

ATS

**E-SHOPPING
WEBSITE**

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I. INTRODUCTION

ATS E-SHOPPING is an innovative online marketplace that revolutionizes the way customers shop for products. The website boasts a user-friendly interface that allows customers to browse through a diverse range of products conveniently. From fashion and beauty to electronics and home essentials, ATS E-SHOPPING offers an extensive collection of items to suit every taste and preference.

With its responsive design, ATS E-SHOPPING ensures a seamless shopping experience across all devices, including desktops, laptops, tablets, and smartphones. Customers can easily navigate through the website, explore product details, add items to their cart, and proceed to checkout effortlessly.



II. ABSTRACT

ATS E-SHOPPING is a modern e-commerce platform designed to provide users with a seamless online shopping experience. Built using Python and Django framework, ATS E-SHOPPING offers a wide range of products across various categories such as fashion, beauty, home, electronics, and more. The website features an intuitive user interface, secure payment processing, and efficient order management system. With its responsive design and robust functionality, ATS E-SHOPPING aims to cater to the diverse needs of customers while ensuring convenience and satisfaction.

Keywords: ATS E-SHOPPING, e-commerce, online shopping, Python, Django, Bootstrap, MySQL, Jazzmin, Pillow, responsive design, secure payment, order management. ATS E-SHOPPING, e-commerce, online shopping, Python, Django, Bootstrap, MySQL, Jazzmin, Pillow, responsive design, secure payment, order management.



III. PROJECT OVERVIEW

ATS E-SHOPPING is a sophisticated e-commerce platform developed to provide users with an exceptional online shopping experience. Leveraging state-of-the-art technologies such as Python, Django, Bootstrap, and MySQL, this project aims to create a robust and feature-rich platform for both customers and administrators.

1. Key Features:

- a) **User-Friendly Interface:** The website boasts an intuitive and visually appealing user interface, making it easy for customers to navigate, search for products, and make purchases.
- b) **Product Categories:** ATS E-SHOPPING offers a wide range of product categories, including fashion, beauty, electronics, home essentials, and more, catering to diverse customer preferences.
- c) **Responsive Design:** With a responsive design, the website ensures seamless accessibility across various devices, providing a consistent user experience on desktops, laptops, tablets, and smartphones.
- d) **Secure Payment Processing:** Security is paramount, and ATS E-SHOPPING implements robust measures to safeguard customer information and ensure secure payment transactions.
- e) **Order Management System:** The platform includes an efficient order management system that enables customers to track their orders, view order history, and manage account details with ease.
- f) **Admin Dashboard:** Administrators have access to a comprehensive dashboard equipped with powerful tools for managing products, orders, customer data, and website settings.
- g) **Customization Options:** ATS E-SHOPPING offers customization options, allowing administrators to configure settings, manage product categories, and personalize the website to meet specific business requirements.
- h) **Customer Support:** The project prioritizes customer support, providing users with assistance, resolving queries, and ensuring a seamless shopping experience.

IV. REQUIREMENTS

The ATS E-SHOPPING website was developed using the following software versions:

1. Python: 3.12.2
2. Django: 5.0.3
3. MySQL: 8.0.35
4. Operating System: Windows 10, 11

V. TECHNOLOGIES USED

The project leverages a variety of technologies and frameworks to deliver a rich user experience:

1. HTML
2. CSS
3. JavaScript
4. Bootstrap
5. Django Jazzmin
6. Pillow (Python Imaging Library)

VI. FUNCTIONALITY

ATS E-SHOPPING offers an array of features to enhance the online shopping experience:

1. User authentication (registration, login, logout)
2. Product management (categories, products, descriptions, images)
3. Shopping cart and wishlist management
4. Order placement, payment processing, and order tracking
5. Product search functionality
6. Contact form for user inquiries
7. Feedback submission form
8. Product reviews and ratings

VII. PROJECT STRUCTURE

1. Project Structure:

The ATS E-SHOPPING project follows a structured organization to maintain clarity, modularity, and scalability. Below is an overview of the project structure:

- a) ecommercee/: Main project directory containing settings and configuration files.
- b) __init__.py: Python package initializer.
- c) settings.py: Django settings file defining project settings such as database configuration, static files, and middleware.
- d) urls.py: URL configuration for the project.
- e) wsgi.py: WSGI application entry point.
- f) store/: Django application directory for the e-commerce store functionality.
- g) __init__.py: Python package initializer.
- h) admin.py: Django admin configurations for managing models via the admin interface.
- i) apps.py: Django application configuration.
- j) controller.py: Module containing controller functions for handling business logic.
- k) forms.py: Django forms for user input validation.

middleware.py: Custom middleware for handling database errors.

- l) models.py: Django models defining database schema for categories, products, carts, orders, etc.
- m) static/: Directory containing static files such as CSS, JavaScript, and images.
- n) templates/: Directory containing HTML templates for rendering views.
- o) tests.py: Unit tests for the application.
- p) urls.py: URL configurations for the application.
- q) views.py: Django views containing logic for rendering HTML templates and handling HTTP requests.

- r) uploads/: Directory for storing uploaded files such as product images.
- s) media/: Directory for storing media files such as user-uploaded images.
- t) templates/: Directory for storing project-wide HTML templates.
- u) static/: Directory for storing project-wide static files such as CSS, JavaScript, and images.
- v) db.sqlite3: SQLite database file for local development (will vary if using MySQL).
- w) manage.py: Django project management script for tasks such as running the development server, creating migrations, and managing the database schema.

