

Technical Design  
Coffee & Code  
Group 6

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## Section 1: Customer JSON Example:

### 1A) Example Customer JSON File

*In Repo: Source/CoffeePointOfSale/JsonStorage/Customers.json*

```
{
  "Orders": [
    {
      "OrderID": "2d97cc34-e064-4521-941c-aaa994118d82",
      "CustomerID": "678-101-1234",
      "DateTime": "2022-10-1 11:11:11",
      "Total": 11.40,
      "Tax": 0.65,
      "Subtotal": 10.75,
      "PointsEarned": 114,
      "PaymentMethod": "Credit",
      "Drinks": [
        {
          "Name": "Iced Matcha Latte",
          "BasePrice": 4,
          "Customizations": [
            {
              "Name": "Extra Ice",
              "Price": 0.00
            },
            {
              "Name": "Extra Matcha",
              "Price": 0.50
            }
          ]
        }
      ]
    },
    {
      "Name": "Coffee",
      "BasePrice": 4,
    }
  ]
}
```

```

        "Customizations": [
            {
                "Name": "Size Small",
                "Price": 0.00
            },
            {
                "Name": "Extra Espresso Shot",
                "Price": 1.25
            }
        ]
    }
}
],
{
    "OrderID": "b55e1067-69d1-4315-ad85-b8f0e6fde58f",
    "CustomerID": "123-456-7890",
    "DateTime": "2022-10-1 9:10:54",
    "Total": 13.25,
    "Tax": 0.75,
    "Subtotal": 12.50,
    "PointsEarned": 0,
    "PaymentMethod": "Rewards",
    "Drinks": [
        {
            "Drink": "Latte",
            "BasePrice": 4,
            "Customizations": [
                {
                    "Name": "Size Large",
                    "Price": 1.00
                },
                {
                    "Name": "Lots of Foam",
                    "Price": 0.00
                }
            ]
        },
        {
            "Drink": "Coffee",
            "BasePrice": 4,
            "Customizations": [

```

```

        "Name": "Size Medium",
        "Price": 2.00
    },
    {
        "Name": "Soy Milk Creamer",
        "Price": 1.50
    }
]
}
]
},
{
    "OrderID": "6dfe31a8-e5af-4a59-a9e7-f5d929bfff263",
    "CustomerID": "123-456-7890",
    "DateTime": "2022-10-2 9:09:02",
    "Total": 13.25,
    "Tax": 0.75,
    "Subtotal": 12.50,
    "PointsEarned": 132,
    "PaymentMethod": "Credit",
    "Drinks": [
        {
            "Drink": "Coffee",
            "BasePrice": 4,
            "Customizations": [
                {
                    "Name": "Size Large",
                    "Price": 1.00
                },
                {
                    "Name": "Lots of Foam",
                    "Price": 0.00
                }
            ]
        },
        {
            "Drink": "Coffee",
            "BasePrice": 4,
            "Customizations": [
                {
                    "Name": "Size Medium",
                    "Price": 2.00
                }
            ]
        }
    ]
}
]
}

```

```

        },
        {
            "Name": "Almond Milk Creamer",
            "Price": 1.50
        }
    ]
}
],
"Customers": {
    "anonymous": {
        "Phone": "anonymous",
        "RewardPoints": 0,
        "FirstName": "Anonymous",
        "LastName": "Anonymous"
    },
    "404-444-5555": {
        "Phone": "404-444-5555",
        "RewardPoints": 0,
        "FirstName": "John",
        "LastName": "Johnson"
    },
    "678-101-1234": {
        "Phone": "678-101-1234",
        "RewardPoints": 114,
        "FirstName": "Steve",
        "LastName": "Smith"
    },
    "123-456-7890": {
        "Phone": "123-456-7890",
        "RewardPoints": 999,
        "FirstName": "Joe",
        "LastName": "Joseph"
    }
}
}

