

Project Name	Smart Fashion Recommender Application
Team ID	PNT2022TMID09289

### Create a Flask App

Solution:

```
from flask import Flask, render_template
app = Flask(__name__)
@app.route("/signin")
def sign_in():
    return render_template("signin.html")
@app.route('/signup')
def sign_up():
    return render_template("signup.html")
@app.route('/')
def home():
    return render_template("home.html")
@app.route('/about')
def about():
    return render_template("about.html")
if __name__ == '__main__':
    app.run(debug=True)
```

### Add the Home page, About Page

Solution:

Home Page:

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

<head>
    <title>Home</title>
    <!-- Connect Bootstrap -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" /> </head>
```

```

<body background="C:\Users\Rakesh\Desktop\Ass\img\img1.jpg" style="back
ground-size: cover;">
    <!-- NAVBAR -->
    <nav class="navbar navbar-expand bg-
        light"> <div class="container-fluid">
        <a class="navbar-
brand" href="."/"> <strong>Smart Fashion Recommender Application</strong>
    </a>
        <ul class="navbar-nav ms-auto mb-2 mb-lg-0">
            <li class="nav-item">
                <a class="nav-link active" href="/">Home</a> </li>
            <li class="nav-item">
                <a class="nav-link active"
                href='C:\Users\Rakesh\Desktop\Ass\about.html'>About
Us</a> </li>
            <li class="nav-item">
                <a class="nav-link active"
                href="C:\Users\Rakesh\Desktop\Ass\signin.html">Signin</
a> </li>
            <li class="nav-item">
                <a class="nav-link active"
                href="C:\Users\Rakesh\Desktop\Ass\signup.html">Sig
nup</a> </li>
        </ul>
    </div>
</nav>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/b
ootstrap.bundle.min.js"></script>
<br/>
<h1 style="text-
align: center;color: rgb(87, 0, 250);">Smart Fashion Recommender Applic
ation</h1>
<p align="center" style="padding: 5rem;color: rgb(0, 255, 255); font-
weight: 900; font-
size:60px; font">Welcome to Smart Fashion Recommender Application.</p>
</body>
</html>

```

About 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">
<title>Document</title>
</head>
<body background="C:\Users\Rakesh\Desktop\Ass\img\img2.jpg"style="backg
round-size: cover;">
  <h1 style="text-align: center;">About us</h1>
  <p style="font-family: Verdana, Geneva, Tahoma, sans-serif;font-
size: large;">Retailers worldwide have started deploying smart service
innovations in their stores to regain market
  share lost to online competitors. Against this backdrop, this p
aper focuses on the design of product
  recommendation systems for fashion stores. Our research particu
larly aims at answering the issues of
  whether and to what extent (i) the sensing capabilities of smar
t fashion retail environments and (ii) the
  integration of contextual information can improve the quality o
f such recommendations. To this end,
  we consider smart fitting rooms with the ability to detect prod
ucts and customers as a showcase; a
  transaction dataset from a leading German fashion retailer; and
  contextual information about the time
  of purchase, the store type, and the weather conditions. Our pr
eliminary analyses indicate that sensor
  information regarding garment and user identification, as well
as further context data help to improve
  product recommendations in fashion stores.
  </p>
</body>
</html>
```

## Add the Bootstrap

```
1 <!-- Connect Bootstrap -->
2 <link
3   href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
4   rel="stylesheet"
5 />
```

## Add the Sign in page and App the Signup Page + database connectivity

Solution:

Sign in 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">
  <title>Document</title>
  <!-- CSS only -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/boots
trap.min.css" rel="stylesheet" integrity="sha384-
ZenH87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi" cross
origin="anonymous">
</head>
<body>
  <form>
    <!-- Email input -->
    <div class="mb-2">
      <input type="email" id="form2Example1" class="form-
control" />
      <label class="form-
label" for="form2Example1">Email address</label>
    </div>
```

