

## PROJECT DEVELOPMENT PHASE

### SPRINT - 2

DATE	05 NOVEMBER 2022
TEAM ID	PNT2022TMID17457
PROJECT NAME	SMART FASHION RECOMMENDER APPLICATION

#### PRODUCT LIST PAGE :

```
<section class="container-fluid pt-3 pt-md-4">
  <!-- search filters -->
  <div class="row">
    <div class="col-12 col-md-6">
      <div class="d-flex border">
        <select name="category" class="border border-end-0
border-dark py-3">
          <option value="all">All</option>
          <option value="t-shirt">T-shirt</option>
          <option value="t-shirt">T-shirt</option>
          <option value="t-shirt">T-shirt</option>
        </select>
        <input type="text" placeholder="search" style="flex: 1;"
class="border-0 py-2">
      </div>
    </div>
    <div class="col-12 col-md-6">
      <div class="d-flex justify-content-around
justify-content-md-end mt-3 mt-md-0">
        <!-- chat bot -->
        <button class="chat-btn me-md-3">Let's chat</button>
        <!-- sort by -->
        <select name="sort" class="border-0 py-3">
          <option value="">Sort by</option>
          <option value="low-high">Price: Low to High</option>
          <option value="high-low">Price: High to Low</option>
        </select>
      </div>
    </div>
  </div>
  <!-- product list items -->
```

```

<div class="row mt-2">
  <div class="col-12">
    <div class="d-flex justify-content-between">
      <p class="fw-bold">Total products : 545</p>
      <p class="d-none d-md-block">Let's make changes in
buying</p>
    </div>
    <app-product-card
[product]="productDatails"></app-product-card>
    </div>
    <!-- pagination -->
    <div class="col-12 mt-5 d-flex justify-content-center">
      <nav aria-label="Page navigation example">
        <ul class="pagination">
          <li class="page-item"><a class="page-link"
href="#">1</a></li>
          <li class="page-item"><a class="page-link"
href="#">2</a></li>
          <li class="page-item"><a class="page-link"
href="#">3</a></li>
          <li class="page-item"><a class="page-link"
href="#">Next</a></li>
        </ul>
      </nav>
    </div>
  </div>
</section>

```

## CSS:

```

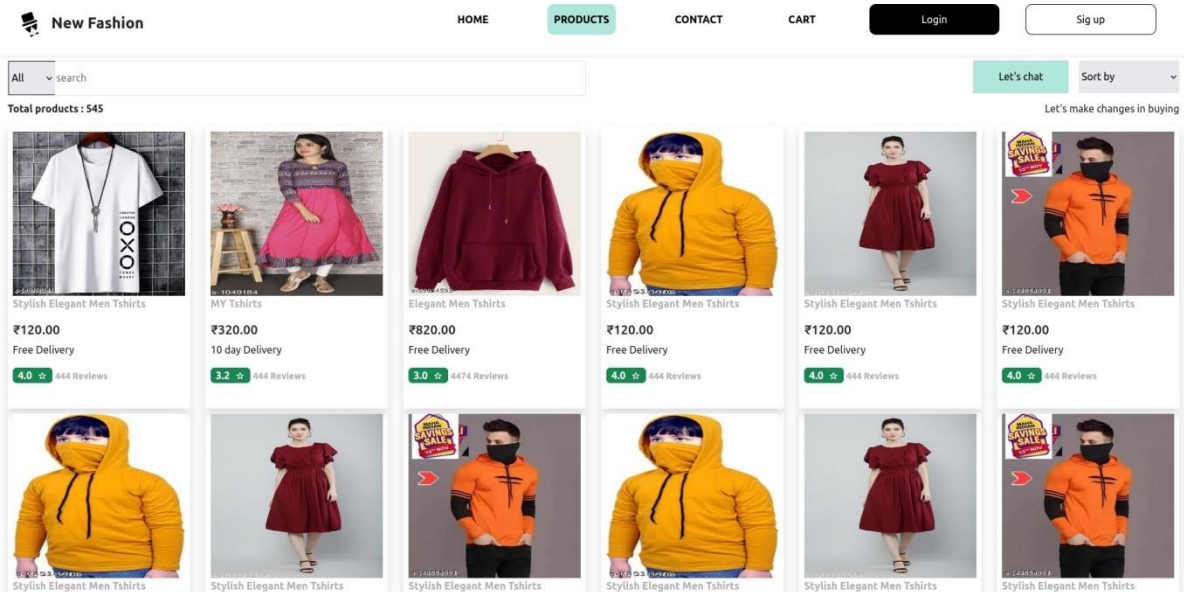
.chat-btn {
  border: none;
  padding: 0.7rem 2.5rem;
  background-color: var(--primary-color);
}

.chat-btn:hover {
  border: 3px solid var(--primary-color);
  background-color: transparent;
}

.pagination .page-link {
  color: black;
  border: 3px solid var(--primary-color);
}

