Date	11-November 2022
Team ID	PNT2022TMID45035
Project Name	Inventory Management System for Retailers
Batch number	B1-1M3E

## PROJECT DEVELOPMENT PHASE-SPRINT 3

```
Products.html
<!doctype html>
<html class="no-js" lang="zxx">
<head>
      <meta charset="utf-8">
      <meta http-equiv="x-ua-compatible" content="ie=edge">
      <meta name="description" content="">
      <meta name="viewport" content="width=device-width, initial-scale=1">
  <!-- Bootstrap Css & Js -->
  k href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
1 BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"\\
crossorigin="anonymous">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"</pre>
integrity="sha384-
ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IIRH9sENBO0LRn5q+8nbTov4+1p"
crossorigin="anonymous"></script>
      <!-- CSS here -->
      <link href="static/css/mystyle.css" rel="Stylesheet" />
 <style>
```

```
.shadow-demo {
width: 100px;
height: 100px;
background-color: #fff;
  }
  .shadow-demo-1
width: 100px;
                    height:
100px;
              background-
color: #ccc;
  }
  .shadow-demo-2
width: 100px;
                    height:
100px;
              background-
color: #000;
  }
                     background-color: rgba(255,
  .mask-custom {
255, 255, 0.2);
                  border-radius: 10;
                                        border: 0;
background-clip: padding-box;
                                  box-shadow: 10px
10px 10px rgba(46, 54, 68, 0.03);
  }
  .custom-1 {
                 backdrop-
filter: blur(30px);
  .custom-2 {
                 backdrop-
filter: blur(60px);
  }
  .custom-3 {
                 backdrop-
filter: blur(40px);
```

```
}
  .custom-4 {
   backdrop-filter: blur(15px);
  .custom-5 {
                  backdrop-
filter: blur(5px);
  }
  .mask-custom-1 {
                        background-color: rgba(0, 0,
0, 0.2);
           border-radius: 20;
                                 border: 0;
background-clip: padding-box;
                                   box-shadow: 10px
10px 10px rgba(46, 54, 68, 0.03);
  }
  .custom-6 {
                  backdrop-
filter: blur(30px);
  .custom-7 {
                  backdrop-
filter: blur(60px);
  .custom-8 {
                  backdrop-
filter: blur(40px);
  }
  .custom-9 {
                  backdrop-
filter: blur(15px);
  }
  .custom-10 {
                   backdrop-
filter: blur(5px);
  }
```

```
</style>
  <!-- JS here -->
  {% block head %} {% endblock %}
              window.watsonAssistantChatOptions = {
                                                            integrationID: "633fc278-
  <script>
0dda-417b-9c10-bd2f300b411a", // The ID of this integration.
                                                                 region: "jp-tok", // The
region your integration is hosted in.
     serviceInstanceID: "b7ec50cd-af28-4bb0-aa53-52dc00c34d4e", // The ID of your
service instance.
    onLoad: function(instance) { instance.render(); }
   };
   setTimeout(function(){
                               const
t=document.createElement('script');
    t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
document.head.appendChild(t);
   });
  </script>
</head>
<body>
 <nav class="navbar navbar-expand-lg navbar-light bg-light">
  <div class="container-fluid">
   <a class="navbar-brand" href="/">IMS</a>
   <button class="navbar-toggler" type="button" data-bs-toggle="offcanvas" data-
bstarget="#offcanvasNavbar" aria-controls="offcanvasNavbar">
     <span class="navbar-toggler-icon"></span>
   </button>
   <div class="offcanvas offcanvas-end" tabindex="-1" id="offcanvasNavbar"</pre>
arialabelledby="offcanvasNavbarLabel">
     <div class="offcanvas-header">
```

```
<h5 class="offcanvas-title" id="offcanvasNavbarLabel">Offcanvas</h5>
     <button type="button" class="btn-close text-reset" data-bs-dismiss="offcanvas"
arialabel="Close"></button>
    </div>
    <div class="offcanvas-body">
     <a class="nav-link" aria-current="page" href="/">Home</a>
      cli class="nav-item">
       <a class="nav-link" href="/register" >Register</a>
      cli class="nav-item">
       <a class="nav-link" href="/login">Login</a>
      cli class="nav-item">
       <a class="nav-link" href="/list" >List</a>
      </div>
  </div>
 </nav>
<!--
  <nav class="navbar navbar-light bg-light fixed-top">
    <div class="container-fluid">
      Page navigation
      <a class="nav-link" aria-current="page" href="/">Home</a>
      <a class="nav-link" href="/register" >Register</a>
      <a class="nav-link" href="/login">Login</a>
```

```
<a class="nav-link" href="/logout">Logout</a>
      <a class="nav-link" href="/list" >List</a>
          <button class="navbar-toggler" type="button" data-bs-toggle="offcanvas"
databs-target="#offcanvasNavbar" aria-controls="offcanvasNavbar">
      <span class="navbar-toggler-icon"></span>
     </button>
     <div class="offcanvas offcanvas-end" tabindex="-1" id="offcanvasNavbar"</pre>
arialabelledby="offcanvasNavbarLabel">
      <div class="offcanvas-header">
       <h5 class="offcanvas-title" id="offcanvasNavbarLabel">Offcanvas</h5>
