

TECHNICAL DESIGN

TEAM ESPRESSO DELIVERY

(DION GREEN, TREVOR GREEN, DOVE RAY, ADELE ROUSSEAU)

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SWE 3133, GROUP BBB

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|| JSON EXAMPLE FOR CUSTOMER DATA

1) Example Customer JSON File

```
{  
  "Customers": {  
    "Anonymous": {  
      "FirstName": "Anonymous",  
      "LastName": "Anonymous",  
      "Phone": "Anonymous",  
      "RewardPointsBalance": 0,  
      "Orders": []  
    },  
    "678-884-4302": {  
      "FirstName": "Charles",  
      "LastName": "Winter",  
      "Phone": "678-884-4302",  
      "RewardPointsBalance": 0,  
      "Orders": []  
    },  
    "770-893-5004": {  
      "FirstName": "Jack",  
      "LastName": "Stevenson",  
      "Phone": "770-893-5004",  
      "RewardPointsBalance": 108,  
      "Orders": [  

```

```
{
  "OrderID": 1,
  "DateTime": "2022-10-22 15:33:27",
  "Subtotal": 10.25,
  "Tax": 0.62,
  "Total": 10.87,
  "PointsEarned": 108,
  "PaymentMethod": "Card",
  "PaymentDetails": "9384",
  "Drinks": [
    {
      "Name": "Latte",
      "BasePrice": 4.00,
      "TotalPrice": 6.75,
      "Customizations": "Oat Milk:$1.50, 1 Extra Shot:$1.25"
    },
    {
      "Name": "Coffee",
      "BasePrice": 2.50,
      "TotalPrice": 3.50,
      "Customizations": "Large:$1.00, Whole Milk:$0.00, 1 Sugar:$0.00"
    }
  ]
}
```

```
},  
"678-891-7784": {  
  "FirstName": "Hannah",  
  "LastName": "Copeland",  
  "Phone": "678-891-7784",  
  "RewardPointsBalance": 2,  
  "Orders": [  
    {  
      "OrderID": 2,  
      "DateTime": "2022-10-30 11:27:53",  
      "Subtotal": 6.75,  
      "Tax": 0.41,  
      "Total": 7.16,  
      "PaymentMethod": "Card",  
      "PaymentDetails": "8679",  
      "PointsEarned": 71,  
      "Drinks": [  
        {  
          "Name": "Latte",  
          "BasePrice": 4.00,  
          "TotalPrice": 3.00,  
          "Customizations": "Small:-$1.00, Non-Fat Milk:$0.00, Very Hot:$0.00"  
        },  
        {  
          "Name": "Espresso",
```

```

    "BasePrice": 2.50,
    "TotalPrice": 3.00,
    "Customizations": "1 Extra Shot:$1.25"
  }
]
},
{
  "OrderID": 3,
  "DateTime": "2022-11-01 10:52:06",
  "Subtotal": 6.50,
  "Tax": 0.39,
  "Total": 6.89,
  "PaymentMethod": "Rewards Points",
  "PaymentDetails": "Redeemed 69 points.",
  "PointsEarned": 0,
  "Drinks": [
    {
      "Name": "Iced Matcha Green Tea Latte",
      "BasePrice": 4.00,
      "TotalPrice": 5.00,
      "Customizations": "Large:$1.00, Whole Milk:$0.00"
    },
    {
      "Name": "Coffee",
      "BasePrice": 2.50,