2. Dependencies

The project relies on the following technologies and frameworks:

- a) Python 3.12.2: Core programming language for backend development.
- b) Django 5.0.3: High-level Python web framework for rapid development of web applications.
- c) MySQL 8.0.35: Relational database management system for data storage.
- d) HTML, CSS, JavaScript: Frontend technologies for building user interfaces.
- e) Bootstrap: Frontend framework for responsive and mobile-first web development.
- f) Jazzmin: Django admin theme for enhancing the appearance and functionality of the admin interface.
- g) Pillow: Python Imaging Library for image processing and manipulation.

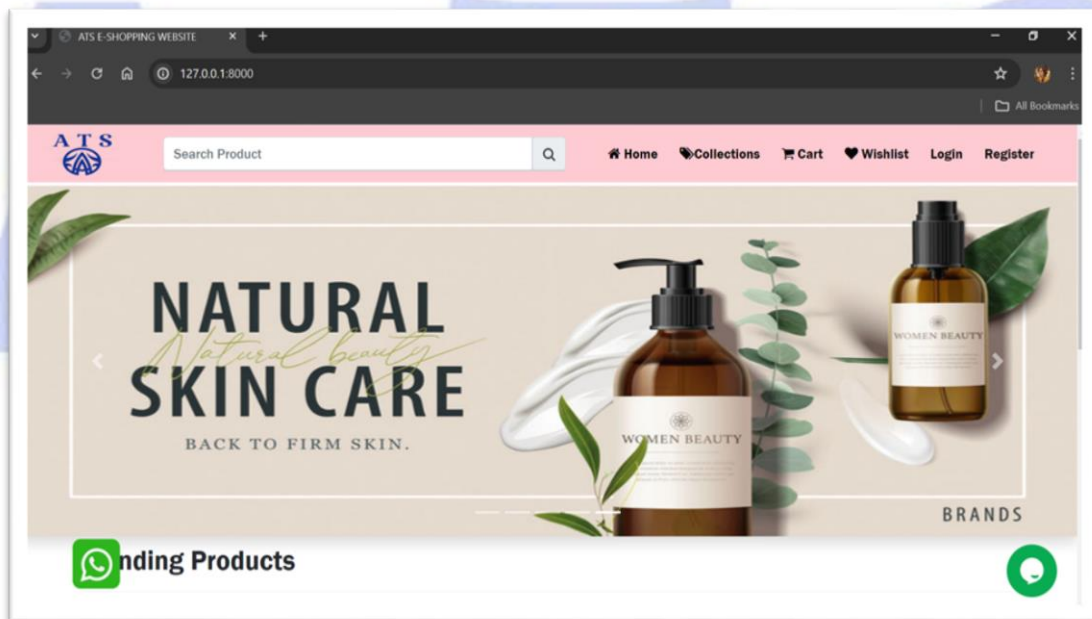
3. Development Environment

The project was developed and tested on a development environment running Windows 10 operating system. It is recommended to set up a similar environment for local development and testing.

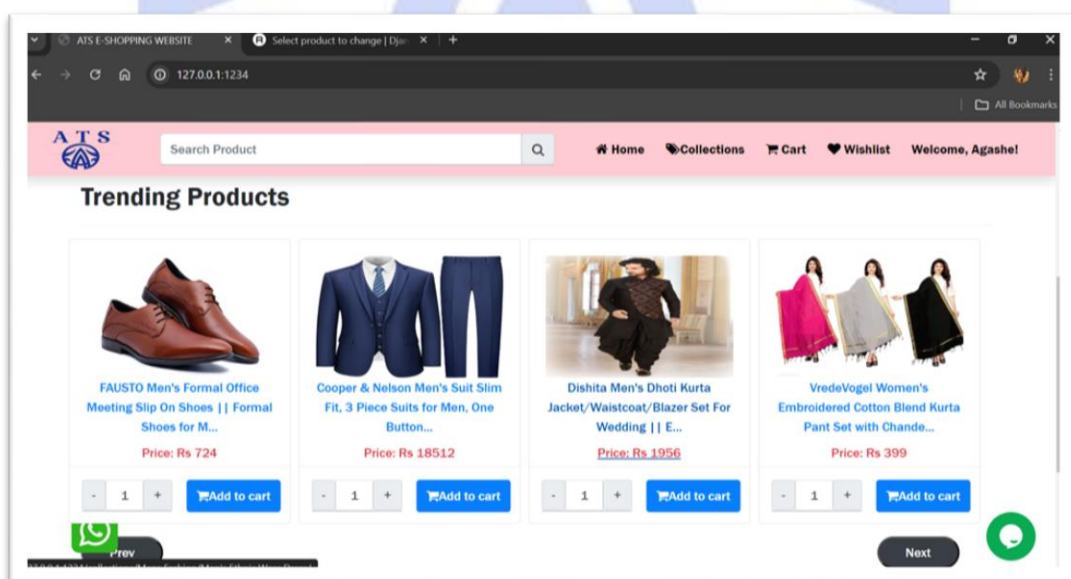
VIII. Screenshots

1. Home Page

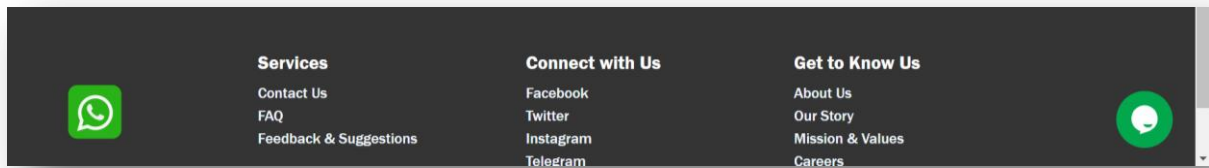
a) Header :



