**Project Development Phase**

**Sprint -**

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| --- | --- |
| **Team ID** | **PNT2022TMID19193** |
| **Team Members Name** | **Danush P S,Praveen Babu R, Shalinisri J, Kavipriyaa P** |

**views.py**

*from* django.contrib.auth.models *import* User, auth  
*from* django.shortcuts *import* render, redirect  
*from* django.utils *import* timezone  
*from* .models *import* Stock  
  
  
*def* redirector(request):  
 *return* redirect("/home")  
  
  
*def* home(request):  
 *if* request.user.is\_authenticated:  
 *try*:  
 Latest\_Added\_Stock = Stock.objects.order\_by('-Recently\_Updated')[0]  
 *except*:  
 Latest\_Added\_Stock = *None  
 if* Latest\_Added\_Stock *is None*:  
 *return* render(request, 'Inventory\_Management\_For\_Retailers/home.html', dict())  
 *else*:  
 *return* render(request, 'Inventory\_Management\_For\_Retailers/home.html', {'Last\_Stock': Latest\_Added\_Stock})  
 *return* render(request, 'Inventory\_Management\_For\_Retailers/home.html', dict())  
  
  
*def* login(request):  
 *if* request.user.is\_authenticated:  
 *return* redirect('/')  
 *else*:  
 *if* request.method == 'POST':  
 username = request.POST['username']  
 password = request.POST['password']  
 user = auth.authenticate(username=username, password=password)  
 *if* user *is not None*:  
 auth.login(request, user)  
 print('Authenticated')  
 *return* redirect("/")  
 *else*:  
 *return* render(request, 'Inventory\_Management\_For\_Retailers/login.html',  
 {"error\_message": "Invalid Credentials"})  
 *else*:  
 *return* render(request, 'Inventory\_Management\_For\_Retailers/login.html', dict())  
 *# return HttpResponse("This is a Login Page")  
  
  
def* register(request):  
 *if* request.method == 'POST':  
 username = request.POST['username']  
 first\_name = request.POST['firstname']  
 last\_name = request.POST['lastname']  
 password1 = request.POST['password']  
 password2 = request.POST['password\_repeat']  
 *if* User.objects.filter(username=username).exists():  
 *return* render(request, "Inventory\_Management\_For\_Retailers/register.html",  
 {'error\_message': "User already Exists"})  
 *elif* password1 != password2:  
 *return* render(request, "Inventory\_Management\_For\_Retailers/register.html",  
 {'error\_message': "Password Mismatched"})  
 *else*:  
 user = User.objects.create\_user(username=username, password=password1, first\_name=first\_name,  
 last\_name=last\_name)  
 user.save()  
 *return* redirect("/")  
 *else*:  
 *return* render(request, template\_name="Inventory\_Management\_For\_Retailers/register.html")  
  
  
*def* logout(request):  
 auth.logout(request)  
 *return* redirect('/')  
  
  
*def* addStock(request):  
 *if not* request.user.is\_authenticated:  
 *return* redirect("/login", error\_message="You've not Logged In!")  
 *if* User.is\_authenticated:  
 *if* request.method == 'POST':  
 product\_name = request.POST['product\_name']  
 No\_of\_Stocks = request.POST['no\_of\_stocks']  
 Price = request.POST['price']  
 Tax = request.POST['tax']  
 New\_Stock = Stock(Product\_Name=product\_name, No\_of\_stocks=No\_of\_Stocks, Date\_Added=timezone.now(),  
 Recently\_Updated=timezone.now(), Price=Price, Tax=Tax)  
 New\_Stock.save()  
 *# redirect(reverse('Inventory\_Management\_For\_Retailers:home', kwargs={'stock\_data':"Stock Added Succesfully"}))  
 # return HttpResponseRedirect(reverse('Inventory\_Management\_For\_Retailers:results', args=(question.id,)))  
 return* redirect("/", {'stock\_data': "Stock Added Succesfully"})  
 *# return render(request,'Inventory\_Management\_For\_Retailers/home.html',{'stock\_data':"Stock Added Succesfully"})  
 return* render(request, 'Inventory\_Management\_For\_Retailers/addStock.html', dict())  
  
