

# **Mini Project**

## **Inventory Tracking System**

Submitted in partial fulfilment of the requirements of the degree

**SECOND YEAR COMPUTER ENGINEERING**

By

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# **CERTIFICATE**

This is to certify that the Mini Project entitled “**Inventory Tracking System**” is a bonafide work of **Rishi Mule – 50, Shubham Mulik – 51, Gaurav Gend – 24, Vedant Padwal - 55** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of “**Bachelor of Engineering**” in “**Computer Engineering**”.

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## **Mini Project Approval**

This Mini Project entitled “**Inventory Tracking System**” by **Rishi Mule – 50, Shubham Mulik – 51, Gaurav Gend – 24, Vedant Padwal - 55** is approved for degree of “**Bachelor of Engineering**” in “**Computer Engineering**”.

### **Examiners**

1.....  
(Internal Examiner Name & Sign)

2.....  
(External Examiner name & Sign)

Date: .....

Place: .....

## **Abstract**

This Inventory Tracker & Management Project is a System Application designed for a particular Department in an Academic Institution.

Tracking things manually and maintaining record in books may lead to manual errors and it increases human efforts.

So, ***“The Main Aim of this project is to reduce the stress of tracking by Substituting manpower with Automation.”***

This application provides the users to handle brands, categories, products, as well as report of the location of a particular item.

The system merely records restocking data and provides warning of low stock at any location through notification at a specified interval.

The system is used to track items and parts as they are imported to the Department, transferred between Classrooms, and finally if loaned to a person (staff or student).

In future, we can develop android application for this project. So that status of inventory in stock can be seen on mobile phones anywhere in the world. This leads to easy and effective management of the inventory.

## **Acknowledgement**

We would like to take this opportunity to express our gratitude towards all the people who have in various ways, helped in the successful completion of our project.

We must convey our gratitude to **Prof. C. M. Raut** for giving us the constant source of inspiration and help in preparing the project, personally correcting our work, and providing encouragement throughout the project.

We also thank all our faculty members for steering us through the tough as well as easy phases of the project in a result-oriented manner with concern attention.

Thank You.

Rishi Mule  
Shubham Mulik  
Gaurav Gend  
Vedant Padwal

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# Introduction

## **System Introduction:**

For optimal sales and inventory management processes, you need robust functionality for managing your logistics facilities.

Inventory management and supply chain management are the backbone of any business operations. With the development of technology and availability of process driven software applications, inventory management has undergone revolutionary changes.

In any business or organization, all functions are interlinked and connected to each other and are often overlapping. Some key aspects like supply chain management, logistics and inventory form the backbone of the business delivery function.

Therefore, these functions are extremely important to marketing managers as well as finance controllers.

Inventory management is a very important function that determines the health of the supply chain as well as the impacts the financial health of the balance sheet.

Every organization constantly strives to maintain optimum inventory to be able to meet its requirements and avoid over or under inventory that can impact the financial figures.

Support for inventory management helps you record, and track materials based on both quantity and value. Inventory management functions cover internal warehouse movements and storage.

This Inventory Tracking System Project keeps record of the complete inventory for a particular department in an Academic Institution.

Using this software, we can reduce costs for warehousing, transportation, order fulfillment, and material handling.

The system merely records restocking data and provides warning of low stock at any location through notification at a specified interval.



Additional benefits of inventory management include improved cash flow, visibility, and decision making.

Inventory is always dynamic. Inventory management requires constant and careful evaluation of external and internal factors and control through planning and review.

Most of the organizations have a separate department or job function called inventory planners who continuously monitor, control and review inventory and interface with production, procurement and finance departments.

This software is user friendly and hence easy to use.

## **Motivation:**

It is the 21<sup>st</sup> Century, the world of computers and the world of automation. Though this is the case some parts of the world still cling on to the old ways even though they might be outdated, just because of habit, Inventory Management being one of them.

Our motivation for this project is to use our technical knowledge of Engineering field and devise a new system that may help with easing the task of Inventory control.

So we decided to build a project from scratch that will help in automating the management and Tracking of Inventory of an Organization or an Institute.

## **Problem Statement & Objective**

- The main objective of this system is to keep records of the complete inventory.
- It supports for inventory management; helps you record, and track materials based on both quantity and value.
- It improves the flow, visibility, and decision making.
- For warehouse management, you can track quantity and value of all your materials, perform physical inventory, and optimize your warehouse resources.

## **Scopes of the Project:**

The scope of this system is to provide user efficient working environment and more output can be generated through this.

This system provides user friendly interface resulting in knowing every usability features of the system.

This system helps in tracking records so that past records can be verified through them and one can make decisions based on the past records. This system completes the work in a very less time resulting in less time consumption and high level of efficiency.

This system is developed in such a way that even a naïve user can also operate the system easily.

The calculations are made very quickly, and the records are directly saved into databases and the databases can be maintained for a longer period. Each record can be retrieved and can be verified for the future transactions.

Also, this system provides high level of security for data leaking.

# Literature Survey

## **Survey and Limitations of Existing System:**

As we know manual system are quite tedious, time consuming and less efficient and accurate in comparison to the computerized system.

Though the existing inventory tracking systems are good they lack a few of majorly needed features.

- Lack of security of data.
- More manpower.
- Time Consuming.
- Consumes large volumes of paperwork.
- Needs manual Calculations.
- Non-user-friendly environment.
- Difficult to keep old records.
- No direct role of higher officials.

## **Mini Project Contributions:**

Rishi Mule put forward the basic concept of the project and developed the Back end modules and relevant connection to the database along with the UI/UX required for the web server.

Shubham Mulik developed the Front end HTML and styling with bootstrap, along with resource collection and assisted with the back end.

Gaurav Gend worked on designing the Front end.

Vedant Padwal worked on Building the models for the application along with designing the forms.

# **Proposed System**



## **Proposed System of Inventory Tracking:**

The aim of our project is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system.

The system provides proper security and reduces the manual work.

- Security of data.
- Ensure data accuracy.
- Proper control of the higher officials.
- Minimize manual data entry.
- Greater Efficiency.
- Minimum time needed for various processing.
- Greater Efficiency
- Better Service.
- Interactive, User friendly interface.

## **Architecture and Framework:**

### **❖ Django:**

Django is a high-level Python web framework that enables rapid development of secure and maintainable websites. Built by experienced developers,

Django takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel.

It is free and open source, has a thriving and active community, great documentation, and many options for free and paid-for support.

Django was initially developed between 2003 and 2005 by a web team who were responsible for creating and maintaining newspaper websites. After creating several sites, the team began to factor out and reuse lots of common code and design patterns.

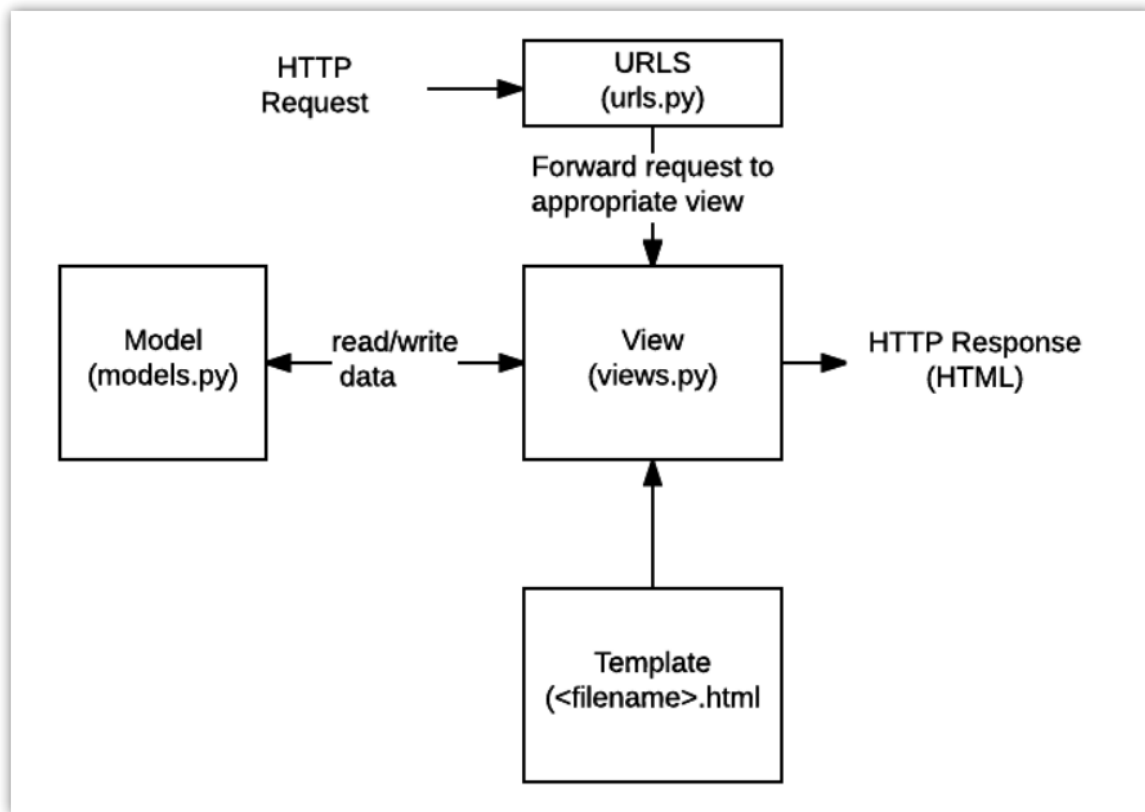
This common code evolved into a generic web development framework, which was open sourced as the "Django" project in July 2005.

In a traditional data-driven website, a web application waits for HTTP requests from the web browser (or other clients).

When a request is received the application works out what is needed based on the URL and possibly information in POST data or GET data. Depending on what is required it may then read or write information from a database or perform other tasks required to satisfy the request.

The application will then return a response to the web browser, often dynamically creating an HTML page for the browser to display by inserting the retrieved data into placeholders in an HTML template.

Django web applications typically group the code that handles each of these steps into separate files:



**URLs:** While it is possible to process requests from every single URL via a single function, it is much more maintainable to write a separate view function to handle each resource. A URL mapper is used to redirect HTTP requests to the appropriate view based on the request URL. The URL mapper can also match particular patterns of strings or digits that appear in a URL and pass these to a view function as data.

**View:** A view is a request handler function, which receives HTTP requests and returns HTTP responses. Views access the data needed to satisfy requests via models, and delegate the formatting of the response to templates.

**Models:** Models are Python objects that define the structure of an application's data, and provide mechanisms to manage (add, modify, delete) and query records in the database.

**Templates:** A template is a text file defining the structure or layout of a file (such as an HTML page), with placeholders used to represent actual content. A view can dynamically create an HTML page using an HTML template, populating it with data from a model. A template can be used to define the structure of any type of file; it doesn't have to be HTML!

## ❖ SQLite3:

SQLite3 is a compact free database you can use easily create and use a database.

Though SQLite3 is not a full-featured database, it supports a surprisingly large set of the SQL standard, and is ideal for those just starting to learn SQL as well for developers that need a simple database engine to plug into their applications.

As such, SQLite has become very popular with smart phone developers. SQLite is a software library that provides a relational database management system. The lite in SQLite means lightweight in terms of setup, database administration, and required resources.

SQLite has the following noticeable features:

- self-contained
- serverless
- zero-configuration
- transactional

## ❖ PyMySQL:

Most public APIs are compatible with MySQL client and MySQLdb. PyMySQL works with MySQL 5.5+ and MariaDB 5.5+.

PyMySQL is a pure-Python MySQL client library, based on PEP 249.

MySQL is a leading open-source database management system PyMySQL is an interface for connecting to a MySQL database server from Python.

It implements the Python Database API v2.0 and contains a pure-Python MySQL client library. The goal of PyMySQL is to be a drop-in replacement for MySQLdb.

The Python standard for database interfaces is the Python DB-API. Most Python database interfaces adhere to this standard.