```


Customers{}.Anonymous{}.Phone	null	Anonymous
Customers{}.Anonymous{}.RewardsPointsBalance	int	Anonymous
Customers{}.Anonymous{}.Orders[]	null	Anonymous
Customers{}.678-884-4302{}.FirstName	string	Path to first name of customer 678-884-4302
Customers{}.678-884-4302{}.LastName	string	Path to last name of customer 678-884-4302
Customers{}.678-884-4302{}.Phone	string	Path to the phone of customer 678-884-4302
Customers{}.678-884-4302{}.RewardsPointsBalance	int	Path to number of rewards points for customer 678-884-4302
Customers {}.678-884-4302{}.Orders[]	Arr[]	Path to the array of orders from customer 678-884-4302
Customers{}.770-893-5004{}.FirstName	string	Path to first name of customer 770-893-5004
Customers{}.770-893-5004{}.LastName	string	Path to last name of customer 770-893-5004
Customers{}.770-893-5004{}.Phone	string	Path to the phone of customer 770-893-5004
Customers{}.770-893-5004{}.RewardsPointsBalance	int	Path to number of rewards points for customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.OrderID	int	Path to OrderID of an order placed by customer 770-893-5004

Customers{}.770-893-5004{}.Orders[].{}.DateTime	string	Path to Datetime of an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.Subtotal	decimal	Path to the subtotal of an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.Tax	decimal	Path to the tax of an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.Total	decimal	Path to the order total of an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.PointsEarned	int	Path to the number of rewards points earned from an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.PaymentMethod	string	Path to the payment method used for an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.PaymentDetails	int	Path to the Payment Details/ Information for an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.Drinks[].