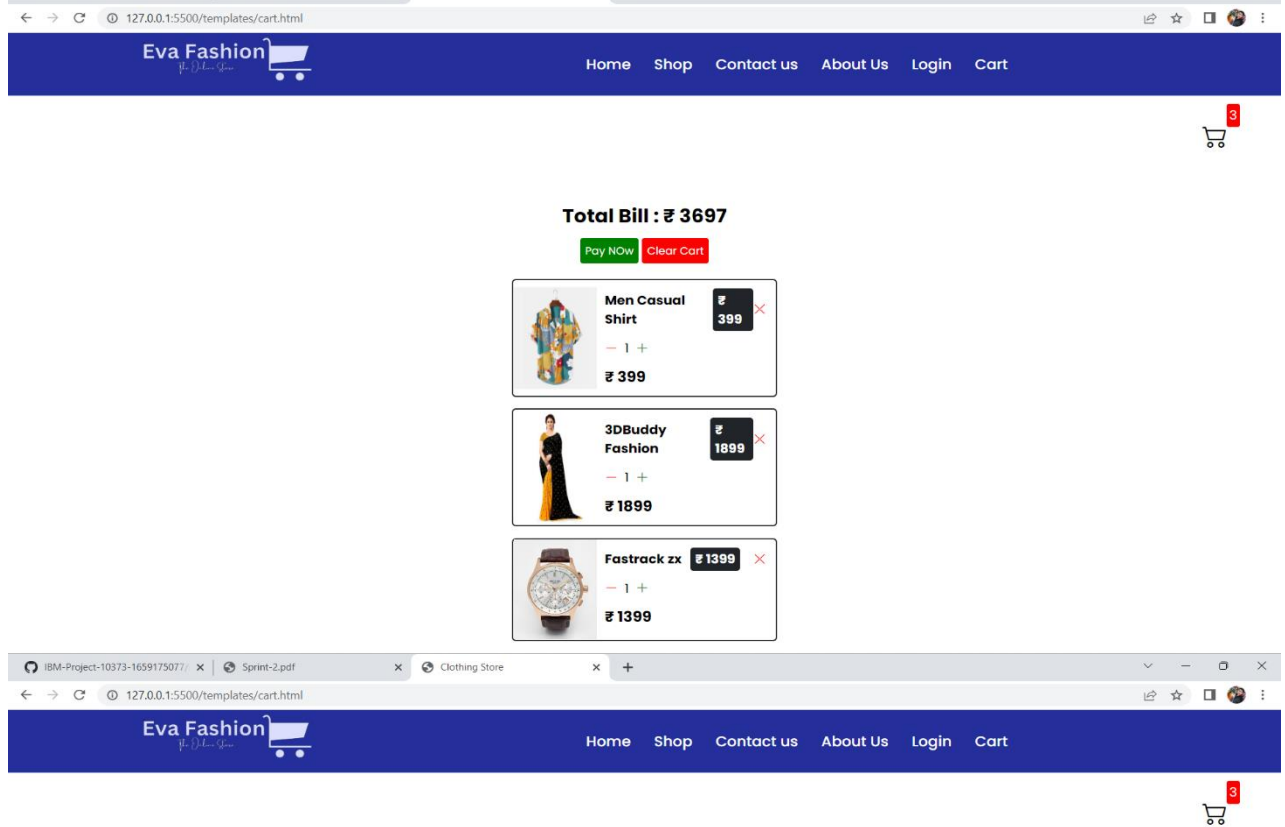
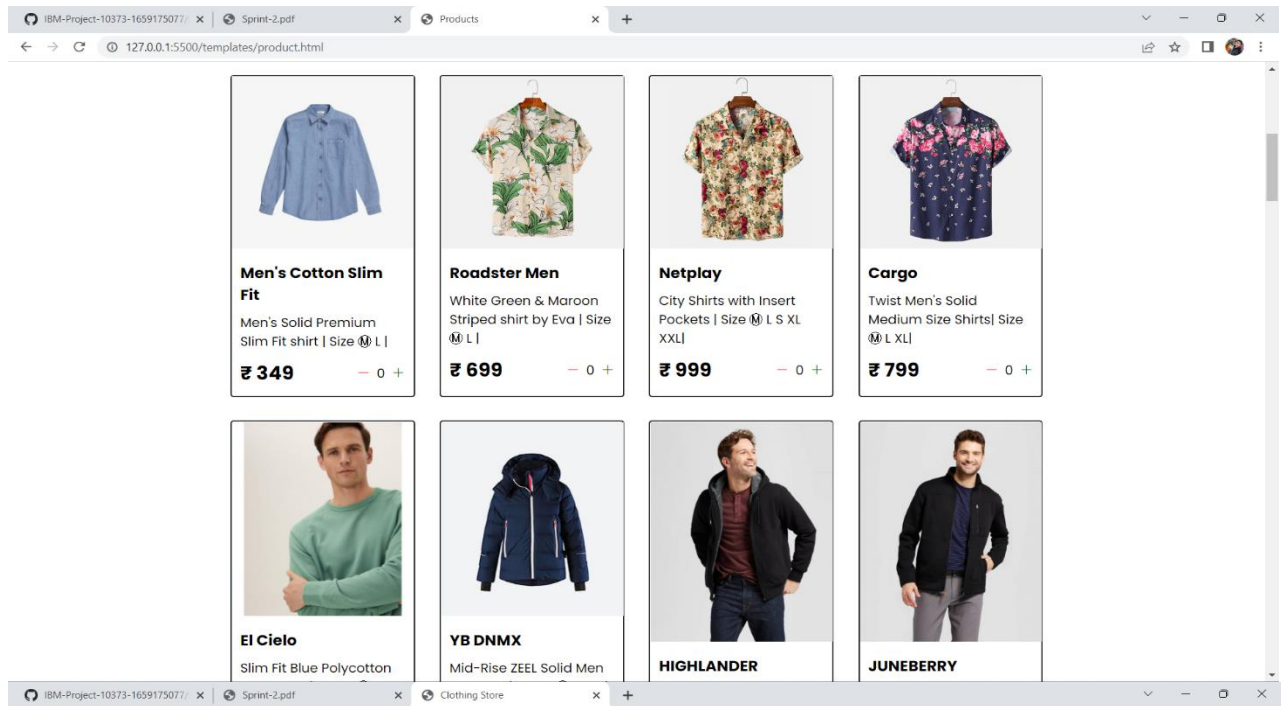
```
msg.body = 'Hello Flask message sent from Flask-Mail'

mail.send(msg)

return 'Sent'
if name == 'main':
app.run(debug = True)
```