Once a database connection is established, we are ready to create tables or records into the database tables using execute method of the created cursor.

# **Details of Hardware & Software:**

## **HARDWARE REQUIREMENTS:**

- Processor: Pentium 4 or more for optimum performance
- RAM: Recommended 256MB
- Hard Disk: Minimum 5GB

## **SOFTWARE REQUIREMENTS:**

❖ Operating System - Certified Distribution of WINDOWS

❖ For Backend:

- Python 3.4 or above
- Libraries and Frameworks
  - Django
  - PyMySQL
  - SQLite3
  - CSV
- MySQL
  - Server Application
  - Client Application
  - Workbench

❖ For Frontend:

- HTML
- CSS
  - Bootstrap CSS
- JAVASCRIPT
  - JQuery
  - Bootstrap JS

## Project Scheduling:

The plan explains the task versus the time (in weeks) needed to complete the project.

The elementary Timeline chart for the development plan is given below.

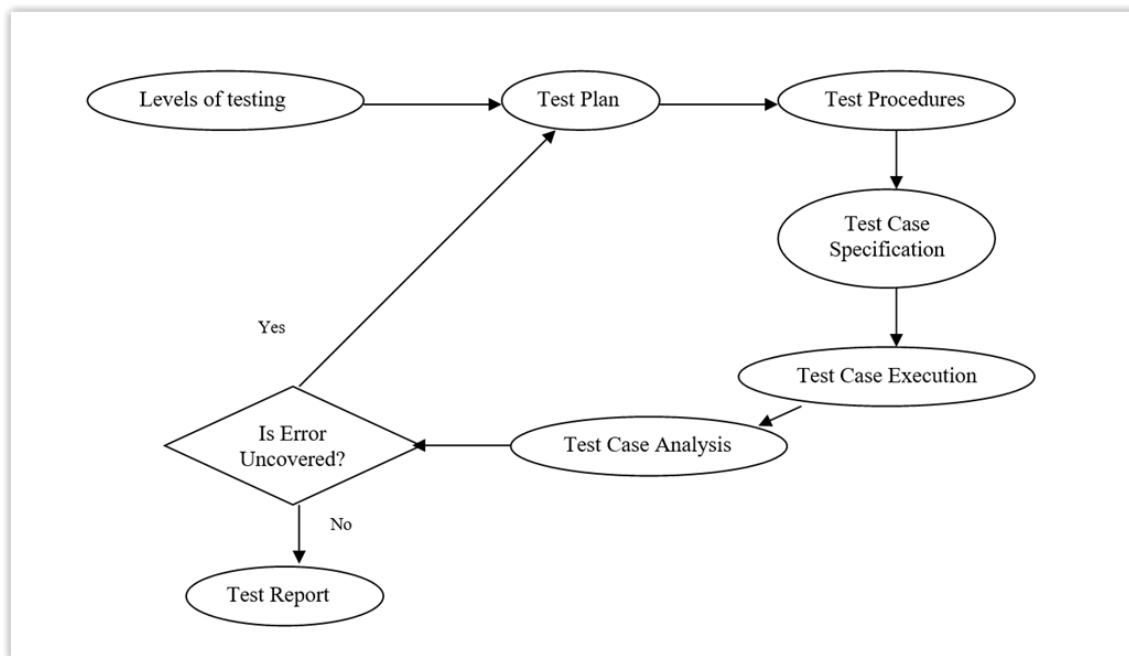
	January				February				March			
Requirement Gathering												
Analysis												
Design												
Coding												
Testing												
Implement												
	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4

## **Experiment and Results:**

The system testing done included the testing of the following items:

- Functionality of the entire system.
- User Interface of the system.
- Testing the dependent modules together with all possible test data scripts.
- Verification and validation testing.
- Testing the reports with all its functionality.

**The testing process can be shown as:**





**CODE**

# File Tree

```
C:\.
├── src
│   ├── db.sqlite3
│   ├── manage.py
│   ├── django project
│   │   ├── settings.py
│   │   ├── urls.py
│   │   ├── wsgi.py
│   │   └── __init__.py
│   ├── stockmgmt
│   │   ├── admin.py
│   │   ├── apps.py
│   │   ├── forms.py
│   │   ├── models.py
│   │   ├── tests.py
│   │   ├── views.py
│   │   └── __init__.py
│   ├── migrations
│   │   └── __init__.py
│   ├── static
│   │   ├── css
│   │   │   ├── bootstrap.min.css
│   │   │   ├── navbar-top-fixed.css
│   │   │   └── stylesheets.css
│   │   ├── img
│   │   │   ├── bg.png
│   │   │   ├── its_icon.ico
│   │   │   └── its_icon.png
│   │   ├── js
│   │   │   ├── bootstrap.min.js
│   │   │   ├── jquery-3.4.1.slim.min.js
│   │   │   ├── jquery-3.6.0.min.js
│   │   │   ├── jquery.js
│   │   │   ├── myjs1.js
│   │   │   └── popper.min.js
│   │   ├── jq
│   │   │   ├── AUTHORS.txt
│   │   │   ├── index.html
│   │   │   ├── jquery-ui.css
│   │   │   ├── jquery-ui.js
│   │   │   ├── jquery-ui.min.css
│   │   │   ├── jquery-ui.min.js
│   │   │   ├── jquery-ui.structure.css
│   │   │   ├── jquery-ui.structure.min.css
│   │   │   ├── jquery-ui.theme.css
│   │   │   ├── jquery-ui.theme.min.css
│   │   │   ├── LICENSE.txt
│   │   │   └── package.json
│   │   ├── external
│   │   │   └── jquery
│   │   │       └── jquery.js
│   │   ├── images
│   │   │   ├── ui-bg_glass_65_ffffff_1x400.png
│   │   │   ├── ui-bg_highlight-soft_100_f6f6f6_1x100.png
│   │   │   ├── ui-bg_highlight-soft_25_0073ea_1x100.png
│   │   │   ├── ui-bg_highlight-soft_50_000000_1x100.png
│   │   │   ├── ui-icons_0073ea_256x240.png
│   │   │   ├── ui-icons_454545_256x240.png
│   │   │   ├── ui-icons_666666_256x240.png
│   │   │   ├── ui-icons_ff0084_256x240.png
│   │   │   └── ui-icons_ffffff_256x240.png
│   ├── pager
│   │   ├── .gitignore
│   │   ├── index.html
│   │   ├── LICENSE
│   │   ├── paging.js
│   │   └── README.md
│   └── templates
│       ├── add_category.html
│       ├── add_items.html
│       ├── base.html
│       ├── delete_items.html
│       ├── home.html
│       ├── issue_items.html
│       ├── list_history.html
│       ├── list_items.html
│       ├── navbar.html
│       ├── receive_items.html
│       └── stock_detail.html
```

File : [src\manage.py](#)

```
#!/usr/bin/env python
"""Django's command-line utility for administrative tasks."""
import os
import sys

def main():
    os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'djangoproject.settings')
    try:
        from django.core.management import execute_from_command_line
    except ImportError as exc:
        raise ImportError(
            "Couldn't import Django. Are you sure it's installed and "
            "available on your PYTHONPATH environment variable? Did you "
            "forget to activate a virtual environment?"
        ) from exc
    execute_from_command_line(sys.argv)

if __name__ == '__main__':
    main()
```

File : <src/djangoproject/settings.py>

```
"""
Django settings for djangoproject project.

Generated by 'django-admin startproject' using Django 2.2.

For more information on this file, see
https://docs.djangoproject.com/en/2.2/topics/settings/

For the full list of settings and their values, see
https://docs.djangoproject.com/en/2.2/ref/settings/
"""

import os

# Build paths inside the project like this: os.path.join(BASE_DIR, ...)
BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))

# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/2.2/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = '^!bk9(apzq^)^4av^+eahc=r0p=#m7hb!-pz2&%y6k-3k7=ttt0'

# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True

ALLOWED_HOSTS = []

# Application definition

INSTALLED_APPS = [
    'django.contrib.admin',
    'registration', # should be immediately above 'django.contrib.auth'
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'crispy_forms',
    'stockmgmt'
]

MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]
```

```

]

ROOT_URLCONF = 'djangoproject.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    ],
]

WSGI_APPLICATION = 'djangoproject.wsgi.application'


# Database
# https://docs.djangoproject.com/en/2.2/ref/settings/#databases

# DATABASES = {
#     'default': {
#         'ENGINE': 'django.db.backends.sqlite3',
#         'NAME': os.path.join(BASE_DIR, 'db.sqlite3'),
#     }
# }

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'NAME': 'stockmgmt',
        'USER': '', # Username
        'PASSWORD': '', # Password
    }
}


# Password validation
# https://docs.djangoproject.com/en/2.2/ref/settings/#auth-password-validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },

```

```
{
    'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
},
]
```

```
# Internationalization
# https://docs.djangoproject.com/en/2.2/topics/i18n/
```

```
LANGUAGE_CODE = 'en-us'
```

```
TIME_ZONE = "Asia/Calcutta"
```

```
USE_I18N = True
```

```
USE_L10N = True
```

```
USE_TZ = True
```

```
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/2.2/howto/static-files/
```

```
STATIC_URL = '/static/'
```

```
CRISPY_TEMPLATE_PACK = 'bootstrap4'
```

```
ACCOUNT_ACTIVATION_DAYS = 7 # One-week activation window
```

```
REGISTRATION_AUTO_LOGIN = True # Automatically log the user in.
```

```
SITE_ID = 1
```

```
LOGIN_REDIRECT_URL = '/'
```

File : [src\django\project\urls.py](#)

```
"""django\project URL Configuration
```

```
The `urlpatterns` list routes URLs to views. For more information please see:  
    https://docs.djangoproject.com/en/2.2/topics/http/urls/
```

```
Examples:
```

```
Function views
```

1. Add an import: `from my_app import views`
2. Add a URL to urlpatterns: `path('', views.home, name='home')`

```
Class-based views
```

1. Add an import: `from other_app.views import Home`
2. Add a URL to urlpatterns: `path('', Home.as_view(), name='home')`

```
Including another URLconf
```

1. Import the include() function: `from django.urls import include, path`
2. Add a URL to urlpatterns: `path('blog/', include('blog.urls'))`

```
"""
```

```
from django.contrib import admin  
from django.urls import path  
from stockmgmt import views  
from django.urls import include
```

```
urlpatterns = [  
    path('', views.home, name='home'),  
    path('list_items/', views.list_items, name='list_items'),  
    path('add_items/', views.add_items, name='add_items'),  
    path('update_items/<str:pk>', views.update_items, name="update_items"),  
    path('delete_items/<str:pk>', views.delete_items, name="delete_items"),  
    path('stock_detail/<str:pk>', views.stock_detail, name="stock_detail"),  
    path('issue_items/<str:pk>', views.issue_items, name="issue_items"),  
    path('receive_items/<str:pk>', views.receive_items, name="receive_items"),  
    path('add_category/', views.add_category, name='add_category'),  
    path('reorder_level/<str:pk>', views.reorder_level, name="reorder_level"),  
    path('list_history/', views.list_history, name='list_history'),  
    path('admin/', admin.site.urls),  
    path('accounts/', include('registration.backends.default.urls')),  
]
```

File : [src\django\project\wsgi.py](#)

```
"""
WSGI config for django\project project.

It exposes the WSGI callable as a module-level variable named ``application``.

For more information on this file, see
https://docs.djangoproject.com/en/2.2/howto/deployment/wsgi/
"""

import os

from django.core.wsgi import get_wsgi_application

os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'django\project.settings')

application = get_wsgi_application()
```



File : [src\stockmgmt\admin.py](#)

```
from django.contrib import admin
from .forms import StockCreateForm

# Register your models here.

from .models import *

class StockCreateAdmin(admin.ModelAdmin):
    list_display = ['category', 'item_name', 'quantity']
    form = StockCreateForm
    list_filter = ['category']
    search_fields = ['category', 'item_name']

admin.site.register(Stock, StockCreateAdmin)
admin.site.register(Category)
```

