

Implementing Web Application

Date	1 November 2022
Team ID	PNT2022TMID17815
Project Name	Inventory Management System for Retailers.

Login

```
<!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>Login</title>
  <link rel="stylesheet" href="\static\css\bootstrap.min.css" />
  <script src="\static\js\bootstrap.min.js"></script>
  <script src="\static\js\popper.min.js"></script>
</head>

<body>
  <div id="carouselId" class="carousel slide" data-bs-ride="carousel">
    <ol class="carousel-indicators">
      <li data-bs-target="#carouselId" data-bs-slide-to="0" class="active" aria-current="true"
        aria-label="First slide"></li>
      <li data-bs-target="#carouselId" data-bs-slide-to="1" aria-label="Second slide"></li>
      <li data-bs-target="#carouselId" data-bs-slide-to="2" aria-label="Third slide"></li>
      <li data-bs-target="#carouselId" data-bs-slide-to="3" aria-label="Fourth slide"></li>
      <li data-bs-target="#carouselId" data-bs-slide-to="4" aria-label="Fifth slide"></li>
      <li data-bs-target="#carouselId" data-bs-slide-to="5" aria-label="Sixth slide"></li>
    </ol>
    <div class="carousel-inner" role="listbox">
      <div class="carousel-item active">
        
      </div>
      <div class="carousel-item">
        
      </div>
      <div class="carousel-item">
        
      </div>
      <div class="carousel-item">
        
      </div>
      <div class="carousel-item">
        
      </div>
      <div class="carousel-item">
        
      </div>
    </div>
    <button class="carousel-control-prev" type="button" data-bs-target="#carouselId" data-bs-slide="prev">
      <span class="carousel-control-prev-icon" aria-hidden="true"></span>
      <span class="visually-hidden">Previous</span>
    </button>
    <button class="carousel-control-next" type="button" data-bs-target="#carouselId" data-bs-slide="next">
      <span class="carousel-control-next-icon" aria-hidden="true"></span>
```

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        <span class="visually-hidden">Next</span>
    </button>
</div>

<!-- Nav tabs -->
<ul class="nav nav-tabs d-flex justify-content-center" id="myTab" role="tablist" style="background-color:gold;">
    <li class="nav-item" role="presentation">
        <button class="nav-link active" id="login-tab" data-bs-toggle="tab" data-bs-target="#login" type="button"
            role="tab" aria-controls="login" aria-selected="true" style="color:red;">Login</button>
    </li>
    <li class="nav-item" role="presentation">
        <button class="nav-link" id="register-tab" data-bs-toggle="tab" data-bs-target="#register" type="button"
            role="tab" aria-controls="register" aria-selected="false" style="color:red;">Register</button>
    </li>
</ul>

<div class="row" style="max-width: 95vw;">
    <div class="col">
        <div class="row justify-content-center">
            <div class="col-md-6" style="width:25rem;height: fit-content;">
                <div class="p-5 text-white bg-primary border rounded-3">
                    <center>
                        <h3>Customer Problems</h3>
                        <br />
                        <br />
                        <h5>
                            <p>WE FULLFILL YOUR NEEDS !</p>
                        </h5>
                    </div>
                </div>
            </div>
        </div>
        <div class="col">
            <!-- Tab panes -->
            <div class="tab-content">

                <div class="tab-pane active" id="login" role="tabpanel" aria-labelledby="login-tab">
                    <form action="/Login1" method="post" class="form d-flex justify-content-center">
                        <div class="border-3 mt-5 card text-start d-flex p-2 bd-highlight"
                            style="width: 25rem;box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);">
                            <div style="align-self:center;margin-top: -3em;"></div>
                            <div class="card-body">
                                <label class="form-control-label" for="userid">User ID</label>
                                <input type="text" class="form-control" id="userid" name="userid">
                                <label class="form-control-label" for="passwd">Password</label>
                                <input type="password" class="form-control" id="passwd" name="passwd">
                                <div class="d-flex justify-content-center mt-2">
                                    <button type="submit" class="btn btn-primary">Login</button>
                                </div>
                                <div class="d-flex justify-content-center">
                                    <label>If you are new user try register</label>
                                </div>
                            </div>
                        </div>
                    </form>
                </div>
                <div class="tab-pane" id="register" role="tabpanel" aria-labelledby="register-tab">
                    <form action="/Login" method="post" class="form d-flex justify-content-center">

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<div class="border-3 mt-5 card text-start d-flex p-2 bd-highlight"
style="width: 25rem;box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19)">
  <div style="align-self:center;margin-top: -3em;"></div>
  <div class="card-body">
    <label class="form-control-label" for="name">Name</label>
    <input type="text" class="form-control" id="name" name="name">
    <label class="form-control-label" for="contact">Contact</label>
    <input type="number" class="form-control" id="contact" name="contact">
    <label class="form-control-label" for="agencyname">Agency Name</label>
    <input type="text" class="form-control" id="agencyname" name="agencyname">
    <label class="form-control-label" for="company">Company</label>
    <input type="text" class="form-control" id="company" name="company">
    <label class="form-control-label" for="mailid">Mail ID</label>
    <input type="email" class="form-control" id="mailid" name="mailid">
    <div class="d-flex justify-content-center mt-2">
      <button type="submit" class="btn btn-primary">Register</button>
    </div>
    <div class="d-flex justify-content-center">
      <label>If you are existing user try login</label>
    </div>
  </div>
</div>
</div>
</form>
</div>
</div>
</div>
</div>
</div>
</body>