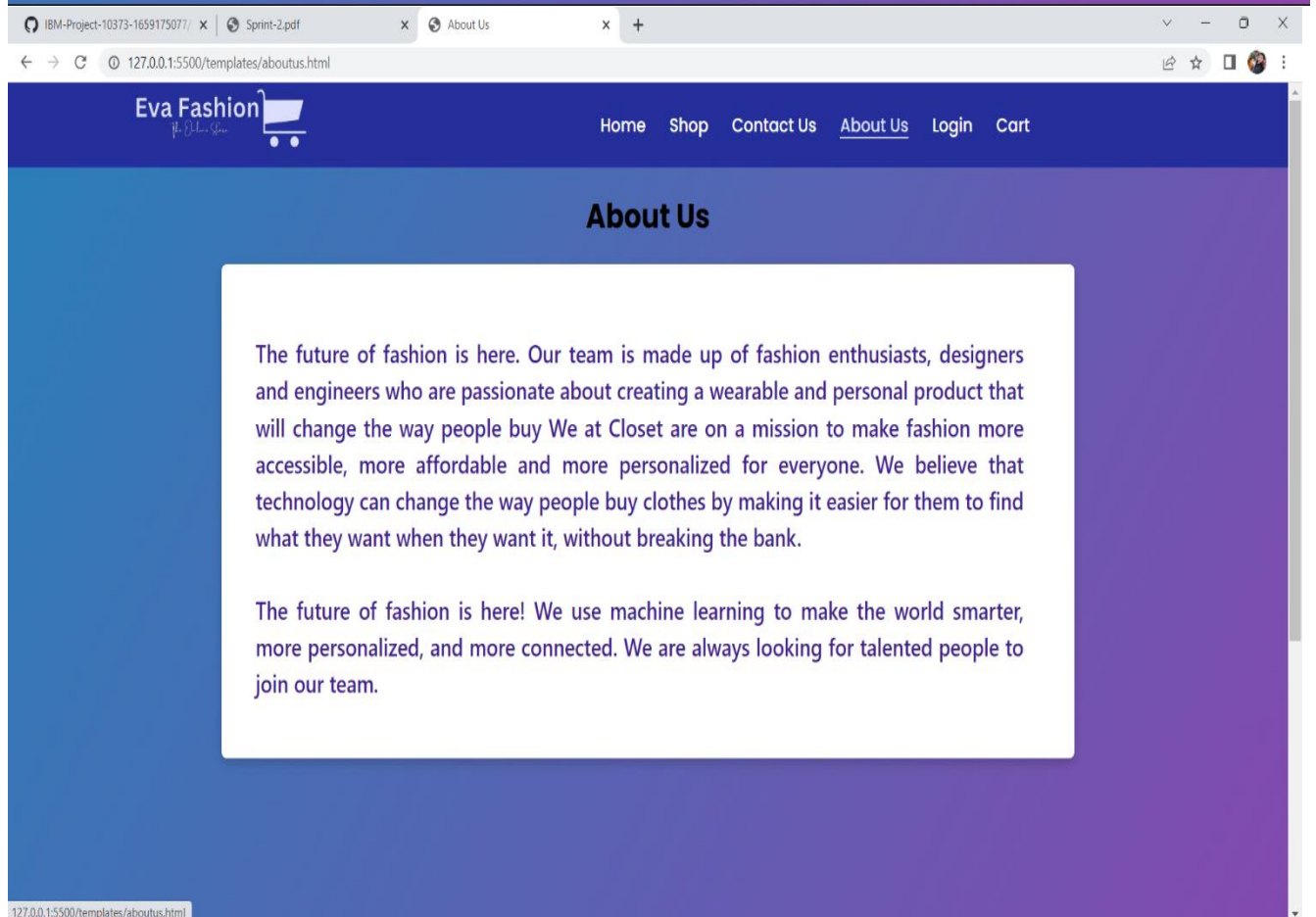
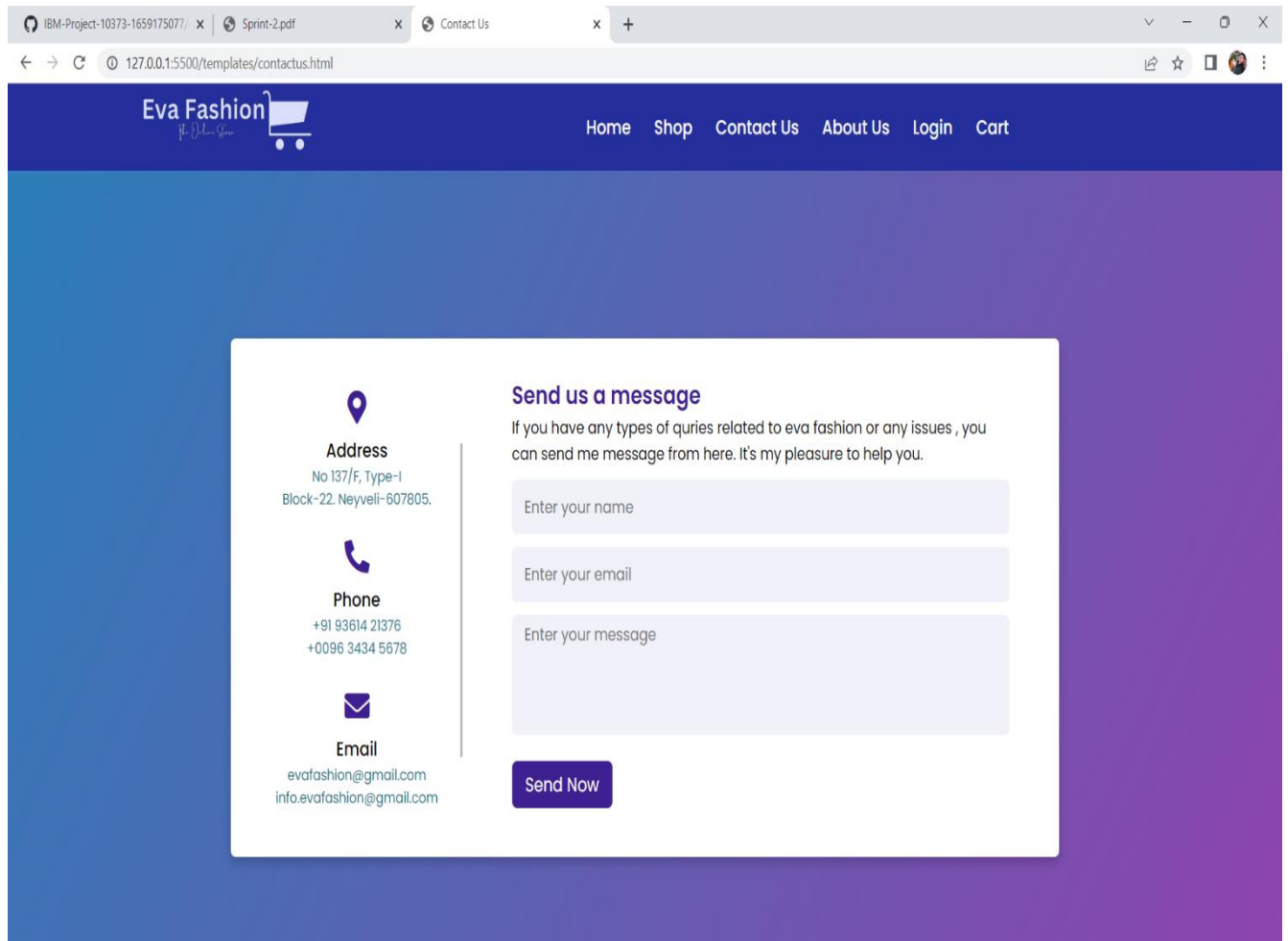
OUTPUT:






Cart is Empty

[Back to home](#)



IBM-Project-10373-1659175077 / x Sprint-2.pdf x Registration Form x +

127.0.0.1:5500/templates/register.html

[Home](#) [Shop](#) [Contact Us](#) [About Us](#) [Login](#) [Cart](#)

Registration


☐ I accept all terms & condition

Register Now

Already have an account? [login here](#)

Cloud Object Storage - IBM Clou... x Login Form x +

127.0.0.1:5500/templates/login.html

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Login Form

Login

Not a member? [Signup now](#)

127.0.0.1:5500/templates/login.html