```

    <!-- Password input -->
    <div class="mb-4">
        <input type="password" id="form2Example2" class="form-control" />
        <label class="form-label" for="form2Example2">Password</label>
    </div>

    <!-- 2 column grid layout for inline styling -->
    <div class="row mb-4">
        <div class="col d-flex justify-content-center">
            <div class="col">
                <!-- Submit button -->
                <button type="button" class="btn btn-primary btn-block mb-4">Sign in</button>

                <!-- Register buttons -->
                <div class="text-center">
                    <p>Not a member? <a href="signup.html">Signup</a>
                    <button type="button" class="btn btn-link btn-floating mx-1"> <i class="fab fa-facebook-f"></i>
                    </button>

                    <button type="button" class="btn btn-link btn-floating mx-1"> <i class="fab fa-google"></i>
                    </button>

                    <button type="button" class="btn btn-link btn-floating mx-1"> <i class="fab fa-twitter"></i>
                    </button>

                    <button type="button" class="btn btn-link btn-floating mx-1"> <i class="fab fa-github"></i>
                    </button>
                </div>
            </div>
        </div>
    </form>

    <!-- JavaScript Bundle with Popper -->
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-0ERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3" cross
    origin="anonymous"></script>
</body>
</html>

```

## Sign up 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">
  <title>Document</title>
  <!-- CSS only -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootst
trap.min.css" rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi" cross
origin="anonymous">
</head>

<body>
  <section class="vh-100" style="background-color: #eee;">
    <div class="container h-100">
      <div class="row d-flex justify-content-center align-
items-center h-100">
        <div class="col-lg-12 col-xl-11">
          <div class="card text-black" style="border-
radius: 25px;">
            <div class="card-body p-md-5">
              <div class="row justify-content-center">
                <div class="col-md-10 col-lg-6 col-xl-5 order-
2 order-lg-1">

                  <p class="text-center h1 fw-bold mb-5 mx-1 mx-md-
4 mt-4">Sign up</p>

                  <form class="mx-1 mx-md-4">

                    <div class="d-flex flex-row align-items-
center mb-4">

                      <i class="fas fa-user fa-lg me-3 fa-fw"></i>
                      <div class="form-outline flex-fill mb-0">
                        <input type="text" id="form3Example1c" clas
s="form-control" />
                      <label class="form-
label" for="form3Example1c">Your Name</label>
                    </div>
                  </div>
                </div>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
  </section>
</body>
</html>
```

```

<div class="d-flex flex-row align-items-
center mb-4">
    <i class="fas fa-envelope fa-lg me-3 fa-
fw"></i>
    <div class="form-outline flex-fill mb-0">
        <input type="email" id="form3Example3c" cla
ss="form-control" />
        <label class="form-
label" for="form3Example3c">Your Email</label>
    </div>
</div>

<div class="d-flex flex-row align-items-
center mb-4">
    <i class="fas fa-lock fa-lg me-3 fa-fw"></i>
    <div class="form-outline flex-fill mb-0">
        <input type="password" id="form3Example4c"
class="form-control" />
        <label class="form-
label" for="form3Example4c">Password</label> </div>
    </div>

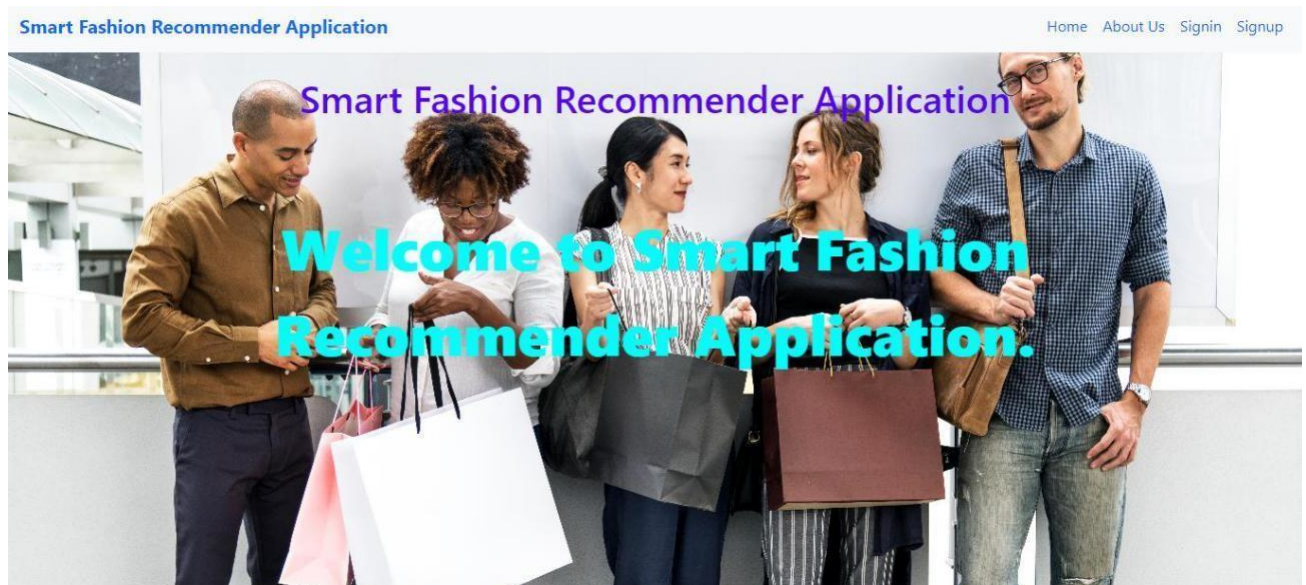
<div class="d-flex flex-row align-items-
center mb-4">
    <i class="fas fa-key fa-lg me-3 fa-fw"></i>
    <div class="form-outline flex-fill mb-0">
        <input type="password" id="form3Example4cd"
class="form-control" />
        <label class="form-
label" for="form3Example4cd">Repeat your password</label>
    </div>
</div>

<div class="form-check d-flex justify-content-
center mb-5">
    <input class="form-check-input me-
2" type="checkbox" value="" id="form2Example3c" />
    <label class="form-check-
label" for="form2Example3">
        I agree all statements in <a href="#!">Term
s of service</a>
    </label>
</div>

<div class="d-flex justify-content-center mx-
4 mb-3 mb-lg-4">