       <button type="button" class="btn-close text-reset" data-bs-dismiss="offcanvas"</pre>
arialabel="Close"></button>
      </div>
      <div class="offcanvas-body">
       cli class="nav-item">
          <a class="nav-link" aria-current="page" href="/">Home</a>
         cli class="nav-item">
          <a class="nav-link" href="/register" >Register</a>
         cli class="nav-item">
          <a class="nav-link" href="/login">Login</a>
         cli class="nav-item">
          <a class="nav-link" href="/logout">Logout</a>
         cli class="nav-item">
          <a class="nav-link" href="/list" >List</a>
```

```
<a class="nav-link dropdown-toggle" href="#" id="offcanvasNavbarDropdown"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
         Dropdown
        </a>
        <a class="dropdown-item" href="#">Action</a>
         <a class="dropdown-item" href="#">Another action</a>
         <
          <hr class="dropdown-divider">
         <a class="dropdown-item" href="#">Something else here</a>
        <form class="d-flex">
       <input class="form-control me-2" type="search" placeholder="Search"</pre>
arialabel="Search">
       <button class="btn btn-outline-success" type="submit">Search</button>
      </form>
     </div>
    </div>
   </div>
   </nav> -->
   {% block body %} {% endblock %}
 </body>
</html>
```

```
Add product.html
<!DOCTYPE html >
  <head>
    <meta charset="utf-8">
    <meta http-equiv="x-ua-compatible" content="ie=edge">
    <meta name="description" content="">
    <meta name="viewport" content="width=device-width, initial-scale=1">
      <!-- Bootstrap Css & Js -->
    k href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IIRH9sENBO0LRn5q+8nbTov4+1p"\\
crossorigin="anonymous"></script>
    <style>
html,body
    {
             height: 100%;
                                   margin: 0;
                                                    font-family:
'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    }
    </style>
    <!-- CSS here -->
    k href="static/css/mystyle.css" rel="Stylesheet" />
<body>
  <div style="background-image: url('static/img/Secure login-</pre>
rafiki.png');backgroundposition: center; background-repeat: no-repeat; background-size:
contain; background-repeat:
no-repeat; height: 100%;">
```

```
<h1 class="display-6" style="text-align: center;">We have sent a confirmation mail to
your registerd E-mail.</h1>
    <h1 class="display-6" style="text-align: center;"> Please confirm the mail to continue
Registration.</h1>
  </div>
</body>
</html>
Config.py
import datetime import os from dotenv import
load_dotenv() basedir =
os.path.abspath(os.path.dirname(__file__))
APP_SETTINGS = os.getenv('APP_SETTINGS', 'config.DevelopmentConfig')
class Config():
  EMAIL_CONFIRMATION_SENDER_EMAIL = os.getenv(
    'EMAIL_CONFIRMATION_SENDER_EMAIL')
  EMAIL_CONFIRMATION_SALT = 'email-confirmation'
  EMAIL_CONFIRMATION_TOKEN_MAX_AGE_SECONDS = 300
  JSON_SORT_KEYS = False
  JWT_ACCESS_TOKEN_EXPIRES = datetime.timedelta(minutes=60)
  SECRET_KEY = os.getenv('SECRET_KEY', os.urandom(32))
  SENDGRID_API_KEY = os.getenv('SENDGRID_API_KEY')
  SQLALCHEMY_TRACK_MODIFICATIONS =
False WTF_CSRF_ENABLED = False class
DevelopmentConfig(Config):
                           DEBUG = True
  JSON_SORT_KEYS = True
  SQLALCHEMY_ECHO = True
```

```
SQLALCHEMY_DATABASE_URI = f'sqlite:///{os.path.join(basedir, "app.db")}'
class ProductionConfig(Config):
  DEBUG = False
  SQLALCHEMY_DATABASE_URI = os.getenv('DB_URL')
App.py
from turtle import st from flask import Flask, render_template, request,
redirect, url_for, session from markupsafe import escape import ibm_db
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=54a2f15b-5c0f-46df-
89547e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32733;SEC
URITY
=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lkc93724;PWD=zAzNGa6D
Nk6xvle",",") import smtplib, ssl ## email.mime
subclasses from email.mime.multipart import
MIMEMultipart from email.mime.text import
MIMEText
## The pandas library is only for generating the current date, which is not necessary
for sending emails import pandas as pd from datetime import datetime from flask
import Flask app = Flask(__name__)
var_list = [] app.secret_key =
'your secret key'
@app.route('/')
def home(): if not
session.get("name"):
    return render_template('home.html') return
render_template('home.html', session = session)
```

```
@app.route('/register')
def new_student():
 return render_template('Register.html')
@app.route('/addrec',methods = ['POST', 'GET'])
def addrec():
 if request.method == 'POST':
                                fname =
request.form['fname'] lname = request.form['lname']
cname = request.form['cname']
                                state =
request.form['state']
                     city = request.form['city']
mobileno = request.form['mobileno']
                                      emailid =
request.form['emailid']
                        password =
request.form['password']
                        pincode =
request.form['pincode'] sql = "SELECT * FROM
Users WHERE EMAILID =?"
  stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,emailid)
ibm_db.execute(stmt)
                      account =
ibm_db.fetch_assoc(stmt)
account:
            users = []
   sql = "SELECT * FROM Users"
                                      stmt
= ibm_db.exec_immediate(conn, sql)
dictionary = ibm_db.fetch_both(stmt)
while dictionary != False:
    # print ("The Name is:", dictionary)
users.append(dictionary)
                            dictionary =
ibm_db.fetch_both(stmt)
   return render_template('list.html', msg="You are already a member, please login using
your details", users = users)
  else:
```

```
var_list.append(fname)
var_list.append(lname)
var_list.append(cname)
var_list.append(state)
var_list.append(city)
var_list.append(mobileno)
var_list.append(emailid)
var_list.append(password)
var_list.append(pincode)
   bodytemp = r"D:\IBM\GUIDED PROJECT\INVENTORY MANAGEMENT SYSTEM
FOR RETAILERS\SPRINT 2\templates\email.html"
   with open(bodytemp, "r", encoding='utf-8') as f:
     html= f.read()
   # Set up the email addresses and password. Please replace below with your email
address and password
                        email_from = 'padhu10a@gmail.com'
                                                                epassword =
'rbjibzkssszsbrjo'
                    email_to = emailid
   # Generate today's date to be included in the email Subject
date_str = pd.Timestamp.today().strftime('%Y-%m-%d')
   # Create a MIMEMultipart class, and set up the From, To, Subject
fields
         email message = MIMEMultipart()
                                               email message['From']
= email from
   email_message['To'] = email_to
email_message['Subject'] = f'Report email - {date_str}'
  # Attach the html doc defined earlier, as a MIMEText html content type to the
MIME message
                   email_message.attach(MIMEText(html, "html"))
   # Convert it as a string
                             email_string = email_message.as_string()
Connect to the Gmail SMTP server and Send Email
                                                     context =
                              with smtplib.SMTP_SSL("smtp.gmail.com",
ssl.create_default_context()
465, context=context) as server:
```

```
server.login(email_from,
                                           epassword)
server.sendmail(email_from,
                             email to,
                                         email_string)
return render_template('notify.html')
@app.route('/confirm')
def confirmation():
 insert_sql = "INSERT INTO Users (FIRSTNAME, LASTNAME, COMPANYNAME,
STATE, CITY, MOBILENO, EMAILID, PASSWORD, PINCODE) VALUES
(?,?,?,?,?,?,?)" prep_stmt =
ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, var_list[0])
ibm_db.bind_param(prep_stmt, 2, var_list[1])
ibm_db.bind_param(prep_stmt, 3, var_list[2])
ibm_db.bind_param(prep_stmt, 4, var_list[3])
ibm_db.bind_param(prep_stmt, 5, var_list[4])
ibm_db.bind_param(prep_stmt, 6, var_list[5])
ibm_db.bind_param(prep_stmt, 7, var_list[6])
ibm_db.bind_param(prep_stmt, 8, var_list[7])
ibm_db.bind_param(prep_stmt, 9, var_list[8])
ibm_db.execute(prep_stmt) return
render_template('confirm.html')
@app.route('/login', methods =['POST',
'GET']) def login(): msg = " if
request.method == 'POST' and 'email' in
request.form and 'password' in request.form:
    email = request.form['email']
password = request.form['password']
   sql = "SELECT * FROM Users WHERE EMAILID =? AND PASSWORD =?"
    stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,email)
```

```
ibm_db.bind_param(stmt,2,password)
ibm_db.execute(stmt)
                          account =
ibm_db.fetch_assoc(stmt)
                            if account:
       session['loggedin'] = True
                                       session['id'] = account['ID']
session['email'] = account['EMAILID']
                                             session['name'] =
                               msg = 'Logged in successfully!'
account['FIRSTNAME']
return render_template('dashboard/dashboard.html', msg = msg)
    else:
       msg = 'Incorrect email / password !'
return render_template('login.html', msg = msg)
@app.route('/dashboard')
def dashboard():
 return render_template('dashboard/dashboard.html')
@app.route('/addproduct')
def addproduct():
 return render_template('dashboard/addproduct.html')
@app.route('/movement')
def movement():
  products = []
  sql = "SELECT * FROM Products WHERE HOLDERNAME = ?"
  prep_stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(prep_stmt, 1, session['name'])
ibm_db.execute(prep_stmt)
                             dictionary =
ibm_db.fetch_both(prep_stmt)
                                while dictionary
!= False:
   # print ("The Name is : ", dictionary)
products.append(dictionary)
                               dictionary =
ibm_db.fetch_both(prep_stmt)
                                if products:
```

```
return render_template("dashboard/movement.html", products = products, session =
session)
  else:
   return
render_template("dashboard/movement.html")
@app.route('/moveproc',methods = ['POST', 'GET'])
def moveproc(): if request.method == 'POST':
    pname = request.form['pname']
quantityout = request.form['quantityout']
tow = request.form['to']
 insert_sql = "UPDATE products SET QUANTITYOUT = ?, TO = ? WHERE
PRODUCTNAME = ? AND HOLDERNAME = ?;"
 prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1,quantityout)
ibm_db.bind_param(prep_stmt, 2, tow)
ibm_db.bind_param(prep_stmt, 3, pname)
ibm_db.bind_param(prep_stmt, 4, session['name'])
ibm_db.execute(prep_stmt)
 products = []
 sql = "SELECT * FROM Products WHERE HOLDERNAME = ?"
 prep_stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(prep_stmt, 1, session['name'])
ibm_db.execute(prep_stmt) dictionary =
ibm_db.fetch_both(prep_stmt) while dictionary
!= False:
   # print ("The Name is: ", dictionary)
products.append(dictionary)
                              dictionary =
ibm_db.fetch_both(prep_stmt)
```

```
return render_template('dashboard/movement.html', msg = "Product movement
noted!", products = products) @app.route('/report') def report():
 return render_template('dashboard/report.html')
@app.route('/stockupdate'
) def stock():
              products
=[]
  sql = "SELECT * FROM Products WHERE HOLDERNAME = ?"
  prep_stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(prep_stmt, 1, session['name'])
ibm_db.execute(prep_stmt)
                             dictionary =
ibm_db.fetch_both(prep_stmt)
                                while dictionary
!= False:
   # print ("The Name is : ", dictionary)
products.append(dictionary)
                               dictionary =
ibm_db.fetch_both(prep_stmt)
                               if products:
   return render_template("dashboard/stockupdate.html", products = products, session =
session)
  else:
   return
render_template("dashboard/stockupdate.html")
@app.route('/proc_delete', methods = ['POST', 'GET'])
def proc_delete():
      id = request.args.get('pid')
      delete_sql = "DELETE FROM products WHERE ID = ? AND HOLDERNAME =
?:"
      prep_stmt = ibm_db.prepare(conn, delete_sql)
ibm_db.bind_param(prep_stmt, 1, id)
ibm_db.bind_param(prep_stmt, 2, session['name'])
ibm db.execute(prep stmt)
                                  products = []
```

```
sql = "SELECT * FROM Products WHERE HOLDERNAME = ?"
      prep_stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(prep_stmt, 1, session['name'])
ibm_db.execute(prep_stmt)
                                 dictionary =
ibm_db.fetch_both(prep_stmt)
                                   while dictionary
!= False:
        # print ("The Name is: ", dictionary)
                                  dictionary =
products.append(dictionary)
ibm_db.fetch_both(prep_stmt)
      return render_template('dashboard/stockupdate.html', msg='Product successfully
deleted!', products = products)
@app.route('/proc_update', methods = ['POST',
'GET']) def proc_update():
                                if request.method
== 'POST':
                  pname = request.form['pname']
quantityin = request.form['quantityin']
                                            pid =
request.form['pid']
      update_sql = "UPDATE products SET PRODUCTNAME = ?, QUANTITYIN = ?