{}.Name	string	Path to the name of the first drink for an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.Drinks[].{}.BasePrice	decimal	Path to the base price of the first drink for an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.Drinks[].{}.TotalPrice	decimal	Path to the total price of the first drink for an order placed by customer 770-893-5004

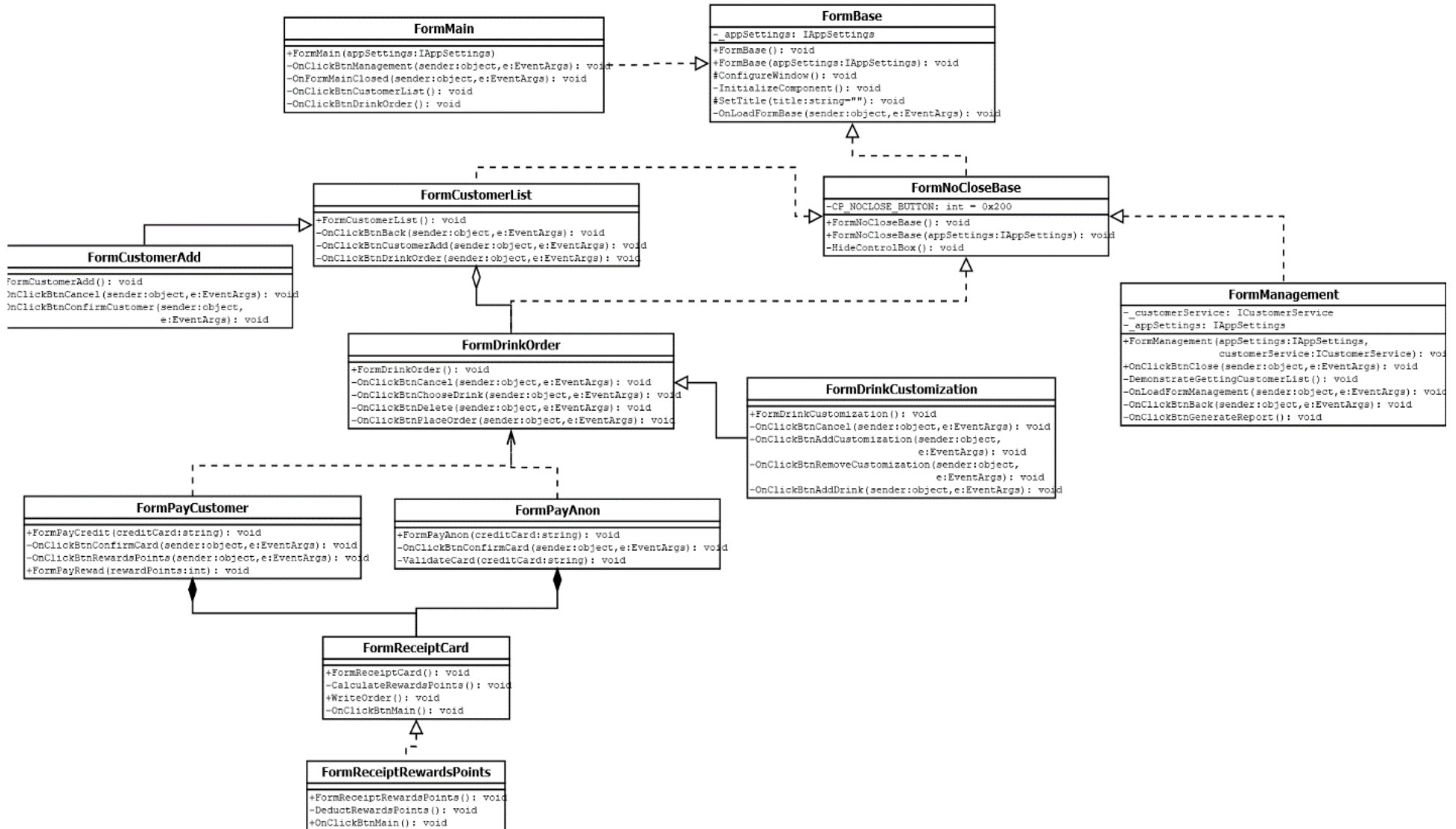
Customers{}.770-893-5004{}.Orders[].{}.Drinks[].{}.Customizations	string	Path to the list of customizations for the first drink for an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.Drinks[].{}.Name	string	Path to the name of the second drink for an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.Drinks[].{}.BasePrice	decimal	Path to the base price of the second drink for an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.Drinks[].{}.TotalPrice	decimal	Path to the total price of the first drink for an order placed by customer 770-893-5004
Customers{}.770-893-5004{}.Orders[].{}.Drinks[].{}.Customizations	string	Path to the list of customizations for the second drink for an order placed by customer 770-893-5004
Customers{}.678-891-7784{}.FirstName	string	Path to first name of customer 678-891-7784
Customers{}.678-891-7784{}.LastName	string	Path to last name of customer 678-891-7784
Customers{}.678-891-7784{}.Phone	string	Path to the phone of customer 678-891-7784
Customers{}.678-891-7784{}.RewardsPointsBalance	int	Path to number of rewards points for customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.OrderID	int	Path to OrderID of an order placed by customer 678-891-7784

