

**Project Development Phase**  
**Delivery of Sprint-2**

Date	6November 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 import Flask, render_template, redirect, url_for, session
from flask_sqlalchemy import SQLAlchemy
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
import random
```

```
app = Flask(__name__)
db = SQLAlchemy(app)
```

```
@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('/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><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>
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>&dollar;{{ product['price'] / 100 }}</p>
                        <br />
                        <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></a>
                            </p>
                        </div>
                        <div class="col-lg-2">
                            <h3>Quantity</h3>
                            <p>
                                {{ product['quantity'] }}
                            </p>
                        </div>
                        <div class="col-lg-2">
                            <h3>Total</h3>
                            <p>
                                <strong>&dollar;{{ product['total'] /
100 }}</strong>
                            </p>
                        </div>
                    </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 }}</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>
            </form>
        </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>
  </div>
</div>

```

```

        </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>
                </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>

    <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>
{% endblock %}

```

## Output: Login page:

Home | Trendy Fashion Store

127.0.0.1:5000/index

Not syncing

Trendy Fashion Store


Cart

dress

View Add To Cart


pant

View Add To Cart



mask

View Add To Cart



dolo 650

View Add To Cart

At *Trendy Fashion Store*, we offer 24 hours service.  
We offer 7-day money back guarantee and we take buyer protection seriously.  
All our products are of the highest grade.

Chat

View Product | Trendy Fashion Store


127.0.0.1:5000/product/7

Not syncing

Trendy Fashion Store

Cart

Home / View Product



Product Details

mask (In Stock)  
\$1.0

Quantity  
1

Add To Cart

Product Description

Shipping Details

Product Description

Copyright © 2017 Trendy Fashion Store

Chat