  
*def* removeStock(request):  
 *if not* request.user.is\_authenticated:  
 *return* redirect("/login", error\_message="You've not Logged In!")  
 *if* request.method == 'POST':  
 *try*:  
 Selected\_Stock\_id = request.POST['stock']  
 Selected\_No\_Of\_Stocks = int(request.POST['Quantity'])  
 *# selected\_stock=Stock.get(Product\_Name="stock")  
 except*:  
 Stocks = Stock.objects.all()  
 *return* render(request, "Inventory\_Management\_For\_Retailers/removeStock.html",  
 {'Stocks': Stocks, 'error': "select a Stock"})  
 *else*:  
 Stock\_To\_Be\_Removed = Stock.objects.get(id=Selected\_Stock\_id)  
 Stocks = Stock.objects.all()  
 *if* Selected\_No\_Of\_Stocks < 0:  
 *return* render(request, "Inventory\_Management\_For\_Retailers/removeStock.html", {'error\_message': "Enter a Positive Value!", 'Stocks': Stocks})  
 Available\_Stocks = Stock\_To\_Be\_Removed.No\_of\_stocks  
 *if* Stock\_To\_Be\_Removed.No\_of\_stocks < Selected\_No\_Of\_Stocks:  
 *return* render(request, "Inventory\_Management\_For\_Retailers/removeStock.html", {  
 'error\_message': "The Available No of Stocks for " + Stock\_To\_Be\_Removed.Product\_Name + " " + str(  
 Available\_Stocks), 'Stocks': Stocks})  
 *else*:  
 Stock\_To\_Be\_Removed.No\_of\_stocks -= Selected\_No\_Of\_Stocks  
 Stock\_To\_Be\_Removed.save()  
 *if* Stock\_To\_Be\_Removed.No\_of\_stocks == 0:  
 Stock\_To\_Be\_Removed.delete()  
 *return* redirect('/')  
 Stocks = Stock.objects.all()  
 *return* render(request, "Inventory\_Management\_For\_Retailers/removeStock.html", {'Stocks': Stocks})  
  
  
*def* viewstock(request):  
 *if not* request.user.is\_authenticated:  
 *return* redirect("/login", error\_message="You've not Logged In!")  
 *else*:  
 Stocks = Stock.objects.all()  
 *return* render(request, "Inventory\_Management\_For\_Retailers/viewStock.html", {"Stocks": Stocks})  
  
  
*def* editStock(request):  
 *if not* request.user.is\_authenticated:  
 *return* redirect("/login", error\_message="You've not Logged In!")  
 *else*:  
 Stocks = Stock.objects.all()  
 *return* render(request, "Inventory\_Management\_For\_Retailers/editStock.html", {"Stocks": Stocks})

**models.py**

*from* django.db *import* models  
  
  
*class* Stock(models.Model):  
 Product\_Name = models.CharField(max\_length=100)  
 Recently\_Updated = models.DateTimeField('date Updated')  
 Date\_Added = models.DateTimeField('date Added')  
 No\_of\_stocks = models.IntegerField(default=0)  
 Price = models.DecimalField(  
 max\_digits=10,  
 decimal\_places=2,  
 default=0)  
 Tax = models.DecimalField(  
 max\_digits=5,  
 decimal\_places=2,  
 default=0)  
  
 *def* \_\_str\_\_(*self*) -> str:  
 *return self*.Product\_Name + " - No of Stocks " + str(*self*.No\_of\_stocks)