```

## 1B) Customer JSON File Date Description

Path	Data Type	Description
Customers.[key].Phone	String	Contains the phone number for the customer. Unless it is the anonymous customer, this is formatted as a valid 10 digit phone number with dashes (no country code). The anonymous customer's phone number is just "anonymous".
Customers.[key].RewardPoints	Integer	Contains the amount of reward points that a customer has
Customers.[key].FirstName	String	Contains the first name of the customer
Customers.[key].LastName	String	Contains the last name of the customer
Orders[index].OrderID	String	Contains the GUID for an order
Orders[index].CustomerID	String	Contains a phone number that corresponds to a customer
Orders[index].DateTime	String	Contains the time that the order was placed in the DateTime structure
Orders[index].Total	Decimal	Contains the total price for the order with tax
Orders[index].Tax	Decimal	Contains the tax amount for the order
Orders[index].Subtotal	Decimal	Contains the subtotal for the order
Orders[index].PointsEarned	Integer	Contains the amount of points that a customer earned from the order
Orders[index].PaymentMethod	String	Contains which method of payment the

		customer used to purchase their order, either credit or rewards
Orders[index].Drinks[index].Drink	String	Contains the name of the drink
Orders[index].Drinks[index].BasePrice	Integer	Contains the base price for the drink
Orders[index].Drinks[index].Customizations[index].Name	String	Contains the name of a customization
Orders[index].Drinks[index].Customizations[index].Price	Decimal	Contains the price of a customization



