

Project Development Phase
Delivery of Sprint-4

Date	19November 2022
Team ID	PNT2022TMID02538
Project Name	Inventory Management System For Retailer

app.py

creating flask application

```
from flask import Flask, render_template, url_for, redirect
from flask_sqlalchemy import SQLAlchemy
from flask_login import UserMixin, login_user, LoginManager, login_required, logout_user, current_user
from flask_wtf import FlaskForm
from wtforms import StringField, PasswordField, SubmitField
from wtforms.validators import InputRequired, Length, ValidationError
from flask_bcrypt import Bcrypt
from flask import Flask, render_template, redirect, url_for, session
from flask_sqlalchemy import SQLAlchemy
from flask_migrate import Migrate, MigrateCommand
from flask_script import Manager
from flask_uploads import UploadSet, configure_uploads, IMAGES
from flask_wtf import FlaskForm
from wtforms import StringField, IntegerField, TextAreaField, HiddenField, SelectField
from flask_wtf.file import FileField, FileAllowed
from flask_mail import Mail, Message
import random
import smtplib
app = Flask(__name__)
db = SQLAlchemy(app)
bcrypt = Bcrypt(app)
```

```
photos = UploadSet('photos', IMAGES)
```

```
app.config['UPLOADED_PHOTOS_DEST'] = 'images'
```

```
configure_uploads(app, photos)
```

```
app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///trendy.db'
app.config['SECRET_KEY'] = 'thisisasecretkey'
app.config['SQLALCHEMY_BINDS']={
    'two': 'sqlite:///database.db'
}
```

```
login_manager = LoginManager()
login_manager.init_app(app)
login_manager.login_view = 'login'
```

```
migrate = Migrate(app, db)
```

```
manager = Manager(app)
manager.add_command('db', MigrateCommand)
```

```
class Product(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    name = db.Column(db.String(50), unique=True)
    price = db.Column(db.Integer) #in cents
    stock = db.Column(db.Integer)
    description = db.Column(db.String(500))
    image = db.Column(db.String(100))

    orders = db.relationship('Order_Item', backref='product', lazy=True)
```

```
class Order(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    reference = db.Column(db.String(5))
    first_name = db.Column(db.String(20))
    last_name = db.Column(db.String(20))
    phone_number = db.Column(db.Integer)
    email = db.Column(db.String(50))
    address = db.Column(db.String(100))
    city = db.Column(db.String(100))
    state = db.Column(db.String(20))
    country = db.Column(db.String(20))
    status = db.Column(db.String(10))
    payment_type = db.Column(db.String(10))
    items = db.relationship('Order_Item', backref='order', lazy=True)
```

```
    def order_total(self):
        return db.session.query(db.func.sum(Order_Item.quantity *
Product.price)).join(Product).filter(Order_Item.order_id == self.id).scalar() + 1000
```

```
    def quantity_total(self):
        return db.session.query(db.func.sum(Order_Item.quantity)).filter(Order_Item.order_id ==
self.id).scalar()
```

```
class Order_Item(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    order_id = db.Column(db.Integer, db.ForeignKey('order.id'))
    product_id = db.Column(db.Integer, db.ForeignKey('product.id'))
    quantity = db.Column(db.Integer)
```

```
class AddProduct(FlaskForm):
    name = StringField('Name')
    price = IntegerField('Price')
    stock = IntegerField('Stock')
    description = TextAreaField('Description')
    image = FileField('Image', validators=[FileAllowed(IMAGES, 'Only images are accepted.')])
```

```

class AddToCart(FlaskForm):
    quantity = IntegerField('Quantity')
    id = HiddenField('ID')

class Checkout(FlaskForm):
    first_name = StringField('First Name')
    last_name = StringField('Last Name')
    phone_number = StringField('Number')
    email = StringField('Email')
    address = StringField('Address')
    city = StringField('City')
    state = SelectField('State', choices=[('CA', 'California'), ('WA', 'Washington'), ('NV', 'Nevada')])
    country = SelectField('Country', choices=[('US', 'United States'), ('UK', 'United Kingdom'), ('FRA',
'France')])
    payment_type = SelectField('Payment Type', choices=[('CK', 'Check'), ('WT', 'Wire Transfer')])

def handle_cart():
    products = []
    grand_total = 0
    index = 0
    quantity_total = 0

    for item in session['cart']:
        product = Product.query.filter_by(id=item['id']).first()

        quantity = int(item['quantity'])
        total = quantity * product.price
        grand_total += total

        quantity_total += quantity

        products.append({'id': product.id, 'name': product.name, 'price': product.price, 'image':
product.image, 'quantity': quantity, 'total': total, 'index': index})
        index += 1

    grand_total_plus_shipping = grand_total + 1000

    return products, grand_total, grand_total_plus_shipping, quantity_total

@login_manager.user_loader
def load_user(user_id):
    __bind_key__='two'
    return User.query.get(int(user_id))

class User(db.Model, UserMixin):
    __bind_key__='two'
    id = db.Column(db.Integer, primary_key=True)
    username = db.Column(db.String(40), nullable=False, unique=True)
    password = db.Column(db.String(80), nullable=False)

class RegisterForm(FlaskForm):
    __bind_key__='two'
    username = StringField(validators=[
        InputRequired(), Length(min=4, max=40)], render_kw={"placeholder": "Username"})

    password = PasswordField(validators=[