**TEMPLATES**

**home.html**

<!DOCTYPE *html*>  
<html *lang*="en">  
  
<head>  
 <meta *charset*="UTF-8">  
 <link *href*="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" *rel*="stylesheet" *integrity*="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"  
 *crossorigin*="anonymous">  
 {% *load* static %}  
 <script *src*="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" *integrity*="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"  
 *crossorigin*="anonymous">  
 </script>  
 <meta *http-equiv*="X-UA-Compatible" *content*="IE=edge">  
 <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">  
 <style>  
 .Last\_Stock{  
 text-align: center;  
 font-size: x-large;  
 font-family: "Roboto", "Lucida Grande", "DejaVu Sans", "Bitstream Vera Sans", Verdana, Arial, sans-serif;  
 font-stretch: semi-expanded;  
 }  
 </style>  
 <title>Document</title>  
</head>  
<body>  
 <nav *class*="navbar navbar-expand-lg navbar-dark bg-primary" *style*="padding: 15px">  
 <a *class*="navbar-brand" *href*="#">GST System</a>  
 <button *class*="navbar-toggler" *type*="button" *data-toggle*="collapse" *data-target*="#navbarText" *aria-controls*="navbarText" *aria-expanded*="false" *aria-label*="Toggle navigation">  
 <span *class*="navbar-toggler-icon"></span>  
 </button>  
 <div *class*="collapse navbar-collapse" *id*="navbarSupportedContent">  
 <ul *class*="navbar-nav mr-auto">  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:home' %}" *class*="nav-link active"><li *class*="nav-item">Home</li></a>  
 {%*if* user.is\_authenticated%}  
 <a *href*="#" *class*="nav-link"><li *class*="nav-item">Hello, {{user.first\_name }}</li></a>  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:logout' %}" *class*="nav-link"><li *class*="nav-item">Logout</li></a>  
 {%*else*%}  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:login' %}" *class*="nav-link"><li *class*="nav-item">Login</li></a>  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:register' %}" *class*="nav-link"><li *class*="nav-item">Register</li></a>  
 <a *href*="/admin" *class*="nav-link">Admin</a>  
 {%*endif*%}  
 <a *href*="#" *class*="nav-link disabled"><li *class*="nav-item">Help</li></a>  
 </ul>  
 </div>  
 </nav>  
 <div *class*="maincontent">  
 {%*if* user.is\_authenticated%}  
 <div *class*="container" *style*="padding: 20px">  
 <div *class*="row">  
 <div *class*="col-4">  
 <div *class*="card" *style*="width: 18rem;">  
 <img *src*="https://images.ctfassets.net/wdjnw2prxlw8/7hj1amrL1QikFl19nNYGPG/5948ec41ac8c95c037177f99e08e5fb2/warehouse.jpeg" *class*="card-img-top" *alt*="View\_Stock">  
 <div *class*="card-body">  
 <h5 *class*="card-title">Add Stock</h5>  
 <p *class*="card-text">Click Here to Add the Newly Arrived Stocks.</p>  
 <a *href*="{% *url* 'Inventory\_Management\_For\_Retailers:addStock' %}" *class*="btn btn-primary">Add Stock</a>  
 </div>  
 </div>  
 </div>  
 <div *class*="col-4">  
 <div *class*="card" *style*="width: 18rem;">  
 <img *src*="https://thumbs.dreamstime.com/b/side-view-young-man-removing-drink-refrigerator-shopping-grocery-store-male-buyer-shopping-supermarket-170484949.jpg" *class*="card-img-top" *alt*="View\_Stock">  
 <div *class*="card-body">  
 <h5 *class*="card-title">Remove Stock</h5>  
 <p *class*="card-text">Click Here to Remove the Available Stocks.</p>  
 <a *href*="{% *url* 'Inventory\_Management\_For\_Retailers:removeStock' %}" *class*="btn btn-primary">Remove Stock</a>  
 </div>  
 </div>  
 </div>  
 <div *class*="col-4">  
 <div *class*="card" *style*="width: 18rem;">  
 <img *src*="https://media.istockphoto.com/id/1138429558/photo/rows-of-shelves.jpg?s=612x612&w=is&k=20&c=G6ZPRSN7RPpywzpaOSVFrNw5BNDp0nXTpPD4MrXnK4I=" *class*="card-img-top" *alt*="View\_Stock">  
 <div *class*="card-body">  
 <h5 *class*="card-title">View Stock</h5>  
 <p *class*="card-text">Click Here to View the Available Stocks.</p>  
 <a *href*="{% *url* 'Inventory\_Management\_For\_Retailers:viewstock' %}" *class*="btn btn-primary">View Stock</a>  
 </div>  
 </div>  
 </div>  
 </div>  
 </div>  
 {%*if* stock\_data%}  
 {{stock\_data}}  
 {% *endif* %}  
 {% *endif* %}  
 <br>  
 <div *class*="Last\_Stock">  
 {% *if* Last\_Stock %}  
 <br>  
 Last Added Stock - {{Last\_Stock.Product\_Name}}. Quantity - {{Last\_Stock.No\_of\_stocks}}  
 {% *endif* %}  
 </div>  
 </div>  
</body>  
</html>

**addStock.html**

<!DOCTYPE *html*>  
<html *lang*="en">  
  
<head>  
 <meta *charset*="UTF-8"> {% *load* static %}  
 <link *href*="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" *rel*="stylesheet" *integrity*="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"  
 *crossorigin*="anonymous">  
 {% *load* static %}  
 <script *src*="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" *integrity*="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"  
 *crossorigin*="anonymous">  
 </script>  
 <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>  
 <nav *class*="navbar navbar-expand-lg navbar-dark bg-primary" *style*="padding: 15px">  
 <a *class*="navbar-brand" *href*="#">GST System</a>  
 <button *class*="navbar-toggler" *type*="button" *data-toggle*="collapse" *data-target*="#navbarText" *aria-controls*="navbarText" *aria-expanded*="false" *aria-label*="Toggle navigation">  
 <span *class*="navbar-toggler-icon"></span>  
 </button>  
 <div *class*="collapse navbar-collapse" *id*="navbarSupportedContent">  
 <ul *class*="navbar-nav mr-auto">  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:home' %}" *class*="nav-link active"><li *class*="nav-item">Home</li></a>  
 {%*if* user.is\_authenticated%}  
 <a *href*="#" *class*="nav-link"><li *class*="nav-item">Hello, {{user.first\_name }}</li></a>  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:logout' %}" *class*="nav-link"><li *class*="nav-item">Logout</li></a>  
 {%*else*%}  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:login' %}" *class*="nav-link"><li *class*="nav-item">Login</li></a>  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:register' %}" *class*="nav-link"><li *class*="nav-item">Register</li></a>  
 <a *href*="/admin" *class*="nav-link">Admin</a>  
 {%*endif*%}  
 <a *href*="#" *class*="nav-link disabled"><li *class*="nav-item">Help</li></a>  
 </ul>  
 </div>  
 </nav>  
 {%*if* user.is\_authenticated%}  
 <form *method*="POST" *action*="addstock" *class*="form-group">  
 {% *csrf\_token* %}  
 {{stock\_data}}<br>  
 Product Name: <input *type*="text" *name*="product\_name" *autocomplete*="off"><br><br>  
 No Of Stocks: <input *type*="number" *name*="no\_of\_stocks" *autocomplete*="off" *min*="0"><br><br>  
 Price : <input *type*="number" *required name*="price" *min*="0" *step*="any"><br><br>  
 Tax : <input *type*="number" *required name*="tax" *min*="0" *step*="any"><br><br><br>  
 <input *type*="submit" *value*="Add Stock" *class*="btn btn-primary">  
 </form>  
 {% *endif* %}  
 </body>  
</html>