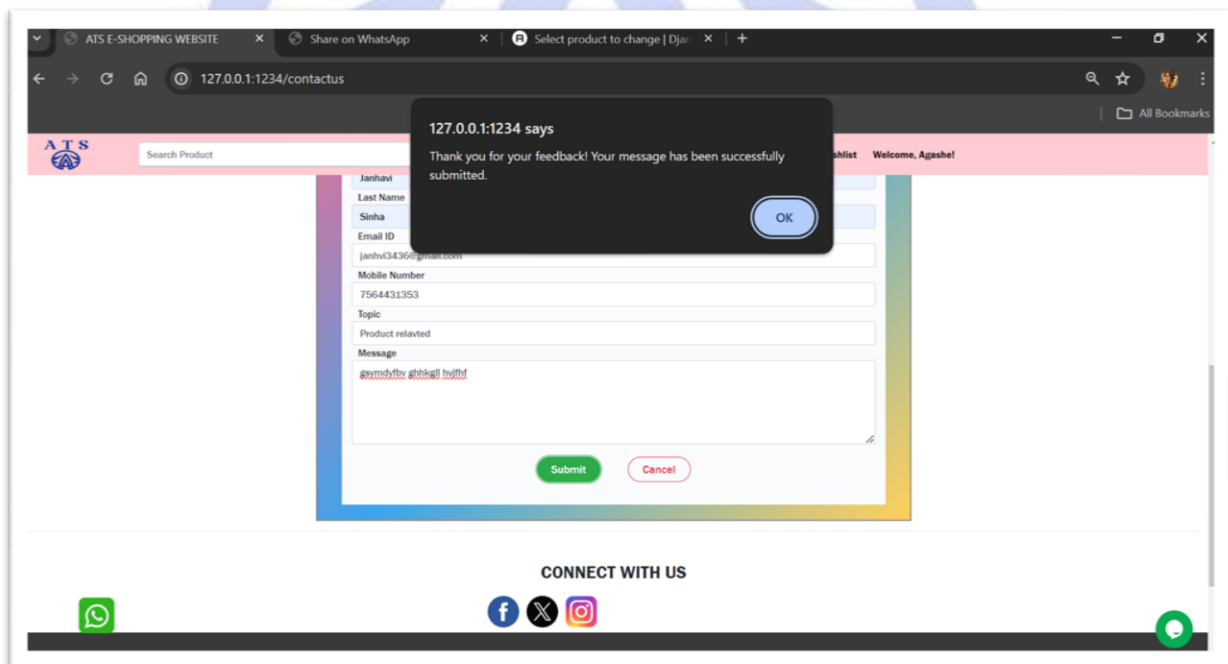
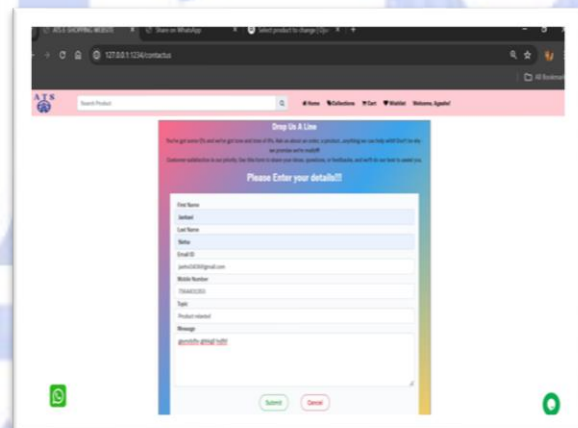
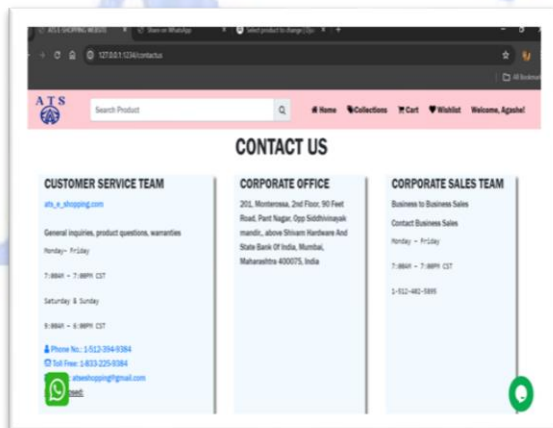
b) Body:



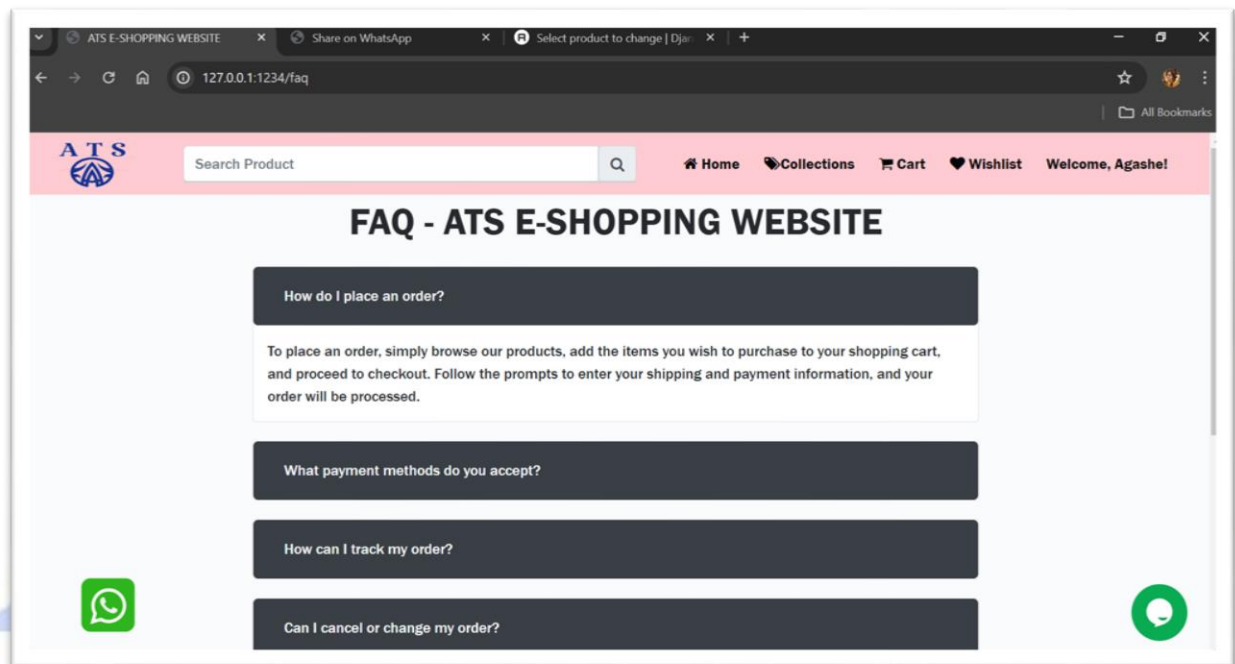
c) Footer



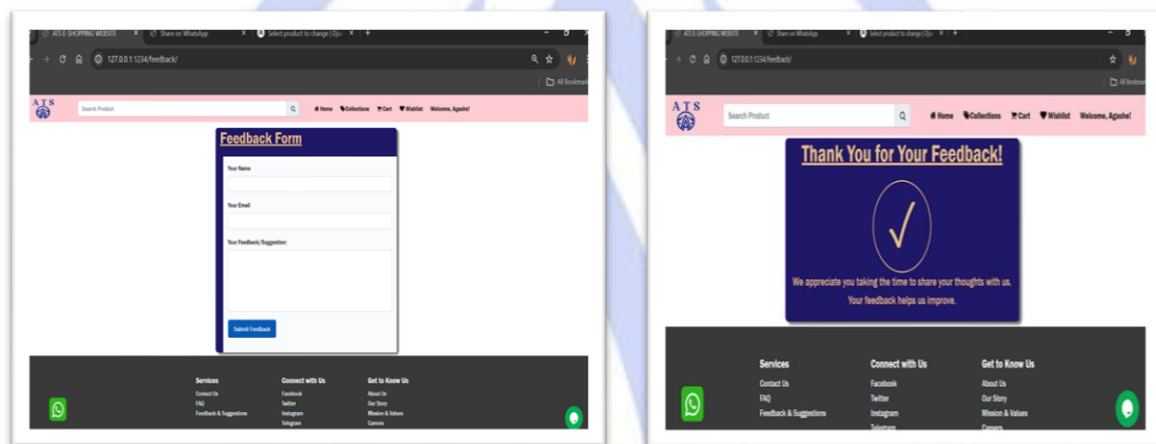
Contact Us:



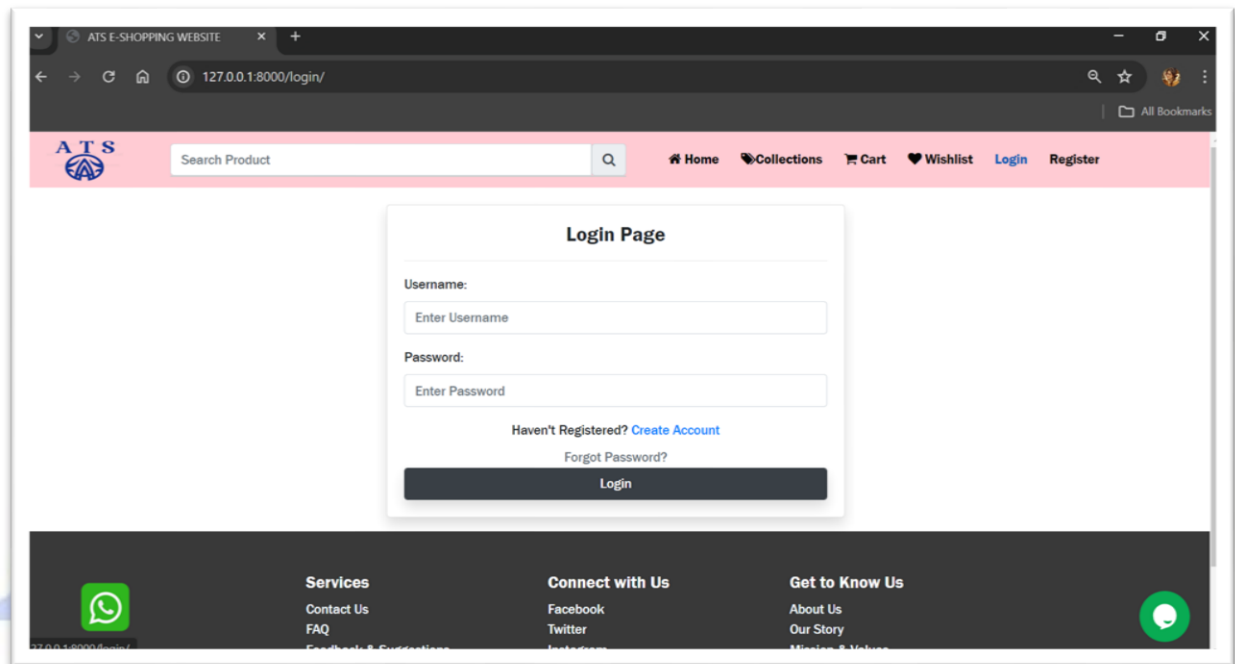
FAQ :