File : [src\stockmgmt\apps.py](#)

```
from django.apps import AppConfig

class StockmgmtConfig(AppConfig):
    name = 'stockmgmt'
```

File : [src\stockmgmt\forms.py](#)

```
from django import forms
from .models import *

class StockCreateForm(forms.ModelForm):
    class Meta:
        model = Stock
        fields = ['category', 'item_name', 'quantity']

    def clean_category(self):
        category = self.cleaned_data.get('category')
        if not category:
            raise forms.ValidationError('This field is required')

        # for instance in Stock.objects.all():
        #     if instance.category == category:
        #         raise forms.ValidationError(
        #             str(category) + ' is already created')
        #     return category

        return category

    def clean_item_name(self):
        item_name = self.cleaned_data.get('item_name')
        if not item_name:
            raise forms.ValidationError('This field is required')
        return item_name

class StockHistorySearchForm(forms.ModelForm):
    export_to_CSV = forms.BooleanField(required=False)

    start_date = forms.DateTimeField(required=False)

    end_date = forms.DateTimeField(required=False)

    class Meta:
        model = StockHistory
        fields = ['category', 'item_name', 'start_date', 'end_date']

class StockSearchForm(forms.ModelForm):
    export_to_CSV = forms.BooleanField(required=False)

    class Meta:
        model = Stock
        fields = ['category', 'item_name']

class StockUpdateForm(forms.ModelForm):
    class Meta:
```

```
model = Stock
fields = ['category', 'item_name', 'quantity']
```

```
class IssueForm(forms.ModelForm):
    class Meta:
        model = Stock
        fields = ['issue_quantity', 'issue_to']
```

```
class ReceiveForm(forms.ModelForm):
    class Meta:
        model = Stock
        fields = ['receive_quantity']
```

```
class ReorderLevelForm(forms.ModelForm):
    class Meta:
        model = Stock
        fields = ['reorder_level']
```

```
class CategoryCreateForm(forms.ModelForm):
    class Meta:
        model = Category
        fields = ['name']
```

File : [src\stockmgmt\models.py](#)

```
from django.db import models

# Create your models here.
category_choice = (
    ('Furniture', 'Furniture'),
    ('IT Equipment', 'IT Equipment'),
    ('Phone', 'Phone'),
)

class Category(models.Model):
    name = models.CharField(max_length=50, blank=True, null=True)
    def __str__(self):
        return self.name

class Stock(models.Model):
    category = models.ForeignKey(Category, on_delete=models.CASCADE, blank=True)
    item_name = models.CharField(max_length=50, blank=True, null=True)
    quantity = models.IntegerField(default='0', blank=False, null=True)
    receive_quantity = models.IntegerField(default='0', blank=True, null=True)
    receive_by = models.CharField(max_length=50, blank=True, null=True)
    issue_quantity = models.IntegerField(default='0', blank=True, null=True)
    issue_by = models.CharField(max_length=50, blank=True, null=True)
    issue_to = models.CharField(max_length=50, blank=True, null=True)
    phone_number = models.CharField(max_length=50, blank=True, null=True)
    created_by = models.CharField(max_length=50, blank=True, null=True)
    reorder_level = models.IntegerField(default='0', blank=True, null=True)
    last_updated = models.DateTimeField(auto_now_add=False, auto_now=True)
    timestamp = models.DateTimeField(auto_now_add=True, auto_now=False)
    # export_to_CSV = models.BooleanField(default=False)

    def __str__(self):
        # return str(self.quantity) + " " + self.item_name
        return self.item_name

class StockHistory(models.Model):
    category = models.ForeignKey(Category, on_delete=models.CASCADE, blank=True, null=True)
    item_name = models.CharField(max_length=50, blank=True, null=True)
    quantity = models.IntegerField(default='0', blank=True, null=True)
    receive_quantity = models.IntegerField(default='0', blank=True, null=True)
    receive_by = models.CharField(max_length=50, blank=True, null=True)
    issue_quantity = models.IntegerField(default='0', blank=True, null=True)
    issue_by = models.CharField(max_length=50, blank=True, null=True)
    issue_to = models.CharField(max_length=50, blank=True, null=True)
    phone_number = models.CharField(max_length=50, blank=True, null=True)
    created_by = models.CharField(max_length=50, blank=True, null=True)
    reorder_level = models.IntegerField(default='0', blank=True, null=True)
    last_updated = models.DateTimeField(auto_now_add=False, auto_now=False, null=True)
    timestamp = models.DateTimeField(auto_now_add=False, auto_now=False, null=True)
```

File : [src\stockmgmt\tests.py](#)

```
from django.test import TestCase
```

```
# Create your tests here.
```

File : [src\stockmgmt\views.py](#)

```
from django.shortcuts import render, redirect
from django.http import HttpResponse
from django.contrib import messages
import csv
from .models import *
from .forms import *
from django.contrib.auth.decorators import login_required

# Create your views here.

def home(request):
    title = 'Welcome:Home Page'
    context = {
        "title": title,
        "sample": "NONONO"
    }
    # return render(request, "home.html", context)
    return redirect('/list_items')

@login_required
def list_items(request):
    title = 'List Items'
    header = 'List of Items'
    form = StockSearchForm(request.POST or None)
    queryset = Stock.objects.all()
    context = {
        "title": title,
        "queryset": queryset,
        "form": form,
        "header": header,
    }
    if request.method == 'POST':
        category = form['category'].value()
        queryset = Stock.objects.filter(
            # category__icontains=form['category'].value(),
            item_name__icontains=form['item_name'].value()
        )
        if (category != ''):
            queryset = queryset.filter(category_id=category)

    if form['export_to_csv'].value() == True:
        response = HttpResponse(content_type='text/csv')
        response['Content-Disposition'] = 'attachment; filename="Stocks.csv"'
        writer = csv.writer(response)
        writer.writerow(['CATEGORY', 'ITEM NAME', 'QUANTITY'])
        instance = queryset
        for stock in instance:
            writer.writerow(
                [stock.category, stock.item_name, stock.quantity])
    return response
```

```
    context = {
        "form": form,
        "header": header,
        "queryset": queryset,
    }
    return render(request, "list_items.html", context)
```

@login\_required

```
def add_items(request):
    form = StockCreateForm(request.POST or None)
    if form.is_valid():
        form.save()
        messages.success(request, 'Successfully Saved!')
        return redirect('/list_items')
    context = {
        "form": form,
        "title": "Add Item",
    }
    return render(request, "add_items.html", context)

def update_items(request, pk):
    queryset = Stock.objects.get(id=pk)
    form = StockUpdateForm(instance=queryset)
    if request.method == 'POST':
        form = StockUpdateForm(request.POST, instance=queryset)
        if form.is_valid():
            form.save()
            messages.success(request, 'Successfully Updated!')
            return redirect('/list_items')

    context = {
        'form': form
    }
    return render(request, 'add_items.html', context)

def delete_items(request, pk):
    queryset = Stock.objects.get(id=pk)
    if request.method == 'POST':
        queryset.delete()
        messages.success(request, 'Successfully Deleted!')
        return redirect('/list_items')
    return render(request, 'delete_items.html')

def stock_detail(request, pk):
    queryset = Stock.objects.get(id=pk)
    context = {
        "title": queryset.item_name,
        "queryset": queryset,
    }
    return render(request, "stock_detail.html", context)
```



```

def issue_items(request, pk):
    queryset = Stock.objects.get(id=pk)
    form = IssueForm(request.POST or None, instance=queryset)
    if form.is_valid():
        instance = form.save(commit=False)
        instance.receive_quantity = 0
        instance.quantity -= instance.issue_quantity
        instance.issue_by = str(request.user)
        messages.success(request, "Issued SUCCESSFULLY. " + str(instance.quantity) +
                           " " + str(instance.item_name) + "s now left in Store")
        instance.save()

        return redirect('/stock_detail/'+str(instance.id))
        # return HttpResponseRedirect(instance.get_absolute_url())

    context = {
        "title": 'Issue ' + str(queryset.item_name),
        "queryset": queryset,
        "form": form,
        "username": 'Issue By: ' + str(request.user),
    }
    return render(request, "issue_items.html", context)

def receive_items(request, pk):
    queryset = Stock.objects.get(id=pk)
    form = ReceiveForm(request.POST or None, instance=queryset)
    if form.is_valid():
        instance = form.save(commit=False)
        instance.issue_quantity = 0
        instance.quantity += instance.receive_quantity
        instance.receive_by = str(request.user)
        instance.save()
        messages.success(request, "Received SUCCESSFULLY. " +
                           str(instance.quantity) + " " + str(instance.item_name)+"s now in Store
")

        return redirect('/stock_detail/'+str(instance.id))
        # return HttpResponseRedirect(instance.get_absolute_url())

    context = {
        "title": 'Receive ' + str(queryset.item_name),
        "instance": queryset,
        "form": form,
        "username": 'Receive By: ' + str(request.user),
    }
    return render(request, "receive_items.html", context)

def reorder_level(request, pk):
    queryset = Stock.objects.get(id=pk)
    form = ReorderLevelForm(request.POST or None, instance=queryset)
    if form.is_valid():
        instance = form.save(commit=False)
        instance.save()

```

```

        messages.success(request, "Reorder level for " + str(instance.item_name) +
                               " is updated to " + str(instance.reorder_level))

    return redirect("/list_items")
context = {
    "instance": queryset,
    "form": form,
}
return render(request, "add_items.html", context)

@login_required
def list_history(request):
    header = 'HISTORY DATA'
    queryset = StockHistory.objects.all()
    form = StockSearchForm(request.POST or None)

    context = {
        "title": header,
        "form": form,
        "header": header,
        "queryset": queryset,
    }

    if request.method == 'POST':
        category = form['category'].value()

        queryset = StockHistory.objects.filter(
            item_name__icontains=form['item_name'].value(),
            # last_updated__range=[
            #     form['start_date'].value(),
            #     form['end_date'].value()
            # ]
        )

        if (category != ''):
            queryset = queryset.filter(category_id=category)

        if form['export_to_csv'].value() == True:
            response = HttpResponse(content_type='text/csv')
            response['Content-Disposition'] = 'attachment; filename="Stock History.csv"'
            writer = csv.writer(response)
            writer.writerow(
                ['CATEGORY',
                 'ITEM NAME',
                 'QUANTITY',
                 'ISSUE QUANTITY',
                 'RECEIVED QUANTITY',
                 'RECEIVED BY',
                 'ISSUED BY',
                 'ISSUED TO',
                 'LAST UPDATED'])
            instance = queryset
            for stock in instance:
                writer.writerow(
                    [stock.category,

```

```
        stock.item_name,
        stock.quantity,
        stock.issue_quantity,
        stock.receive_quantity,
        stock.receive_by,
        stock.issue_by,
        stock.issue_to,
        stock.last_updated])
    return response

    context = {
        "form": form,
        "header": header,
        "queryset": queryset,
    }
    return render(request, "list_history.html", context)
```

```
@login_required
def add_category(request):
    form = CategoryCreateForm(request.POST or None)
    if form.is_valid():
        form.save()
        messages.success(request, 'Successfully Created')
        return redirect('/add_items')
    context = {
        "form": form,
        "title": "Add Category",
    }
    return render(request, "add_category.html", context)
```

File : <src/stockmgmgt/static/css/navbar-top-fixed.css>

```
/* Show it is fixed to the top */
```

```
body {  
    min-height: 75rem;  
    padding-top: 4.5rem;  
}
```

```
.delete_img {  
    width : 5px;  
    height : auto;  
}
```