Customers{}.678-891-7784{}.Orders[].{}.DateTime	string	Path to Datetime of an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Subtotal	decimal	Path to the subtotal of an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Tax	decimal	Path to the tax of an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Total	decimal	Path to the order total of an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.PointsEarned	int	Path to the number of rewards points earned from an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.PaymentMethod	string	Path to the payment method used for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.PaymentDetails	int	Path to the Payment Details/ Information for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.Name	string	Path to the name of the first drink for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.BasePrice	decimal	Path to the base price of the first drink for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.TotalPrice	decimal	Path to the total price of the first drink for an order placed by customer 678-891-7784

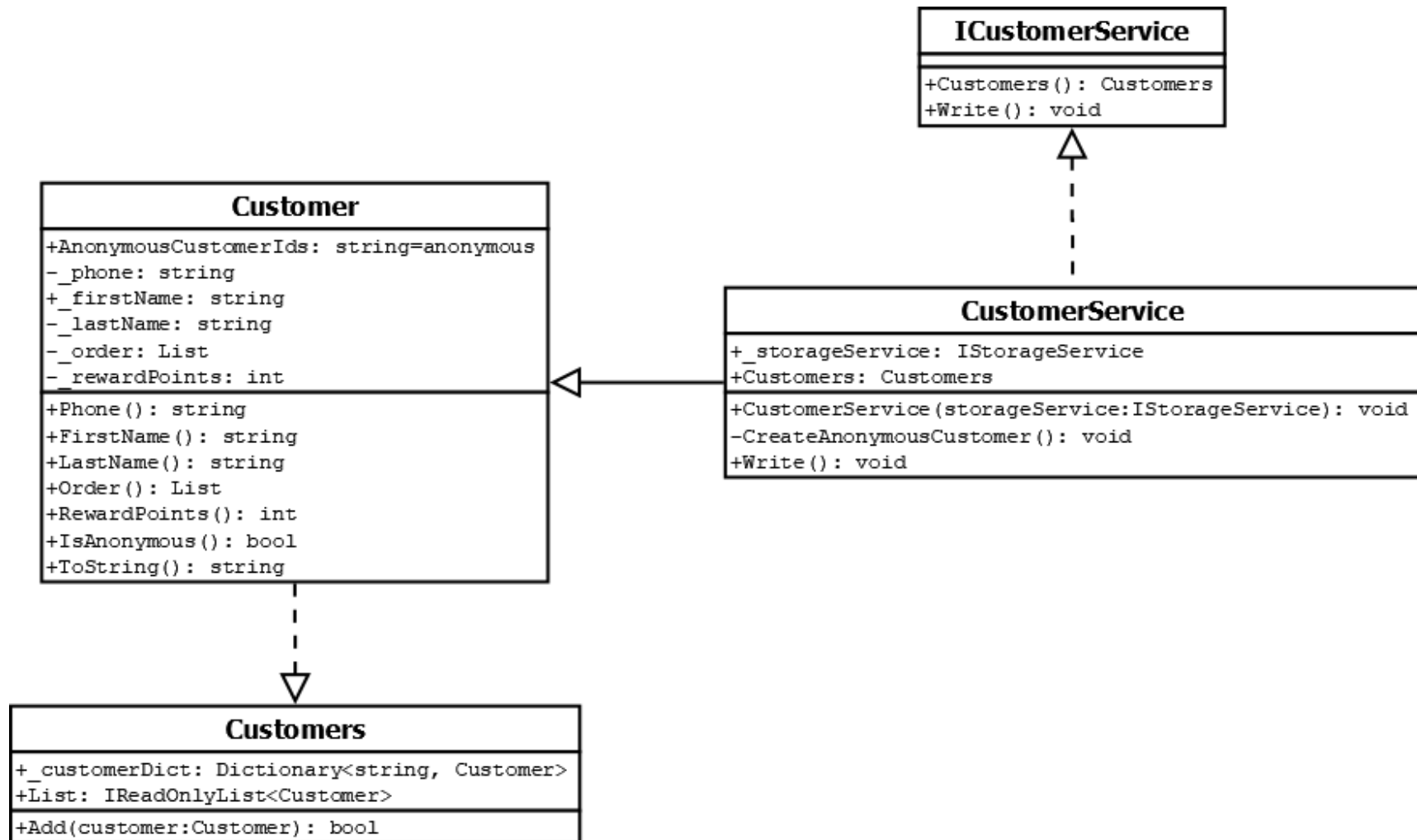
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.Customizations	string	Path to the list of customizations for the first drink for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.Name	string	Path to the name of the second drink for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.BasePrice	decimal	Path to the base price of the second drink for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.TotalPrice	decimal	Path to the total price of the first drink for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.Customizations	string	Path to the list of customizations for the second drink for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.Name	string	Path to the name of the third drink for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.BasePrice	decimal	Path to the base price of the third drink for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.TotalPrice	decimal	Path to the total price of the third drink for an order placed by customer 678-891-7784
Customers{}.678-891-7784{}.Orders[].{}.Drinks[].{}.Customizations	string	Path to the list of customizations for the third drink for an order placed by customer 678-891-7784