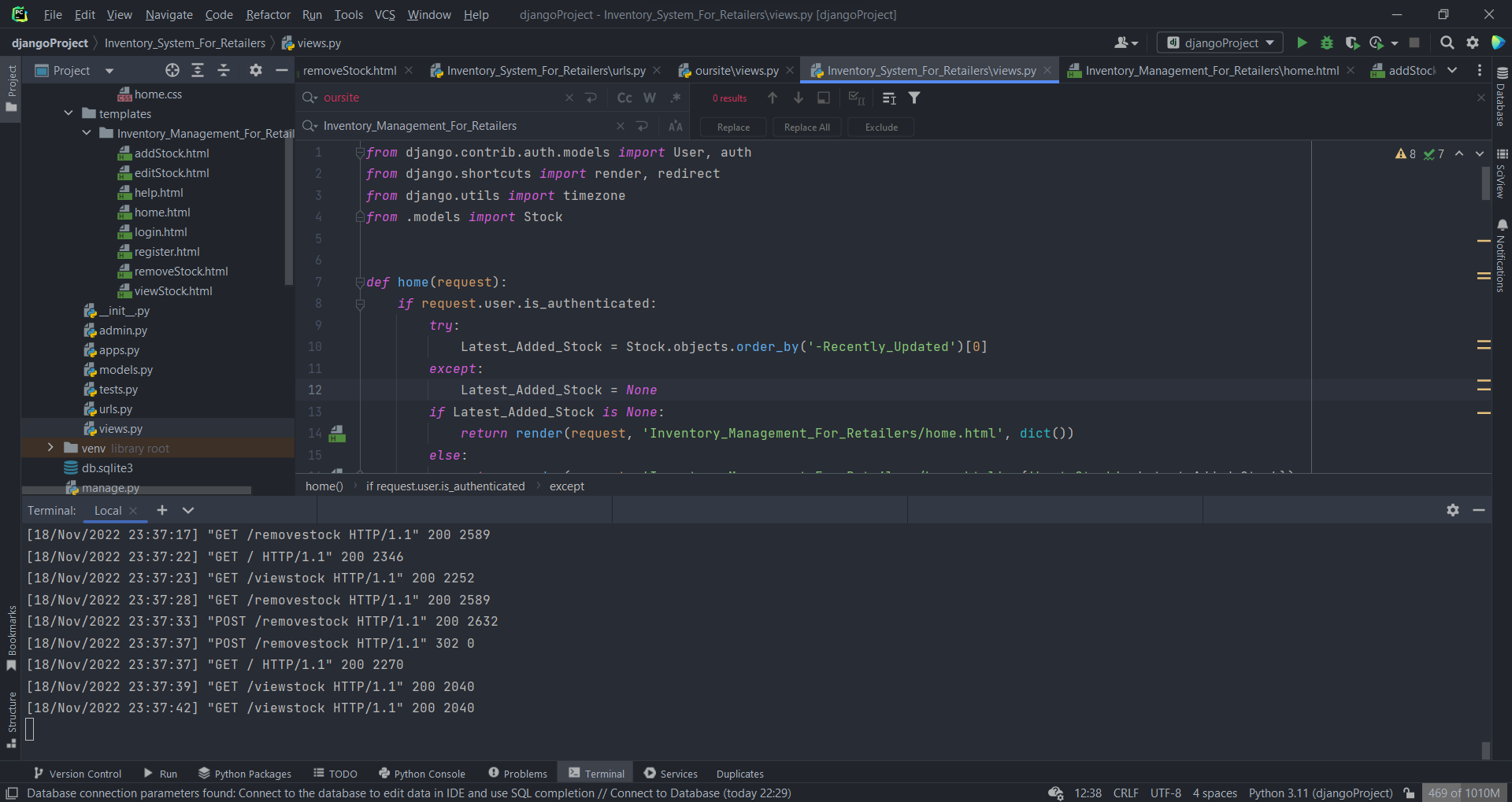
**viewStock.html**

<!DOCTYPE *html*>  
<html *lang*="en">  
  
<head>  
 <meta *charset*="UTF-8">  
 <link *href*="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" *rel*="stylesheet" *integrity*="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"  
 *crossorigin*="anonymous">  
 {% *load* static %}  
 <script *src*="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" *integrity*="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"  
 *crossorigin*="anonymous">  
 </script>  
 <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>  
 <nav *class*="navbar navbar-expand-lg navbar-dark bg-primary" *style*="padding: 15px;">  
 <a *class*="navbar-brand" *href*="#">GST System</a>  
 <button *class*="navbar-toggler" *type*="button" *data-toggle*="collapse" *data-target*="#navbarText" *aria-controls*="navbarText" *aria-expanded*="false" *aria-label*="Toggle navigation">  
 <span *class*="navbar-toggler-icon"></span>  
 </button>  
 <div *class*="collapse navbar-collapse" *id*="navbarSupportedContent">  
 <ul *class*="navbar-nav mr-auto">  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:home' %}" *class*="nav-link active"><li *class*="nav-item">Home</li></a>  
 {%*if* user.is\_authenticated%}  
 <a *href*="#" *class*="nav-link"><li *class*="nav-item">Hello, {{user.first\_name }}</li></a>  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:logout' %}" *class*="nav-link"><li *class*="nav-item">Logout</li></a>  
 {%*else*%}  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:login' %}" *class*="nav-link"><li *class*="nav-item">Login</li></a>  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:register' %}" *class*="nav-link"><li *class*="nav-item">Register</li></a>  
 <a *href*="/admin" *class*="nav-link">Admin</a>  
 {%*endif*%}  
 <a *href*="#" *class*="nav-link disabled"><li *class*="nav-item">Help</li></a>  
 </ul>  
 </div>  
 </nav>  
 <div *class*="view" *style*="padding: 20px">  
 <table *class*="table table-success table-striped" *style*="border: 1px solid rgb(2, 117, 216);">  
 <thead *style*="padding: 2px">  
 <tr>  
 <th *scope*="col">S.No</th>  
 <th *scope*="col">Product Name</th>  
 <th *scope*="col">Available</th>  
 <th *scope*="col">Market Price</th>  
 <th *scope*="col">Tax (In Percentage)</th>  
 </tr>  
 </thead>  
 <tbody>  
 {%*for* stock *in* Stocks%}  
 <tr>  
 <td>{{forloop.counter}}</td>  
 <td>{{stock.Product\_Name}}</td>  
 <td>{{stock.No\_of\_stocks}}</td>  
 <td>{{stock.Price}}</td>  
 <td>{{stock.Tax}}</td>  
 </tr>  
 </tbody>  
 {%*endfor*%}  
 </div>  
</body>  
</html>

