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| GroceryItem | | Category |

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| - itemID: int [PK] | | - categoryID: int [PK] |

| - itemName: String | | - categoryName: String |

| - quantity: int | | - description: String |

| - unit: String |

| - price: double |

| - isPurchased: boolean |

| - notes: String |

| - storePurchased: String |

| - receiptImageURL: String |

| - category: Category [FK]| +------------------+

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| GroceryListManager |

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| - groceryList: List<GroceryItem> |

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| + addItem(item: GroceryItem): void |

| + categorizeItem(item: GroceryItem, category: Category): void |

| + markAsPurchased(item: GroceryItem): void |

| + clearList(): void |

| ... other methods for managing the grocery list |

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