```

```

        InputRequired(), Length(min=8, max=20)], render_kw={"placeholder": "Password"})

submit = SubmitField('Register')

def validate_username(self, username):
    __bind_key__='two'
    existing_user_username = User.query.filter_by(
        username=username.data).first()
    if existing_user_username:
        raise ValidationError(
            'That username already exists. Please choose a different one.')

class LoginForm(FlaskForm):
    __bind_key__='two'
    username = StringField(validators=[
        InputRequired(), Length(min=4, max=40)], render_kw={"placeholder": "Username"})

    password = PasswordField(validators=[
        InputRequired(), Length(min=8, max=20)], render_kw={"placeholder": "Password"})

    submit = SubmitField('Login')

@app.route('/')
def home():
    return render_template('home.html')

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

    form = LoginForm()
    if form.validate_on_submit():
        user = User.query.filter_by(username=form.username.data).first()
        if user:
            if bcrypt.check_password_hash(user.password, form.password.data):
                login_user(user)
                return redirect(url_for('index'))
        return render_template('login.html', form=form)

'''
@app.route('/dashboard', methods=['GET', 'POST'])
@login_required
def dashboard():
    return render_template('dashboard.html')

@app.route('/logout', methods=['GET', 'POST'])
@login_required
def logout():
    logout_user()
    return redirect(url_for('login'))
'''

@app.route('/index')
def index():
    products = Product.query.all()

```

```

    return render_template('index.html', products=products)

@app.route('/product/<id>')
def product(id):
    product = Product.query.filter_by(id=id).first()

    form = AddToCart()

    return render_template('view-product.html', product=product, form=form)

@app.route('/quick-add/<id>')
def quick_add(id):
    if 'cart' not in session:
        session['cart'] = []

    session['cart'].append({'id' : id, 'quantity' : 1})
    session.modified = True

    return redirect(url_for('index'))

@app.route('/add-to-cart', methods=['POST'])
def add_to_cart():
    if 'cart' not in session:
        session['cart'] = []

    form = AddToCart()

    if form.validate_on_submit():

        session['cart'].append({'id' : form.id.data, 'quantity' : form.quantity.data})
        session.modified = True

    return redirect(url_for('index'))

@app.route('/cart')
def cart():
    products, grand_total, grand_total_plus_shipping, quantity_total = handle_cart()

    return render_template('cart.html', products=products, grand_total=grand_total,
grand_total_plus_shipping=grand_total_plus_shipping, quantity_total=quantity_total)

@app.route('/remove-from-cart/<index>')
def remove_from_cart(index):
    del session['cart'][int(index)]
    session.modified = True
    return redirect(url_for('cart'))

@app.route('/checkout', methods=['GET', 'POST'])
def checkout():
    form = Checkout()

    products, grand_total, grand_total_plus_shipping, quantity_total = handle_cart()

    if form.validate_on_submit():

        order = Order()
        form.populate_obj(order)