```

## OUTPUT SCREEN



## BACKEND API'S:

### Login API

```
from flask import Blueprint, jsonify, g, request
import ibm_db
from passlib.hash import sha256_crypt
import jwt

from ..lib import validation_error
from ..lib import exception
from ..lib import db

auth_bp = Blueprint("auth", __name__)

@auth_bp.route("/", methods=["GET"])
def check():
    print(g.get("db"))
    return jsonify({"msg": "hi"})

@auth_bp.route('/register', methods=['POST'])
def reg():
    try:
        data = request.get_json()
        name=data['name']
```

```

        email=data['email']
        password=data['password']
        mobile_no=data['mobileNo']
        print(email,password,name,mobile_no)
        insert_sql="INSERT INTO
USER(name,email,password,role,mobilenumber) VALUES(?,?,?, ?, ?)"
        prep_stmt = ibm_db.prepare(db.get_db(), insert_sql)
        ibm_db.bind_param(prepare_stmt,1,name)
        ibm_db.bind_param(prepare_stmt,2,email)
        ibm_db.bind_param(prepare_stmt,3,sha256_crypt.encrypt(password))
        ibm_db.bind_param(prepare_stmt,4,"user")
        ibm_db.bind_param(prepare_stmt,5,mobile_no)
        ibm_db.execute(prepare_stmt)
        return {"message":'Created'},201

    except Exception as e:
        return exception.handle_exception(e)

@auth_bp.route('/me',methods=['GET'])
def getMe():
    try:
        token = request.headers['Authorization']
        if (not token):
            return validation_error.throw_validation("Please login",401)
        decoded = jwt.decode(token,"secret",algorithms=["HS256"])
        select_sql = "SELECT * FROM USER WHERE ID=?"
        prep_stmt = ibm_db.prepare(db.get_db(), select_sql)
        ibm_db.bind_param(prepare_stmt,1,decoded['id'])
        ibm_db.execute(prepare_stmt)
        isUser=ibm_db.fetch_assoc(prepare_stmt)
        return isUser
    except Exception as e:
        return exception.handle_exception(e)

@auth_bp.route('/login',methods=['POST'])
def auth_log():
    try:
        data = request.get_json()
        print(data)
        email=data['email']
        password=data['password']

```

```

        select_sql = "SELECT * FROM USER WHERE EMAIL=?"
        prep_stmt = ibm_db.prepare(db.get_db(), select_sql)
        ibm_db.bind_param(prepare_stmt,1,email)
        ibm_db.execute(prepare_stmt)
        isUser=ibm_db.fetch_assoc(prepare_stmt)
        print(isUser)
        if not isUser:
            return validation_error.throw_validation("Invalid
Credentials",400)
        if not sha256_crypt.verify(password,isUser['PASSWORD']):
            return validation_error.throw_validation("Invalid
Credentials",400)
        encoded_jwt =
jwt.encode({"id":isUser['ID'], "role":isUser['ROLE']}, "secret", algorithm
="HS256")
        isUser["token"] = encoded_jwt
        return isUser
    except Exception as e:
        return exception.handle_exception(e)