File : <src/stockmgmt/static/css/stylesheets.css>

```
body {
  background-color: #34eb6b;
}

.table {
  font-size: 13px;
  text-align: center;
  width: 95%;
  margin: auto;
}

.table tr:nth-child(odd) {
  background: #b8cae4;
}

.table tr:nth-child(even) {
  background: #dae5f4;
}

.display_table {
  /* border-bottom-right-radius: 20px; */
  /*border-bottom-left-radius: 20px;*/
  /* border-top-left-radius: 20px; */
  /* border-top-right-radius: 20px; */
  padding-top: 10px;
  padding-left: 10px;
  padding-right: 10px;
  padding-bottom: 10px;
  box-shadow: 12px 12px 20px 6px #2e6da4;
}

.header {
  font-family: helvetica;
  color: #337ab7;
  font-size: 50px;
  text-align: center;
  width: 100%;
  text-shadow: 6px 6px 6px #c9c6c6;
  display: block;
  font-weight: bolder;
}

.delete_img {
  width: 5px;
  height: auto;
}

.success {
  list-style: none;
  background-color: #2e6da4;
  color: white;
  box-shadow: 12px 12px 12px #e61c66;
  text-align: center;
}
```

```
}

.mybutton {
    width: 100%;
}

th {
    background-color: #337ab7;
    color: white;
}

body {
    background-image: url("../img/bg.png");
    background-attachment: fixed;
    background-size: auto;
}

/* Version Button */
#version-display {
    background-color: #b189d6;
    color: rgb(255, 255, 255);
    box-shadow: 5px 12px 12px #78a6d3;
    text-align: center;
    display: inline;
    font-weight: bolder;
    padding: 15px;
    position: fixed;
    top: 40px;
    left: -5px;
    z-index: 3000;
    border-top-right-radius: 20px;
    border-bottom-right-radius: 20px;
}

/* Modal Header */
.modal-header {
    padding: 2px 16px;
    background-color: #e61c66;
    color: white;
}

/* Modal Body */
.modal-body {
    padding: 2px 16px;
}

/* Modal Footer */
.modal-footer {
    padding: 2px 16px;
    background-color: #e61c66;
    color: white;
}

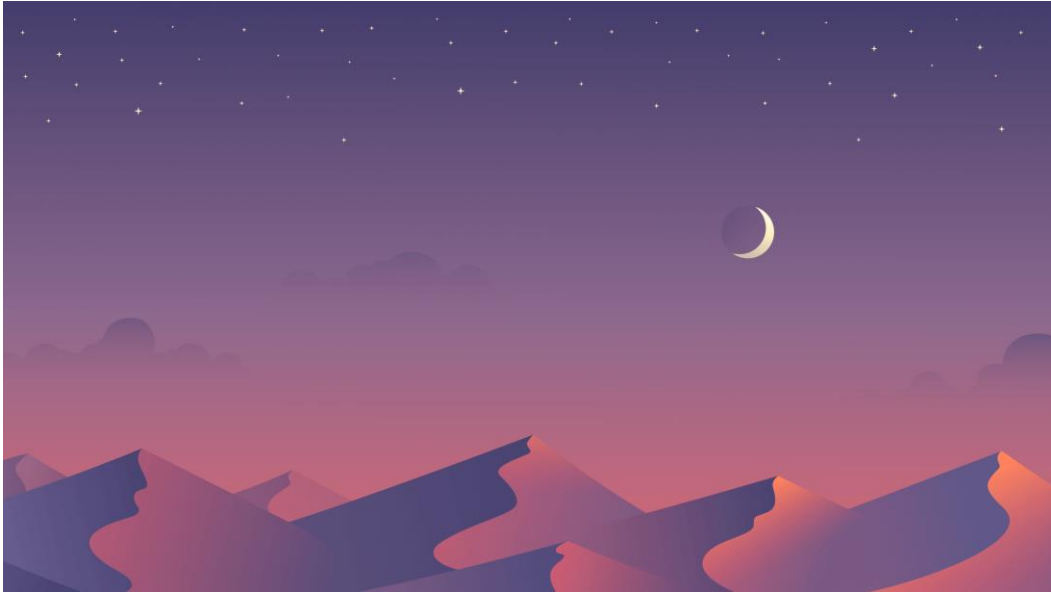
/* Modal Content */
.modal-content {
    position: relative;
    background-color: #fefefe;
}
```

```
margin: auto;
padding: 0;
border: 1px solid #888;
width: 100%;
box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);
}

.dev-info {
width: 50%;
text-align: center;
font-family: helvetica;
font-weight: bold;
display: inline;
}

.dev-info-logo {
width: 50px;
float: left;
}
```

File : <src/stockmgmgt/static/img/bg.png>



File : [src/stockmgmgt/static/img/its\\_icon.png](src/stockmgmgt/static/img/its_icon.png)



File : [src/stockmgmgt/static/img/its\\_icon.ico](src/stockmgmgt/static/img/its_icon.ico)





File : [src\stockmgmt\static\js\pager\paging.js](#)

```
(function($) {
    $(function() {
        $.widget("zpd.paging", {
            options: {
                limit: 5,
                rowDisplayStyle: 'block',
                activePage: 0,
                rows: []
            },
            _create: function() {
                var rows = $("tbody", this.element).children();
                this.options.rows = rows;
                this.options.rowDisplayStyle = rows.css('display');
                var nav = this._getNavBar();
                this.element.after(nav);
                this.showPage(0);
            },
            _getNavBar: function() {
                var rows = this.options.rows;
                var nav = $('<div>', {class: 'paging-nav'});
                for (var i = 0; i < Math.ceil(rows.length / this.options.limit); i++) {
                    this._on($('<a>', {
                        href: '#',
                        text: (i + 1),
                        "data-page": (i)
                    })).appendTo(nav),
                        {click: "pageClickHandler"});
                }
                //create previous link
                this._on($('<a>', {
                    href: '#',
                    text: '<<',
                    "data-direction": -1
                })).prependTo(nav),
                    {click: "pageStepHandler"});
                //create next link
                this._on($('<a>', {
                    href: '#',
                    text: '>>',
                    "data-direction": +1
                })).appendTo(nav),
                    {click: "pageStepHandler"});
                return nav;
            },
            showPage: function(pageNum) {
                var num = pageNum * 1; //it has to be numeric
                this.options.activePage = num;
                var rows = this.options.rows;
                var limit = this.options.limit;
                for (var i = 0; i < rows.length; i++) {
                    if (i >= limit * num && i < limit * (num + 1)) {
                        $(rows[i]).css('display', this.options.rowDisplayStyle);
                    } else {

```

```

        $(rows[i]).css('display', 'none');
    }
}
},
pageClickHandler: function(event) {
    event.preventDefault();
    $(event.target).siblings().attr('class', "");
    $(event.target).attr('class', "selected-page");
    var pageNum = $(event.target).attr('data-page');
    this.showPage(pageNum);
},
pageStepHandler: function(event) {
    event.preventDefault();
    //get the direction and ensure it's numeric
    var dir = $(event.target).attr('data-direction') * 1;
    var pageNum = this.options.activePage + dir;
    //if we're in limit, trigger the requested pages link
    if (pageNum >= 0 && pageNum < this.options.rows.length) {
        $("a[data-page=" + pageNum + "]", $(event.target).parent()).click();
    }
}
});
})(jQuery);

```

File : [src\stockmgmt\static\js\myjs1.js](#)

```
$(".table").paging( {limit: 5});  
  
$(".datetimeinput").datepicker({  
    changeYear: true,  
    changeMonth: true,  
    dateFormat: "yy-mm-dd"});
```

File : [src/stockmgmt/templates/add\\_category.html](src/stockmgmt/templates/add_category.html)

```
{% load staticfiles %}
{% load crispy_forms_tags %}

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

<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
    <meta name="description" content="" />
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors" />
    <meta name="generator" content="Jekyll v3.8.6" />
    <title>{{title}}</title>

    <link rel="canonical" href="https://getbootstrap.com/docs/4.4/examples/navbar-fixed/" />

    <!-- Bootstrap core CSS -->
    <link href="{% static 'css/stylesheets.css' %}" rel="stylesheet" />
    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet" />

    <!-- <link href="/docs/4.4/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
Vkoo8x4CGsO3+Hhvxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

    <!-- Favicons -->
    <link rel="apple-touch-icon" href="/docs/4.4/assets/img/favicons/apple-touch-
icon.png" sizes="180x180" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
32x32.png" sizes="32x32" type="image/png" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
16x16.png" sizes="16x16" type="image/png" />
    <link rel="manifest" href="/docs/4.4/assets/img/favicons/manifest.json" />
    <link rel="mask-icon" href="/docs/4.4/assets/img/favicons/safari-pinned-
tab.svg" color="#563d7c" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon.ico" />
    <meta name="msapplication-
config" content="/docs/4.4/assets/img/favicons/browserconfig.xml" />
    <meta name="theme-color" content="#563d7c" />

<style>
    .bd-placeholder-img {
        font-size: 1.125rem;
        text-anchor: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        -ms-user-select: none;
        user-select: none;
    }

    @media (min-width: 768px) {
        .bd-placeholder-img-lg {
```

```

        font-size: 3.5rem;
    }
}
</style>
<!-- Custom styles for this template -->
<!-- <link href="navbar-top-fixed.css" rel="stylesheet" /> -->
<link href="{% static 'css/navbar-top-fixed.css' %}" rel="stylesheet" />

</head>

<body>
    {% include 'navbar.html' %}

    <main role="main" class="container">
        <div class="jumbotron">
            <h1>{{title}}</h1>

            <form method="POST" action="">
                {% csrf_token %} {{form|crispy}}
                <input class="btn btn-success" type="submit" value="Save" />
            </form>

        </div>
    </main>

    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
        integrity="sha384-
J6qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous">
    </script>
    <script>
        window.jQuery ||
        document.write(
            '<script src="/docs/4.4/assets/js/vendor/jquery.slim.min.js"></script>'
        );
    </script>
    <script src="/docs/4.4/dist/js/bootstrap.bundle.min.js"
        integrity="sha384-
6khuMg9gaYr5Ax0qhkVIOdVIm9ynTT5J4V1cfthmT+emCG6yVmEZsRHdxlotUnm" crossorigin="anonymous">
    </script>
</body>

</html>

```

File : [src/stockmgmt/templates/add\\_items.html](src/stockmgmt/templates/add_items.html)

```
{% load staticfiles %}
{% load crispy_forms_tags %}

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

<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
    <meta name="description" content="" />
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors" />
    <meta name="generator" content="Jekyll v3.8.6" />
    <title>{{title}}</title>

    <link rel="canonical" href="https://getbootstrap.com/docs/4.4/examples/navbar-fixed/" />

    <!-- Bootstrap core CSS -->
    <link href="{% static 'css/stylesheets.css' %}" rel="stylesheet" />
    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet" />

    <!-- <link href="/docs/4.4/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
Vkoo8x4CGs03+HhXv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

    <!-- Favicons -->
    <link rel="apple-touch-icon" href="/docs/4.4/assets/img/favicons/apple-touch-
icon.png" sizes="180x180" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
32x32.png" sizes="32x32" type="image/png" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
16x16.png" sizes="16x16" type="image/png" />
    <link rel="manifest" href="/docs/4.4/assets/img/favicons/manifest.json" />
    <link rel="mask-icon" href="/docs/4.4/assets/img/favicons/safari-pinned-
tab.svg" color="#563d7c" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon.ico" />
    <meta name="msapplication-
config" content="/docs/4.4/assets/img/favicons/browserconfig.xml" />
    <meta name="theme-color" content="#563d7c" />

<style>
    .bd-placeholder-img {
        font-size: 1.125rem;
        text-align: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        -ms-user-select: none;
        user-select: none;
    }

    @media (min-width: 768px) {
        .bd-placeholder-img-lg {
            font-size: 3.5rem;
        }
    }
</style>
```

```

    }
  }
</style>
<!-- Custom styles for this template -->
<!-- <link href="navbar-top-fixed.css" rel="stylesheet" /> -->
<link href="{% static 'css/navbar-top-fixed.css' %}" rel="stylesheet" />

</head>

<body>
  {% include 'navbar.html' %}

  <main role="main" class="container">
    <div class="jumbotron">
      <h1>{{title}}</h1>

      <form method="POST" action="">
        {% csrf_token %} {{form|crispy}}
        <input class="btn btn-success" type="submit" value="Save" />

        <div style="float: right;">
          <a href="/add_category" class="btn btn-primary">Add Category</a>
        </div>
      </form>

    </div>
  </main>

  <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
    integrity="sha384-
J6qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous">
  </script>
  <script>
    window.jQuery ||
      document.write(
        '<script src="/docs/4.4/assets/js/vendor/jquery.slim.min.js"></script>'
      );
  </script>
  <script src="/docs/4.4/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-
6khuMg9gaYr5Ax0qhkVIOdVIm9ynTT5J4V1cfthmT+emCG6yVmEZsRHdxlotUnm" crossorigin="anonymous">
  </script>
</body>

</html>

