

OO Code Representing the Design Report Artefacts in C#

```
using System.ComponentModel.DataAnnotations;
```

```
namespace SmartBin.Models
```

```
{  
    public class Report  
    {  
        [Key]  
        public int Id { get; set; }  
  
        [Required]  
        public string Name { get; set; }  
  
        [Required]  
        public string HouseNumber { get; set; }  
  
        [Required]  
        public string Address { get; set; }  
  
        [Required]  
        public int BinId { get; set; }  
  
        [Required]  
        public string BinStatus { get; set; } // Options: "Filled", "Empty", "Partial"  
  
        [Required]  
        public string CollectBinUpdate { get; set; } // Options: "Collected" or "Not Collected"  
  
        [Required]  
        public string ContaminationAlert { get; set; } // Options: "Good", "Bad", "Normal"  
    }  
}
```

```
using System.ComponentModel.DataAnnotations;
```

```
namespace SmartBin.Models
```

```
{  
    public class Bin  
    {  
        [Key]  
        public int BinId { get; set; }  
  
        [Required]  
        public string FillStatus { get; set; } // Options: "Filled", "Empty", "Partial"  
    }  
}
```

[Required]

public bool IsContaminated { get; set; } // True if contaminated, otherwise false

[Required]

public double Latitude { get; set; }

[Required]

public double Longitude { get; set; }

}
}