```

```

order.reference = ".join([random.choice('ABCDE') for _ in range(5)])
order.status = 'PENDING'

for product in products:
    order_item = Order_Item(quantity=product['quantity'], product_id=product['id'])
    order.items.append(order_item)

    product = Product.query.filter_by(id=product['id']).update({'stock' : Product.stock -
product['quantity']})

db.session.add(order)
db.session.commit()

session['cart'] = []
session.modified = True

return redirect(url_for('index'))

return render_template('checkout.html', form=form, grand_total=grand_total,
grand_total_plus_shipping=grand_total_plus_shipping, quantity_total=quantity_total)

@app.route('/admin')
def admin():
    products = Product.query.all()
    products_in_stock = Product.query.filter(Product.stock > 0).count()

    orders = Order.query.all()

    return render_template('admin/index.html', admin=True, products=products,
products_in_stock=products_in_stock, orders=orders)

@app.route('/admin/add', methods=['GET', 'POST'])
def add():
    form = AddProduct()

    if form.validate_on_submit():
        image_url = photos.url(photos.save(form.image.data))

        new_product = Product(name=form.name.data, price=form.price.data, stock=form.stock.data,
description=form.description.data, image=image_url)

        db.session.add(new_product)
        db.session.commit()

        return redirect(url_for('admin'))

    return render_template('admin/add-product.html', admin=True, form=form)

@app.route('/admin/order/<order_id>')
def order(order_id):
    order = Order.query.filter_by(id=int(order_id)).first()

    return render_template('admin/view-order.html', order=order, admin=True)

```

```

@app.route('/register', methods=['GET', 'POST'])
def register():
    __bind_key__='two'
    form = RegisterForm()

    if form.validate_on_submit():
        hashed_password = bcrypt.generate_password_hash(form.password.data)
        new_user = User(username=form.username.data, password=hashed_password)
        db.session.add(new_user)
        db.session.commit()
        return redirect(url_for('login'))

    return render_template('register.html', form=form)

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

```

TEMPLATES:

Base.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">
    <title>{% block title %}{% endblock %}</title>

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="{{ url_for('static', filename='bs/css/flatly.min.css') }}" />
    <link rel="stylesheet" href="{{ url_for('static', filename='css/styles.css') }}" />
  </head>
  <body>
    {% if admin %}
    <nav class="navbar navbar-default navbar-fixed-top" role="navigation">
      <div class="container-fluid">
        <!-- Brand and toggle get grouped for better mobile display -->
        <div class="navbar-header">
          <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-ex1-collapse">
            <span class="sr-only">Toggle navigation</span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
          </button>
          <a class="navbar-brand" href="{{ url_for('index') }}">Trendy Fashion Store</a>
        </div>

```

```

        <!-- Collect the nav links, forms, and other content for toggling -->
        <div class="collapse navbar-collapse navbar-ex1-collapse">
            <ul class="nav navbar-nav">
                <li class="active">
                    <a href="{{ url_for('admin') }}"><i class="glyphicon glyphicon-dashboard"></i> Admin
Dashboard</a>
                </li>
                <li>
                    <a href="{{ url_for('add') }}"><i class="glyphicon glyphicon-plus-sign"></i> Add
Product</a>
                </li>
                <li>
                    <a href="{{ url_for('index') }}"><i class="glyphicon glyphicon-chevron-left"></i> Back To
Front</a>
                </li>
            </ul>
        </div><!-- /.navbar-collapse -->
    </div>
</nav>
{% else %}
<nav class="navbar navbar-default navbar-fixed-top" role="navigation">
    <div class="container-fluid">
        <!-- Brand and toggle get grouped for better mobile display -->
        <div class="navbar-header">
            <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-ex1-
collapse">
                <span class="sr-only">Toggle navigation</span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
            </button>
            <a class="navbar-brand" href="{{ url_for('index') }}">Trendy Fashion Store</a>
        </div>