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</html>

```

Dashboard

```

<!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>Dashboard</title>
  <link rel="stylesheet" href="\static\css\bootstrap.min.css" />
  <script src="\static\js\bootstrap.min.js"></script>
  <script src="\static\js\popper.min.js"></script>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@4.7.0/css/font-awesome.min.css">
</head>

<body>
  <div class="mt-5">
    <div id="carouselId" class="carousel slide" data-bs-ride="carousel">
      <ol class="carousel-indicators">
        <li data-bs-target="#carouselId" data-bs-slide-to="0" class="active" aria-current="true"
aria-label="First slide"></li>
        <li data-bs-target="#carouselId" data-bs-slide-to="1" aria-label="Second slide"></li>
        <li data-bs-target="#carouselId" data-bs-slide-to="2" aria-label="Third slide"></li>
        <li data-bs-target="#carouselId" data-bs-slide-to="3" aria-label="Fourth slide"></li>
        <li data-bs-target="#carouselId" data-bs-slide-to="4" aria-label="Fifth slide"></li>
        <li data-bs-target="#carouselId" data-bs-slide-to="5" aria-label="Sixth slide"></li>
      </ol>
      <div class="carousel-inner" role="listbox">
        <div class="carousel-item active">

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    </div>
    <div class="carousel-item">
        
    </div>
    <div class="carousel-item">
        
    </div>
    <div class="carousel-item">
        
    </div>
    <div class="carousel-item">
        
    </div>
    <div class="carousel-item">
        
    </div>
</div>
<button class="carousel-control-prev" type="button" data-bs-target="#carouselId" data-bs-slide="prev">
    <span class="carousel-control-prev-icon" aria-hidden="true"></span>
    <span class="visually-hidden">Previous</span>
</button>
<button class="carousel-control-next" type="button" data-bs-target="#carouselId" data-bs-slide="next">
    <span class="carousel-control-next-icon" aria-hidden="true"></span>
    <span class="visually-hidden">Next</span>
</button>
</div>
</div>
<nav class="navbar navbar-expand-sm navbar-light fixed-top" style="background-color:aqua;">
    <div class="container">
        <a class="navbar-brand" href="Dashboard"><i class="fa fa-bars"></i> Dashboard</a>
        <button class="navbar-toggler d-lg-none" type="button" data-bs-toggle="collapse"
            data-bs-target="#collapsibleNavId" aria-controls="collapsibleNavId" aria-expanded="false"
            aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="collapsibleNavId">
            <ul class="navbar-nav me-auto mt-2 mt-lg-0">
                <li class="nav-item">
                    <form class="d-flex my-2 my-lg-0">
                        <button class="nav-link active border-0"
                            style="right:5px;width:fit-content;background-color: transparent;" type="submit"><i
                                class="fa fa-home"></i>Sales </button>
                    </form>
                </li>
                <li class="nav-item">
                    <form action="Overview" method="post" class="d-flex my-2 my-lg-0">
                        <button class="nav-link active border-0"
                            style="right:5px;width:fit-content;background-color: transparent;" type="submit"><i
                                class="fa fa-home"></i>Overview</button>
                    </form>
                </li>
                <li class="nav-item">
                    <form action="ManageStock" method="post" class="d-flex my-2 my-lg-0">
                        <button class="nav-link active border-0"
                            style="right:5px;width:fit-content;background-color: transparent;" type="submit"><i
                                class="fa fa-home"></i>Manage Stock </button>
                    </form>
                </li>
            </ul>
            <form class="d-flex my-2 my-lg-0">
                <button class="btn btn-outline-success my-2 my-sm-0" style="right:5px;width:fit-content;"
                    type="submit">Logout</button>
            </form>
        </div>
    </div>

```

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    </div>
  </div>
</nav>

<div class="row d-flex justify-content-center" style="padding:5%;width: 95vw;">
  <div class="col-md-6" style="width: 21rem;height: fit-content;">
    <a href="ManageStock" style="text-decoration:none ;">
      <div class="p-5 text-white bg-primary border rounded-3">
        <h3>Make sale</h3>
        
        <br />
        <p>Sell your stock and make profit</p>
      </div>
    </a>
  </div>
  <div class="col-md-6" style="width: 25rem;height: fit-content;">
    <a href="Overview" style="text-decoration:none ;">
      <div class="p-5 text-white bg-primary border rounded-3">
        <h3>Product overview</h3>
        
        <br />
        <p>Have a view on your Inverntory</p>
      </div>
    </a>
  </div>
  <div class="col-md-6" style="width: 21rem;height: fit-content;">
    <a href="ManageStock" style="text-decoration:none ;">
      <div class="p-5 text-white bg-primary border rounded-3">
        <h3>Manage Stock</h3>
        
        <br />
        <p>Add your own stocks for your Inverntory</p>
      </div>
    </a>
  </div>
  <div class="col-md-6" style="width: 25rem;height: fit-content;">
    <div class="p-5 text-white bg-primary border rounded-3">
      <h3>Sales History</h3>
      
      <br />
      <p>We have full filled these problems</p>
    </div>
  </div>
  <div class="col-md-6" style="width: 25rem;height: fit-content;">
    <div class="p-5 text-white bg-primary border rounded-3">
      <h3>Daily Marketting Report</h3>
      
      <br />
      <p>We have full filled these problems</p>
    </div>
  </div>
</div>
</body>
</html>

