```
 1  using DatabaseConnect;
 2  using DatabaseConnect.Entities;
 3  using Microsoft.AspNetCore.Authorization;
 4  using Microsoft.AspNetCore.Mvc;
 5  using Microsoft.EntityFrameworkCore;
 6  using System;
 7  using System.Collections.Generic;
 8  using System.Linq;
 9  using System.Threading.Tasks;
10
11  namespace LibraryAppMVC.Controllers
12  {
13      [Route("/simple/")] // All endpoints checked 2/25/18
14      public class SimpleController : Controller
15      {
16          private Context _ctx;
17
18          public SimpleController(Context context)
19          {
20              _ctx = context;
21          }
22
23          [Route("books")]
24          [AllowAnonymous]
25          [HttpGet]
26          public IActionResult GetABook(string title, int page = 1) // Checked     ⮡
                2/25/18 working
27          {
28              List<Book> a;
29              if (title != null)  // Title specified
30              {
31                  a = _ctx.Books
32                      .Where(b => b.Title.Contains(title))
33                      .Include(book => book.AuthorBooks)
34                          .ThenInclude(ab => ab.Author)
35                      .ToList();
36              }
37              else  // Title not specified
38              {
39                  if (page < 1) { page = 1; }
40                  int pos_i = (page - 1) * 10;
41                  int pos_f = page * 10;
42                  int count = _ctx.Books.Count();
43                  if (pos_f > count) { pos_f = count; }
44                  if (pos_i > count) { a = new List<Book>(); }
45                  else
46                  {
47                      a = _ctx.Books
48                          .Include(book => book.AuthorBooks)
49                              .ThenInclude(ab => ab.Author)
50                          .ToList()
51                          .GetRange(pos_i, (pos_f - pos_i));
```

```
52                    }
53                }
54
55                foreach (Book b in a)
56                {
57                    List<String> AuthorList = new List<String>();
58                    foreach (AuthorBook ab in b.AuthorBooks)
59                    {
60                        AuthorList.Add(ab.Author.Name);
61                    }
62                    b.Authors = AuthorList;
63                    b.AuthorBooks = null;
64                }
65                return Json(a);
66            }
67
68            [Route("checkouts")]
69            [AllowAnonymous]
70            [HttpGet]
71            public IActionResult GetCheckouts() // Checked 2/25/18 working
72            {
73                var CheckoutList = _ctx.Checkouts
74                    .Include(c => c.Book)
75                    .Where(c => c.Active)
76                    .ToList();
77                return Json(CheckoutList);
78            }
79
80            [Route("reservations")]
81            [AllowAnonymous]
82            [HttpGet]
83            public IActionResult GetReservations() // Checked 2/25/18 working
84            {
85                var CheckoutList = _ctx.Reservations
86                    .Include(r => r.Book)
87                    .Where(r => r.Active)
88                    .ToList();
89                return Json(CheckoutList);
90            }
91        }
92    }
93
```