Feedback & Suggestions:



2. Log in

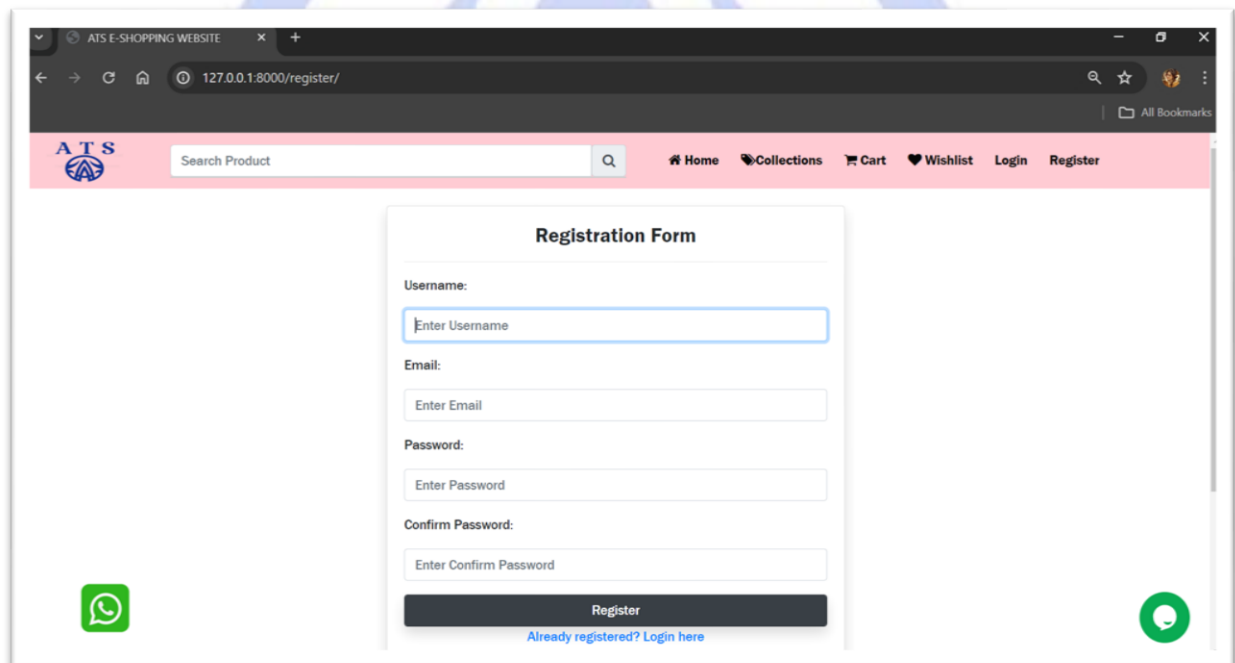


The screenshot shows the login page of the ATS E-Shopping Website. The browser address bar displays "127.0.0.1:8000/login/". The website header includes the ATS logo, a search bar, and navigation links: Home, Collections, Cart, Wishlist, Login, and Register. The main content area features a "Login Page" form with the following elements:

- Username:** A text input field with the placeholder "Enter Username".
- Password:** A text input field with the placeholder "Enter Password".
- Links:** "Haven't Registered? [Create Account](#)" and "Forgot Password?".
- Login Button:** A dark blue button labeled "Login".

The footer contains a WhatsApp icon, a "Services" section (Contact Us, FAQ, Feedback & Suggestions), a "Connect with Us" section (Facebook, Twitter, Instagram), and a "Get to Know Us" section (About Us, Our Story, Mission & Values).

