



Discipline: Backend Framework Django

E- commerce website

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Description of the project

This is a website that works as a platform where users can add products to the basket and buy later.

Functions available in website:

User:

- sign up/ sign in
- view products(books, sport items, electronics)
- view product details
- edit product details
- view products in basket

Manager:

- Sign in
- view products
- view addresses
- view files
- see users

Website has models:

- Address
- User
- FileModel
- Item(abstract)
- Electronics(Inherited from Item)
- Books(Inherited from Item)
- SportItems(Inherited from Item)
- Basket

Model Managers:

- ItemsManager
- BasketManager
- AddressManager
- CategoryManager
- UserManager

Connection between models(Foreign Key):

- Address in Item
- Image in Item
- User in Basket
- Books in Basket
- Electronics in Basket
- SportItems in Basket

Serializers:

- ❖ serializer.ModelSerializer:
 - FileSerializer
 - ElectronicsSerializer(AddressSerializer, FileSerializer)
 - SportItemsSerializer(AddressSerializer, FileSerializer)
 - BasketSerializer(UserSerializer, BooksSerializer, SportItemsSerializer, ElectronicsSerializer)
- ❖ serializer.Serializer:
 - AddressSerializer
 - BooksSerializer(AddressSerializer, FileSerializer)

➤ UserSerializer

Views:

- Function Based View(FBV):
 - electronics_list
 - book_list
- Class Based View(CBV):
 - BooksDetailView
 - ElectronicsDetailView
 - SportItemsListView
 - SportItemDetailView

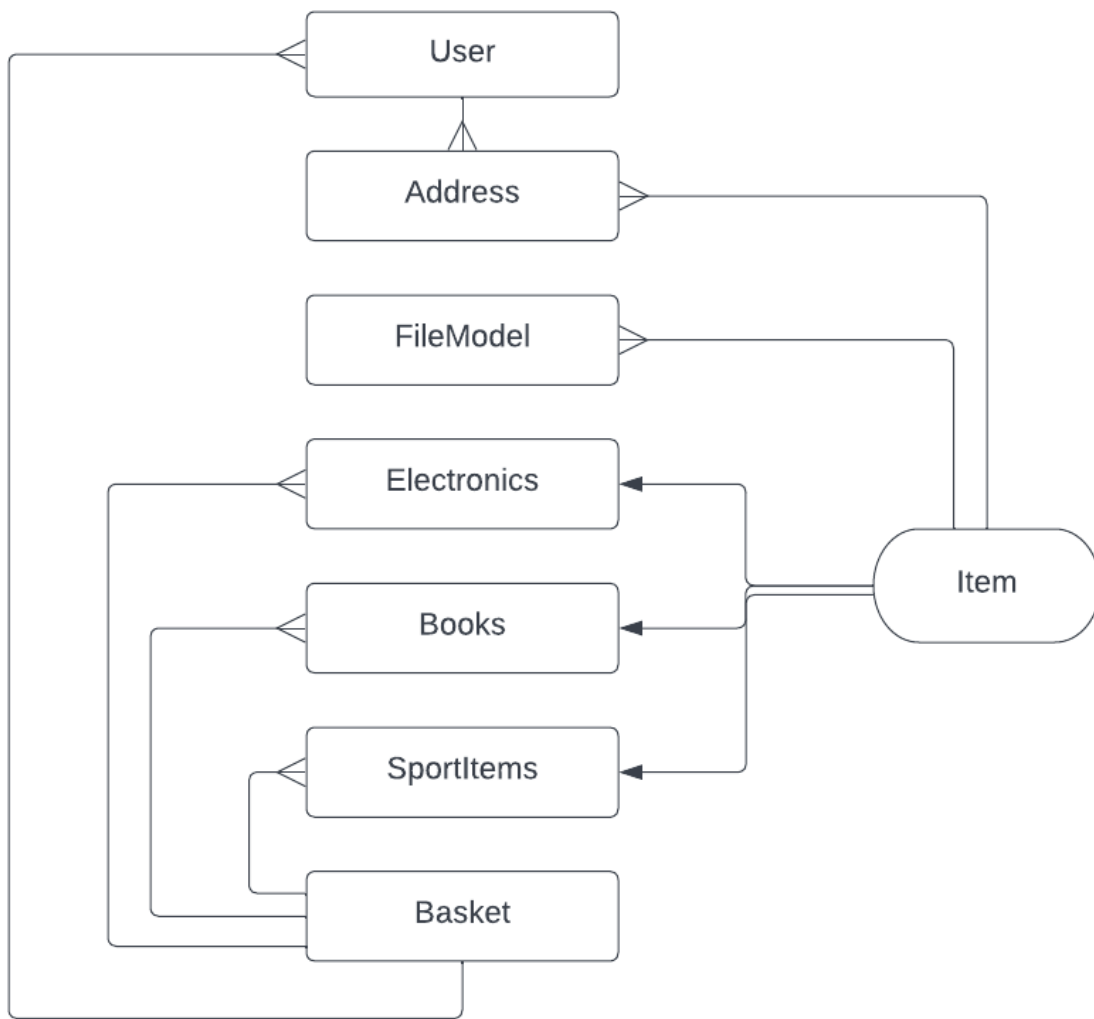
ViewSets:

- AccountViewSet
- BasketViewSet
- BasketBooksViewSet
- FileModelViewSet
- AddressViewSet
- ItemViewSet

Permission classes used:

- IsAdminUser
- IsAuthenticated
- AllowAny(default)

JWT Authentication



Class diagram with all relations between entities