```

File : <src/stockmgmt/templates/base.html>

```
{% load staticfiles %}
{% load crispy_forms_tags %}
<!doctype html>
<html lang="en">

<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <meta name="description" content="">
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors">
    <meta name="generator" content="Jekyll v3.8.6">
    <title>{{title}}</title>

    <link rel="canonical" href="https://getbootstrap.com/docs/4.4/examples/navbar-fixed/">

    <!-- Bootstrap core CSS -->
    <link href="{% static 'css/stylesheets.css' %}" rel="stylesheet">
    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet">

    <!-- <link href="/docs/4.4/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
Vkoo8x4CGs03+HhXv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

    <!-- Favicons -->
    <link rel="apple-touch-icon" href="/docs/4.4/assets/img/favicons/apple-touch-
icon.png" sizes="180x180">
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
32x32.png" sizes="32x32" type="image/png">
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
16x16.png" sizes="16x16" type="image/png">
    <link rel="manifest" href="/docs/4.4/assets/img/favicons/manifest.json">
    <link rel="mask-icon" href="/docs/4.4/assets/img/favicons/safari-pinned-
tab.svg" color="#563d7c">
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon.ico">
    <meta name="msapplication-
config" content="/docs/4.4/assets/img/favicons/browserconfig.xml">
    <meta name="theme-color" content="#563d7c">

<style>
    .bd-placeholder-img {
        font-size: 1.125rem;
        text-align: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        -ms-user-select: none;
        user-select: none;
    }

    @media (min-width: 768px) {
        .bd-placeholder-img-lg {
            font-size: 3.5rem;
        }
    }
</style>
```



```

    }
  }
</style>
<!-- Custom styles for this template -->
<!-- <link href="navbar-top-fixed.css" rel="stylesheet" /> -->
<link href="{% static 'css/navbar-top-fixed.css' %}" rel="stylesheet" />
</head>

<body>
  {% include 'navbar.html' %}

  <main role="main" class="container">
    <div class="jumbotron">
      <h1>{{ sample }}</h1>

      <div class="header">
        {% block title %}
        {% endblock %}
      </div>

      <br>
      <br>

      {% block content %}
      {% endblock %}
    </div>
  </main>
  <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
    integrity="sha384-
J6qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous">
  </script>
  <script>
    window.jQuery || document.write('<script src="/docs/4.4/assets/js/vendor/jquery.slim.min.js"></script>')
  </script>
  <script src="/docs/4.4/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-
6khuMg9gaYr5Ax0qhkVIOdVIm9ynTT5J4V1cfthmT+emCG6yVmEZsRHdxlotUnm" crossorigin="anonymous">
  </script>
</body>

</html>

```

File : [src/stockmgmt/templates/delete\\_items.html](src/stockmgmt/templates/delete_items.html)

```
{% load staticfiles %}
{% load crispy_forms_tags %}

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

<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
    <meta name="description" content="" />
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors" />
    <meta name="generator" content="Jekyll v3.8.6" />
    <title>{{title}}</title>

    <link rel="canonical" href="https://getbootstrap.com/docs/4.4/examples/navbar-fixed/" />

    <!-- Bootstrap core CSS -->
    <link href="{% static 'css/stylesheets.css' %}" rel="stylesheet" />
    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet" />

    <!-- <link href="/docs/4.4/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
Vkoo8x4CGsO3+Hhvxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

    <!-- Favicons -->
    <link rel="apple-touch-icon" href="/docs/4.4/assets/img/favicons/apple-touch-
icon.png" sizes="180x180" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
32x32.png" sizes="32x32" type="image/png" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
16x16.png" sizes="16x16" type="image/png" />
    <link rel="manifest" href="/docs/4.4/assets/img/favicons/manifest.json" />
    <link rel="mask-icon" href="/docs/4.4/assets/img/favicons/safari-pinned-
tab.svg" color="#563d7c" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon.ico" />
    <meta name="msapplication-
config" content="/docs/4.4/assets/img/favicons/browserconfig.xml" />
    <meta name="theme-color" content="#563d7c" />

<style>
    .bd-placeholder-img {
        font-size: 1.125rem;
        text-anchor: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        -ms-user-select: none;
        user-select: none;
    }

    @media (min-width: 768px) {
        .bd-placeholder-img-lg {
```

```

        font-size: 3.5rem;
    }
}
</style>
<!-- Custom styles for this template -->
<!-- <link href="navbar-top-fixed.css" rel="stylesheet" /> -->
<link href="{% static 'css/navbar-top-fixed.css' %}" rel="stylesheet" />

</head>

<body>
    {% include 'navbar.html' %}

    <main role="main" class="container">
        <div class="jumbotron">
            <h1>{{title}}</h1>

            <form method="post" action="">
                {% csrf_token %}
                <h1>Are you sure you want to delete?</h1><br>
                <input class="btn btn-danger" type="submit" value="Yes" />
                <a href="/list_items">
                    <div class="btn btn-primary">Cancel</div>
                </a>
            </form>

        </div>
    </main>
    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
        integrity="sha384-
J6qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous">
    </script>
    <script>
        window.jQuery ||
        document.write(
            '<script src="/docs/4.4/assets/js/vendor/jquery.slim.min.js"></script>'
        );
    </script>
    <script src="/docs/4.4/dist/js/bootstrap.bundle.min.js"
        integrity="sha384-
6khuMg9gaYr5Ax0qhkVIOdVIm9ynTT5J4V1cfthmT+emCG6yVmEZsRHdxlotUnm" crossorigin="anonymous">
    </script>
</body>

</html>

```

File : <src/stockmgmt/templates/home.html>

```
{% load staticfiles %}
{% load crispy_forms_tags %}
<!doctype html>
<html lang="en">

<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <meta name="description" content="">
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors">
    <meta name="generator" content="Jekyll v3.8.6">
    <title>{{title}}</title>

    <link rel="canonical" href="https://getbootstrap.com/docs/4.4/examples/navbar-fixed/">

    <!-- Bootstrap core CSS -->
    <link href="{% static 'css/stylesheets.css' %}" rel="stylesheet">
    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet">

    <!-- <link href="/docs/4.4/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
Vkoo8x4CGs03+HhXv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

    <!-- Favicons -->
    <link rel="apple-touch-icon" href="/docs/4.4/assets/img/favicons/apple-touch-
icon.png" sizes="180x180">
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
32x32.png" sizes="32x32" type="image/png">
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
16x16.png" sizes="16x16" type="image/png">
    <link rel="manifest" href="/docs/4.4/assets/img/favicons/manifest.json">
    <link rel="mask-icon" href="/docs/4.4/assets/img/favicons/safari-pinned-
tab.svg" color="#563d7c">
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon.ico">
    <meta name="msapplication-
config" content="/docs/4.4/assets/img/favicons/browserconfig.xml">
    <meta name="theme-color" content="#563d7c">

<style>
    .bd-placeholder-img {
        font-size: 1.125rem;
        text-align: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        -ms-user-select: none;
        user-select: none;
    }

    @media (min-width: 768px) {
        .bd-placeholder-img-lg {
            font-size: 3.5rem;
        }
    }
</style>
```

```

    }
  }
</style>
<!-- Custom styles for this template -->
<!-- <link href="navbar-top-fixed.css" rel="stylesheet" /> -->
<link href="{% static 'css/navbar-top-fixed.css' %}" rel="stylesheet" />
</head>

<body>
  {% include 'navbar.html' %}

  <main role="main" class="container">
    <div class="jumbotron">
      <h1>{{ sample }}</h1>
      <p class="lead">This example is a quick exercise to illustrate how fixed to top nav
bar works. As you scroll,
        it will remain fixed to the top of your browser's viewport.</p>
      <a class="btn btn-lg btn-
primary" href="/docs/4.4/components/navbar/" role="button">View navbar docs
        &raquo;</a>
    </div>
  </main>
  <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
    integrity="sha384-
J6qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYf0RSJoZ+n" crossorigin="anonymous">
  </script>
  <script>
    window.jQuery || document.write('<script src="/docs/4.4/assets/js/vendor/jquery.slim.mi
n.js"></script>')
  </script>
  <script src="/docs/4.4/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-
6khuMg9gaYr5Ax0qhkVIOdVIm9ynTT5J4V1cfthmT+emCG6yVmEZsRHdxlotUnm" crossorigin="anonymous">
  </script>
</body>

</html>

```

File : [src/stockmgmt/templates/issue\\_items.html](src/stockmgmt/templates/issue_items.html)

```
{% load staticfiles %}
{% load crispy_forms_tags %}

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

<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
    <meta name="description" content="" />
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors" />
    <meta name="generator" content="Jekyll v3.8.6" />
    <title>{{title}}</title>

    <link rel="canonical" href="https://getbootstrap.com/docs/4.4/examples/navbar-fixed/" />

    <!-- Bootstrap core CSS -->
    <link href="{% static 'css/stylesheets.css' %}" rel="stylesheet" />
    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet" />

    <!-- <link href="/docs/4.4/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
Vkoo8x4CGsO3+Hhvxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

    <!-- Favicons -->
    <link rel="apple-touch-icon" href="/docs/4.4/assets/img/favicons/apple-touch-
icon.png" sizes="180x180" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
32x32.png" sizes="32x32" type="image/png" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
16x16.png" sizes="16x16" type="image/png" />
    <link rel="manifest" href="/docs/4.4/assets/img/favicons/manifest.json" />
    <link rel="mask-icon" href="/docs/4.4/assets/img/favicons/safari-pinned-
tab.svg" color="#563d7c" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon.ico" />
    <meta name="msapplication-
config" content="/docs/4.4/assets/img/favicons/browserconfig.xml" />
    <meta name="theme-color" content="#563d7c" />

<style>
    .bd-placeholder-img {
        font-size: 1.125rem;
        text-anchor: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        -ms-user-select: none;
        user-select: none;
    }

    @media (min-width: 768px) {
        .bd-placeholder-img-lg {
```

```

        font-size: 3.5rem;
    }
}
</style>
<!-- Custom styles for this template -->
<!-- <link href="navbar-top-fixed.css" rel="stylesheet" /> -->
<link href="{% static 'css/navbar-top-fixed.css' %}" rel="stylesheet" />

</head>

<body>
    {% include 'navbar.html' %}

    <main role="main" class="container">
        <div class="jumbotron">
            <h1>{{title}}</h1>

            <form method="POST" action="">
                {% csrf_token %} {{form|crispy}}
                <input class="btn btn-success" type="submit" value="Save" />

            </form>

        </div>
    </main>

    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
        integrity="sha384-
J6qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous">
    </script>
    <script>
        window.jQuery ||
            document.write(
                '<script src="/docs/4.4/assets/js/vendor/jquery.slim.min.js"></script>'
            );
    </script>
    <script src="/docs/4.4/dist/js/bootstrap.bundle.min.js"
        integrity="sha384-
6khuMg9gaYr5Ax0qhkVIOdVIm9ynTT5J4V1cftmT+emCG6yVmEZsRHdxlotUnm" crossorigin="anonymous">
    </script>
</body>

</html>