```

## Category API

```

from flask import Blueprint,request
import ibm_db
from ..lib import exception
from ..lib import db

category_bp = Blueprint("category",__name__)

@category_bp.route("/",methods=["GET"])
def get_category():
    try:
        select_sql = "SELECT * FROM CATEGORY WHERE"
        prep_stmt = ibm_db.prepare(db.get_db(), select_sql)
        ibm_db.execute(prepare_stmt)
        categories=[]
        category=ibm_db.fetch_assoc(prepare_stmt)
        while(category != False):
            categories.append(category)
            category = ibm_db.fetch_assoc(prepare_stmt)
        print(categories)
    
```

```

        return categories, 200
    except Exception as e:
        return exception.handle_exception(e)

@category_bp.route("/", methods=["POST"])
def add_category():
    try:
        data = request.get_json()
        category = data['category']
        insert_sql = "INSERT INTO CATEGORY(category_name) VALUES(?)"
        prep_stmt = ibm_db.prepare(db.get_db(), insert_sql)
        ibm_db.bind_param(prepare_stmt, 1, category)
        ibm_db.execute(prepare_stmt)
        return {"message": 'Created'}, 201
    except Exception as e:
        return exception.handle_exception(e)

@category_bp.route("/<id>", methods=["DELETE"])
def get_category_id(id):
    try:
        print(id)
        select_sql = "DELETE FROM CATEGORY WHERE ID=?"
        prep_stmt = ibm_db.prepare(db.get_db(), select_sql)
        ibm_db.bind_param(prepare_stmt, 1, id)
        ibm_db.execute(prepare_stmt)

        return {"message": 'Deleted'}, 200
    except Exception as e:
        return exception.handle_exception(e)

```

## Product API

```

from flask import Blueprint, request
import ibm_db
from ..lib import exception
from ..lib import db

product_bp = Blueprint("product", __name__)

```

```

@product_bp.route("/",methods=['POST'])
def add_product():
    try:
        data = request.get_json()
        name=data['name']
        category=data['category']
        description = data['description']
        stock=data['stock']
        specificity = data['specificity']
        price = data['price']
        brand=data['brand']
        insert_sql="INSERT INTO
PRODUCT(product_name,category,description,stock,specificity,price,brand
) VALUES(?,?,?, ?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(db.get_db(), insert_sql)
        ibm_db.bind_param(prepare_stmt,1,name)
        ibm_db.bind_param(prepare_stmt,2,category)
        ibm_db.bind_param(prepare_stmt,3,description)
        ibm_db.bind_param(prepare_stmt,4,stock)
        ibm_db.bind_param(prepare_stmt,5,specificity)
        ibm_db.bind_param(prepare_stmt,6,price)
        ibm_db.bind_param(prepare_stmt,7,brand)
        ibm_db.execute(prepare_stmt)
        return {"message":'Created'},201
    except Exception as e:
        return exception.handle_exception(e)

@product_bp.route("/",methods=['GET'])
def get_product():
    try:
        select_sql = "SELECT PRODUCT.ID AS product_id,
category,category_name,product_name,description,price,stock,image,brand
,specificity FROM PRODUCT JOIN CATEGORY ON
CATEGORY.ID=PRODUCT.CATEGORY"
        prep_stmt = ibm_db.prepare(db.get_db(), select_sql)
        ibm_db.execute(prepare_stmt)
        products=[]
        product=ibm_db.fetch_assoc(prepare_stmt)
        while(product != False):
            products.append(product)
            product = ibm_db.fetch_assoc(prepare_stmt)
        print(products)
        return products or [],200

```

```

except Exception as e:
    return exception.handle_exception(e)

@product_bp.route("/<id>", methods=['GET'])
def get_product_id(id):
    try:
        select_sql = "SELECT PRODUCT.ID AS product_id,
category,category_name,product_name,description,price,stock,image,brand
,specificity FROM PRODUCT JOIN CATEGORY ON CATEGORY.ID=PRODUCT.CATEGORY
WHERE PRODUCT.ID=?"
        prep_stmt = ibm_db.prepare(db.get_db(), select_sql)
        ibm_db.bind_param(prepare_stmt,1,id)
        ibm_db.execute(prepare_stmt)
        product=ibm_db.fetch_assoc(prepare_stmt)
        print(product)
        return product or [],200
    except Exception as e:
        return exception.handle_exception(e)

@product_bp.route("/<id>", methods=['PUT'])
def update_product(id):
    try:
        data = request.get_json()
        name=data['name']
        category=data['category']
        description = data['description']
        stock=data['stock']
        specificity = data['specificity']
        price = data['price']
        brand=data['brand']
        insert_sql="UPDATE PRODUCT SET
product_name=?,category=?,description=?,stock=?,specificity=?,price=?,b
rand=? WHERE ID=?"
        prep_stmt = ibm_db.prepare(db.get_db(), insert_sql)
        ibm_db.bind_param(prepare_stmt,1,name)
        ibm_db.bind_param(prepare_stmt,2,category)
        ibm_db.bind_param(prepare_stmt,3,description)
        ibm_db.bind_param(prepare_stmt,4,stock)
        ibm_db.bind_param(prepare_stmt,5,specificity)
        ibm_db.bind_param(prepare_stmt,6,price)
        ibm_db.bind_param(prepare_stmt,7,brand)