        <!-- Collect the nav links, forms, and other content for toggling -->
        <div class="collapse navbar-collapse navbar-ex1-collapse">
            <ul class="nav navbar-nav navbar-right">
                <li class="active">
                    <a href="{{ url_for('cart') }}">
                        <i class="glyphicon glyphicon-shopping-cart"></i> Cart
                    </a>
                </li>
            </ul>
        </div><!-- /.navbar-collapse -->
    </div>
</nav>
{% endif %}

<div class="container" id="page">

{% block body %}{% endblock %}

<footer>
    <div class="row pad">
        <div class="col-lg-12 text-center">
            Copyright &copy; 2017 <strong>Trendy Fashion Store</strong>
        </div>

```



```

        </div>
    </footer>
</div>

<!-- jQuery -->
<script src="{{ url_for('static', filename='bs/js/jquery.min.js') }}"></script>
<!-- Bootstrap JavaScript -->
<script src="{{ url_for('static', filename='bs/js/bootstrap.min.js') }}"></script>

</body>
</html>

```

home.html- Dashboard page

```

<!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">
    <link rel="stylesheet" href="{{ url_for('static', filename='css/homestyles.css') }}" />
    <title>Home</title>
</head>

<body>
<div class="login">
    <form id="login" method="" action="">

        <center><a href="{{ url_for('login') }}">Login Page</a><br></center>
        <center><a href="{{ url_for('register') }}">Register Page</a><br></center>
        <br><br>
    </form>

<script>
    window.watsonAssistantChatOptions = {
        integrationID: "1e1722cd-90ae-4848-9eb2-e559c5ab71c8", // The ID of this integration.
        region: "jp-tok", // The region your integration is hosted in.
        serviceInstanceID: "0738c83e-02d9-4636-8b32-0908a70361e3", // 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>

</body>

```

</html>

signin.html –signin page

<!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">

<link rel="stylesheet" href="{{ url_for('static', filename='css/loginstyles.css') }}" />

<title>Login</title>

</head>

<body>

<h2>Login Page</h2>

<div class="login">

<form id="login" method="POST" action="">

{{ form.hidden_tag() }}

<label>User Name

</label>

{{ form.username }}

<label>Password

</label>

{{ form.password }}

<center>{{ form.submit }}</center>

</form>

<script>

window.watsonAssistantChatOptions = {

integrationID: "1e1722cd-90ae-4848-9eb2-e559c5ab71c8", // The ID of this integration.

region: "jp-tok", // The region your integration is hosted in.

serviceInstanceID: "0738c83e-02d9-4636-8b32-0908a70361e3", // 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>

</body>

</html>

signup.html-Registration page

```
<!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">
  <link rel="stylesheet" href="{{ url_for('static', filename='css/loginstyles.css') }}" />
  <title>Register</title>
</head>

<body>
<h2>Register Page</h2><br>
<div class="login">
  <form id="login" method="POST" action="">
    {{ form.hidden_tag() }}
    <label><b>User Name
      </b>
    </label>
    {{ form.username }}
    <br><br>
    <label><b>Password
      </b>
    </label>
    {{ form.password }}
    <br><br>
    <center>{{ form.submit }}</center>
    <br><br>
  </form>

<script>
  window.watsonAssistantChatOptions = {
    integrationID: "1e1722cd-90ae-4848-9eb2-e559c5ab71c8", // The ID of this integration.
    region: "jp-tok", // The region your integration is hosted in.
    serviceInstanceID: "0738c83e-02d9-4636-8b32-0908a70361e3", // 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>

