



CAFÉ 404

TECHNICAL DESIGN

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JSON Example for Customer Data

Example Customer JSON File

```
{
  "Customers": {
    "anonymous": {
      "FirstName": "anonymous",
      "LastName": "anonymous",
      "Phone": "anonymous",
      "RewardPoints": 0
    },
    "404-444-5555": {
      "FirstName": "Mason",
      "LastName": "Sherrill",
      "Phone": "404-444-5555",
      "RewardPoints": 0,
      "OrderHistory": []
    },
    "423-908-2987": {
      "FirstName": "Aly",
      "LastName": "Hussein",
      "Phone": "423-908-2987",
      "RewardPoints": 70,
      "OrderHistory": [
        {
          "CustomerID": "423-908-2987",
          "DateTime": "12/4/2015 12:27:15",
          "Tax": 0.45,
          "Subtotal": 7.50,
          "Total": 7.95,
          "PaymentMethod": "Credit Card",
          "Drinks": [
            {
              "Name": "Latte",
              "Customizations": "Foam B | Lots of Foam,Creamer D | Almond Milk,Sweetener C | 1 Sweet'N Low",
              "Total": 5.50
            }
          ]
        }
      ]
    }
  }
}
```

```
    },
    {
      "Name": "Coffee",
      "Customizations": "Size A | Small,Creamer B | Non-Fat Milk,Sweetener
A | 1 Sugar",
      "Total": 2.00
    }
  ]
}
],
},
"564-825-8268": {
  "FirstName": "Joel",
  "LastName": "Juarez",
  "Phone": "564-825-8268",
  "RewardPoints": 140,
  "OrderHistory": [
    {
      "CustomerID": "564-825-8268",
      "DateTime": "12/24/2022 16:31:43",
      "Tax": 0.45,
      "Subtotal": 7.50,
      "Total": 7.95,
      "PaymentMethod": "Reward Points",
      "Drinks": [
        {
          "Name": "Latte",
          "Customizations": "Foam B | Lots of Foam,Creamer D | Almond
Milk,Sweetener C | 1 Sweet'N Low",
          "Total": 5.50
        },
        {
          "Name": "Coffee",
          "Customizations": "Size A | Small,Creamer B | Non-Fat Milk,Sweetener
A | 1 Sugar",
          "Total": 2.00
        }
      ]
    },
    {
      "Name": "Coffee",
      "Customizations": "Size A | Small,Creamer B | Non-Fat Milk,Sweetener
A | 1 Sugar",
      "Total": 2.00
    }
  ]
},
```

