

- FloorMastery.UI
 - Folder: Workflows
 - Display Order
 - Add
 - Edit
 - Remove
 - Console.IO
 - Menu.cs
 - Program.cs
- FloorMastery.Tests
 - FileRepoTests
 - Stuff to test for:
 - can access Tax file AND can format file
 - can create new order file
 - can format order file correctly
 - can add/edit/remove orders
 - can access Products file & format
- FloorMastery.Models
 - Orders
 - public class Orders
 - {
 - public int OrderNumber {get ; set; }
 - public string CustomerName {get ; set; }
 - public string State {get; set; }
 - public decimal TaxRate {get; set; }
 - public string ProductType {get; set; }
 - public decimal Area {get; set; }
 - public decimal CostPerSquareFoot {get; set;}
 - public decimal LaborCostPerSquareFoot {get; set;}
 - public decimal materialCost {get; set;}
 - public decimal laborCost {get; set;}
 - public decimal tax {get; set;}
 - Public decimal total {get; set;}
 - }
 - Tax
 - Product
 - Interfaces
 - IOrder
 - ITax
 - IProduct
- FloorMastery.Data
 - Crrud method of design
 - Create/add object of whatever type you're handling ...so in add case you're "creating" a new order.
 - Read all--> return anything im asking for

- Read One by parameter (ID, name, etc.)
 - Update/Edit --> find something already in database and update it.
 - Delete from file --> whatever is told
 - Test Mode - Fake Orders
 - Test - taxes
 - test - products
 - Production Mode
 - production - taxes
 - production - products
- FloorMastery.BLL
 - OrderManager Factory
 - public status OrderManager Create()
 - { switch(mode)
 - case "OrderTest":
 - return new OrderManager (new OrderTestRespository());
 - case "OrderProduction":
 - return new OrderManager(new OrderProductionRepo(path));
 - default:
 - throw new Exception("Mode value in app config is not valid");
 - }
 - CalculateTotals
 - MaterialCost
 - public class decimal MaterialCost(Orders Area, Orders CostPerSquareFoot){
 - MaterialCost mc = new MaterialCost;
 - mc = area * costpersquarefoot;
 - return mc;
 - }
 - LaborCost
 - public class decimal LaborCost(Orders Area, Orders LaborCostPerSquareFoot){
 - Laborcost lc = new LaborCost;
 - lc = (Area * LaborCostPerSquareFoot);
 - return lc;
 - }
 - Tax
 - public class decimal Tax(path to taxrate){
 - tax = ((MaterialCost + LaborCost)*(taxRate/100))
 - return tax
 - }
 - Total
 - public class decimal Total () {
 - Total tootal = new Total;
 - tootal = (MaterialCost + LaborCost + Tax)
 - return tootal

- }
- Responses
 - public class Response
 - { public bool Success {get; set; }
 - public string Message { get; set;}
 - }
 - DisplayOrder Response
 - public class DisplayOrder Response : Response
 - { public Order Order {get; set;} }
 - AddOrder Response
 - public class AddOrderResponse : Response
 - { public OrderDate newOrderDate { get; set; } }
 - {public string CustomerName {get; set;}}
 - {public string State {get; set;}}
 - {public enum ProductType {get; set;}}
 - {public decimal Area {get; set;}}
 - EditOrder Response
 - Remove Response
- Rules
 - Folder Add Order Rule
 - //Make sure to instantiate a response class for Add Order
 - **Side note response must represent an "order" so yo can response.CustomerName, response.OrderDate etc etc.
 - // If Order Date != Current or past date
 - the response will be false
 - response will print a message saying its not a valid order
 - //If Customer Name is blank
 - response will be false
 - response will bring a message reminding them not to leave it blank
 - //Take user input and compare against tax file
 - if state does not exist
 - response false
 - response Message "state tax information is not available"
 - //Verify Area >= 100
 - if below
 - response false
 - response Message "Area is too small please make it at least 100sq. ft"
 - Prompt Product Type
 - //Make Enum **maybe in another class** associated with materialCost, LaborCost, ProductType
 - If all is good then...

- response.OrderDate = newOrderDate
 - response.CustomerName = newCustomerName
 - etc. etc.
 - make userInput equal appropriate response attribute
- Instantiate tax, laborcost, materialCost classes with relevant userInput as parameters to produce calculations
- return AddOrder response
- Editing
 - //instantiate a response class
 - //If date = null
 - response.Success = fail
 - response.Message = order is not found
 - If OrderDate = null
 - response.Success = fail
 - response.Message = please enter a correct date
 - 4 methods of change
 - CustomerName
 - if customerName == " "
 - leave old Name
 - if customerName has an input (parameter filled)
 - change name
 - State
 - if state == " "
 - leave old state
 - if state has input
 - change state
 - ProductType
 - if blank
 - leave old product type
 - switch(Enum)
 - make new Enum the current Enum
 - Area
 - if area blank
 - leave old area
 - if area has new number that is positive and above 100
 - change area
 - Initiate new calculations with new values
 - response.bla = response.newbla
 - return edited order
- Removing
 - initiate response
 - Check for date

- if date doesn't exist
 - response.Success = fail
 - response.Message = Please enter new Date
- Check for Order Number
 - if order number doesn't exist
 - response.Success = fail
 - response.Message = Please enter a correct order number
- Check for user answer
 - if Yes
 - Loop through orders to match date and order#
 - Find order in List
 - delete order
 - if No
 - return to menu // do nothing

