

FileOrderRepository: IOrderRepository
- _filepath: string - _filepathWithoutExtension: string - _header: string
+ <<constructor>>FileOrderRepository(filepath: string) + LoadOrders(orderDate: DateTime): List<Order> + LoadOrder(orderNumber: int, orderDate: DateTime) + AddOrder(order: Order, orderDate: DateTime): Order + EditOrder(order: Order, orderDate: DateTime) + DeleteOrder(orderNumber: int, orderDate: DateTime) - CreateFilepath(orderDate: DateTime): string - CreateCsvForOrder(order: Order): string - CreateOrderFile(orders: List<Order>)

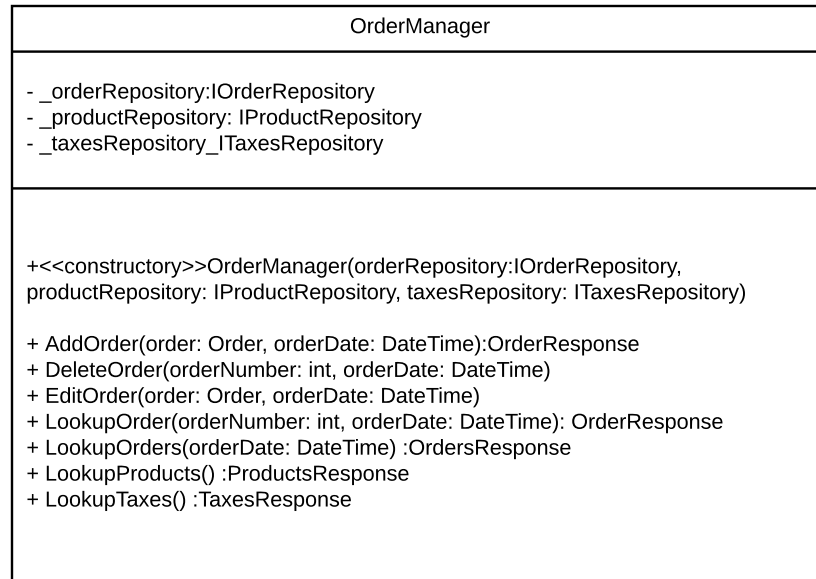
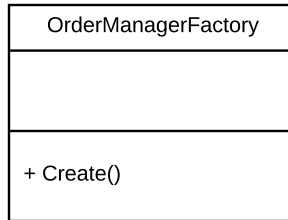
FileTaxesRepository: ITaxesRepository
- _filepath:string
+ <<constructor>>FileTaxesRepository(filepath: string) + LoadTaxes(): List<Tax> + LoadTax(stateAbbreviation: string): Tax

FileProductRepository: IProductRepository
- _filepath:string
+ <<constructor>>FileProductRepository(filepath: string) + LoadProducts(): List<Product>

OrderTestRepository: IOrderRepository
- _order: Order - _order2: Order - _orderDate: DateTime
+ LoadOrders(orderDate: DateTime): List<Order> + LoadOrder(orderNumber: int, orderDate: DateTime): Order + AddOrder(order: Order, orderDate: DateTime): Order + EditOrder(order: Order, orderDate: DateTime) + DeleteOrder(orderNumber: int, orderDate: DateTime)

TaxesTestRepository: ITaxesRepository
- _tax: string - _tax2: string - _tax3: string
+ LoadTaxes(): List<Tax> + LoadTax(stateAbbreviation: string): Tax

ProductTestRepository: IProductRepository
- _product:string - _product2: string - _product3: string
+ LoadProducts(): List<Product>



UI

Menu
+ Start()

OrderAddWorkflow
+ Execute()

OrderDeleteWorkflow
+ Execute()

OrderEditWorkflow
+ Execute()

OrderLookupWorkflow
+ Execute()

ConsoleIO
+ SeparatorBar:string + OrderDisplayFormat:string
+ DisplayOrders(orders: List<Order>) + GetOptionalStringFromUser(prompt: string, customerName: string): string + GetRequiredIntFromUser(prompt: string): int + DisplayOrder(order: Order) + DisplayProducts(products: List<Product>) + DisplayTaxRates(taxes: List<Tax>) + GetRequiredAreaFromUser(prompt: string): decimal + GetOptionalAreaFromUser(prompt: string, area: decimal): decimal + GetRequiredStringFromUser(prompt: string): string + GetRequiredDecimalFromUser(prompt: string): decimal + GetRequiredFutureDateFromUser(prompt: string): DateTime + GetRequiredDateFromUser(prompt: string): DateTime + GetYesNoAnswerFromUser(prompt: string): string + GetOptionalIntFromUser(prompt: string): int

Test

OrderFileTest
<ul style="list-style-type: none">- _filepath: string- _originalData: string- _filepathWithoutExtension: string
<ul style="list-style-type: none">+ Setup()+ CanAddOrderFileData+ CanEditOrderFileData+ CanLoadOrderFromList+ CanLoadOrdersFileData+ CanDeleteOrderFileData+ CannotLoadOrderNumberNotFound+ CannotLoadOrdersByDateNotFound

OrderTest
<ul style="list-style-type: none">+ CanAddOrderToListTest+ CanEditOrder+ CannotLoadDateNotFoundTest+ CanLoadOrderTestData+ OrderCalculationsTest

ProductFileTest
<ul style="list-style-type: none">+ CanLoadProductFileData

ProductTest
<ul style="list-style-type: none">+ CanLoadProductTestData

TaxFileTest
<ul style="list-style-type: none">+ CanLoadTaxFileData

TaxesTest
<ul style="list-style-type: none">+ CanLoadTaxTestData

Order		
Key	OrderNumber	int
	CustomerName	string
	State	string
	TaxRate	decimal
	ProductType	string
	Area	decimal
	CostPerSquareFoot	decimal
	LaborCostPerSquareFoot	decimal
	MaterialCost	decimal(Area * CostPerSquareFoot)
	LaborCost	decimal(Area * LaborCostPerSquareFoot)
	Tax	decimal(((MaterialCost + LaborCost) * (TaxRate/100)))
	Total	decimal(MaterialCost + LaborCost + Tax)
Key	OrderDate	DateTime

Product		
Key	ProductType	String
	CostPerSquareFoot	Decimal
	LaborCostPerSquareFoot	Decimal

Tax		
Key	StateAbbreviation	String
	StateName	String
	TaxRate	Decimal

Response
+ Success: bool + Message: string

OrderResponse
+ Success: bool + Message: string + order: Order

OrdersResponse
+ Success: bool + Message: string + Orders: List<Order>

ProductsResponse
+ Success: bool + Message: string + Products: List<Product>

TaxesResponse
+ Success: bool + Message: string + Taxes: List<Tax>

IOrderRepository
LoadOrders(orderDate: DateTime): List<Order> LoadOrder(orderNumber: int, orderDate: DateTime) AddOrder(order: Order, orderDate: DateTime): Order EditOrder(order: Order, orderDate: DateTime) DeleteOrder(orderNumber: int, orderDate: DateTime)

ITaxesRepository
LoadTax(stateAbbreviation: string): Tax LoadTaxes(): List<Tax>

IProductRepository
LoadProducts(orderDate: DateTime): List<Product>