

```
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel.DataAnnotations;
4 using System.ComponentModel.DataAnnotations.Schema;
5 using System.Text;
6
7 namespace DatabaseConnect.Entities
8 {
9     class Entities
10     {
11     }
12
13     [Table("tblAuthor")]
14     public class Author
15     {
16         [Key]
17         public int AuthorID { get; set; }
18         public string Name { get; set; }
19         public IEnumerable<AuthorBook> AuthorBooks { get; set; }
20     }
21
22     [Table("tblBook")]
23     public class Book
24     {
25         [Key]
26         public int BookID { get; set; }
27         public string Title { get; set; }
28         public int PageCount { get; set; }
29         public IEnumerable<AuthorBook> AuthorBooks { get; set; }
30         [NotMapped]
31         public IList<String> Authors { get; set; }
32         public String ISBN { get; set; }
33         public String DeweyDecimal { get; set; }
34         public String FicID { get; set; }
35         public String Description { get; set; }
36         public String ImagePath { get; set; }
37     }
38
39     [Table("tblAuthorBook")]
40     public class AuthorBook
41     {
42         public Author Author { get; set; }
43         public int AuthorID { get; set; }
44         public Book Book { get; set; }
45         [ForeignKey("Book")]
46         public int BookID { get; set; }
47     }
48
49     [Table("tblUsers")]
50     public class User
51     {
52         [Key]
```

```
53     public int UserID { get; set; }
54     public String FullName { get; set; }
55     public String SchoolID { get; set; }
56     public String PasswordHash { get; set; }
57     public String Salt { get; set; }
58     [NotMapped]
59     public String Password { get; set; }
60     public int TokenVersion { get; set; }
61 }
62
63 [Table("tblUType")]
64 public class UType
65 {
66     [Key]
67     public int UTypeID { get; set; }
68     public String UTypeName { get; set; }
69     public Boolean WriteAccess { get; set; }
70     public int CheckoutLimit { get; set; }
71 }
72
73 [Table("tblUserUType")]
74 public class UserUType
75 {
76     public User User { get; set; }
77     public int UserID { get; set; }
78     public UType UType { get; set; }
79     public int UTypeID { get; set; }
80 }
81
82 [Table("tblCheckouts")]
83 public class Checkout
84 {
85     [Key]
86     public int ID { get; set; }
87     public User User { get; set; }
88     public int UserID { get; set; }
89     public Book Book { get; set; }
90     public int BookID { get; set; }
91     public Boolean Active { get; set; }
92     public DateTime CheckoutDate { get; set; }
93     public DateTime DueDate { get; set; }
94     public int Renewals { get; set; }
95 }
96
97 [Table("tblReservations")]
98 public class Reservation
99 {
100     [Key]
101     public int ID { get; set; }
102     public User User { get; set; }
103     public int UserID { get; set; }
104     public Book Book { get; set; }
```

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```
105         public int BookID { get; set; }
106         public DateTime Datetime { get; set; }
107         public Boolean Active { get; set; }
108     }
109 }
110
```