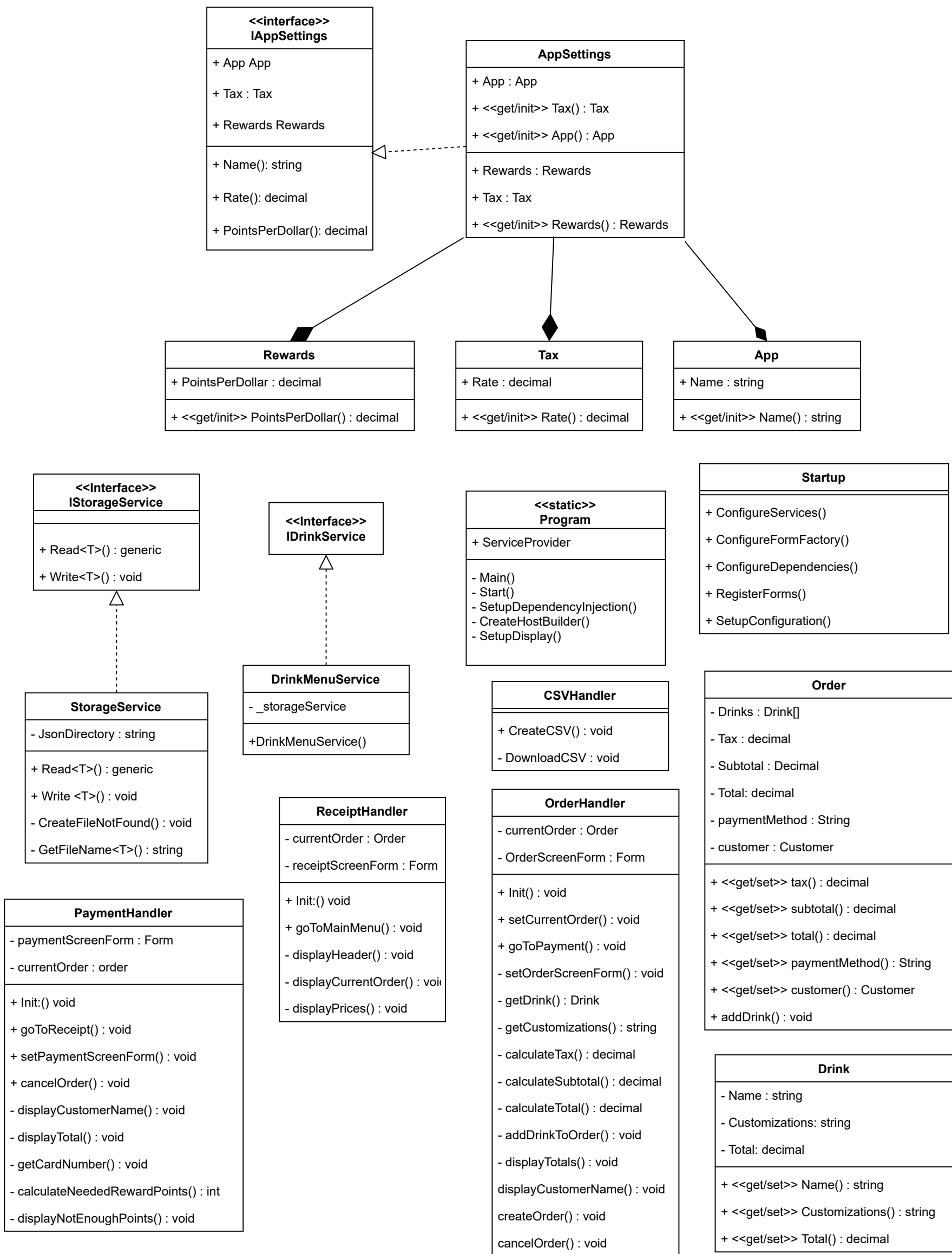
```
{
  "CustomerID": "564-825-8268",
  "DateTime": "12/27/2022 07:12:34",
  "Tax": 0.45,
  "Subtotal": 7.50,
  "Total": 7.95,
  "PaymentMethod": "Credit Card",
  "Drinks": [
    {
      "Name": "Latte",
      "Customizations": "Foam B | Lots of Foam,Creamer D | Almond
Milk,Sweetener C | 1 Sweet'N Low",
      "Total": 5.50
    },
    {
      "Name": "Coffee",
      "Customizations": "Size A | Small,Creamer B | Non-Fat Milk,Sweetener
A | 1 Sugar",
      "Total": 2.00
    }
  ]
}
```