</body>

</html>

Cart.html
{% extends "base.html" %}
```

{% block title %}Cart | Trendy Fashion Store{% endblock %}

{% block body %}

<div class="row">

<div class="col-lg-8">

<h3 class="bold">

<i class="glyphicon glyphicon-shopping-cart"></i> Your Shopping Cart

</h3>

<div class="panel panel-primary">

<div class="panel-body">

{% for product in products %}

<div class="row">

<div class="col-lg-4">

<div class="col-xs-12 col-sm-12 col-md-12 col-lg-12">

<div class="thumbnail thumbnail-q">

</div>

</div>

</div>

<div class="col-lg-4">

<h3 class="bold">{{ product['name'] }}</h3>

<p>${{ product['price'] / 100 }}</p>

<p>

<a href="{{ url_for('remove_from_cart',

index=product['index']) }}">

<button type="button" class="btn btn-danger btn-

xs">

<i class="glyphicon glyphicon-trash"></i>

</button>

</p>

</div>

<div class="col-lg-2">

<h3>Quantity</h3>

<p>

{{ product['quantity'] }}

</p>

</div>

<div class="col-lg-2">

<h3>Total</h3>

<p>

${{ product['total'] /

100 }}

</p>

</div>

</div>

{% endfor %}

</div>

</div>

</div>

<div class="col-lg-4">

<h3 class="bold">

<i class="glyphicon glyphicon-th-list"></i> Cart Summary

</h3>

<div class="panel panel-primary">

```

        <div class="panel-body">
            Current Cart Value
        </div>
        <ul class="list-group">
            <li class="list-group-item">
                <p>
                    {{ quantity_total }} Items <strong class="pull-
right">&dollar;{{ grand_total / 100 }}</strong>
                </p>
                <p>
                    24hr Shipping <strong class="pull-
right">&dollar;10</strong>
                </p>
            </li>
            <li class="list-group-item">
                <p>Total <strong class="pull-
right">&dollar;{{ grand_total_plus_shipping / 100 }}</strong></p>
            </li>
        </ul>
        <div class="panel-footer">
            <a href="{{ url_for('checkout') }}" class="btn btn-primary btn-sm">
                Checkout <i class="glyphicon glyphicon-chevron-right"></i>
            </a>
            <a href="{{ url_for('index') }}" class="btn btn-link btn-sm pull-right">
                <i class="glyphicon glyphicon-chevron-left"></i> Continue
Shopping
        </a>
    </div>
</div>
</div>
</div>
{% endblock %}

```

Checkout.html

```
{% extends "base.html" %}
```

```
{% block title %}Checkout | Trendy Fashion Store{% endblock %}
```

```
{% block body %}
```

```

<div class="row">
    <div class="col-lg-8">
        <h3 class="bold">
            <i class="glyphicon glyphicon-pencil"></i> Shipping Information
        </h3>

        <div class="panel panel-primary">
            <form method="POST" action="{{ url_for('checkout') }}">
                <div class="panel-body">
                    <div class="row">
                        <div class="col-lg-12">
                            <h4 class="bold">Personal Information</h4>
                        </div>
                        {{ form.csrf_token }}
                        <div class="col-lg-6">
                            <div class="form-group">
                                <label>Firstname</label>
                                {{ form.first_name(class='form-control') }}

```

```

        </div>
        <div class="form-group">
            <label>Lastname</label>
            {{ form.last_name(class='form-control') }}
        </div>
    </div>
    <div class="col-lg-6">
        <div class="form-group">
            <label>Phone Number</label>
            {{ form.phone_number(class='form-control') }}
        </div>
        <div class="form-group">
            <label>Email</label>
            {{ form.email(class='form-control') }}
        </div>
    </div>
</div>

<div class="row">
    <div class="col-lg-12">
        <h4 class="bold">Address</h4>
    </div>
    <div class="col-lg-6">
        <div class="form-group">
            <label>Address</label>
            {{ form.address(class='form-control') }}
        </div>
        <div class="form-group">
            <label>City</label>
            {{ form.city(class='form-control') }}
        </div>
    </div>
    <div class="col-lg-6">
        <div class="form-group">
            <label>State</label>
            {{ form.state(class='form-control') }}
        </div>
        <div class="form-group">
            <label>Country</label>
            {{ form.country(class='form-control') }}
        </div>
    </div>
</div>