```

File : [src/stockmgmt/templates/list\\_history.html](src/stockmgmt/templates/list_history.html)

```
{% load staticfiles %}
{% load static %}
{% load crispy_forms_tags %}

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

<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
    <meta name="description" content="" />
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors" />
    <meta name="generator" content="Jekyll v3.8.6" />
    <title>{{title}}</title>

    <link rel="canonical" href="https://getbootstrap.com/docs/4.4/examples/navbar-fixed/" />

    <!-- Bootstrap core CSS -->
    <link href="{% static 'css/stylesheets.css' %}" rel="stylesheet" />
    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet" />

    <!-- <link href="/docs/4.4/dist/css/bootstrap.min.css" rel="stylesheet"
         integrity="sha384-Vkoo8x4CGs03+HhXv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

    <!-- Favicons -->
    <link rel="apple-touch-icon" href="/docs/4.4/assets/img/favicons/apple-touch-
icon.png" sizes="180x180" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
32x32.png" sizes="32x32" type="image/png" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
16x16.png" sizes="16x16" type="image/png" />
    <link rel="manifest" href="/docs/4.4/assets/img/favicons/manifest.json" />
    <link rel="mask-icon" href="/docs/4.4/assets/img/favicons/safari-pinned-
tab.svg" color="#563d7c" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon.ico" />
    <meta name="msapplication-
config" content="/docs/4.4/assets/img/favicons/browserconfig.xml" />
    <meta name="theme-color" content="#563d7c" />

    <style>
        .bd-placeholder-img {
            font-size: 1.125rem;
            text-anchor: middle;
            -webkit-user-select: none;
            -moz-user-select: none;
            -ms-user-select: none;
            user-select: none;
        }

        @media (min-width: 768px) {
            .bd-placeholder-img-lg {
                font-size: 3.5rem;
            }
        }
    </style>
</head>

<body>
    <div class="navbar navbar-light bg-white">
        <div class="container">
            <div class="d-flex justify-content-between">
                <div>
                    <img alt="Bootstrap logo" data-bbox="33 44 66 66" />
                    <span>Bootstrap</span>
                </div>
                <div>
                    <a href="#" class="text-decoration: none; color: inherit;">
                        Home
                    </a>
                    <a href="#" class="text-decoration: none; color: inherit;">
                        Features
                    </a>
                    <a href="#" class="text-decoration: none; color: inherit;">
                        Pricing
                    </a>
                    <a href="#" class="text-decoration: none; color: inherit;">
                        About
                    </a>
                    <a href="#" class="text-decoration: none; color: inherit;">
                        Contact
                    </a>
                </div>
            </div>
        </div>
    </div>

    <div class="main-content">
        <div class="container">
            <div class="row">
                <div class="col-md-6">
                    <h2>List History</h2>
                    <table border="1">
                        <thead>
                            <tr>
                                <th>ID</th>
                                <th>Symbol</th>
                                <th>Price</th>
                                <th>Volume</th>
                                <th>Date</th>
                            </tr>
                        </thead>
                        <tbody>
                            <tr>
                                <td>1</td>
                                <td>AAPL</td>
                                <td>150.00</td>
                                <td>1000000</td>
                                <td>2023-10-27</td>
                            </tr>
                            <tr>
                                <td>2</td>
                                <td>MSFT</td>
                                <td>330.00</td>
                                <td>500000</td>
                                <td>2023-10-27</td>
                            </tr>
                            <tr>
                                <td>3</td>
                                <td>GOOGL</td>
                                <td>2800.00</td>
                                <td>200000</td>
                                <td>2023-10-27</td>
                            </tr>
                            <tr>
                                <td>4</td>
                                <td>AMZN</td>
                                <td>150.00</td>
                                <td>800000</td>
                                <td>2023-10-27</td>
                            </tr>
                            <tr>
                                <td>5</td>
                                <td>META</td>
                                <td>320.00</td>
                                <td>300000</td>
                                <td>2023-10-27</td>
                            </tr>
                        </tbody>
                    </table>
                </div>
                <div class="col-md-6">
                    <h2>Add New</h2>
                    <form>
                        <div class="form-group">
                            <input type="text" class="form-control" value="" />
                        </div>
                        <div class="form-group">
                            <input type="text" class="form-control" value="" />
                        </div>
                        <div class="form-group">
                            <input type="text" class="form-control" value="" />
                        </div>
                        <div class="form-group">
                            <input type="text" class="form-control" value="" />
                        </div>
                        <div class="form-group">
                            <input type="text" class="form-control" value="" />
                        </div>
                        <div class="form-group">
                            <input type="button" value="Add" class="btn btn-primary" />
                        </div>
                    </form>
                </div>
            </div>
        </div>
    </div>
</body>
</html>
```



```

    }
  }
</style>

<!-- Custom styles for this template -->
<!-- <link href="navbar-top-fixed.css" rel="stylesheet" /> -->
<link href="{% static 'css/navbar-top-fixed.css' %}" rel="stylesheet" />

<!-- <script src="{% static 'js/myjs1.js' %}"></script> -->

<script src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.min.js"></script>
<script src="{% static 'js/jq/jquery-ui.theme.min.css' %}"></script>
<script src="{% static 'js/jq/jquery-ui.structure.min.css' %}"></script>
<script src="{% static 'js/jq/jquery-ui.min.css' %}"></script>

<script src="{% static 'js/jquery.js' %}"></script>
<script src="{% static 'js/jq/jquery-ui.min.js' %}"></script>

</head>

<body>

  {% include 'navbar.html' %}

  <main role="main" class="container">

    {% if messages %}
    <ul class="messages">
      {% for message in messages %}
      <li{% if message.tags %} class="{% message.tags %}" {% endif %}>{{ message }}</li>
      {% endfor %}
    </ul>
    {% endif %}

    <div class="jumbotron">
      <div class="header"> {{header}}</div>

      <!-- <form method='POST' action=''>
        {% csrf_token %}
        {{form|crispy}}
        <input type="submit" value='Search' />
      </form> -->

      <form method='POST' action=''>
        {% csrf_token %}
        {{form|crispy}}
        <input class="mybutton btn btn-
success" type="submit" value='Search / Export' />
      </form>

```



```

        {% endfor %}
    </table>
</div>

</div>
</main>

</body>

<!-- <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
    integrity="sha384-
J6qa4849bLE2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous">
</script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
    integrity="sha384-
Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossorigin="anonymous">
</script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"
    integrity="sha384-
wfSDF2E50Y2D1uUdj003uMBJnjuUD4Ih7YwaYd1iqfktj0Uod8GCExl30G8ifwB6" crossorigin="anonymous">
</script> -->

<script src="{% static 'js/jquery' %}"></script>
<script src="{% static 'js/jquery-3.4.1.slim.min.js' %}"></script>
<script src="{% static 'js/bootstrap.min.js' %}"></script>
<script src="{% static 'js/popper.min.js' %}"></script>

<script src="{% static 'js/pager/paging.js' %}"></script>
<script src="{% static 'js/myjs1.js' %}"></script>
</html>

```

File : [src/stockmgmt/templates/list\\_items.html](src/stockmgmt/templates/list_items.html)

```
{% load staticfiles %}
{% load crispy_forms_tags %}

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

<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
    <meta name="description" content="" />
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors" />
    <meta name="generator" content="Jekyll v3.8.6" />
    <title>{{title}}</title>

    <link rel="canonical" href="https://getbootstrap.com/docs/4.4/examples/navbar-fixed/" />

    <!-- Bootstrap core CSS -->
    <!-- <link href="{% static 'css/stylesheet.css' %}" rel="stylesheet" /> -->

    <!-- <link href="/docs/4.4/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
Vkoo8x4CGs03+HhXv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

    <!-- Favicons -->
    <link rel="apple-touch-icon" href="/docs/4.4/assets/img/favicons/apple-touch-
icon.png" sizes="180x180" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
32x32.png" sizes="32x32" type="image/png" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
16x16.png" sizes="16x16" type="image/png" />
    <link rel="manifest" href="/docs/4.4/assets/img/favicons/manifest.json" />
    <link rel="mask-icon" href="/docs/4.4/assets/img/favicons/safari-pinned-
tab.svg" color="#563d7c" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon.ico" />
    <meta name="msapplication-
config" content="/docs/4.4/assets/img/favicons/browserconfig.xml" />
    <meta name="theme-color" content="#563d7c" />

<style>
    .bd-placeholder-img {
        font-size: 1.125rem;
        text-align: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        -ms-user-select: none;
        user-select: none;
    }

    @media (min-width: 768px) {
```

```

        .bd-placeholder-img-lg {
            font-size: 3.5rem;
        }
    }
</style>
<!-- Custom styles for this template -->
<!-- <link href="navbar-top-fixed.css" rel="stylesheet" /> -->
<link href="{% static 'css/navbar-top-fixed.css' %}" rel="stylesheet" />
<link href="{% static 'css/stylesheets.css' %}" rel="stylesheet" />
<link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet" />
<!-- <link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css"> -->
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
</head>

<body>
    {% include 'navbar.html' %}

    <main role="main" class="container">

        {% if messages %}
        <ul class="messages">
            {% for message in messages %}
            <li{% if message.tags %} class="{ { message.tags } }" {% endif %}>{{ message }}</li>
            {% endfor %}
        </ul>
        {% endif %}

        <div class="jumbotron ">
            <!-- <div class="col-sm-20"> -->
            <div class="header">
                {{header}}
            </div>
            <!-- </div> -->

            <div class="row">
                <!--Start of row-->

                <div class="col-sm-2">
                    <!--Start of first col-->

                    <form method='POST' action=''>
                        {% csrf_token %}
                        {{form|crispy}}
                        <input type="submit" class="mybutton btn btn-
success" value='Search / Export' />
                    </form>
                    <br>
                    <br>
                    <br>
                    <br>
                    <a href="/add_items">
                        <div class="mybutton btn btn-primary">
                            Add Items
                        </div>
                    </a>
                    <br>

```

```

        <br>
        <a href="/list_history">
            <div class="btn btn-primary mybutton">
                List History
            </div>
        </a>
        <br>
        <br>
    </div>
    <!--End of first col-->

```

```

<div class="col-sm-10">
    <!--Start of second col-->
    <br>
    <br>
    <br>
    <div class="display_table">
        <table class='table'>
            <thead>
                <tr>
                    <th>ITEM NO.</th>
                    <th>CATEGORY</th>
                    <th>ITEM NAME</th>
                    <th>QUANTITY IN STORE</th>
                    <th>REORDER LEVEL</th>
                    <!-- <th>TIMESTAMP</th> -->
                    <th>LAST UPDATED</th>
                    <th>DELETE</th>
                </tr>
            </thead>
            {% for instance in queryset %}
            <tr>
                <td>{{forloop.counter}}</td>
                <td>{{instance.category}}</td>
                <td><a href="{% url 'update_items' instance.id %}">{{instance.i
tem_name}}</a></td>
                <td>
                    {% if instance.quantity <= instance.reorder_level %}
                    <div style="background-color:red;">
                        <a style="color: aliceblue;"
                            href="{% url 'stock_detail' instance.id %}">{{insta
nce.quantity}}</a>
                    </div>
                    {% else %}
                    <a href="{% url 'stock_detail' instance.id %}">{{instance.q
uantity}}</a>
                    {% endif %}
                </td>
                <td><a href="{% url 'reorder_level' instance.id %}">{{instance.
reorder_level}}</a></td>
                <!-- <td>{{instance.timestamp}}</td> -->
                <td>{{instance.last_updated}}</td>
                <td><a href="{% url 'delete_items' instance.id %}">
                    <div style="color:red;">

```

```

                <i class="fa fa-trash w3-small"></i>
            </div>
        </a>
    </td>
</tr>
</tr>
{% endfor %}
</table>
</div>
<!--End of second col-->
</div>
<!--End of Display Table -->
</div>
<!--End of row-->
</div>
<!--End of Jumbotron -->