```



```

        ibm_db.bind_param(prepare_stmt, 8, id)
        ibm_db.execute(prepare_stmt)
        return {"message": 'Updated'}, 200
    except Exception as e:
        return exception.handle_exception(e)

@product_bp.route("/<id>", methods=['DELETE'])
def delete_product(id):
    try:
        insert_sql = "DELETE FROM PRODUCT WHERE ID=?"
        prepare_stmt = ibm_db.prepare(db.get_db(), insert_sql)
        ibm_db.bind_param(prepare_stmt, 1, id)
        ibm_db.execute(prepare_stmt)
        return {"message": 'Deleted'}, 200
    except Exception as e:
        return exception.handle_exception(e)

```

## Cart API

```

from flask import Blueprint, request
import ibm_db
from ..lib import validation_error
from ..lib.auth import check_auth
from ..lib import exception
from ..lib import db

cart_bp = Blueprint("cart", __name__)

@cart_bp.route("/", methods=['POST'])
def add_cart():
    try:
        user_id = check_auth(request)
        data = request.get_json()
        product = data['product']
        select_sql = "SELECT * FROM PRODUCT WHERE ID=?"
        prepare_select = ibm_db.prepare(db.get_db(), select_sql)
        ibm_db.bind_param(prepare_select, 1, product)
        ibm_db.execute(prepare_select)
        is_product = ibm_db.fetch_assoc(prepare_select)

        print(is_product)
    
```

```

if not is_product:
    return validation_error.throw_validation("No Product found",404)

if(is_product['STOCK']<=0):
    return validation_error.throw_validation("No Stock found",404)

print("Hey")
insert_sql="INSERT INTO CART(user,product) VALUES(?,?)"
prep_stmt = ibm_db.prepare(db.get_db(), insert_sql)
ibm_db.bind_param(prepare_stmt,1,user_id)
ibm_db.bind_param(prepare_stmt,2,product)
ibm_db.execute(prepare_stmt)

print("heyy")

update_sql="UPDATE PRODUCT SET stock=? WHERE ID=?"
update_stmt = ibm_db.prepare(db.get_db(), update_sql)
ibm_db.bind_param(update_stmt,1,is_product['STOCK']-1 or 0)
ibm_db.bind_param(update_stmt,2,product)
ibm_db.execute(update_stmt)

print("sdd")
return {"message":'Created'},201
except Exception as e:
    return exception.handle_exception(e)

@cart_bp.route("/",methods=['DELETE'])
def delete_user_cart():
    try:
        user_id =check_auth(request)
        insert_sql="DELETE FROM CART WHERE USER=?"
        prep_stmt = ibm_db.prepare(db.get_db(), insert_sql)
        ibm_db.bind_param(prepare_stmt,1,user_id)

        ibm_db.execute(prepare_stmt)
        return {"message":'Deleted'},201
    except Exception as e:
        return exception.handle_exception(e)