<div class="row">
    <div class="col-lg-12">
        <h4 class="bold">Payment</h4>
    </div>
    <div class="col-lg-6">
        <div class="form-group">
            <label>Payment Option</label>
            {{ form.payment_type(class='form-control') }}
        </div>
    </div>
</div>
</div>

<div class="panel-footer">

```

```

        <button type="submit" class="btn btn-primary btn-sm">
            Submit My Order
        </button>
    </div>
</form>
</div>
</div>

<div class="col-lg-4">
    <h3 class="bold">
        <i class="glyphicon glyphicon-th-list"></i> Cart Details
    </h3>

    <div class="panel panel-primary">
        <div class="panel-body">
            Current Cart Value
        </div>
        <ul class="list-group">
            <li class="list-group-item">
                <p>
                    {{ quantity_total }} Items <strong class="pull-
right">&dollar;{{ grand_total / 100 }}</strong>
                </p>
                <p>
                    24hr Shipping <strong class="pull-
right">&dollar;10</strong>
                </p>
            </li>
            <li class="list-group-item">
                <p>Total <strong class="pull-
right">&dollar;{{ grand_total_plus_shipping / 100 }}</strong></p>
            </li>
        </ul>
    </div>

    <div class="panel panel-primary">
        <div class="panel-heading">
            <h3 class="panel-title">Benefits</h3>
        </div>
        <div class="panel-body">
            Some of the benefits of shopping with us include:
        </div>
        <ul class="list-group">
            <li class="list-group-item">Buyer Protection</li>
            <li class="list-group-item">Next Day Delivery</li>
            <li class="list-group-item">Flexible Payment Options</li>
            <li class="list-group-item">7day Money Back Guarantee</li>
        </ul>
    </div>
</div>
</div>
{% endblock %}

```

Product.html

```
{% extends "base.html" %}
```

```
{% block title %}View Product | Trendy Fashion Store{% endblock %}
```

```

{% block body %}
<div class="row">
    <div class="col-lg-12">
        <ol class="breadcrumb">
            <li>
                <a href="{{ url_for('index') }}">Home</a>
            </li>
            <li class="active">View Product</li>
        </ol>
    </div>
</div>

<div class="row pad">
    <div class="col-lg-5">
        <div class="col-xs-12 col-sm-12 col-md-12 col-lg-12">
            <div class="thumbnail">
                
            </div>
        </div>
    </div>

    <div class="col-lg-7">
        <div class="panel panel-primary">
            <div class="panel-heading">
                <h3 class="panel-title">Product Details</h3>
            </div>
            <div class="panel-body">
                <h3>{{ product.name }} &nbsp;
                    {% if product.stock > 0 %}
                    <small>(In Stock)</small>
                    {% else %}
                    <small>(Out of Stock)</small>
                    {% endif %}
                </h3>
                <h4>&dollar;{{ product.price / 100 }}</h4>
                <hr />
                {{ product.description }}
                <hr />

                <form action="{{ url_for('add_to_cart') }}" method="POST">
                    {% if product.stock > 0 %}
                    <div class="row">
                        <div class="col-lg-4">
                            <div class="row">
                                <div class="col-lg-12">
                                    Quantity
                                </div>
                                <div class="col-lg-12">
                                    {{ form.csrf_token }}

                                    {{ form.quantity(class='form-control',
type='number', min=1, max=product.stock, step=1, value=1) }}

                                    {{ form.id(value=product.id) }}
                                </div>
                            </div>
                        </div>
                    </div>
                </form>
            </div>
        </div>
    </div>
</div>

```



```

        {% endif %}
    </div>
    <div class="panel-footer">
        {% if product.stock > 0 %}
        <button type="submit" class="btn btn-primary">
            <i class="glyphicon glyphicon-shopping-cart"></i> Add To Cart
        </button>
        {% endif %}
    </div>
</form>
</div>