```

```

</main>

```

```

<script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
    integrity="sha384-
J6qa4849blE2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous">
</script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
    integrity="sha384-
Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossorigin="anonymous">
</script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"
    integrity="sha384-
wfSDF2E50Y2D1uUdj003uMBJnjuUD4Ih7YwaYd1iqfktj0Uod8GCExl30G8ifwB6" crossorigin="anonymous">
</script>
</body>
</html>

```

File : <src/stockmgmt/templates/navbar.html>

```
<nav class="navbar navbar-expand-md navbar-dark fixed-top bg-dark">
  <a class="navbar-brand" href="/"></a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarCollapse"
    aria-controls="navbarCollapse" aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarCollapse">
    <ul class="navbar-nav mr-auto">
      <li class="nav-item">
      </li>
      <li class="nav-item">

      </li>
      <li class="nav-item active">
        <a class="nav-link" href="/"> Home <span class="sr-only">(current)</span></a>
      </li>

      {% if request.user.is_authenticated %}

      <li class="nav-item">
        <a class="nav-link" href="/list_items">List Items</a>
      </li>

      <li class="nav-item">
        <a class="nav-link" href="/add_items">Add Items</a>
      </li>

      <li class="nav-item">
        <a class="nav-link" href="/list_history">List History</a>
      </li>

      {% endif %}

    </ul>
    <ul class="navbar-nav">
      {% if request.user.is_authenticated %}
      <li>
        <a href="/accounts/logout"><button class="btn btn-
danger">{{user}} | Logout</button></a>
      </li>
      {% else %}
      <li><a href="/accounts/login"><button class="btn btn-
primary">Login</button></a></li>
      {% endif %}
    </ul>
  </div>
</nav>

<a href="#">
  <div id="version-display" data-toggle="modal" data-target="#myModal">
    I . T . S .
  </div>
```



```

</a>
<div id="myModal" class="modal fade" role="dialog">
  <div class="modal-dialog">
    <!-- Modal content-->
    <div class="modal-content">

      <div class="modal-header">

        <!-- <button type="button" class="close" data-
dismiss="modal">&times;</button> -->
        <h4 class="modal-title" style="text-align: center;">System Information</h4>

      </div>
      <div class="modal-body">
        <div class="dev-info">
          <p class=""><b>Inventory Tracking System</b></p>
          <p>VERSION: 1.1</p>
          <a href="https://github.com/radonintro1234" target="_blank">
            <p>
              <!-- <link rel="icon" href="/static/img/its_icon.ico"> -->
              
            </p>
          </a>
          <br>
          <p class="modal-header">DEVELOPED BY:</p>
          <p>Rishi Mule</p>
          <p>Shubham Mulik</p>
          <p>Gaurav Gend</p>
          <p>Vedant Padwal</p>

        </div>
      </div>

      <div class="modal-footer">
        <button type="button" class="btn btn-primary" data-
dismiss="modal">Close</button>
      </div>

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

```

File : [src/stockmgmt/templates/receive\\_items.html](src/stockmgmt/templates/receive_items.html)

```
{% load staticfiles %}
{% load crispy_forms_tags %}

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

<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
    <meta name="description" content="" />
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors" />
    <meta name="generator" content="Jekyll v3.8.6" />
    <title>{{title}}</title>

    <link rel="canonical" href="https://getbootstrap.com/docs/4.4/examples/navbar-fixed/" />

    <!-- Bootstrap core CSS -->
    <link href="{% static 'css/stylesheets.css' %}" rel="stylesheet" />
    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet" />

    <!-- <link href="/docs/4.4/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
Vkoo8x4CGsO3+Hhvxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

    <!-- Favicons -->
    <link rel="apple-touch-icon" href="/docs/4.4/assets/img/favicons/apple-touch-
icon.png" sizes="180x180" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
32x32.png" sizes="32x32" type="image/png" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
16x16.png" sizes="16x16" type="image/png" />
    <link rel="manifest" href="/docs/4.4/assets/img/favicons/manifest.json" />
    <link rel="mask-icon" href="/docs/4.4/assets/img/favicons/safari-pinned-
tab.svg" color="#563d7c" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon.ico" />
    <meta name="msapplication-
config" content="/docs/4.4/assets/img/favicons/browserconfig.xml" />
    <meta name="theme-color" content="#563d7c" />

<style>
    .bd-placeholder-img {
        font-size: 1.125rem;
        text-anchor: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        -ms-user-select: none;
        user-select: none;
    }

    @media (min-width: 768px) {
        .bd-placeholder-img-lg {
```

```

        font-size: 3.5rem;
    }
}
</style>
<!-- Custom styles for this template -->
<!-- <link href="navbar-top-fixed.css" rel="stylesheet" /> -->
<link href="{% static 'css/navbar-top-fixed.css' %}" rel="stylesheet" />

</head>

<body>
    {% include 'navbar.html' %}

    <main role="main" class="container">
        <div class="jumbotron">
            <h1>{{title}}</h1>

            <form method="POST" action="">
                {% csrf_token %} {{form|crispy}}
                <input class="btn btn-success" type="submit" value="Save" />

            </form>

        </div>
    </main>

    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
        integrity="sha384-
J6qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous">
    </script>
    <script>
        window.jQuery ||
        document.write(
            '<script src="/docs/4.4/assets/js/vendor/jquery.slim.min.js"></script>'
        );
    </script>
    <script src="/docs/4.4/dist/js/bootstrap.bundle.min.js"
        integrity="sha384-
6khuMg9gaYr5Ax0qhkVIOdVIm9ynTT5J4V1cfthmT+emCG6yVmEZsRHdxlotUnm" crossorigin="anonymous">
    </script>
</body>

</html>

```

File : [src/stockmgmt/templates/stock\\_detail.html](src/stockmgmt/templates/stock_detail.html)

```
{% load staticfiles %}
{% load crispy_forms_tags %}
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
    <meta name="description" content="" />
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors" />
    <meta name="generator" content="Jekyll v3.8.6" />
    <title>{{title}}</title>

    <link rel="canonical" href="https://getbootstrap.com/docs/4.4/examples/navbar-fixed/" />

    <!-- Bootstrap core CSS -->
    <link href="{% static 'css/stylesheets.css' %}" rel="stylesheet" />
    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet" />

    <!-- <link href="/docs/4.4/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
Vkoo8x4CGs03+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

    <!-- Favicons -->
    <link rel="apple-touch-icon" href="/docs/4.4/assets/img/favicons/apple-touch-
icon.png" sizes="180x180" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
32x32.png" sizes="32x32" type="image/png" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon-
16x16.png" sizes="16x16" type="image/png" />
    <link rel="manifest" href="/docs/4.4/assets/img/favicons/manifest.json" />
    <link rel="mask-icon" href="/docs/4.4/assets/img/favicons/safari-pinned-
tab.svg" color="#563d7c" />
    <link rel="icon" href="/docs/4.4/assets/img/favicons/favicon.ico" />
    <meta name="msapplication-
config" content="/docs/4.4/assets/img/favicons/browserconfig.xml" />
    <meta name="theme-color" content="#563d7c" />

<style>
    .bd-placeholder-img {
        font-size: 1.125rem;
        text-align: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        -ms-user-select: none;
        user-select: none;
    }

    @media (min-width: 768px) {
        .bd-placeholder-img-lg {
            font-size: 3.5rem;
        }
    }
</style>
```

```

</style>
<!-- Custom styles for this template -->
<!-- <link href="navbar-top-fixed.css" rel="stylesheet" /> -->
<link href="{% static 'css/navbar-top-fixed.css' %}" rel="stylesheet" />
</head>

<body>
    {% include 'navbar.html' %}

    <main role="main" class="container">

        {% if messages %}
        <ul class="messages">
            {% for message in messages %}
            <li{% if message.tags %} class="{ { message.tags } }" {% endif %}>{{ message }}</li>
            {% endfor %}
        </ul>
        {% endif %}

        <div class="jumbotron">
            <div class="header"> {{header}}</div>

            <br>

            <a href="{% url 'issue_items' queryset.id %}">
                <div class='btn btn-danger'>ISSUE THIS ITEM</div>
            </a>
            <a href="{% url 'receive_items' queryset.id %}">
                <div class='btn btn-primary'>RECEIVE THIS ITEM</div>
            </a>

            <br><br>
            <div class="display_table">
                <table class='table'>
                    <tr>
                        <th>ITEM NAME</th>
                        <th>QUANTITY IN STORE</th>
                        <th>LAST UPDATED</th>
                        <th>REORDER LEVEL</th>
                    </tr>
                    <tr>
                        <td>{{ queryset.item_name }}</td>
                        <td>{{ queryset.quantity }}</td>
                        <td>{{ queryset.last_updated }}</td>
                        <td>{{ queryset.reorder_level }}</td>
                    </tr>
                </table>
            </div>

        </div>
    </main>
    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
        integrity="sha384-
J6qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYf0RSJoZ+n" crossorigin="anonymous">
    </script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"

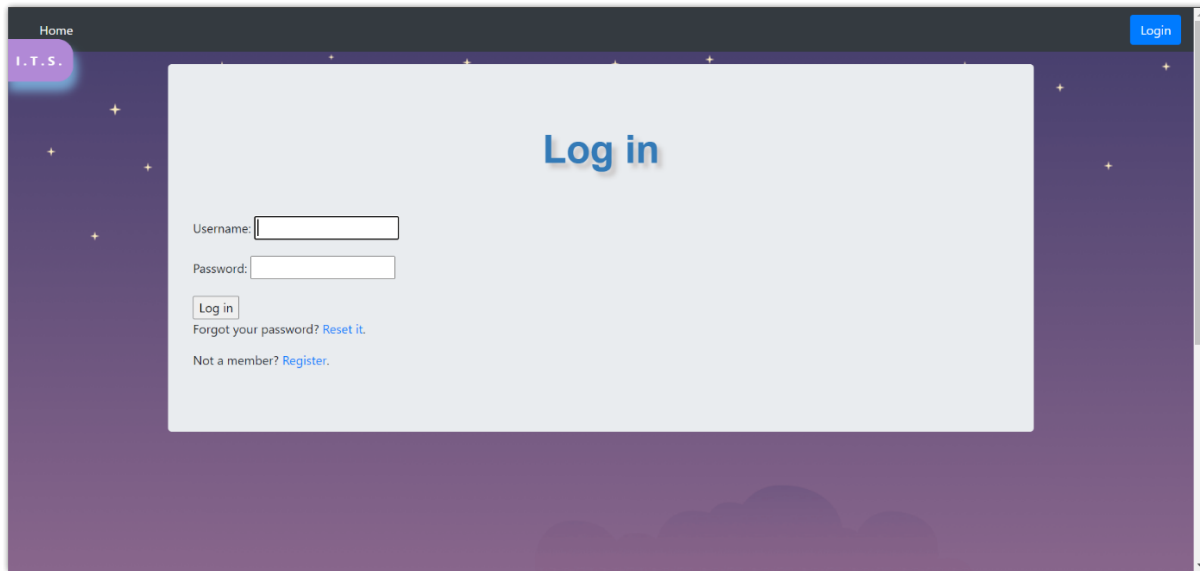
```

```
    integrity="sha384-
Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossorigin="anonymous">
  </script>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"
    integrity="sha384-
wfSDF2E50Y2D1uUdj003uMBJnjuUD4Ih7YwaYd1iqfktj0Uod8GCExl30g8ifwB6" crossorigin="anonymous">
  </script>
</body>

</html>
```

# Output:

- **LOGIN:**



The screenshot shows a web application interface for logging in. The background is a dark purple gradient with white stars. A light gray rectangular box is centered on the page, containing the login form. The form includes fields for 'Username' and 'Password', a 'Log in' button, and links for 'Forgot your password? Reset it.' and 'Not a member? Register.'.