## Section 2: UML Diagrams

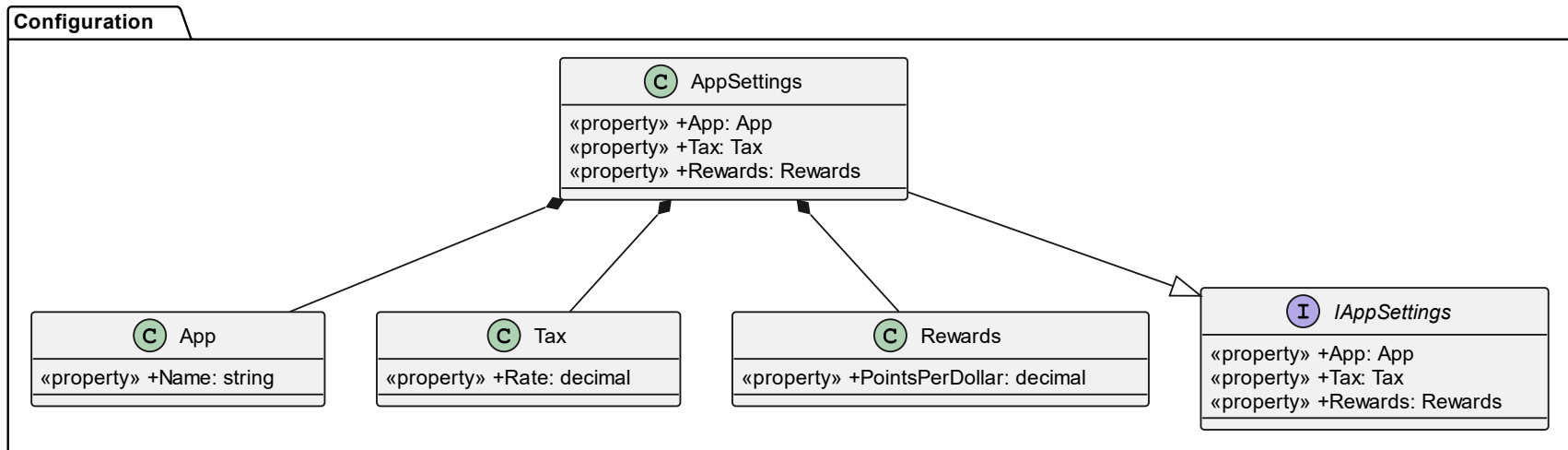
### Services Diagram

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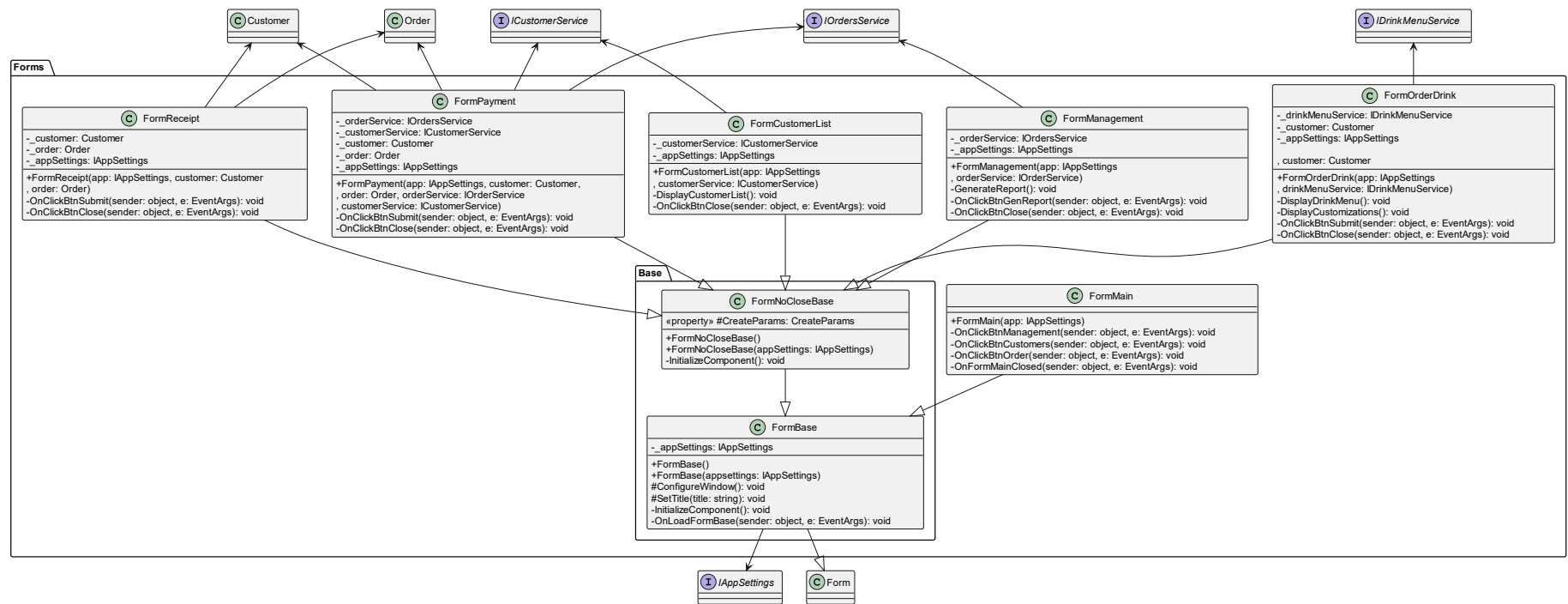
## Configuration Diagram

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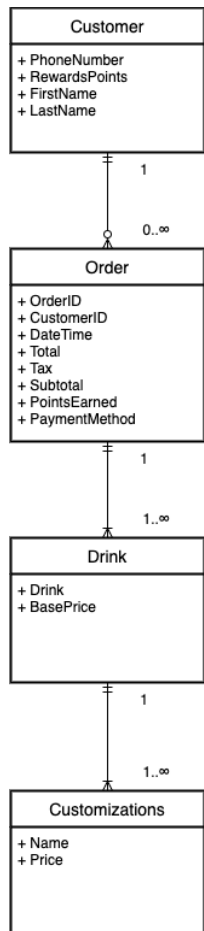
# Forms Diagram

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## Section 3: ER Diagrams

### Customer Data Model



## Menu Data Model