3. Register

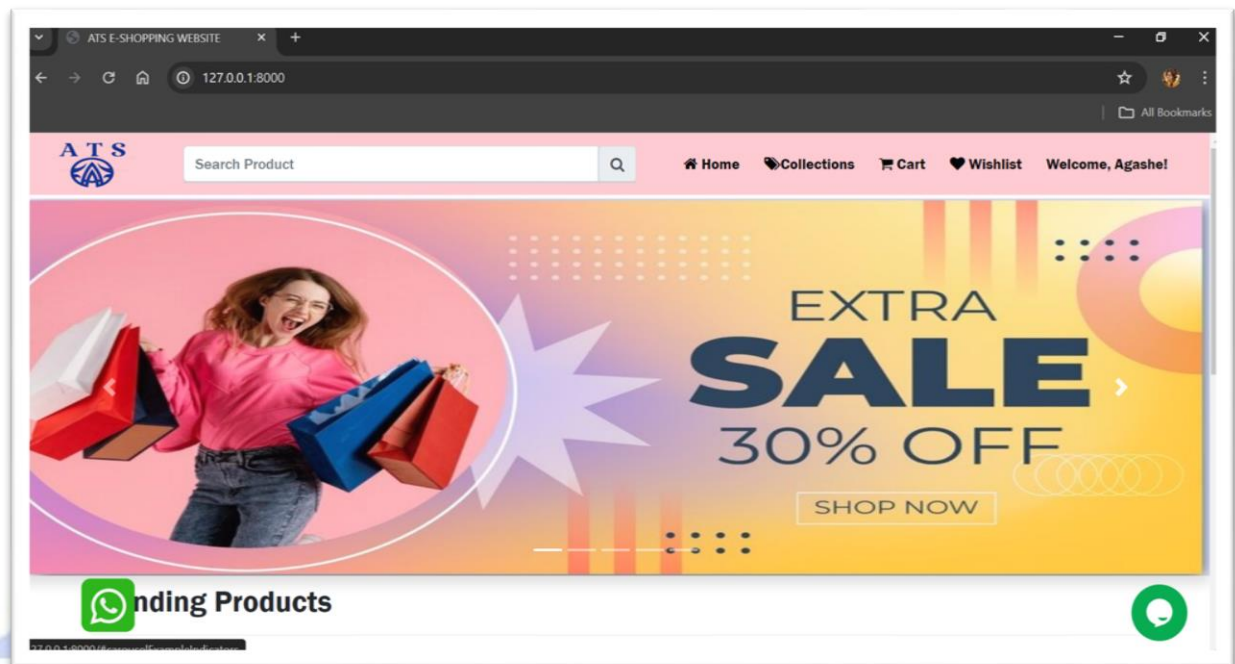


The screenshot shows the registration form of the ATS E-Shopping Website. The browser address bar displays "127.0.0.1:8000/register/". The website header is identical to the login page. The main content area features a "Registration Form" with the following elements:

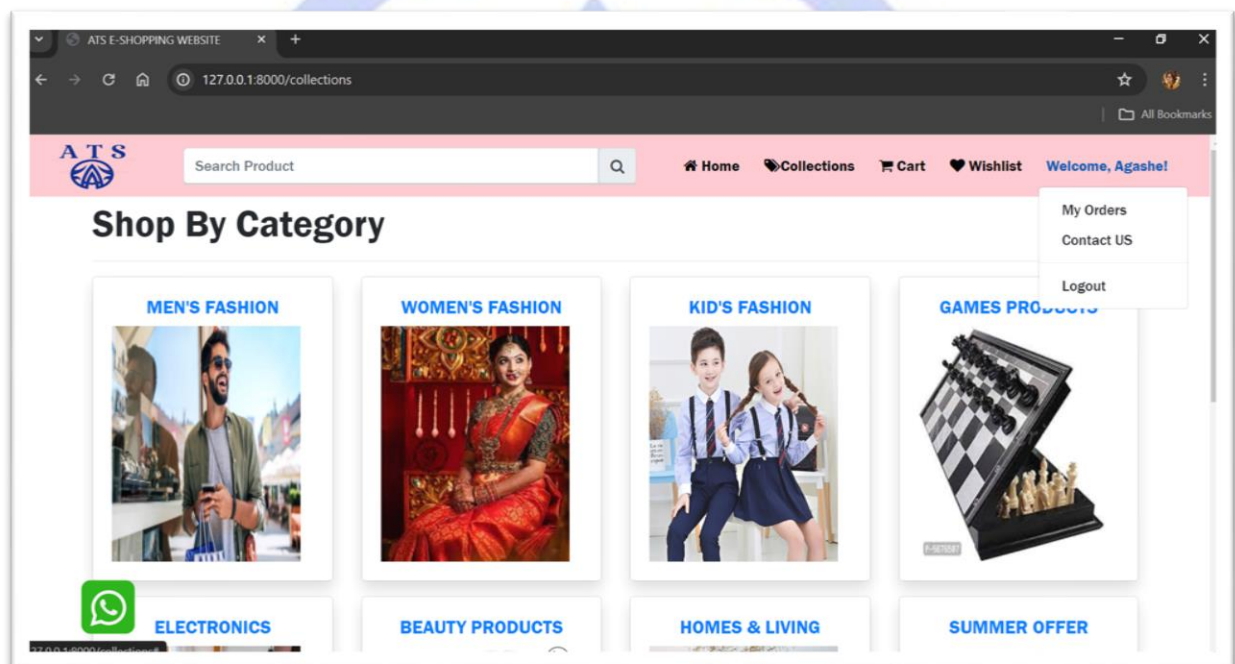
- Username:** A text input field with the placeholder "Enter Username".
- Email:** A text input field with the placeholder "Enter Email".
- Password:** A text input field with the placeholder "Enter Password".
- Confirm Password:** A text input field with the placeholder "Enter Confirm Password".
- Register Button:** A dark blue button labeled "Register".
- Link:** "Already registered? [Login here](#)".

The footer is identical to the login page.

