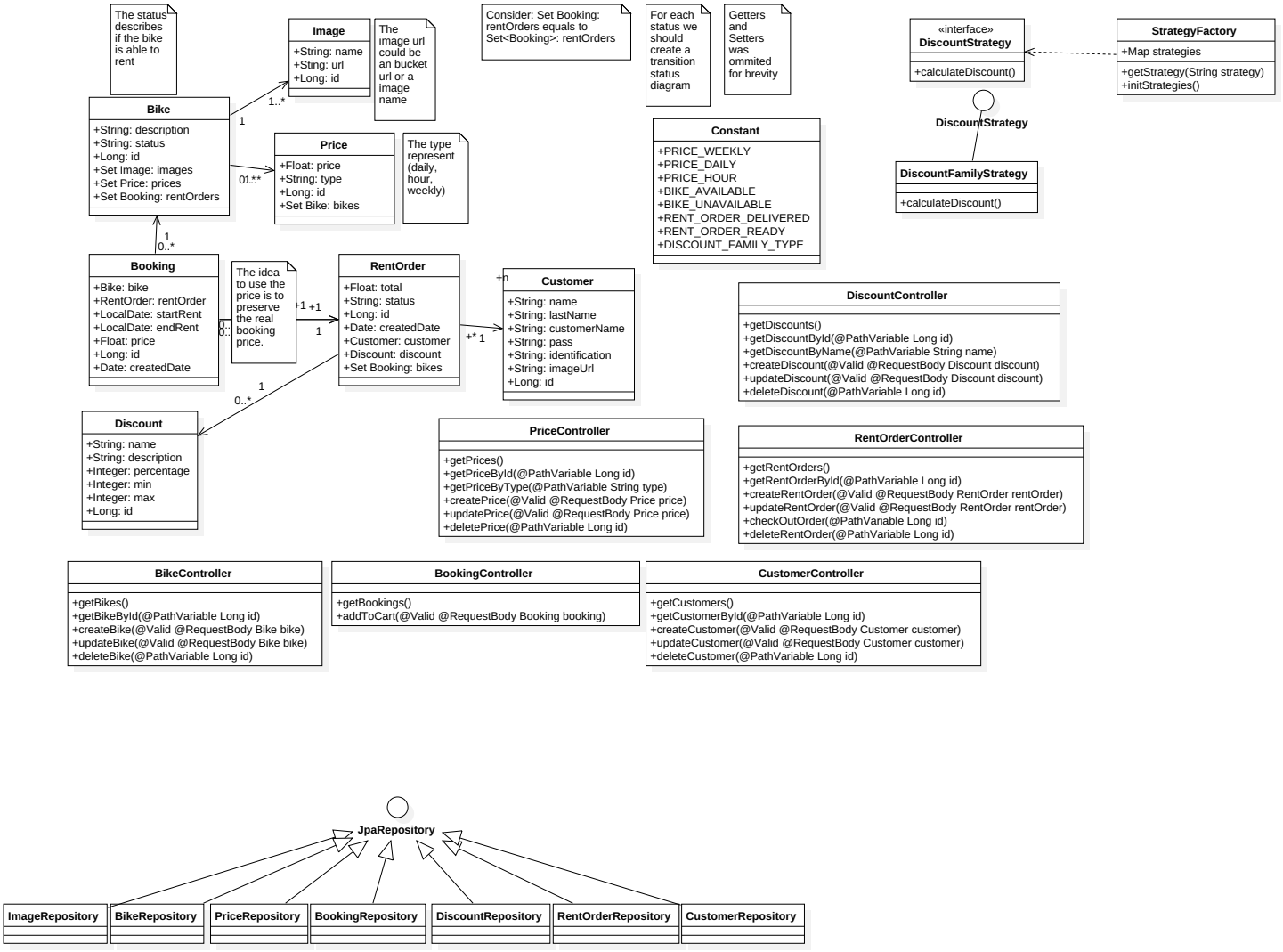
Model::Main


The status describes if the bike is able to rent
Image
+String: name
+Sting: url
+Long: id
The image url could be an bucket url or a image name
Consider: Set Booking: rentOrders equals to Set<Booking>: rentOrders
For each status we should create a transition status diagram
Getters and Setters was ommited for brevity
«interface»
DiscountStrategy
+calculateDiscount()
StrategyFactory
+Map strategies
+getStrategy(String strategy)
+initStrategies()
DiscountStrategy
DiscountFamilyStrategy
+calculateDiscount()
Bike
+String: description
+String: status
+Long: id
+Set Image: images
+Set Price: prices
+Set Booking: rentOrders
1..*
1
Price
+Float: price
+String: type
+Long: id
+Set Bike: bikes
The type represent (daily, hour, weekly)
01..*
Constant
+PRICE_WEEKLY
+PRICE_DAILY
+PRICE_HOUR
+BIKE_AVAILABLE
+BIKE_UNAVAILABLE
+RENT_ORDER_DELIVERED
+RENT_ORDER_READY
+DISCOUNT_FAMILY_TYPE
1
0..*
Booking
+Bike: bike
+RentOrder: rentOrder
+LocalDate: startRent
+LocalDate: endRent
+Float: price
+Long: id
+Date: createdDate
The idea to use the price is to preserve the real booking price.
+1 +1
1
RentOrder
+Float: total
+String: status
+Long: id
+Date: createdDate
+Customer: customer
+Discount: discount
+Set Booking: bikes
+n
+* 1
Customer
+String: name
+String: lastName
+String: customerName
+String: pass
+String: identification
+String: imageUrl
+Long: id
DiscountController
+getDiscounts()
+getDiscountById(@PathVariable Long id)
+getDiscountByName(@PathVariable String name)
+createDiscount(@Valid @RequestBody Discount discount)
+updateDiscount(@Valid @RequestBody Discount discount)
+deleteDiscount(@PathVariable Long id)
1
0..*
Discount
+String: name
+String: description
+Integer: percentage
+Integer: min
+Integer: max
+Long: id
PriceController
+getPrices()
+getPriceById(@PathVariable Long id)
+getPriceByType(@PathVariable String type)
+createPrice(@Valid @RequestBody Price price)
+updatePrice(@Valid @RequestBody Price price)
+deletePrice(@PathVariable Long id)
RentOrderController
+getRentOrders()
+getRentOrderById(@PathVariable Long id)
+createRentOrder(@Valid @RequestBody RentOrder rentOrder)
+updateRentOrder(@Valid @RequestBody RentOrder rentOrder)
+checkOutOrder(@PathVariable Long id)
+deleteRentOrder(@PathVariable Long id)
BikeController
+getBikes()
+getBikeById(@PathVariable Long id)
+createBike(@Valid @RequestBody Bike bike)
+updateBike(@Valid @RequestBody Bike bike)
+deleteBike(@PathVariable Long id)
BookingController
+getBookings()
+addToCart(@Valid @RequestBody Booking booking)
CustomerController
+getCustomers()
+getCustomerById(@PathVariable Long id)
+createCustomer(@Valid @RequestBody Customer customer)
+updateCustomer(@Valid @RequestBody Customer customer)
+deleteCustomer(@PathVariable Long id)

JpaRepository
ImageRepository
BikeRepository
PriceRepository
BookingRepository
DiscountRepository
RentOrderRepository
CustomerRepository