```

Product Overview

```
<!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>Product Overview</title>
  <link rel="stylesheet" href="\static\css\bootstrap.min.css" />
  <script src="\static\js\bootstrap.min.js"></script>
  <script src="\static\js\popper.min.js"></script>
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
</head>

<body>
  <nav class="navbar navbar-expand-sm navbar-light fixed-top" style="background-color:aqua;">
    <div class="container">
      <a class="navbar-brand" href="Dashboard"><i class="fa fa-bars"></i> Dashboard</a>
      <button class="navbar-toggler d-lg-none" type="button" data-bs-toggle="collapse"
        data-bs-target="#collapsibleNavId" aria-controls="collapsibleNavId" aria-expanded="false"
        aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="collapsibleNavId">
        <ul class="navbar-nav me-auto mt-2 mt-lg-0">
          <li class="nav-item">
            <form class="d-flex my-2 my-lg-0">
              <button class="nav-link active border-0"
                style="right:5px;width:fit-content;background-color: transparent;" type="submit"><i
                  class="fa fa-home"></i>Sales </button>
            </form>
          </li>
          <li class="nav-item">
            <form action="Overview" method="post" class="d-flex my-2 my-lg-0">
              <button class="nav-link active border-0"
                style="right:5px;width:fit-content;background-color: transparent;" type="submit"><i
                  class="fa fa-home"></i>Overview</button>
            </form>
          </li>
          <li class="nav-item">
            <form action="ManageStock" method="post" class="d-flex my-2 my-lg-0">
              <button class="nav-link active border-0"
                style="right:5px;width:fit-content;background-color: transparent;" type="submit"><i
                  class="fa fa-home"></i>Manage Stock </button>
            </form>
          </li>
        </ul>
        <form class="d-flex my-2 my-lg-0">
          <button class="btn btn-outline-success my-2 my-sm-0" style="right:5px;width:fit-content;"
            type="submit">Logout</button>
        </form>
      </div>
    </div>
  </nav>
  <div class="row d-flex justify-content-center " style="padding:5%;width: 95vw;">
    { % for stock,available in stocks % }
    <div class="card mb-3 border-3"
      style="max-width: 540px;box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);">
      <div class="row g-0">
        <div class="col-md-4">
          
        </div>
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<div class="col-md-8">
  <div class="card-body">
    <div style="float:right;">
      {% if available == 1 %}
        <div style="width:2vw;height:3vh;background-color: green; border-radius: 50px;"></div>
      {% elif available == 0 %}
        <div style="width:2vw;height:3vh;background-color: orange; border-radius: 50px;"></div>
      {% else %}
        <div style="width:2vw;height:3vh;background-color: red; border-radius: 50px;"></div>
      {% endif %}
    </div>
    <h5 class="card-title"><u><b>{{ stock[0] }}</b> - {{ stock[1] }}</u></h5>
    MRP : Rs. {{ stock[4] }}<br />Manufacturing Date : {{ stock[2] }}<br />Expiry Date :
    {{ stock[3] }}<br /><small class="text-muted">Available : {{ stock[7] }}</small>
  </div>
</div>
</div>
</div>
{% endfor %}
</div>
</body>
</html>

```

Manage Stock

```

<!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>Manage Stock</title>
  <link rel="stylesheet" href="\static\css\bootstrap.min.css" />
  <script src="\static\js\bootstrap.min.js"></script>
  <script src="\static\js\popper.min.js"></script>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@4.7.0/css/font-awesome.min.css">
</head>

<body>
  <nav class="navbar navbar-expand-sm navbar-light fixed-top" style="background-color:aqua;">
    <div class="container">
      <a class="navbar-brand" href="Dashboard"><i class="fa fa-bars"></i> Dashboard</a>
      <button class="navbar-toggler d-lg-none" type="button" data-bs-toggle="collapse"
        data-bs-target="#collapsibleNavId" aria-controls="collapsibleNavId" aria-expanded="false"
        aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="collapsibleNavId">
        <ul class="navbar-nav me-auto mt-2 mt-lg-0">
          <li class="nav-item">
            <form class="d-flex my-2 my-lg-0">
              <button class="nav-link active border-0"
                style="right:5px;width:fit-content;background-color: transparent;" type="submit"><i
                class="fa fa-home"></i>Sales </button>
            </form>
          </li>
          <li class="nav-item">
            <form action="Overview" method="post" class="d-flex my-2 my-lg-0">
              <button class="nav-link active border-0"
                style="right:5px;width:fit-content;background-color: transparent;" type="submit"><i
                class="fa fa-home"></i>Overview</button>
            </form>
          </li>

