

Summary

We are building a small eCommerce module. Admin can add products and it's the stock quantity from the Django admin panel, Customer can sign up, sign in, and add products to cart and buy the product, they can get order confirmation or rejection notification.

Generic IMPORTANT guidelines:

1. Do not use Django generic view sets, until it is specified in the case study.
2. Django auth module can be used.
3. For sending an email any approach is okay, it should be a live email notification feature.
4. Most important is the task queue concept when order is submitted by pressing the buy button, send that request in the queue to be processed and notify order accepted or rejected from task queue execution
5. **Use Django Admin Panel for the following cases:**
 - a. **Signing up the user**
 - b. **Adding products and it's the quantity (these products will be shown on the home screen after the sign-in)**
6. Here is the link from where you can download the template:
<https://themewagon.com/themes/free-reponsive-bootstrap-4-html5-ecommerce-website-template-karma/> please use this free template to build the application
7. When you are done with the task please send an email requesting for GitHub repository, so we will provide you repository so you can push your work there.
8. And then we can meet for a personal interview.

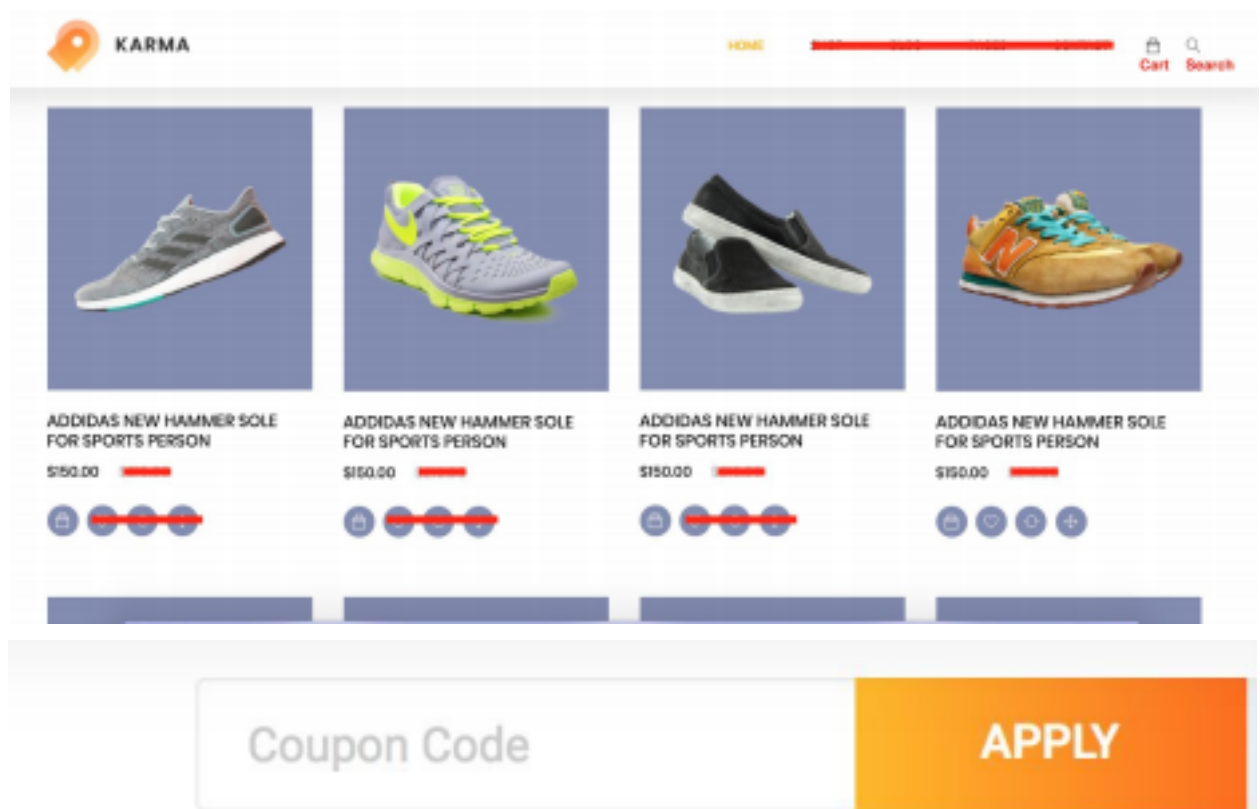
Sign In

Welcome To Landmark

Sign In

Don't have an account? [Click here to create one](#)

