

Product
<div>- name: String</div> <div>- quantity: int</div> <div>- category: Category</div> <div>- price: int</div>
<div>+ Product()</div> <div>+ Product(name: String, quantity: int, category: Category, price: int)</div> <div>+ getName(): String</div> <div>+ setName(): void</div> <div>+ getQuantity(): int</div> <div>+ setQuantity(): void</div> <div>+ getCategory(): Category</div> <div>+ setCategory(): void</div> <div>+ getPrice(): int</div> <div>+ setPrice(): void</div> <div>+ displayProduct(): void</div>

Category
<div>- name: String</div>
<div>+ Category()</div> <div>+ Category(name: String)</div> <div>+ getName(): String</div> <div>+ setName(): void</div> <div>+ displayCategory(): void</div>

Shop
<div>+ Main(args: String [ ]): static void</div>

ShopService
<div>- categories: Category [ ]</div> <div>- products: Product [ ]</div> <div>- productsArraySize: int</div> <div>- categoriesArraySize: int</div> <div>- productsCount: int</div> <div>- categoriesCount: int</div>
<div>+ ShopService(productsArraySize: int, categoriesArraySize: int)</div> <div>+ getCategories(): Category [ ]</div> <div>+ setCategories(categories: Category [ ]): void</div> <div>+ getProducts(): Product [ ]</div> <div>+ setProducts(products: Products [ ]): void</div> <div>+ addProduct(product: Product): void</div> <div>+ addCategory(category: Category): void</div> <div>+ displayAllProducts(): void</div> <div>+ displayAllCategories(): void</div> <div>+ displayProductsByCategoryName(categoryName : String) : void</div> <div>+ searchProductByName(productName: String) : void</div>