```

```

        <li class="nav-item">
            <form action="ManageStock" method="post" class="d-flex my-2 my-lg-0">
                <button class="nav-link active border-0"
                    style="right:5px;width:fit-content;background-color: transparent;" type="submit"><i
                        class="fa fa-home"></i>Manage Stock </button>
            </form>
        </li>
    </ul>
    <form class="d-flex my-2 my-lg-0">
        <button class="btn btn-outline-success my-2 my-sm-0" style="right:5px;width:fit-content;"
            type="submit">Logout</button>
    </form>
</div>
</div>
</nav>
<div class="row" style="margin-top: 5%;">
    <div class="col">
        <a class="btn btn-primary" href="#addStockDivTitle">Add</a>
    </div>
    <div class="col">
        <a class="btn btn-primary" href="#updateStockDivTitle">Update</a>
    </div>
    <div class="col">
        <a class="btn btn-primary" href="#deleteStockDivTitle">Delete</a>
    </div>
</div>
<div class="row d-flex justify-content-center " style="padding:5%;width: 95vw;">
    { % for stock,available in stocks % }
    <div class="card mb-3 border-3"
        style="max-width: 540px;box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);">
        <div class="row g-0">
            <div class="col-md-4">
                
            </div>
            <div class="col-md-8">
                <div class="card-body">
                    <div style="float:right;">
                        { % if available == 1 % }
                        <div style="width:2vw;height:3vh;background-color: green; border-radius: 50px;"></div>
                        { % elif available == 0 % }
                        <div style="width:2vw;height:3vh;background-color: orange; border-radius: 50px;"></div>
                        { % else % }
                        <div style="width:2vw;height:3vh;background-color: red; border-radius: 50px;"></div>
                        { % endif % }
                    </div>
                    <h5 class="card-title"><u><b>{{ stock[0] }}</b> - {{ stock[1] }}</u></h5>
                    MRP : Rs. {{ stock[4] }}<br />Manufacturing Date : {{ stock[2] }}<br />Expiry Date :
                    {{ stock[3] }}<br /><small class="text-muted">Available : {{ stock[7] }}</small>
                </div>
            </div>
        </div>
    </div>
    { % endfor % }
</div>

<h1 id="addStockDivTitle" style="text-align-last:center;color:brown;font-family:fantasy;"><i>ADD THE
STOCK</i></h1>
<center>
    <div id="addStockDiv">
        <form action="addStock" method="post" enctype="multipart/form-data">
            <div class="border-3 mt-2 card text-start d-flex p-2 bd-highligh"
                style="width: 75rem;box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19)">
                <div class="card-body" style="background-color:darkkhaki;">
                    <label class="form-control-label" for="addproductName">Product Name</label>

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```

<input type="text" class="form-control" id="addproductName" name="addproductName">
<div class="row">
  <div class="col"><label class="form-control-label" for="manDate">Manufacturing Date</label>
    <input type="date" class="form-control" id="manDate" name="manDate">
  </div>
  <div class="col">
    <label class="form-control-label" for="expDate">Expiry Date</label>
    <input type="date" class="form-control" id="expDate" name="expDate">
  </div>
</div>
<div class="row">
  <div class="col"><label class="form-control-label" for="mrp">MRP</label>
    <input type="number" class="form-control" id="mrp" name="mrp">
  </div>
  <div class="col">
    <label class="form-control-label" for="qty">Quantity</label>
    <input type="number" class="form-control" id="qty" name="qty">
  </div>
</div>

<label class="form-control-label" for="addProductImage">Product</label>
<input type="file" class="form-control" id="addProductImage" name="addProductImage">
<div class="d-flex justify-content-center mt-2">
  <button type="submit" class="btn btn-primary">Add Stock</button>
</div>
<div class="d-flex justify-content-center">
  <label>Make sure you have entered correct details</label>
</div>
</div>
</div>
</form>
</div>
</center>

```

```
<div id="updateStockDiv">
  <form action="updateStock" method="post">
    <div class="border-3 mt-2 card text-start d-flex p-2 bd-highligh"
      style="width: 75rem;box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19)">
      <div class="card-body" style="background-color:darkgoldenrod;">
        <div class="row">
          <div class="col"><label class="form-control-label" for="pid">Product ID</label>
            <input type="number" class="form-control" id="pid" name="pid" {% if getStock %}
              value="{{ getStock[0] }}" {% endif %}>
          </div>
          <div class="col">
            <input type="submit" class="btn" style="background-color:aqua;margin-top:21px;"
              name="submit" value="Get Stock Details">
          </div>
          <div class="col">
            
</div>
<div class="d-flex justify-content-center">
<label>Make sure you have entered correct details</label>
</div>
</div>
</div>

</form>
</div>
</center>
```

```
<br /><br /><br />
<h1 id="deleteStockDivTitle" style="text-align-last:center;color:brown;font-family:fantasy;"><i>REMOVE THE STOCK</i>
</h1>
<center>
<div id="deleteStockDiv">
<form action="deleteStock" method="post">
<div class="border-3 mt-2 card text-start d-flex p-2 bd-highligh"
style="width: 75rem;box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19)">
<div class="card-body" style="background-color:darksalmon;">
<div class="row">
<div class="col"><label class="form-control-label" for="pid">Product ID</label>
<input type="number" class="form-control" id="pid" name="pid" {% if getStock %}
value="{ { getStock[0] } }" {% endif %} >
</div>
<div class="col">
<input type="submit" class="btn" style="background-color:aqua;margin-top:21px;"
name="submit" value="Get Stock Details">
</div>
<div class="col">


</div>

</div>

<label class="form-control-label" for="addproductName">Product Name</label>

<input type="text" class="form-control" id="addproductName" name="addproductName" {% if

getStock

%} value="{{getStock[1]}}" {% endif %}>

<div class="row">

<div class="col"><label class="form-control-label" for="manDate">Manufacturing Date</label>

<input type="date" class="form-control" id="manDate" name="manDate" {% if getStock %}

value="{{getStock[2]}}" {% endif %}>

</div>

<div class="col">

<label class="form-control-label" for="expDate">Expiry Date</label>

<input type="date" class="form-control" id="expDate" name="expDate" {% if getStock %}

value="{{getStock[3]}}" {% endif %}>

</div>

</div>

<div class="row">

<div class="col"><label class="form-control-label" for="mrp">MRP</label>

<input type="number" class="form-control" id="mrp" name="mrp" {% if getStock %}

value="{{getStock[4]}}" {% endif %}>

</div>

<div class="col">

<label class="form-control-label" for="qty">Quantity</label>

<input type="number" class="form-control" id="qty" name="qty" {% if getStock %}

value="{{getStock[7]}}" {% endif %}>

</div>

</div>

<div class="d-flex justify-content-center mt-2">

<input type="submit" class="btn" style="background-color:aqua;margin-top:21px;"

name="submit" value="Delete Stock">

</div>

<div class="d-flex justify-content-center">

<label>Make sure you have choosen correct stock</label>

</div>

</div>

</div>

</form>

</div>

</center>

</body>

</html>

## App.py