Home Login

I.T.S.

## Log in

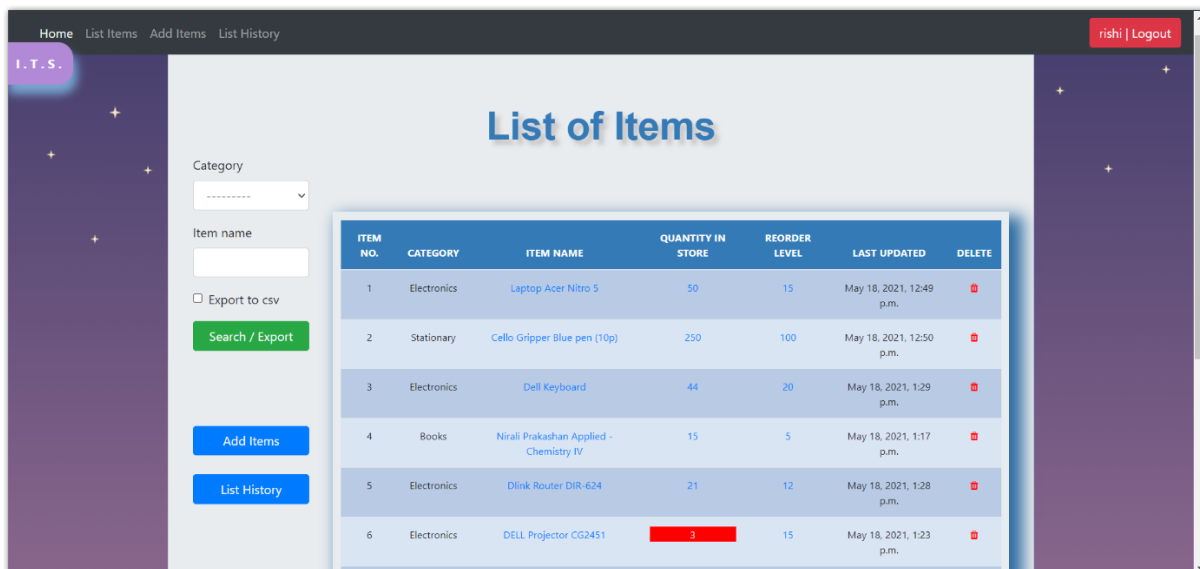
Username:

Password:

Forgot your password? [Reset it.](#)

Not a member? [Register.](#)

- **LIST ITEMS:**



The screenshot shows a web application interface for listing items. The background is a dark purple gradient with white stars. A light gray rectangular box is centered on the page, containing the 'List of Items' table. The table has columns for Item No., Category, Item Name, Quantity in Store, Reorder Level, Last Updated, and Delete. The table is filtered by 'Category' and 'Item name'. The 'Quantity in Store' for item 6 is highlighted in red.

Home List Items Add Items List History rishi | Logout

I.T.S.

## List of Items

Category:

Item name:

☐ Export to csv

ITEM NO.	CATEGORY	ITEM NAME	QUANTITY IN STORE	REORDER LEVEL	LAST UPDATED	DELETE
1	Electronics	Laptop Acer Nitro 5	50	15	May 18, 2021, 12:49 p.m.	<input type="button" value="X"/>
2	Stationary	Cello Gripper Blue pen (10p)	250	100	May 18, 2021, 12:50 p.m.	<input type="button" value="X"/>
3	Electronics	Dell Keyboard	44	20	May 18, 2021, 1:29 p.m.	<input type="button" value="X"/>
4	Books	Nirali Prakashan Applied - Chemistry IV	15	5	May 18, 2021, 1:17 p.m.	<input type="button" value="X"/>
5	Electronics	Dlink Router DIR-624	21	12	May 18, 2021, 1:28 p.m.	<input type="button" value="X"/>
6	Electronics	DELL Projector CG2451	3	15	May 18, 2021, 1:23 p.m.	<input type="button" value="X"/>

- **ADD ITEM:**

The screenshot shows a web application interface with a dark purple header and a starry night background. The header contains navigation links: 'Home', 'List Items', 'Add Items', and 'List History'. A red button labeled 'rishi | Logout' is in the top right. A purple sidebar on the left has a button labeled 'I.T.S.'. The main content area features a light gray 'Add Item' form. The form has three input fields: 'Category' (a dropdown menu), 'Item name' (a text box), and 'Quantity\*' (a text box with '0' entered). At the bottom of the form are two buttons: a green 'Save' button and a blue 'Add Category' button.

- **UPDATE ITEM:**

The screenshot shows the same web application interface as above, but the 'Add Item' form is now an 'Update Item' form. The 'Category' dropdown menu is set to 'Electronics'. The 'Item name' text box contains 'Laptop Acer Nitro 5'. The 'Quantity\*' text box contains '50'. The green 'Save' button and blue 'Add Category' button are still present at the bottom of the form.



- **UPDATE REORDER LEVEL:**

The screenshot shows a web application interface with a dark purple background and a starry pattern. At the top, there is a navigation bar with links: Home, List Items, Add Items, and List History. On the right side of the navigation bar, there is a user profile section with the text 'rishi | Logout'. On the left side, there is a sidebar with the text 'I.T.S.'. The main content area features a light gray modal box with the title 'Reorder level'. Inside the modal, there is a text input field containing the number '15'. Below the input field, there are two buttons: a green 'Save' button and a blue 'Add Category' button.

- **VIEW ITEM:**

The screenshot shows a web application interface with a dark purple background and a starry pattern. At the top, there is a navigation bar with links: Home, List Items, Add Items, and List History. On the right side of the navigation bar, there is a user profile section with the text 'rishi | Logout'. On the left side, there is a sidebar with the text 'I.T.S.'. The main content area features a light gray modal box with the title 'VIEW ITEM'. Inside the modal, there are two buttons: a red 'ISSUE THIS ITEM' button and a blue 'RECEIVE THIS ITEM' button. Below the buttons, there is a table with the following data:

ITEM NAME	QUANTITY IN STORE	LAST UPDATED	REORDER LEVEL
Dell Keyboard	44	May 18, 2021, 1:29 p.m.	20

- **ISSUE ITEM:**

The screenshot shows a web application interface with a dark purple background and a starry pattern. At the top, there is a navigation bar with links: Home, List Items, Add Items, and List History. On the right side of the navigation bar, there is a red button labeled 'rishi | Logout'. On the left side, there is a purple button labeled 'I.T.S.'. The main content area features a light gray modal box titled 'Issue Dell Keyboard'. Inside the modal, there are two input fields: 'Issue quantity' with the value '25' and 'Issue to' with the value 'Ms. Rauth'. Below these fields is a green 'Save' button.

- **RECEIVE ITEM:**

The screenshot shows the same web application interface as the previous one, but with a modal box titled 'Receive Dell Keyboard'. Inside this modal, there is one input field labeled 'Receive quantity' with the value '45'. Below this field is a green 'Save' button. The navigation bar and background elements are identical to the previous screenshot.

- VIEW TRANSACTION HISTORY:

**HISTORY DATA**

Category:

Item name:

☐ Export to csv

[Search / Export](#)

CATEGORY	ITEM NAME	QUANTITY IN STORE	ISSUED QUANTITY	RECEIVED QUANTITY	ISSUED BY	ISSUED TO	RECEIVED BY	LAST UPDATED
Electronics	Laptop Acer Nitro 5	50	0	50			Rishi	May 18, 2021, 12:49 p.m.
Stationary	Cello Gripper Blue pen (10p)	300	0	300			Rishi	May 18, 2021, 12:50 p.m.
Stationary	Cello Gripper Blue pen (10p)	250	50	0	Rishi	Dr. Padil		May 18, 2021, 12:50 p.m.
Books	Nirali Prakashan Applied - Chemistry IV	15	0	15			Rishi	May 18, 2021, 1:17 p.m.
Electronics	Full Keyboard	84	0	84			Rishi	May 18, 2021, 1:17 p.m.

- SYSTEM INFORMATION:

**System Information**

**Inventory Tracking System**

VERSION: 1.1

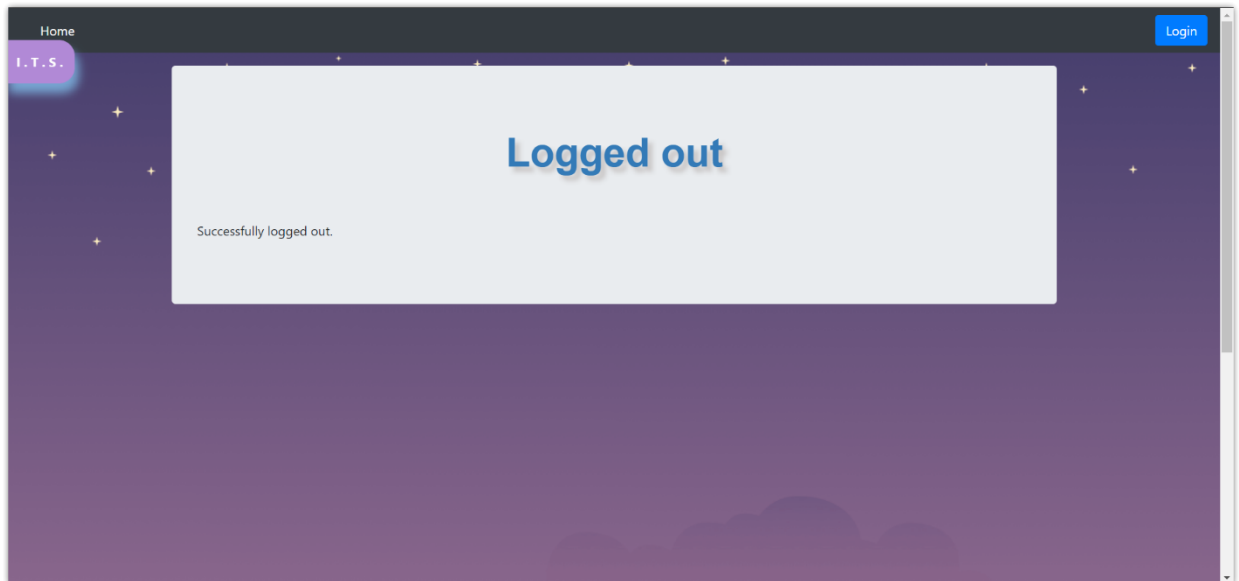
[Up Arrow](#)

**DEVELOPED BY:**

Rishi Mule  
Shubham Mulik  
Gaurav Gend  
Vedant Padwal

[Close](#)

- **LOGOUT:**



## **Conclusion of the Project:**

Our project is only a humble venture that satisfies the needs to manage their project work. Several user-friendly coding has also been adopted.

This package shall prove to be a powerful package in satisfying all the requirements of an institute.

The objective of software planning is to provide a framework that enables the manager to make reasonable estimates made with a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

While developing the system a conscious effort has been made to create and develop a software package, making use of available tools, techniques, and resources – that would generate a proper System.

While making the system, an eye has been kept on making it as user-friendly, as cost-effective, and as flexible as possible.

As such one may hope that the system will be acceptable to any user and will adequately meet his/her needs.

As in case of any system development processes where there are several shortcomings, there have been some shortcomings in the development of this system also. The project is still under modification.

## **Future Scopes of the Project:**

In a nutshell, it can be summarized that the future scope of the project circles around maintain information regarding:

- We could add a print option in future.
- We could design a more advanced application for Inventory Tracking System including more facilities.
- We will host the platform on online servers to make it accessible worldwide.
- Integrate multiple load balancers to distribute the loads of the system.
- Create the master and slave database structure to reduce the overload of the database queries.
- Implement the backup mechanism for taking backup codebase and database on regular basis on different servers.

The above-mentioned points are the enhancements which can be done to increase the applicability and usage of the project.

We have left all the options open so that if there is any other future requirement in the system by the user for the enhancement of the system then it is possible to implement them.

## **References:**

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