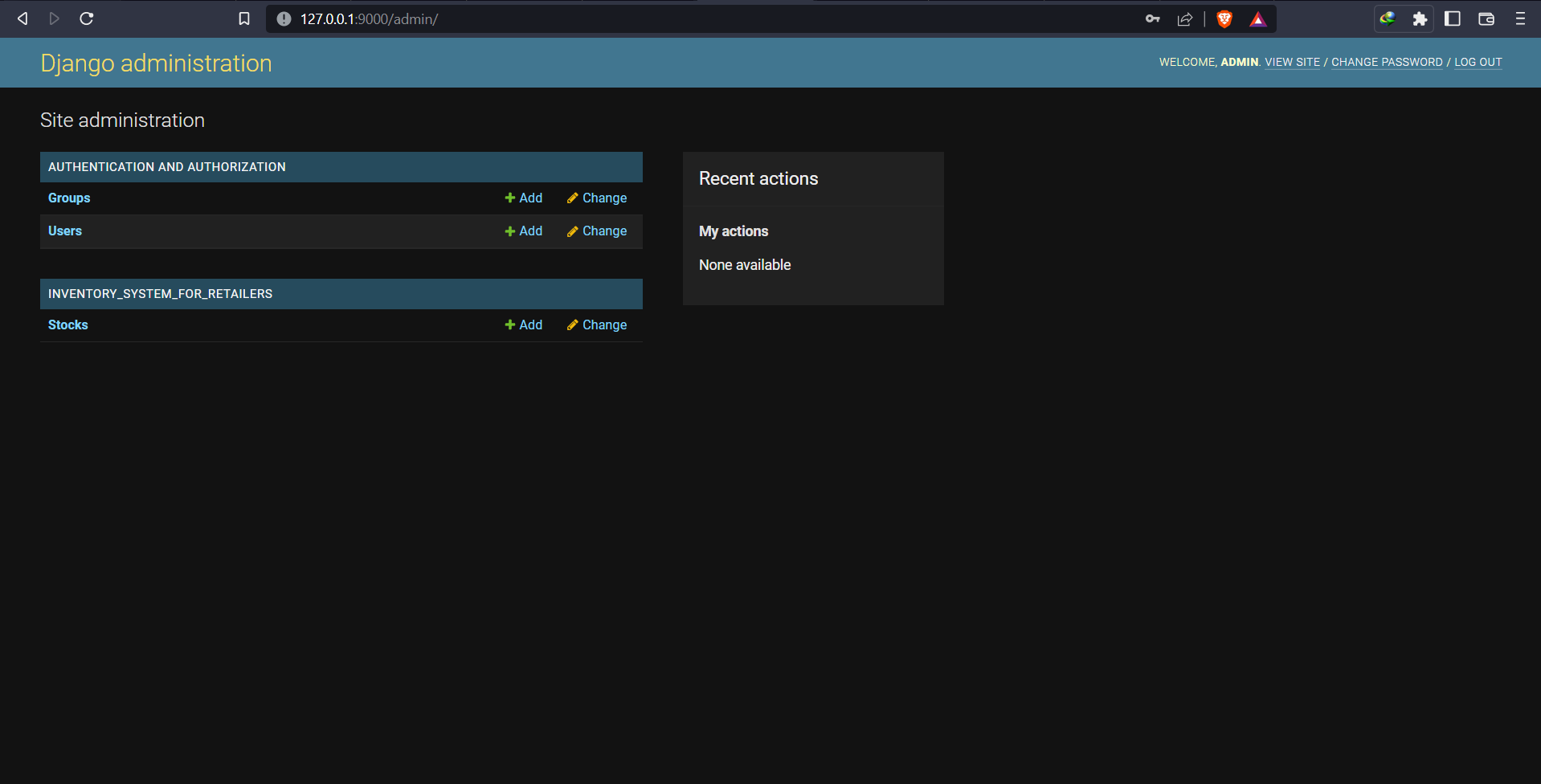
**removeStock.html**

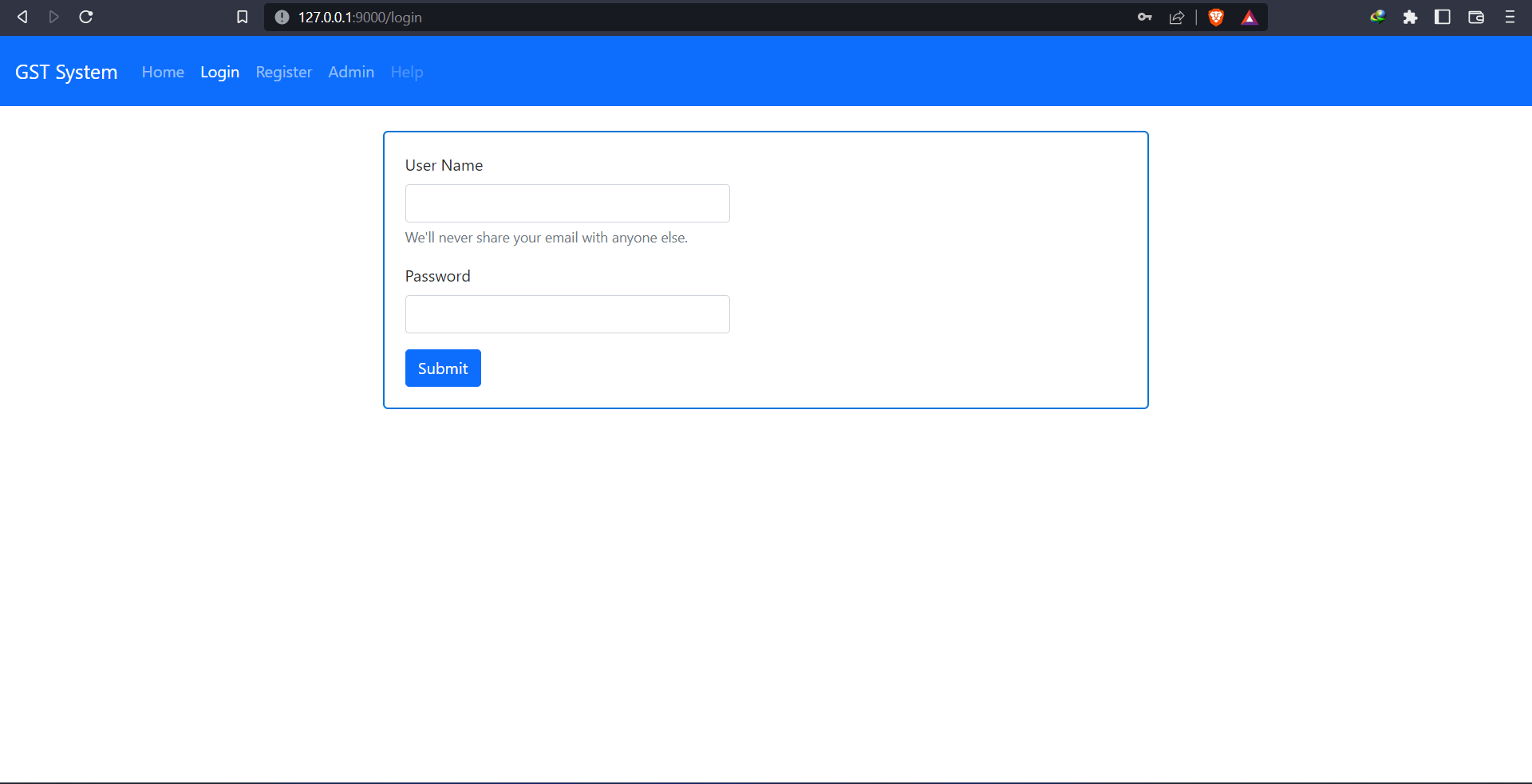
<!DOCTYPE *html*>  
<html *lang*="en">  
 <head>  
 <meta *charset*="UTF-8">  
 {% *load* static %}  
 <link *href*="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" *rel*="stylesheet" *integrity*="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" *crossorigin*="anonymous">  
 {% *load* static %}  
 <script *src*="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" *integrity*="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p" *crossorigin*="anonymous"></script>  
 <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>   
 <nav *class*="navbar navbar-expand-lg navbar-dark bg-primary" *style*="padding: 15px">  
  