```
from asyncio.windows_events import NULL
import base64
from collections import UserDict
import tkinter as tk
from tkinter import *
import io
from PIL import Image, ImageTk
from threading import activeCount
from turtle import st
from flask import Flask,render_template,request, session, redirect,url_for
import ibm_db
import re
from werkzeug.utils import secure_filename
from werkzeug.datastructures import FileStorage
import PIL
import ibm_boto3
from ibm_botocore.client import Config, ClientError

COS_ENDPOINT="https://s3.jp-tok.cloud-object-storage.appdomain.cloud"
COS_API_KEY_ID="OVhg-B9OTj0Iwjjo1iioS9k-qKY6wahPUGzElt8at-EX"
COS_INSTANCE_CRN="crn:v1:bluemix:public:cloud-object-
storage:global:a/0644cd8c36ef4b70aed577434e50bbc4:b5d94bd0-cad9-4822-9c64-f953cb105e72::"

cos = ibm_boto3.resource("s3",
 ibm_api_key_id=COS_API_KEY_ID,
 ibm_service_instance_id=COS_INSTANCE_CRN,
 config=Config(signature_version="oauth"),
 endpoint_url=COS_ENDPOINT
)

app = Flask(__name__)
app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b0aebb68-94fa-46ec-a1fc-
1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;SECURITY=SSL;SSLServerC
ertificate=DigiCertGlobalRootCA.crt;UID=xbh29234;PWD=Hdy6hbDttv4SomNt;",",")

@app.route('/')

def homer():
 return render_template('Login.html')
```

```

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

@app.route('/Overview', methods = ['POST', "GET"])
def overview():
 stocks = ManageStock1()
 return render_template('ProductOverview.html',stocks=stocks)

@app.route('/Login1', methods = ['POST', "GET"])
def login():
 if request.method == 'POST':
 userid = request.form.get("userid")
 password = request.form.get("passwd")

 if(userid!=" " and password!=" "):
 sql = "select CONTACT from retailer where ID = ?"
 stmt = ibm_db.prepare(conn, sql)
 ibm_db.bind_param(stmt, 1, userid)
 ibm_db.execute(stmt)
 obj = ibm_db.fetch_assoc(stmt)
 try:
 passwd_contact=int(obj['CONTACT'])
 actual_contact = int(password)
 except:
 passwd_contact=0
 actual_contact = -1
 if (passwd_contact!=0) and (passwd_contact == actual_contact):
 session['USERID'] = userid
 return redirect(url_for("dashboard"))
 return render_template('Login.html')

@app.route('/Login', methods = ['POST', "GET"])
def signup():
 if request.method == 'POST':
 name = request.form.get("name")
 contact = request.form.get("contact")
 mailid = request.form.get("mailid")
 company = request.form.get("company")
 agency = request.form.get("agencyname")

 if(name!=" " and contact != " " and mailid != " " and company != " " and agency != " "):
 stmt = ibm_db.prepare(conn, 'select max(ID)+1 as ID from retailer')

```

```

 ibm_db.execute(stmt)
 obj = ibm_db.fetch_assoc(stmt)
 nextID = 0
 print(obj)
 try:
 nextID = int(obj['ID'])
 except:
 nextID = 1001
 sql = f"insert into Retailer values({nextID},{name},{contact},{mailid},{company},{agency})"
 stmt = ibm_db.prepare(conn, sql)
 ibm_db.execute(stmt)
 return render_template('login.html',msg = 'Account created Successfully')
 return render_template('Login.html')

```

def ManageStock1():