```

```
<button type="button" class="btn btn-primary btn-lg">Register</button>  
    </div>  
  
    </form>  
  
    </div>  
    <div class="col-md-10 col-lg-6 col-xl-7 d-flex align-items-center order-1 order-lg-2">  
  
          
  
    </div>  
    </div>  
    </div>  
    </div>  
    </div>  
    </div>  
    </div>  
    </div>  
    </section>  
    <!-- JavaScript Bundle with Popper -->  
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3" cross  
origin="anonymous"></script>  
</body>  
  
</html>
```





Email address

Password

Sign in

Not a member? [Signup](#)

## Sign up

Your Name

Your Email

Password

Repeat your password

☐ I agree all statements in [Terms of service](#)



## About us

Retailers worldwide have started deploying smart service innovations in their stores to regain market share lost to online competitors. Against this backdrop, this paper focuses on the design of product recommendation systems for fashion stores. Our research particularly aims at answering the issues of whether and to what extent (i) the sensing capabilities of smart fashion retail environments and (ii) the integration of contextual information can improve the quality of such recommendations. To this end, we consider smart fitting rooms with the ability to detect products and customers as a showcase; a transaction dataset from a leading German fashion retailer; and contextual information about the time of purchase, the store type, and the weather conditions. Our preliminary analyses indicate that sensor information regarding garment and user identification, as well as further context data help to improve product recommendations in fashion stores.

