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Class Diagram
* Use Crud to start building from
* Take note to toggle between training & Prod mode will be done via
the configuration file
* The configuration file will write to Orders DDMMYYY.txt
The UI should start with a menu to prompt the user for what they would
like to do:
 * <<Flooring Program>>
   * 1. Display Orders
   * 2. Add an Order
   * 3. Edit an Order
   * 4. Remove an Order
   * 5. Save Current Work
   * 6. Quit
   * *
Example:
> package name
   +class name : interface/inheritence
      + public name : return type
      - private name : return type
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* Ask Does Full Crud Apply to all of the DTO's?
> com.mr.FlooringOrder.dtos
       + Taxes
             - State : String
             - TaxRate : BigDecimal
       + Products
              - ProductType : String
             CostPerSquareFoot : Double
             - LaborCostPerSquareFoot : Double
       + Orders
              - Order # : int
              - Customer Name : String
             - State : String
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- Data/ Taxes : BigDecimal
                - Product Type : String
                - Area : Double
                Cost per Sq Foot : BigDecimal
                - Labor Cost Per Sq Foot : BigDecimal
                Material Cost: BigDecimal
                - Labor Cost : BigDecimal
                - Tax : BigDecimal
                Total : BigDecimal
>com.mr.FlooringOrder.daos
        + OrderDao
                + Create(Order order) : Order
                + ReadAll() : List <0rder>
                + Update(Int order#) : Order
                + Delete(Int order#) : Order
                + Save (Int order #): Order
         + OrderDaoFileProdImpl : OrderDao
                - orders : Map< <0rder>
                - FILENAME : String
                + OrderDaoFileImpl(String fileName)
                - save() : void throws PersistanceException
                load(): void throws PersistanceException
          + OrderDaoFileTrainingImpl : OrderDao
                - orders : Map <0rder>
                - FILENAME : String
                + OrderDaoFileImpl(String fileName)
                load(): void throws PersistanceException
         + StateTaxDao
                + ReadAll(): HashMap <StateTax> StateTax
                + Read(): StateTax
         + ProductDao
            + ReadAll(): List <ProductDao>
```

>com.mr.FlooringOrders.Service

+FlooringOrderService Exception e : Exception

DuplicateOrderException : Exception InvalidOrderException : Exception OrderNotFoundException : Exception PersistanceException : Exception

+ DisplayAllOrders : Map <Order> throws Exception e

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+ AddOrder(Order order): Order throws
DuplicateOrderException , InvalidOrderException
                 + EditOrder(Order order) : Order throws
InvalidOrderException
                 + RemoveOrder(Order order) : Order throws
InvalidOrderException, OrderNotFoundException
                 + SaveOrder(Order order) : Order throws
PersistanceException
                 + getCustomerName(String) : Order // ??? Do we make 4
seperate methods for the view to be checked in the service Layer
        + FlooringOrderServiceImpl : FlooringOrderService

    FlooringOrderDao : FlooringOrderDao

                 StateTaxDao : StateTaxDao
                 ProductDao : ProductDao
                 + FlooringOrderServiceImpl(OrderDao orderDao,
ProductDao productDao)
> com.mr.FlooringOrders.ui
  +FlooringOrders.view
        + getMenuSelection(): int
        + addOrderNumber() : int
        + getCustomersName() : String
        + getState() : String
        + getArea() : double
        + getProductType() : String
        + getStateTaxRate() : BigDecimal
        + displayAllOrders(List<Order> orders) : void
> com.mr.FlooringOrders.controller
    + FlooringOrdersController
        - service : FlooringOrdersService
        - view : FlooringOrdersView
        + FlooringOrdersController(FlooringOrdersService service,
FlooringOrdersView view)
        + run() : void
        - addOrder() : void
        - editOrder() : void
        - removeOrder() : void
        - saveUser() : void
        - viewAllOrders() : void
```