```

 try:
 if not session.get("USERID"):
 return redirect("/login")
 userid = session.get("USERID")
 query = f"select * from stock where retailerid = {userid}"
 stmt = ibm_db.prepare(conn, query)
 ibm_db.execute(stmt)
 stocks = []
 available = []
 while True:
 obj = ibm_db.fetch_tuple(stmt)
 if obj :
 stocks.append(obj)
 if int(obj[7]) > 300 :
 available.append(1)
 elif int(obj[7]) > 50:
 available.append(0)
 else:
 available.append(-1)
 else:
 break
 except ClientError as be:
 print("CLIENT ERROR: {0}\n".format(be))
 return render_template('Dashboard.html')
 except Exception as e:
 print("Unable to retrieve bucket contents: {0}".format(e))
 return render_template('Dashboard.html')
 return zip(stocks,available)

```

```

@app.route('/ManageStock', methods = ['POST', "GET"])
def ManageStock():
 try:
 if not session.get("USERID"):
 return redirect("/login")
 userid = session.get("USERID")
 query = f"select * from stock where retailerid = {userid}"
 stmt = ibm_db.prepare(conn, query)
 ibm_db.execute(stmt)
 stocks = []
 available = []
 while True:
 obj = ibm_db.fetch_tuple(stmt)
 if obj :
 stocks.append(obj)
 if int(obj[7]) > 300 :
 available.append(1)
 elif int(obj[7]) > 50:
 available.append(0)
 else:
 available.append(-1)
 else:
 break
 # files = cos.Bucket('imsfr').objects.all()
 # files_names = []
 # for file in files:
 # files_names.append(file.key)
 # # print(file)
 # # print("Item: {0} ({1} bytes)".format(file.key, file.size))
 return render_template('ManageStock.html',stocks = zip(stocks,available),getStock=NULL)

 except ClientError as be:
 print("CLIENT ERROR: {0}\n".format(be))
 return render_template('Dashboard.html')
 except Exception as e:
 print("Unable to retrieve bucket contents: {0}".format(e))
 return render_template('Dashboard.html')

@app.route('/addStock',methods=['POST'])
def upload():
 if request.method == 'POST':
 sname = request.form.get("addproductName")
 mdate = request.form.get("manDate")

```



```

edate = request.form.get("expDate")
mrp = request.form.get("mrp")
qty = request.form.get("qty")
if sname and mdate and edate and mrp and qty:
 if not session.get("USERID"):
 return redirect("/login")
 userid = session.get("USERID")
 query = f"select max(ID)+1 as SID from STOCK where RETAILERID = {userid}"
 stmt = ibm_db.prepare(conn, query)
 ibm_db.execute(stmt)
 obj = ibm_db.fetch_assoc(stmt)
 try:
 StockID=int(obj['SID'])
 except:
 StockID = 1001

 f = request.files['addProductImage']
 Stock_img_name=f"img_{userid}_{StockID}"
 try:
 part_size = 1024 * 1024 * 5

 file_threshold = 1024 * 1024 * 15

 transfer_config = ibm_boto3.s3.transfer.TransferConfig(
 multipart_threshold=file_threshold,
 multipart_chunksize=part_size
)

 content = f.read()
 cos.Object('imsfr', Stock_img_name).upload_fileobj(
 Fileobj=io.BytesIO(content),
 Config=transfer_config
)

 except ClientError as be:
 # print("CLIENT ERROR: {0}\n".format(be))
 return redirect(url_for('login'))

 except Exception as e:
 # print("Unable to complete multi-part upload: {0}".format(e))
 return redirect(url_for('login'))

```

```

 query = f"insert into STOCK
values({StockID},{sname},{mdate},{edate},{mrp},{Stock_img_name},{userid},{qty})"
 stmt = ibm_db.prepare(conn, query)
 ibm_db.execute(stmt)
 return redirect(url_for('ManageStock'))

```

```

try:

```

```

 query = f"select * from stock where retailerid = {userid}"
 stmt = ibm_db.prepare(conn, query)
 ibm_db.execute(stmt)
 obj = ibm_db.fetch_assoc(stmt)
 print(obj)
 files = cos.Bucket('imsfr').objects.all()
 files_names = []
 for file in files:
 files_names.append(file.key)
 # print(file)
 # print("Item: {0} ({1} bytes)".format(file.key, file.size))
 return render_template('ManageStock.html',files=files_names)

```

```

except ClientError as be:

```

```

 # print("CLIENT ERROR: {0}\n".format(be))
 return render_template('login.html')

```

```

except Exception as e:

```

```

 # print("Unable to retrieve bucket contents: {0}".format(e))
 return render_template('login.html')

```

```

@app.route('/updateStock',methods=['POST'])

```

```

def update():

```

```

 if not session.get("USERID"):
 return redirect("/login")
 userid = session.get("USERID")
 if request.method == 'POST':
 if request.form['submit'] == 'Get Stock Details':
 pid = request.form.get("pid")
 query = f"select * from stock where ID = {pid} and retailerid = {userid}"
 stmt = ibm_db.prepare(conn, query)
 ibm_db.execute(stmt)
 stock = ibm_db.fetch_tuple(stmt)
 print(stock)
 stocks = ManageStock1()
 return render_template('ManageStock.html',getStock = stock,stocks=stocks)

```