<div role="tabpanel">
    <!-- Nav tabs -->
    <ul class="nav nav-tabs" role="tablist">
        <li role="presentation" class="active">
            <a href="#description" aria-controls="description" role="tab" data-
toggle="tab">Product Description</a>
        </li>
        <li role="presentation">
            <a href="#shipping" aria-controls="shipping" role="tab" data-
toggle="tab">Shipping Details</a>
        </li>
    </ul>

    <!-- Tab panes -->
    <div class="tab-content">
        <div role="tabpanel" class="tab-pane active" id="description">
            <h3>Product Description</h3>
            {{ product.description }}
        </div>
        <div role="tabpanel" class="tab-pane" id="shipping">
            <h3>Shipping Details</h3>
            $10 Flat Rate
        </div>
    </div>
</div>
</div>
</div>
{% endblock %}

```

Addproduct.html:

```

{% extends "base.html" %}

{% block title %}Add New Product | Trendy Fashion Store{% endblock %}

{% block body %}
<div class="row pad">
    <div class="col-lg-12">
        <h2 class="bold text-center">Add New Product To The Inventory</h2>
    </div>
</div>

<div class="row">
    <div class="col-lg-10 col-lg-offset-1">

```

```

<div class="panel panel-default">
  <form method="POST" action="{{ url_for('add') }}" enctype="multipart/form-
data">
    <div class="panel-body">
      <div class="row">
        {{ form.csrf_token }}
        <div class="col-lg-6">
          <div class="form-group">
            <label>Product Name</label>
            {{ form.name(class='form-control') }}
          </div>

          <div class="form-group">
            <label>Product Price</label>
            {{ form.price(class='form-control') }}
          </div>

          <div class="form-group">
            <label>Opening Stock</label>
            {{ form.stock(class='form-control') }}
          </div>
        </div>
        <div class="col-lg-6">
          <div class="form-group">
            <div class="form-group">
              <label>Description</label>
              {{ form.description(class='form-
control') }}

            </div>

            <label>Product Image</label>
            {{ form.image(class='form-control') }}
          </div>
        </div>
      </div>
    </div>
    <div class="panel-footer">
      <button type="submit" class="btn btn-primary">
        <i class="glyphicon glyphicon-plus-sign"></i> Save Product
      </button>
    </div>
  </form>
</div>
</div>
{% endblock %}
View order.html:
{% extends "base.html" %}

{% block title %}Order Details | Trendy Fashion Store{% endblock %}

{% block body %}
<div class="row pad">
  <div class="col-lg-12">
    <div class="panel panel-default">
      <div class="panel-body">
        <h3 class="bold">ORDER {{ order.reference }} FROM {{ order.first_name + '

```

```

' + order.last_name }}</h3>
<p>Products: {{ order.quantity_total() }} (&dollar;{{ order.order_total() /
100 }})</p>
<p>Status: <span class="badge">{{ order.status }}</span></p>
</div>
</div>
</div>
</div>
<div class="row">
  <div class="col-lg-6">
    <div class="panel panel-default">
      <div class="panel-body">
        <h4>Products Bought</h4>
        </div>
        <div class="table-responsive">
          <table class="table table-striped table-bordered">
            <thead>
              <tr>
                <th>#</th><th>Name</th><th>Price</th><th>Units</th><th>Total</th>
              </tr>
            </thead>
            <tbody>
              {% for item in order.items %}
              <tr>
                <td>{{ item.product_id }}</td>
                <td>{{ item.product.name }}</td>
                <td>&dollar;{{ item.product.price / 100 }}</td>
                <td>{{ item.quantity }}</td>
                <th>&dollar;{{ item.product.price * item.quantity /
100 }}</th>
              </tr>
            {% endfor %}
            <tr>
              <td>0</td>
              <td>Flat Rate Shipping</td>
              <td>&dollar;10.00</td>
              <td>1</td>
              <th>&dollar;10.00</th>
            </tr>
          </tbody>
          <tfoot>
            <tr>
              <th colspan="4" class="text-right">Total</th>
              <th>{{ order.order_total() / 100 }}</th>
            </tr>
          </tfoot>
        </table>
      </div>
    </div>
  </div>
  <div class="col-lg-6">
    <h3 class="strong">Buyer Information</h3>
    <div role="tabpanel">
      <!-- Nav tabs -->
      <ul class="nav nav-tabs" role="tablist">
        <li role="presentation" class="active">

```