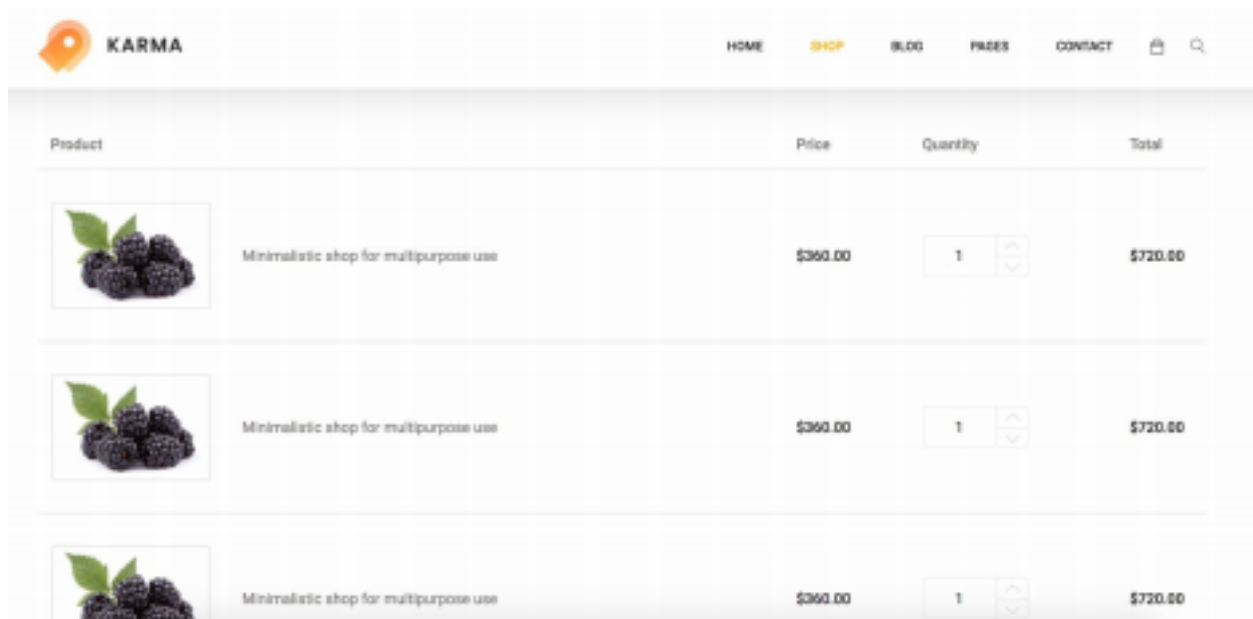
Home Screen/ Search Result






Please use the above UX for a search query text box and search button.

- List all products from product model on page load in jinja2 template
- Use a text box to submit search queries, consider “coupon code and apply” button for UX from the template, or as you prefer.
 - Filter attributes should be:
 - Name
 - Price
 - On the Press of the search, button results should be shown on the search result page.
 - On click of add to cart button, make ajax call to Django backend to add it to the cart of a specific user.

Cart Screen



Product	Price	Quantity	Total
 Minimalistic shop for multipurpose use	\$360.00	1	\$720.00
 Minimalistic shop for multipurpose use	\$360.00	1	\$720.00
 Minimalistic shop for multipurpose use	\$360.00	1	\$720.00

- List all cart items with the price
- Need grand total displayed at end of the screen with 18% tax added to the bill
- On press of the buy button at the bottom order should be sent to the “order-confirmation” (you can name queue name as your wish in code)task queue(for task queue use <http://www.celeryproject.org/>) library.
- When the tasks in the queue will be executed the ordered item will be checked whether the stock is available then send your order is approved email. If the stock is not available to send order is not an accepted email to the customer.
- If you are unable to do it with the celery task queue do the same implementation of the email notification without task queue, but if you do with task queue you will be doing better than your competitor applying for this job.

Need to implement with following ways:

1. Authentication

- Implement logged in user authentication using Token based Authentication. **2.**

Views/Queries

a. Home Page

- Display Home page using **TemplateView**
 - After login display profile icon at right corner in header bar
 - Load products using Django query (filter) (first 20 products only)
- Display default products based on max. quantity
- Display Menu same as template
 - Shop (Menu)
 - Shop By Brand (Check point #2)
- Need load products based on category selection
 - When click on product, display product detail using TemplateView
 - Show all details of the product
 - Display Similar products below of product detail in list.

b. Shop By Brand:

- When click on this meny, display all categories from database with products count
Ex. Adidas (45), Adidas is branch name and 45 is total products of adidas brand.
- Display first category products in right side list
- Need to implement this using **ListView**

c. Search Product:

- Load Search result using ListView
- Able to search any keyword whether it is a category or product name -
Need to use Django Query
(<https://docs.djangoproject.com/en/3.0/topics/db/queries/>)
- Create Url like this : "http://127.0.0.1:8000/search?q="

d. Profile:

- When Click on profile icon, show logged in user's profile detail using **TemplateView**(Only view mode, there should be one button "Edit")
- While click on "Edit" button, need to display user's basis profile forms using FormView and able to save user's profile
 - First Name
 - Last Name
 - Email (Not editable)
 - Mobile number
 - Alternate Mobile number
 - Shipping Address:
 - Address line1

- Address line2
- City
- State
- Zipcode
- Country

- Create Following Models:

1. Profile

- user_id (ForeignKey - User)
 - mobile_no
 - alternate_mobil_number
 - addresses (ManyToManyField)
- (Ref:https://docs.djangoproject.com/en/3.0/topics/db/examples/many_to_many/)

2. ShippingAddress:

- Address line1
- Address line2
- City
- State
- Zipcode
- Country

e. Add to Cart:

- Able to add product to cart from dashboard product list and also from product detail page.
- If user is logged in, able to add into cart, otherwise redirect to login page. - This need to implement through **FormView**

f. Cart/Checkout:

- This need to implement through normal View

3. Celery

- Send email to user using taskqueue for order details
- If any product is out of stock, mention in email other products is ready for dispatch