UML CLASS DESIGN DIAGRAMS

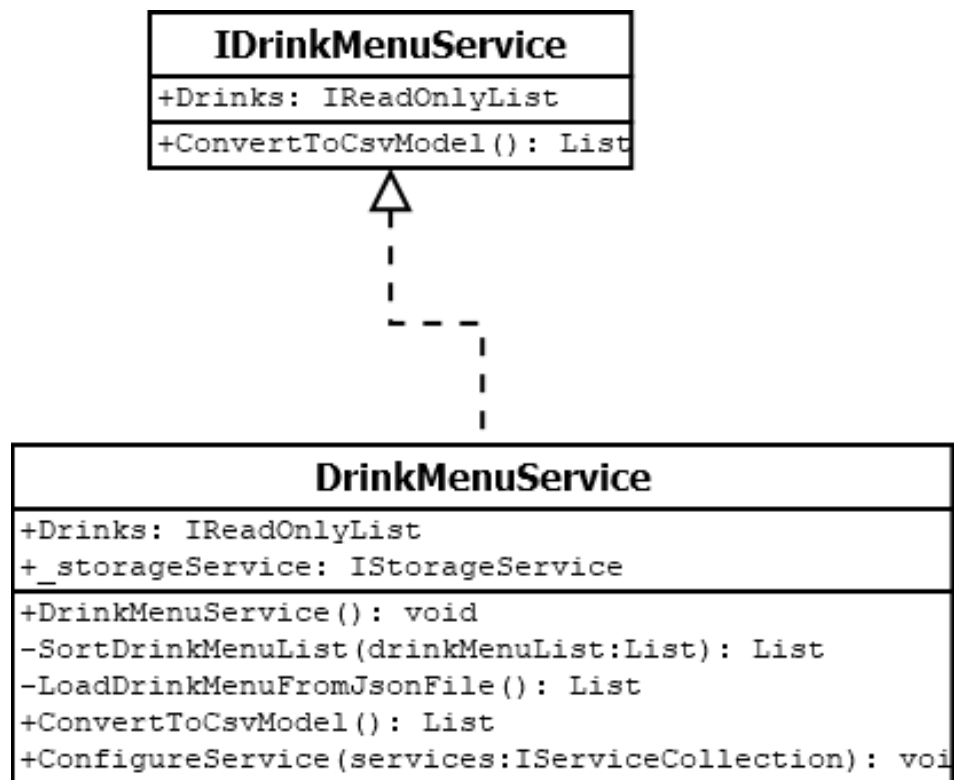
1) Forms



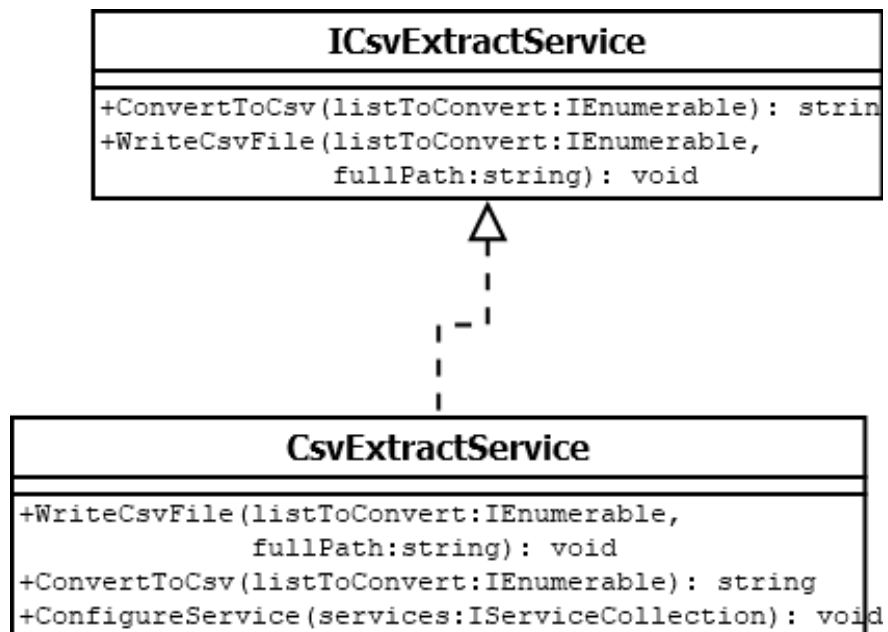