```

elif request. form['submit'] == 'Update Stock':
 stockID = request.form.get("pid")
 sname = request.form.get("addproductName")
 mdate = request.form.get("manDate")
 edate = request.form.get("expDate")
 mrp = request.form.get("mrp")
 qty = request.form.get("qty")
 if sname and mdate and edate and mrp and qty:
 if not session.get("USERID"):
 return redirect("/login")
 userid = session.get("USERID")

 query = f"update STOCK set
PRODUCT='{sname}',MDATE='{mdate}',EDATE='{edate}',MRP={mrp},Quantity={qty} where
RETAILERID={userid} and ID={stockID}"

 stmt = ibm_db.prepare(conn, query)
 ibm_db.execute(stmt)
 stocks = ManageStock1()
 return redirect(url_for('ManageStock',getStock = stocks))

@app.route('/deleteStock',methods=['POST'])
def delete():
 if not session.get("USERID"):
 return redirect("/login")
 userid = session.get("USERID")
 if request.method == 'POST':
 if request. form['submit'] == 'Get Stock Details':
 pid = request.form.get("pid")
 query = f"select * from stock where ID = {pid} and retailerid = {userid}"
 stmt = ibm_db.prepare(conn, query)
 ibm_db.execute(stmt)
 stock = ibm_db.fetch_tuple(stmt)
 print(stock)
 stocks = ManageStock1()
 return render_template('ManageStock.html',getStock = stock,stocks=stocks)
 elif request. form['submit'] == 'Delete Stock':
 stockID = request.form.get("pid")
 sname = request.form.get("addproductName")
 mdate = request.form.get("manDate")
 edate = request.form.get("expDate")
 mrp = request.form.get("mrp")
 qty = request.form.get("qty")
 if sname and mdate and edate and mrp and qty:

```

```
if not session.get("USERID"):
 return redirect("/login")
userid = session.get("USERID")