 <a *class*="navbar-brand" *href*="#">GST System</a>  
 <button *class*="navbar-toggler" *type*="button" *data-toggle*="collapse" *data-target*="#navbarText" *aria-controls*="navbarText" *aria-expanded*="false" *aria-label*="Toggle navigation">  
 <span *class*="navbar-toggler-icon"></span>  
 </button>  
 <div *class*="collapse navbar-collapse" *id*="navbarSupportedContent">  
 <ul *class*="navbar-nav mr-auto">  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:home' %}" *class*="nav-link"><li *class*="nav-item">Home</li></a>  
 {%*if* user.is\_authenticated%}  
 <a *href*="#" *class*="nav-link"><li *class*="nav-item">Hello, {{user.first\_name }}</li></a>  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:logout' %}" *class*="nav-link"><li *class*="nav-item">Logout</li></a>  
 {%*else*%}  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:login' %}" *class*="nav-link"><li *class*="nav-item">Login</li></a>  
 <a *href*="{%*url* 'Inventory\_Management\_For\_Retailers:register' %}" *class*="nav-link"><li *class*="nav-item">Register</li></a>  
 <a *href*="/admin" *class*="nav-link">Admin</a>  
 {%*endif*%}  
 <a *href*="#" *class*="nav-link disabled"><li *class*="nav-item">Help</li></a>  
 </ul>  
 </div>  
 </nav>  
 {%*if* user.is\_authenticated%}  
 {{error\_message}}  
 <form *method*="POST" *action*="removestock">  
 {% *csrf\_token* %}  
 <label *for*="stock">Select the Stock to remove</label>  
 <select *name*="stock" *id*="stock" *onchange*="toggle()">  
 <option *disabled selected value*> -- select an option -- </option>  
 {% *for* stock *in* Stocks %}  
 <option *value*="{{stock.id}}">{{stock.Product\_Name}}</option>  
 {% *endfor* %}  
 </select>  
 <br><br>  
 <div *id*="next" *style*="display:none;">  
 <label *for*="Quantity"> No Of Items</label>  
 <input *type*="number" *name*="Quantity"><br><br>  
 <input *type*="submit" *value*="Remove Stock" *style*="width: fit-content; background-color: #ADD8E6;">  
 </div>  
 </form>  
 {% *endif* %}  
 <script>  
 *function* toggle() {  
 *const* cont = document.getElementById('next');  
 cont.style.display = 'block';  
 }  
 </script>  
 </body>  
</html>