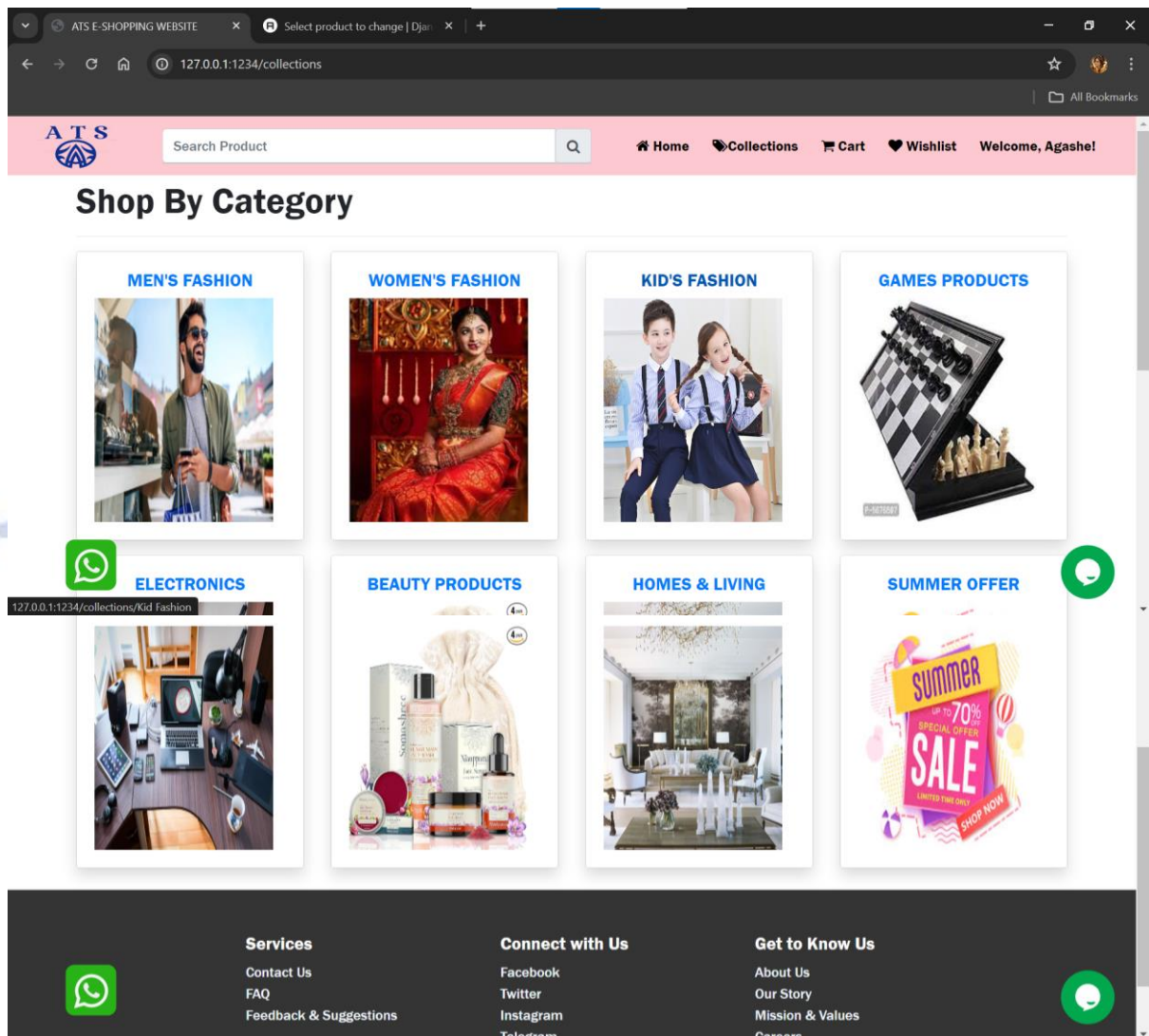
4. After Login Page



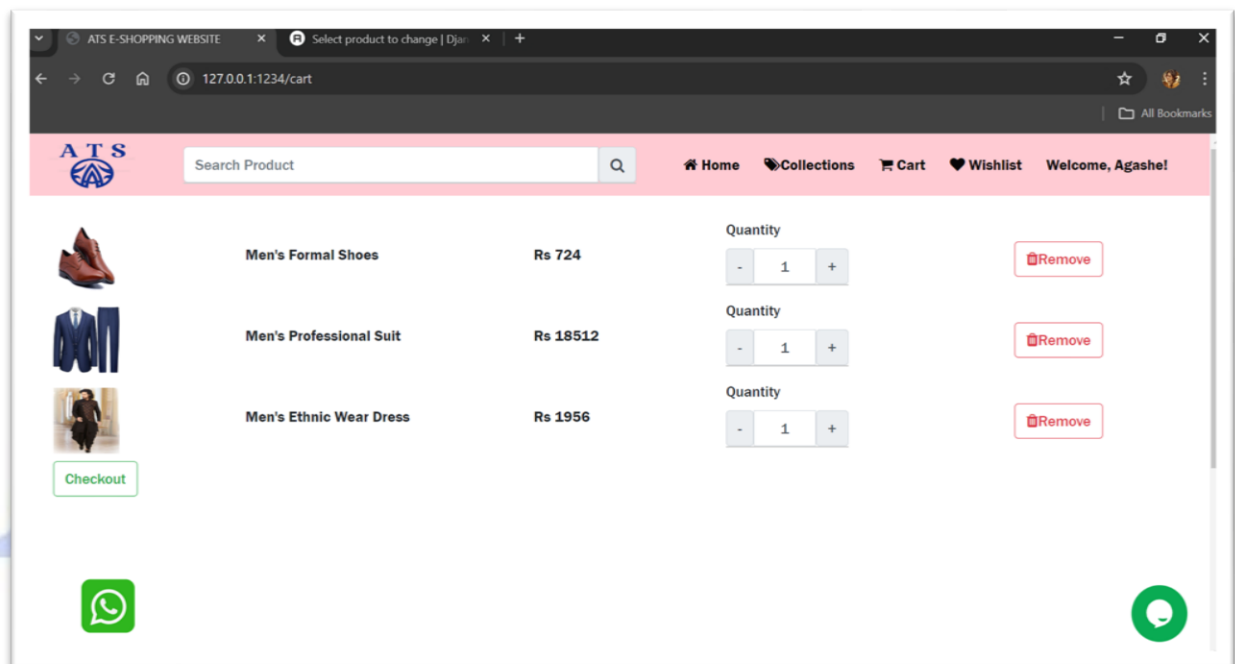
My Order, Logout :