query = f'delete from STOCK where RETAILERID={userid} and ID={stockID}'
stmt = ibm_db.prepare(conn, query)
ibm_db.execute(stmt)
stocks = ManageStock1()
return redirect(url_for('ManageStock',getStock = stocks))
```

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

## Screen shots: **Register**

Browser window showing the Register page for an inventory management system. The browser address bar displays 127.0.0.1:5000. The page features a yellow header with "Login" and "Register" links. The main content area includes a blue box on the left titled "Customer Problems" with an image of figures on a bar chart and the text "WE FULLFILL YOUR NEEDS !". On the right, there is a registration form with fields for Name, Contact, Agency Name, Company, and Mail ID, followed by a "Register" button. Below the button, it says "If you are existing user try login".

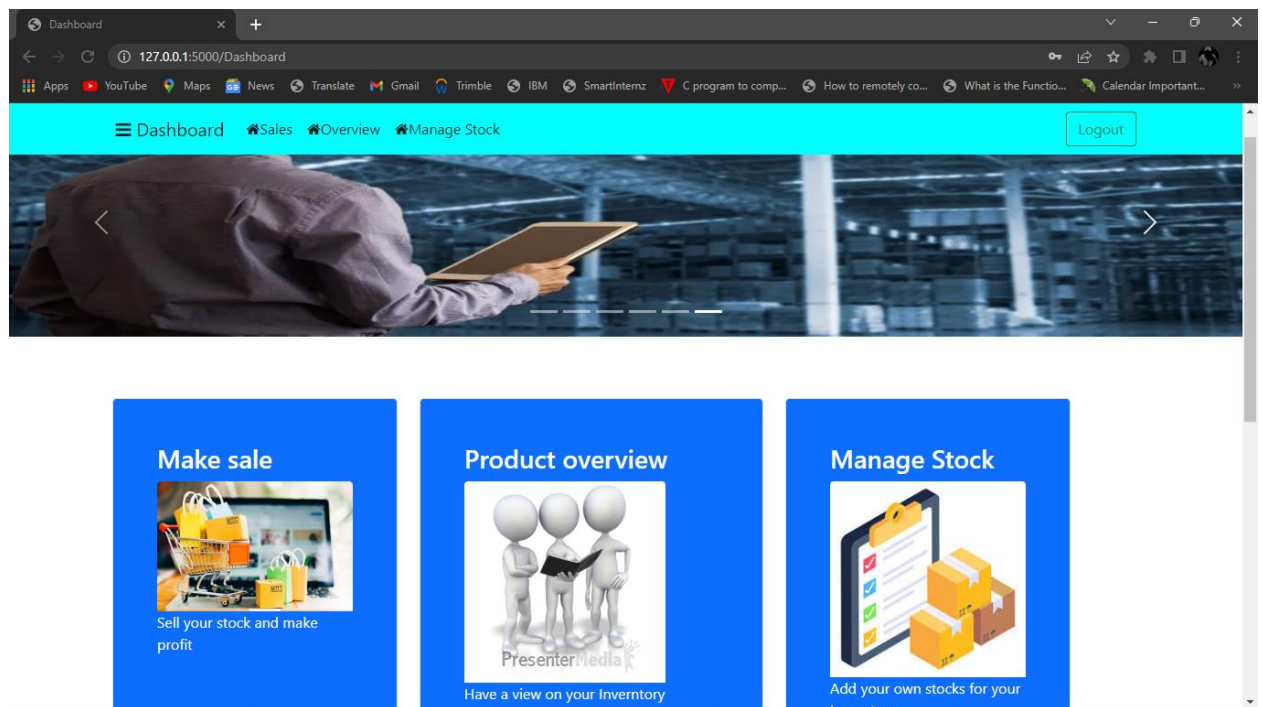
Browser window showing the Register page for an inventory management system. The browser address bar displays 127.0.0.1:5000. The page features a yellow header with "Login" and "Register" links. The main content area includes a blue box on the left titled "Customer Problems" with an image of figures on a bar chart and the text "WE FULLFILL YOUR NEEDS !". On the right, there is a registration form with fields for Name, Contact, Agency Name, Company, and Mail ID, followed by a "Register" button. Below the button, it says "If you are existing user try login".

## Login

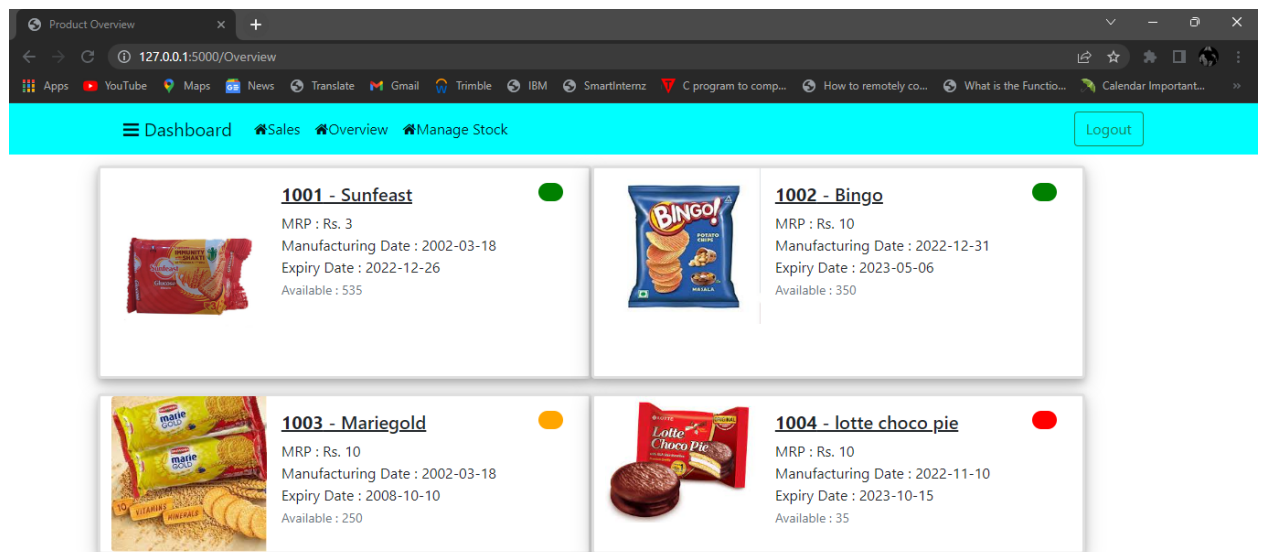
Browser window showing the Login page for a T3 WMS system. The browser address bar displays 127.0.0.1:5000. The page features a yellow header with "Login" and "Register" links. The main content area includes a blue box on the left titled "Customer Problems" with an image of figures on a bar chart and the text "WE FULLFILL YOUR NEEDS !". On the right, there is a login form with fields for User ID and Password, followed by a "Login" button. Below the button, it says "If you are new user try register".

Browser window showing the Login page for a T3 WMS system. The browser address bar displays 127.0.0.1:5000. The page features a yellow header with "Login" and "Register" links. The main content area includes a blue box on the left titled "Customer Problems" with an image of figures on a bar chart and the text "WE FULLFILL YOUR NEEDS !". On the right, there is a login form with fields for User ID and Password, followed by a "Login" button. Below the button, it says "If you are new user try register".

## Dashboard



## Product Overview



## Add Stock

Manage Stock

127.0.0.1:5000/ManageStock

AppsYouTubeMapsNewsTranslateGmailTrimbleIBMSmartIntenzC program to comp...How to remotely co...What is the Functio...Calendar Important...

DashboardSalesOverviewManage StockLogout

### ADD THE STOCK

Product Name

Manufacturing Date

dd-mm-yyyy

Expiry Date

dd-mm-yyyy

MRP

Quantity

Product

Choose FileNo file chosen

Add Stock

Make sure you have entered correct details

## Update Stock

Manage Stock

127.0.0.1:5000/ManageStock


AppsYouTubeMapsNewsTranslateGmailTrimbleIBMSmartIntenzC program to comp...How to remotely co...What is the Functio...Calendar Important...

DashboardSalesOverviewManage StockLogout

### UPDATE THE STOCK

Product ID

Get Stock Details



Product Name

Manufacturing Date

dd-mm-yyyy

Expiry Date

dd-mm-yyyy

MRP

Quantity

Update Stock

Make sure you have entered correct details

# Delete Stock

Manage Stock

127.0.0.1:5000/ManageStock

AppsYouTubeMapsNewsTranslateGmailTrimbleIBMSmartInternzC program to comp...How to remotely co...What is the Funcio...Calendar Importan...


DashboardSalesOverviewManage StockLogout

Make sure you have entered correct details

REMOVE THE STOCK

Product ID

Get Stock Details



Product Name

Manufacturing Date

dd-mm-yyyy

Expiry Date

dd-mm-yyyy

MRP

Quantity

Delete Stock

Make sure you have choosen correct stock