```

        <a href="#shipping" aria-controls="shipping" role="tab" data-
toggle="tab">Shipping Info</a>
    </li>
    <li role="presentation">
        <a href="#details" aria-controls="details" role="tab" data-
toggle="tab">Personal Details</a>
    </li>
</ul>

<!-- Tab panes -->
<div class="tab-content">
    <div role="tabpanel" class="tab-pane active" id="shipping">
        <h4 class="bold">Shipping Information</h4>
        <p><i class="glyphicon glyphicon-user"></i> NAME:
<strong>{{ order.first_name + ' ' + order.last_name }}</strong></p>
        <p><i class="glyphicon glyphicon-map-marker"></i> ADDRESS:
            <strong>{{ order.address }}</strong>
        </p>
        <p><i class="glyphicon glyphicon-th"></i> City:
<strong>{{ order.city }}</strong></p>
        <p><i class="glyphicon glyphicon-th"></i> State:
<strong>{{ order.state }}</strong></p>
        <p><i class="glyphicon glyphicon-flag"></i> Country:
<strong>{{ order.country }}</strong></p>
        <hr />
        <p>
            <i class="glyphicon glyphicon-gift"></i>
            Delivery: <strong>Next Day Delivery</strong>
        </p>
        <hr />
        <p>
            <i class="glyphicon glyphicon-piggy-bank"></i>
            Payment Type: <strong>{{ order.payment_type }}</strong>
        </p>
    </div>
    <div role="tabpanel" class="tab-pane" id="details">
        <h4 class="bold">Personal Details Provided</h4>
        <p><i class="glyphicon glyphicon-user"></i> NAME:
<strong>{{ order.first_name + ' ' + order.last_name }}</strong></p>
        <p><i class="glyphicon glyphicon-phone-alt"></i> PHONE:
<strong>{{ order.phone_number }}</strong></p>
        <p>
            <i class="glyphicon glyphicon-envelope"></i> EMAIL:
            <strong>{{ order.email }}</strong>
        </p>
    </div>
</div>
</div>
</div>
{% endblock %}

```

Web-chat.html:

```

<html>
<body>
<script>
window.watsonAssistantChatOptions = {
    integrationID: "1e1722cd-90ae-4848-9eb2-e559c5ab71c8", // The ID of this integration.
    region: "jp-tok", // The region your integration is hosted in.

```

```
serviceInstanceID: "0738c83e-02d9-4636-8b32-0908a70361e3", // 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>
</body>
</html>
```

Output: Login page:

The image displays two overlapping browser windows. The top window shows a web application titled "Trendy Fashion Store" with a dark header and a "Cart" icon. The main content area features a grid of product cards. One card prominently displays a dark grey hoodie labeled "dress" with "View" and "Add To Cart" buttons. Below it, there are images of blue surgical masks and a blister pack of blue pills. A "Watson Assistant" chat interface is overlaid on the right side of the store page, showing a conversation with "hello" and "issues" messages, and a link to a Google Form: <https://forms.gle/mzRkrxs9KW4PnQxU6>. The bottom window shows the Google Form titled "Describe issues here" for an "inventory management app". The form is associated with the email "ssankar1904@gmail.com" and includes fields for "login related issues:" and "Add a product:". It has a purple "Submit" button and a "Clear form" link. The footer of the form states "Never submit passwords through Google Forms." and "This content is neither created nor endorsed by Google." with links to "Report Abuse", "Terms of Service", and "Privacy Policy". The Google Forms logo is at the bottom center.