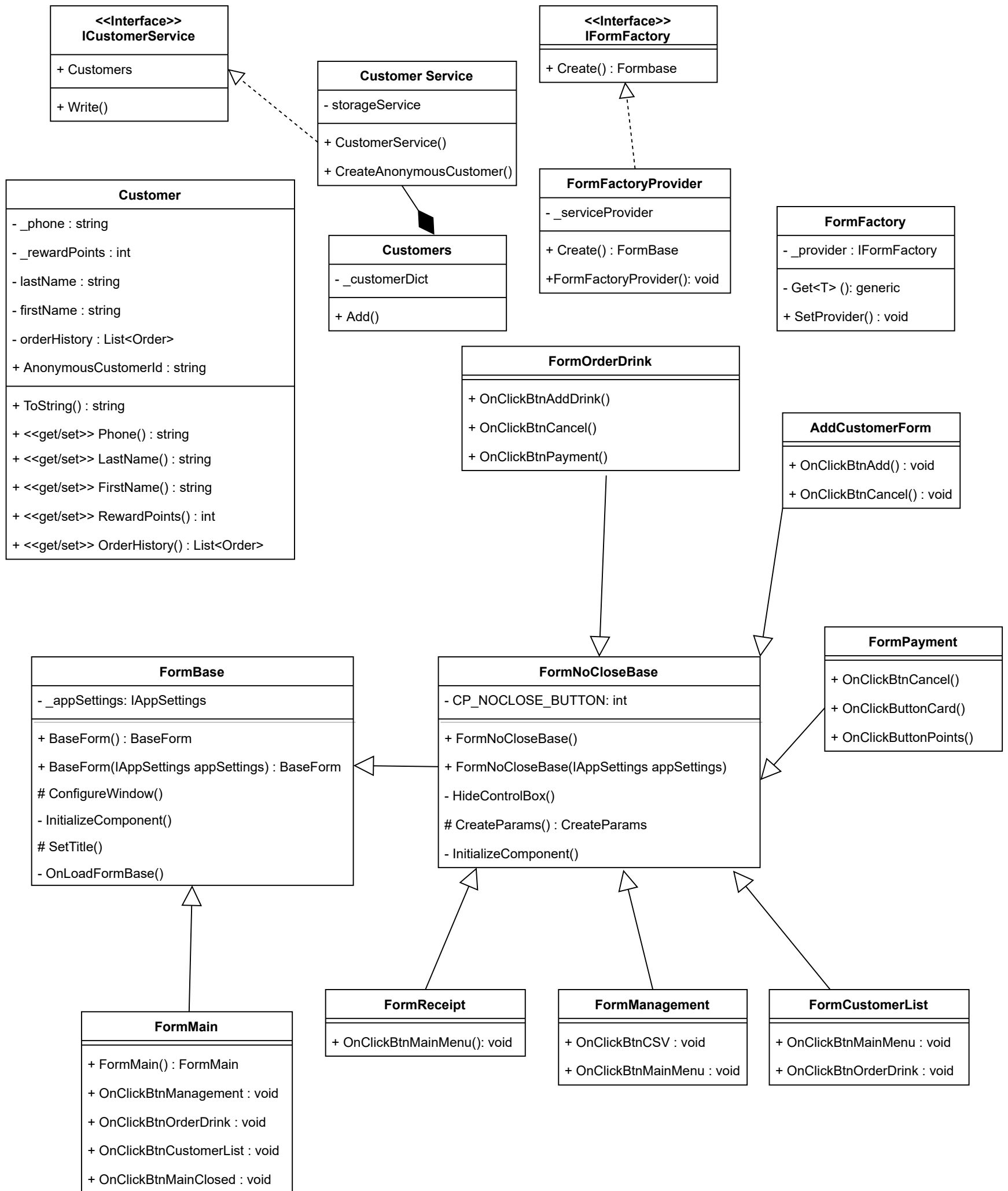
Customer JSON File Data Description

Field	Description	Path	C# Data Type
Customer	An array of all the customers.	Customer	List<Customer>
<i>LastName</i>	Contains the last name of the customer, used as one of the primary identifiers.	Customer.[key].LastName	String
<i>FirstName</i>	Contains the first name of the customer, used for identification.	Customer.[key].FirstName	String
<i>PhoneNumber</i>	Contains a unique phone number that is used as a primary identifier for each customer.	Customer.[key].Phone	String
Order History	An array that keeps track of a customer's order.	Customer.[key].OrderHistory[]	List<Order>
<i>CustomerID</i>	Keep track of which customer placed the order.	Customer.[key].OrderHistory[index].CustomerID	String
<i>Date</i>	Tracks when an order was placed.	Customer.[key].OrderHistory[index].Date	C# DateTime
<i>Tax</i>	Calculates the tax to be placed on each product.	Customer.[key].OrderHistory[index].Tax	Decimal
<i>Subtotal</i>	Calculates the total of all the drinks in an order before tax is added.	Customer.[key].OrderHistory[index].Subtotal	Decimal
<i>Total</i>	Calculates to total after tax and subtotal are added together.	Customer.[key].OrderHistory[index].Total	Decimal
<i>PaymentMethod</i>	Contains the payment method that was used in the purchase of the order. Can be "Credit Card" or "Reward Points."	Customer.[key].OrderHistory[index].PaymentMethod	String
Drinks	Drinks which the customers ordered.	Customer.[key].OrderHistory[index].Drink[index2]	List<Drink>
<i>Name</i>	The name of the drink that was ordered.	Customer.[key].OrderHistory[index].Drinks[index2].Name	String
<i>Customizations</i>	Any additional customizations added to the drink	Customer.[key].OrderHistory[index].Drink[index2].Customizations	String
<i>Total</i>	The total of everything that was in the order, from drinks to each customization	Customer.[key].OrderHistory[index].Drink[index2].Total	Decimal

* The [key] used in this diagram would be the customer's phone number

UML Class Design Diagram





Crows Foot ERD Data Model Diagram

