SWE 3313

Technical Design

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INTERNSHIPPLS 0

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JSON Example for Customer Data

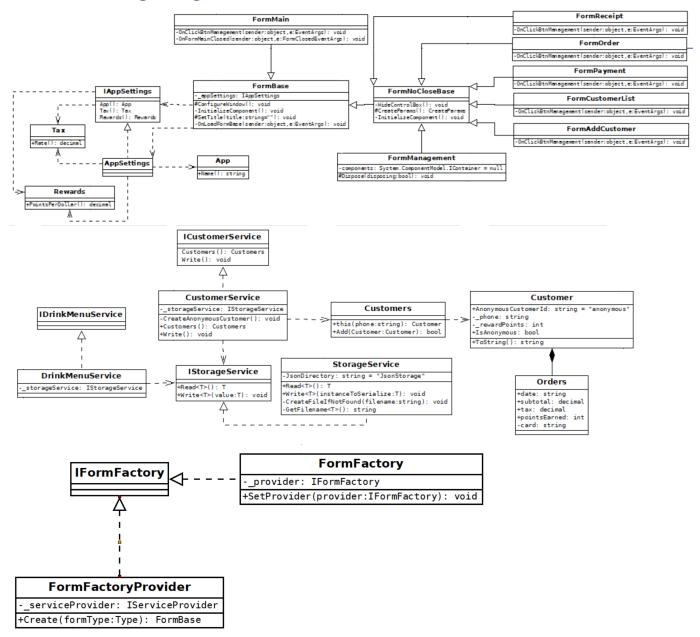
TITLE	PATH	DATA TYPE	DESC.
CUSTOMERS	Customers[]	List <customer></customer>	List of all Customers
FIRSTNAME	Customers[].FirstName	String	First Name of a Customer
LASTNAME	Customers[].LastName	String	Last Name of a Customer
PHONE	Customers[].Phone	String	Phone Number of Customer
REWARDPOINTS	Customers[].RewardPoints	Decimal	Total Reward points a customer has
ORDERS	Customers[].Orders[]	List <order></order>	List of Orders made by a given
			customer
DATE	Customers[].Orders[].Date	DateTime	The date of a given order
SUBTOTAL	Customers[].Orders[].Subtotal	Decimal	The subtotal of the order
TAX	Customers[].Orders[].Tax	Decimal	Added cost due to tax
TOTAL	Customers[].Orders[].Total	Decimal	Subtotal + Tax
POINTSEARNED	Customers[].Orders[].PointsEarned	Decimal	Points earned for the order,
			Total*10
CARD	Customers[].Orders[].Card	String	Credit/Debit card number used in order
DRINKS	Customers[].Orders[].Drinks[]	List <drink></drink>	List of drinks in the order
NAME	Customers[].Orders[].Drinks[].Name	String	Name of drink
BASEPRICE	Customers[].Orders[].Drinks[].BasePrice	Decimal	Price of drink
TOTALPRICE	Customers[].Orders[].Drinks[].TotalPrice	Decimal	Price of drink + Customization cost
CUSTOMIZATIONS	Customers[].Orders[].Drinks[].Customizations	String	Concatenated string of all customizations on a given drink

JSON Code Example

```
"Phone": "123-456-7890",
 "RewardPoints": 95,
  "0rders": []
"customer 2": {
  "Phone": "098-765-4321",
  "RewardPoints": 10000,
  "Orders": [
      "Date": "2022-08-09",
      "Subtotal": 11,
      "Tax": 0.66,
      "Total": 11.66,
      "Points Earned": 116,
      "Card": "1057",
      "Drinks": [
          "Name": "Latte",
          "BasePrice": 4,
         "TotalPrice": 5,
         "Customizations": "Lots of Foam: $0.00, Large: $1.00, Whole Milk: $0.00"
          "Name": "Latte",
          "BasePrice": 4,
          "TotalPrice": 6,
         "Customizations": "Lots of Foam: $0.00, Mega: $2.00, Decaffeinated: $0.00"
  "Phone": "098-765-4321",
  "RewardPoints": 10000,
  "Orders": [
      "Date": "2022-04-01",
      "Subtotal": 13.25,
      "Tax": 0.78,
      "Total": 14.03,
      "Points Earned": 140,
      "Card": "1955",
     "Drinks": [
```

```
"BasePrice": 5.25,
      "TotalPrice": 7.75,
      "Customizations": "Large:$1.00, Almond Milk:$1.50, Decaffeinated:$0.00"
      "BasePrice": 4,
      "TotalPrice": 5.5,
      "Customizations": "OatMilk:$1.50, Extra Ice:$0.00"
},
 "Date": "2022-08-24",
  "Subtotal": 6.75,
  "Tax": 0.40,
  "Total": 7.15,
  "Card": "6033",
      "BasePrice": 2.5,
      "TotalPrice": 3.75,
     "Customizations": "1 Extra Shot:$1.25"
      "Name": "Latte",
      "BasePrice": 4,
      "TotalPrice": 3,
      "Customizations": "Small:$-1.00, Less Hot:$0.00"
```

UML Class Design Diagram



Crows Foot ERD Data Model Diagram