WHERE ID = ? AND HOLDERNAME = ?;"
      prep_stmt = ibm_db.prepare(conn, update_sql)
ibm_db.bind_param(prep_stmt, 1, pname)
ibm_db.bind_param(prep_stmt, 2, quantityin)
ibm_db.bind_param(prep_stmt, 3, pid)
ibm_db.bind_param(prep_stmt, 4, session['name'])
ibm_db.execute(prep_stmt)
                                products = []
      sql = "SELECT * FROM Products WHERE HOLDERNAME = ?"
      prep_stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(prep_stmt, 1, session['name'])
ibm_db.execute(prep_stmt)
                                dictionary =
```

```
ibm_db.fetch_both(prep_stmt)
                                   while dictionary
!= False:
        # print ("The Name is : ", dictionary)
products.append(dictionary)
                                  dictionary =
ibm_db.fetch_both(prep_stmt)
      return render_template('dashboard/stockupdate.html', msg='Product successfully
updated!' , products = products)
@app.route('/addproc',methods = ['POST', 'GET']) def addproc():
                                                               if
request.method == 'POST':
                              pname = request.form['pname']
quantity = request.form['quantity']
                                     the_time = datetime.now()
the_time = the_time.replace(second=0, microsecond=0)
                                                         sql =
"SELECT * FROM Products WHERE HOLDERNAME =?"
    stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,session['name'])
ibm db.execute(stmt)
    product = ibm_db.fetch_assoc(stmt)
    if product:
     if product['PRODUCTNAME']==pname:
      return render_template('dashboard/addproduct.html', msg="Product already added!
Add a new product.")
     else:
      sql ="INSERT INTO Products
(PRODUCTNAME, QUANTITYIN, QUANTITYOUT, TO, DATE, HOLDERNAME)
VALUES (?,?,?,?,?);"
                             prep_stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(prep_stmt, 1, pname)
ibm_db.bind_param(prep_stmt, 2, quantity)
ibm_db.bind_param(prep_stmt, 3, ")
                                         ibm_db.bind_param(prep_stmt, 4, ")
ibm db.bind param(prep stmt, 5, str(the time))
ibm_db.bind_param(prep_stmt, 6, session['name'])
```

```
ibm_db.execute(prep_stmt)
                                 return
render_template('dashboard/addproduct.html', msg="Product added")
    else:
      sql ="INSERT INTO Products
(PRODUCTNAME, QUANTITYIN, QUANTITYOUT, TO, DATE, HOLDERNAME)
VALUES (?,?,?,?,?);"
                             prep_stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(prep_stmt, 1, pname)
ibm_db.bind_param(prep_stmt, 2, quantity)
ibm_db.bind_param(prep_stmt, 3, ")
                                         ibm_db.bind_param(prep_stmt, 4, ")
ibm_db.bind_param(prep_stmt, 5, str(the_time))
ibm_db.bind_param(prep_stmt, 6, session['name'])
ibm_db.execute(prep_stmt)
                                 return
render_template('dashboard/addproduct.html', msg="Product added")
@app.route('/productlist') def productlist():
                                           products = []
  sql = "SELECT * FROM Products WHERE HOLDERNAME = ?"
  prep_stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(prep_stmt, 1, session['name'])
ibm_db.execute(prep_stmt)
                            dictionary =
ibm db.fetch both(prep stmt)
                               while dictionary
!= False:
   # print ("The Name is : ", dictionary)
products.append(dictionary)
                              dictionary =
ibm_db.fetch_both(prep_stmt) if products:
   return render_template("dashboard/productlist.html", products = products, session =
session)
  else:
   return render_template("dashboard/productlist.html")
@app.route('/logout')
def logout():
```

```
session.pop('loggedin', None)
session.pop('id', None)
session.pop('email', None)
session.pop('name', None)
return redirect(url_for('home'))
@app.route('/list'
) def list():
users = []
 sql = "SELECT * FROM Users" stmt =
ibm_db.exec_immediate(conn, sql)
dictionary = ibm_db.fetch_both(stmt)
while dictionary != False:
  # print ("The Name is:",
dictionary) users.append(dictionary)
dictionary = ibm_db.fetch_both(stmt)
if users:
  return render_template("list.html", users = users , session = session)
return "No users..."
```