

app/services/readinglist\_service.py: 71%

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```
1 from pathlib import Path
2 from app.models.request import Request
3 from app.schemas.readinglist import ReadingListCreate, ReadingListDetail, ReadingListSummary
4 from app.models.readinglist import ReadingList
5 from app.utils.data_manager import CSVRepository
6
7 class ReadingListService:
8     def __init__(self):
9         self.repo = CSVRepository()
10        self.path = Path(__file__).resolve().parents[1] / "data" / "ReadingLists.csv"
11        self.fields = ["ListID", "UserID", "Name", "ISBNs"]
12
13    def __generate_next_id(self) -> int:
14        rows = self.repo.read_all(self.path)
15        if not rows:
16            return 1
17        ids = [int(r["ListID"]) for r in rows if r["ListID"].isdigit()]
18        return max(ids, default=0) + 1
19
20    def __already_added(self, list_id: int, isbn: str) -> bool:
21        rows = self.repo.read_all(self.path)
22
23        found = False
24        for row in rows:
25            if row["ListID"] == str(list_id):
26                books = row["ISBNs"].split("|") if row["ISBNs"] else []
27                if isbn in books:
28                    found = True
29                break
30        return found
31
32    def __number_of_readinglist(self, user_id)-> int:
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35     for row in rows:
36         if str(user_id) == row["UserID"]:
37             count += 1
38
39     return count
40
41     def get_all_readinglist(self, user_id: int):
42         rows = self.repo.read_all(self.path)
43         result = []
44         for r in rows:
45             if r["UserID"] == str(user_id):
46                 result.append(r)
47         return result
48
49     def create_list(self, data: ReadingListCreate, user_id: int) -> ReadingListDetail:
50         next_id = self.__generate_next_id()
51         num_readinglist = self.__number_of_readinglist(user_id=user_id)
52         if num_readinglist > 10:
53             raise ValueError("You can only have 10 reading lists")
54
55         rows = self.get_all_readinglist(user_id=user_id)
56         for r in rows:
57             if r["Name"].lower() == data.name.lower():
58                 raise ValueError(f'A reading list named "{data.name}" already exists.')
59
60         readinglist = ReadingList(list_id=next_id,
61                                   user_id=user_id,
62                                   name=data.name)
63
64         self.repo.append_row(self.path, self.fields, readinglist.to_csv_dict())
65         return ReadingListDetail(**readinglist.to_api_dict())
66
67     def delete_list(self, list_id: int, user_id: int):
68
69         rows = self.repo.read_all(self.path)
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72     updated_rows = [  
73         r for r in rows if not (int(r["ListID"]) == list_id and int(r["UserID"]) == user_id)  
74     ]  
75     if len(updated_rows) == original_count:  
76         return False  
77  
78     for i, row in enumerate(updated_rows, start=1):  
79         row["ListID"] = str(i)  
80     self.repo.write_all(self.path, self.fields, updated_rows)  
81     return True
```

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