2) Customer



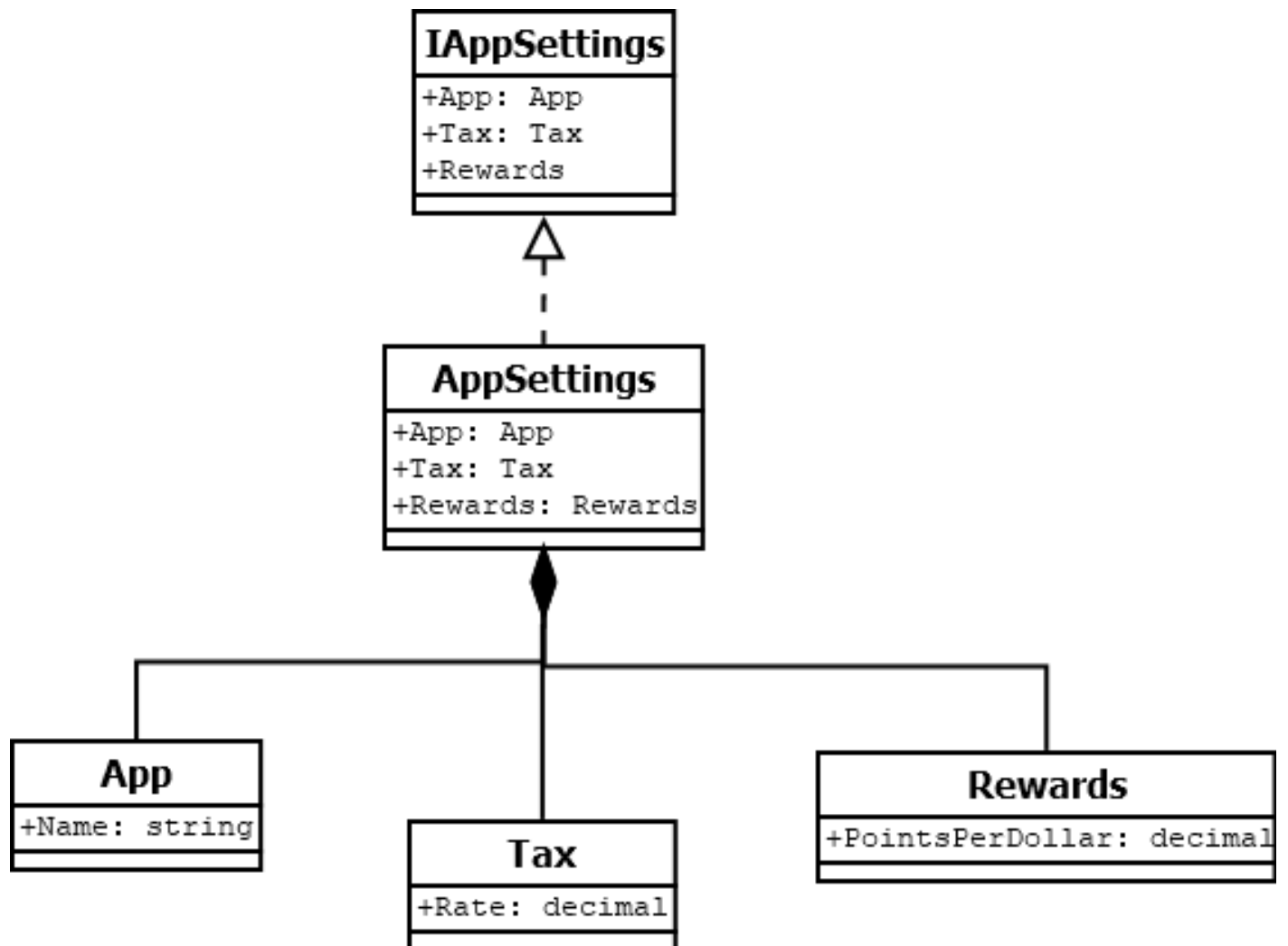
3) Drink Menu



4) CsvExtract



5) Configuration



|| ERD DATA MODEL