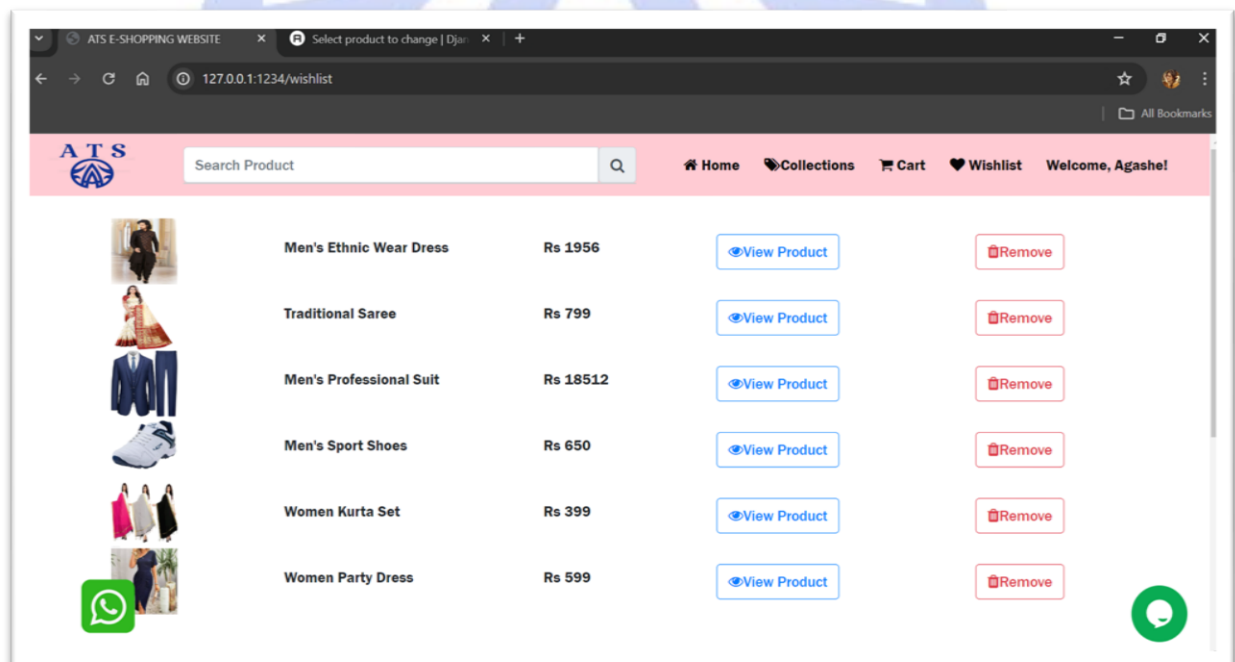
5. Collection:



6. Cart Page



7. Wish List



8. Order

ATS E-SHOPPING WEBSITE | 127.0.0.1:1234/checkout

Search Product

Home | Collections | Cart | Wishlist | Welcome, Agashet

Basic Details

First Name: Mayuri, Last Name: Agashe, Email: Enter Email, Phone: 8805211167, Address: Maharashtra, City: Mumbai, State: Maharashtra, Country: India, Pin Code: 441924

OrderSummary

Product	QTY	Price
Men's Formal Shoes	1	724
Women Kurta Set	1	399
Men's Ethnic Wear Dress	1	1956
Women Party Dress	1	599

Grand Total Rs 3678

[COD | Place Order](#) [Pay With Razorpay](#)

ATS E-SHOPPING WEBSITE | 127.0.0.1:1234/checkout

Search Product

Home | Collections | Cart | Wishlist | Welcome, Agashet

Basic Details

First Name: Vinita, Last Name: Kumari, Email: prishamishra@gmail.com, Address: Maharashtra, City: Mumbai, State: Maharashtra, Country: India, Pin Code: 442024

OrderSummary

Product	QTY	Price
Men's Ethnic Wear Dress	1	1956
Men's Formal Shoes	1	724
Women Party Dress	1	599
Women Kurta Set	1	399

Grand Total Rs 3678

[COD | Place Order](#) [Pay With Razorpay](#)

Congratulations
Your order has been placed successfully
[OK](#)

ATS E-SHOPPING WEBSITE | 127.0.0.1:1234/my-orders

Search Product

Home | Collections | Cart | Wishlist | Welcome, Agashet

My Orders

Order Date	Tracking Number	Total Price	Status	Action
May 23, 2024, 4:49 a.m.	ORD6376002	2680.00	Completed	View
May 23, 2024, 5:51 a.m.	ORD8111169	21192.00	Cancel	View
May 23, 2024, 5:54 a.m.	ORD7030885	3678.00	Out For Shipping	View

Services | Connect with Us | Get to Know Us

IX. CONCLUSION

In conclusion, ATS E-SHOPPING is a comprehensive e-commerce platform designed to provide users with a seamless shopping experience. By leveraging the Django framework along with HTML, CSS, JavaScript, Bootstrap, and other technologies, the website offers a user-friendly interface for browsing, selecting, and purchasing a wide range of products.

Throughout this documentation, we have explored the project's structure, functionality, and key components, including models, views, forms, and templates. The project follows a structured architecture, adhering to best practices in web development.

With its intuitive navigation, responsive design, and robust features such as user registration, product catalog, cart management, and order processing, ATS E-SHOPPING aims to cater to the diverse needs of online shoppers.

Moreover, the incorporation of features like OTP verification, password reset, contact forms, and feedback sections enhances the website's usability, security, and engagement, fostering trust and satisfaction among users.

As ATS E-SHOPPING continues to evolve, there are opportunities for further enhancements, such as implementing additional payment gateways, optimizing search functionality, and integrating social media features to drive user engagement and expand the customer base.

X. REFERENCES

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