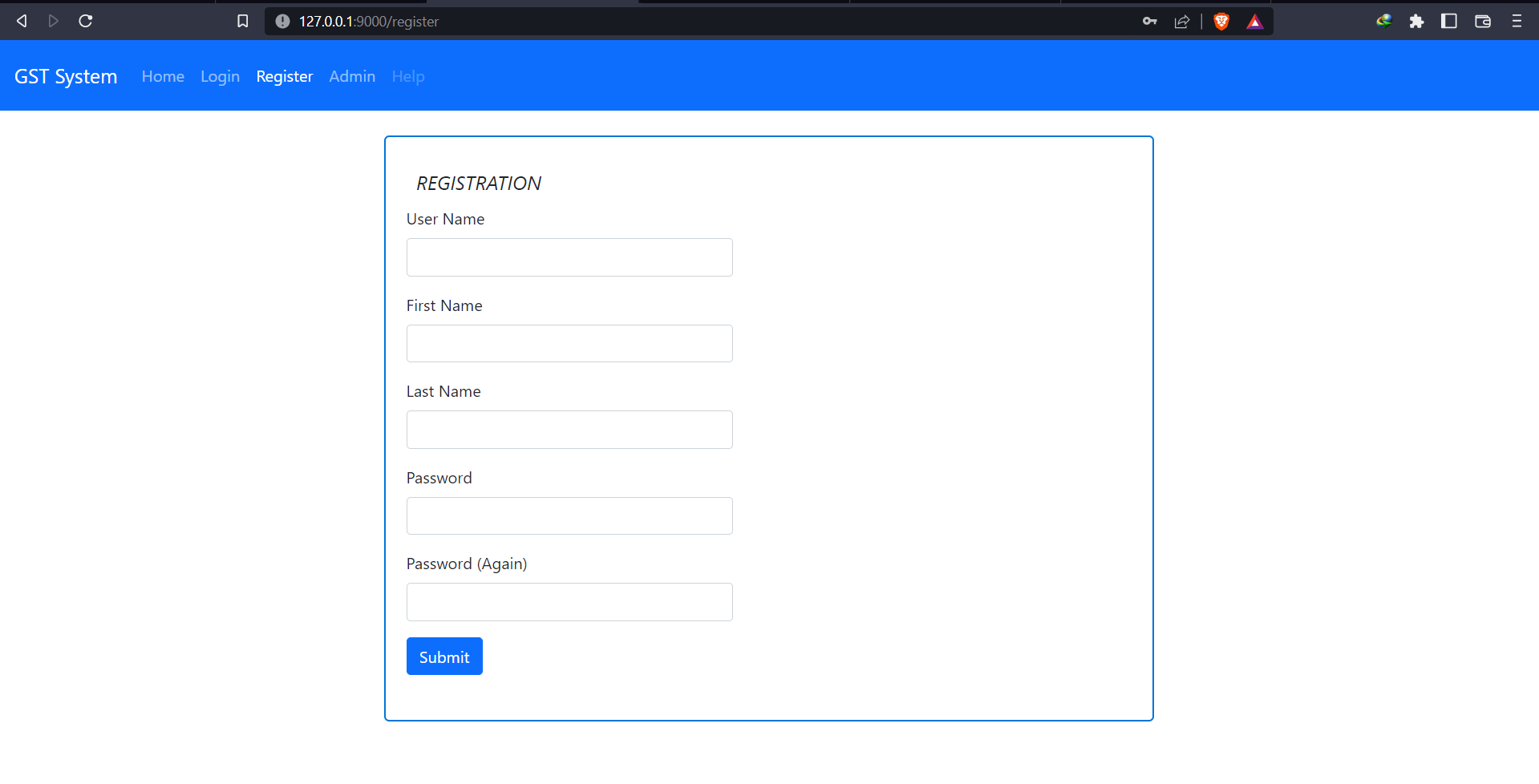
**Running the Django Server**

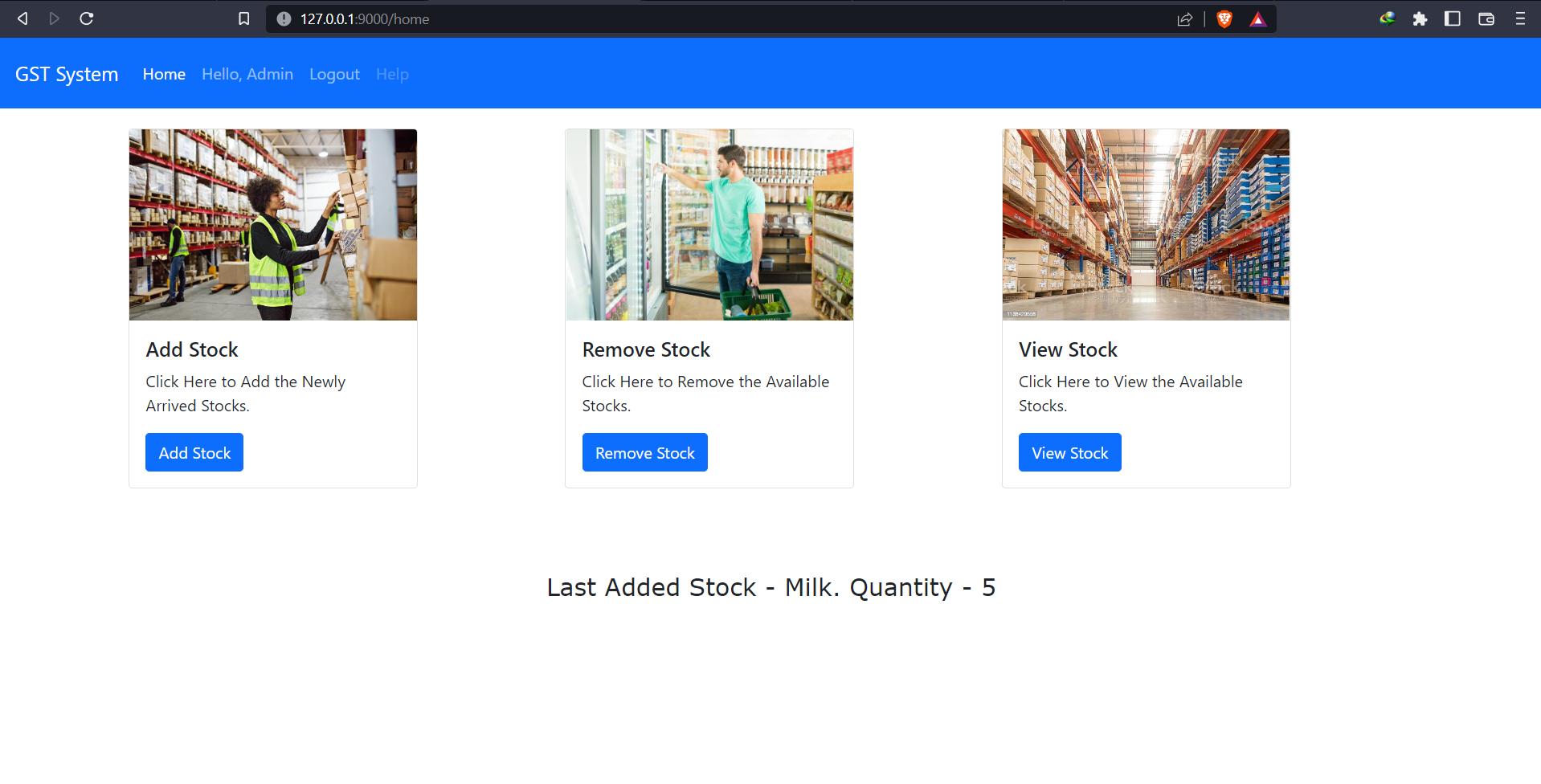
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**OUTPUT:**

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