```

```

@cart_bp.route("/",methods=['GET'])
def get_cart():
    try:
        user_id =check_auth(request)
        insert_sql="SELECT  PRODUCT.ID AS product_id, cart_id,
category,category_name,product_name,description,price,stock,image,brand
,specificity,CART.user as user FROM CART JOIN PRODUCT ON
CART.PRODUCT=PRODUCT.ID JOIN CATEGORY ON PRODUCT.CATEGORY = CATEGORY.ID
WHERE CART.USER=?"

        prep_stmt = ibm_db.prepare(db.get_db(), insert_sql)
        ibm_db.bind_param(prep_stmt,1,user_id)

        ibm_db.execute(prep_stmt)
        products=[]
        product=ibm_db.fetch_assoc(prep_stmt)
        while(product != False):
            products.append(product)
            product = ibm_db.fetch_assoc(prep_stmt)
        print(products)
        return products or [],200

    except Exception as e:
        return exception.handle_exception(e)

@cart_bp.route("/<product>/<id>",methods=['DELETE'])
def delete_cart(product,id):
    try:
        user_id =check_auth(request)
        print(product,id,user_id)

        select_sql = "SELECT * FROM PRODUCT WHERE ID=?"
        prepare_select =ibm_db.prepare(db.get_db(),select_sql)
        ibm_db.bind_param(prepare_select,1,product)
        ibm_db.execute(prepare_select)
        is_product = ibm_db.fetch_assoc(prepare_select)

        print(is_product)

        if not is_product:
            return validation_error.throw_validation("No Product found",404)

        print("ff")

```

```

insert_sql="DELETE FROM CART WHERE CART_ID=? AND user=?"
prep_stmt = ibm_db.prepare(db.get_db(), insert_sql)
ibm_db.bind_param(prepare_stmt,1,id)
ibm_db.bind_param(prepare_stmt,2,user_id)
ibm_db.execute(prepare_stmt)
print("aa")
update_sql="UPDATE PRODUCT SET stock=? WHERE ID=?"
update_stmt = ibm_db.prepare(db.get_db(), update_sql)
ibm_db.bind_param(update_stmt,1,is_product['STOCK']+1)
ibm_db.bind_param(update_stmt,2,product)
ibm_db.execute(update_stmt)
return {"message":'Deleted'},200
except Exception as e:
    return exception.handle_exception(e)

```

## Order API:

```

from flask import Blueprint,request
import ibm_db
from ..lib import exception
from ..lib import db,auth

order_bp = Blueprint("order",__name__)

@order_bp.route("/",methods=['POST'])
def add_order():
    try:
        user_id =auth.check_auth(request)
        data=request.get_json()
        products=data['products']
        insert_sql="SELECT ORDER_ID FROM FINAL TABLE (INSERT INTO
ORDER(user) VALUES(?)) "
        prep_stmt = ibm_db.prepare(db.get_db(), insert_sql)
        ibm_db.bind_param(prepare_stmt,1,user_id)
        ibm_db.execute(prepare_stmt)
        order = ibm_db.fetch_assoc(prepare_stmt)
        print(order)

        for product in products:

```

```

        print(product)
        insert1_sql="INSERT INTO ORDERDETAIL(order,product) VALUES(?,?)"
        prep1_stmt = ibm_db.prepare(db.get_db(), insert1_sql)
        ibm_db.bind_param(prep1_stmt,1,order['ORDER_ID'])
        ibm_db.bind_param(prep1_stmt,2,product)
        ibm_db.execute(prep1_stmt)

    return {"message":'Created'},201
except Exception as e:
    return exception.handle_exception(e)

@order_bp.route("/<id>",methods=['GET'])
def get_order(id):
    try:
        insert_sql="SELECT  PRODUCT.ID AS product_id,
category,category_name,product_name,description,price,stock,image,brand
,specificity,paid FROM ORDERDETAIL JOIN ORDER ON
ORDERDETAIL.ORDER=ORDER.ORDER_ID JOIN PRODUCT ON
ORDERDETAIL.PRODUCT=PRODUCT.ID JOIN CATEGORY ON PRODUCT.CATEGORY =
CATEGORY.ID WHERE ORDER.USER=?"
        prep_stmt = ibm_db.prepare(db.get_db(), insert_sql)
        ibm_db.bind_param(prep_stmt,1,id)
        ibm_db.execute(prep_stmt)
        products=[]
        product=ibm_db.fetch_assoc(prep_stmt)
        while(product != False):
            products.append(product)
            product = ibm_db.fetch_assoc(prep_stmt)
        print(products)
        return products or [],200

    except Exception as e:
        return exception.handle_exception(e)

```