

| <i>ProductService</i>   |
|---|
| - wireMockUrl: String<br>- restTemplate: RestTemplate   |
| + ProductService(restTemplate: RestTemplate)<br>+ getAllProducts(): Product[]<br>+ getOneProduct(id: String): Product<br>+ addToCart(items: List<CartItemDTO>): List<ItemCheckoutDTO> |

| Product  |
|--|
| - id: String<br>- name: String<br>- price: int<br>- promotions: List<PromotionDTO> |
| + getters and setters for all fields   |

| PromotionDTO  |
|---|
| - id: String<br>- type: PromotionType<br>- requiredQty: int<br>- freeQty: int<br>- price: double<br>- amount: int |
| + getters and setters for all fields  |

| CartItemDTO                            |
|--|
| - productId: String<br>- quantity: int |
| + getters and setters for all fields   |

| ItemCheckoutDTO  |
|--|
| - product: Product<br>- quantity: BigDecimal<br>- itemTotal: BigDecimal<br>- savings: BigDecimal |
| + getters and setters for all fields   |

**"ProductService"** is the service class responsible for retrieving products, adding items to the shopping cart, and calculating total values with discounts.

**"Product"**, **"PromotionDTO"**, **"CartItemDTO"**, and **"ItemCheckoutDTO"** are the main domain entities.

**"PromotionType"** is an enumeration that defines the available types of promotions.