



BookDotNext

Team Name: List never ends.

Team Members : Jae Butler, Dae Hyun Chung, Yang Chen, Shuang Du, Hui Zou, Jiena Wu, Yunfei Zhang

Data inserter

Person Inserter

```

111      //Persons
112      Persons p1 = new Persons("aspedroni7", "Alverta","Spedroni", "nh4FPTqzeWdG",true);
113      Persons p2 = new Persons("mpotbury8","Modesta","Potbury","ioPcQyVVf0",false);
114      Persons p3 = new Persons("oosmonda", "Olga","Osmond", "ZtaRY8uAWHr",false);
115

```

Persons's database

UserId	UserName	FirstName	LastName	PassWord	Permission
1	mpotbury8	Modesta	Potbury	ioPcQyVVfO	0
2	oosmonda	Olga	Osmond	ZtaRY8uAWHr	0
3	aspedroni7	Alverta	Spedroni	nh4FPTqzeWdG	1
NULL	NULL	NULL	NULL	NULL	NULL

User and Admin Inserter

```

//Users

Users user1 = new Users(1,"mpotbury8","Modesta","Potbury",
    "ioPcQyVVf0",false,tDate1);

Users user2 = new Users(2,"oosmonda", "Olga","Osmond",
    "ZtaRY8uAWHr",false,tDate2);

user1 = UsersDao.getInstance().create(user1);
user2 = UsersDao.getInstance().create(user2);

//Admin
Administrators admin1 = new Administrators(3,"aspedroni7", "Alverta",
    "Spedroni", "nh4FPTqzeWdG",true,t1);
admin1 = AdministratorsDao.getInstance().create(admin1);

```

Users database

UserId	DOB
1	1997-06-16
2	2005-11-15

Admin database

UserId	LastLogin
3	2023-02-25 01:46:13

SearchHistory Inserter

```

134     //SearchHistory
135     SearchHistory searchHistory1 = new SearchHistory(1,1,t1);
136     SearchHistory searchHistory2 = new SearchHistory(2,2,t2);
137
138     searchHistory1 =searchHistoryDao.create(searchHistory1);
139     searchHistory2 =searchHistoryDao.create(searchHistory2);
140
141     //Vote
142     Votes vote1 = new Votes(t1,1,1);
143     Votes vote2 = new Votes(t2,2,2);
144
145     vote1 = votesDao.create(vote1);
146     vote2 = votesDao.create(vote2);
147
148     //BookReview
149     BookReview bookReview1 = new BookReview(1,5.0,"Great!",t2,user1,bookInfo1);
150     bookReview1 = bookReviewDao.create(bookReview1);
151
152     BookReview bookReview2 = new BookReview(2,4.0,"Great!",t2,user1,bookInfo2);
153     bookReview2 = bookReviewDao.create(bookReview2);
154
155
156     // TopTenList
157     TopTenLists topTenList1 = new TopTenLists(user1,bookInfo1,t1);

```

SearchHistory Database

SearchId	UserId	VisitedBooks	SearchTime
1	1	1	2023-02-25 01:46:13
2	2	2	2022-01-11 02:53:17

Vote Database

Voteld	UserId	BookId	Created
1	1	1	2023-02-25 01:46:13
2	2	2	2022-01-11 02:53:17

TopTenList Inserter

```

156      // TopTenList
157      TopTenLists topTenList1 = new TopTenLists(user1,bookInfo1,t1);

```

TopTenList Database

Result Grid					Filter Rows:	Search	Edit:	Export/Import:
	TopTenListId	UserId	BookId	Created				
▶	1	1	2	2023-02-25 01:46:13				
	NULL	NULL	NULL	NULL				

BookReview Inserter

```
//BookReview
BookReview bookReview1 = new BookReview(1,5.0,"Great!",t2,user1,bookInfo1);
bookReview1 = bookReviewDao.create(bookReview1);

BookReview bookReview2 = new BookReview(2,4.0,"Great!",t2,user1,bookInfo2);
bookReview2 = bookReviewDao.create(bookReview2);
```

BookReview Database

ReviewId	ReviewScore	Content	Created	UserId	BookId
1	5.0	Great!	2022-01-10	1	2
2	4.0	Great!	2022-01-10	1	3



Author Inserter and Publisher Inserter

```
Publishers publishers1 = new Publishers("Lion Books", "US");
Publishers publishers2 = new Publishers("Willowisp Press", "FR");
publishersDao.create(publishers1);
publishersDao.create(publishers2);

Author author = new Author("Rose Army", "US");
Author author1 = new Author("John Napiery", "US");
Author author2 = new Author("JMichael Joosten", "UK");
Author author3 = new Author("Sian Tucker", "JP");
Author author4 = new Author("Charles Hodge", "KR");
Author author5 = new Author("Donald J. Wiseman", "US");
Author author6 = new Author("Maureen Duffy", "US");
Author author7 = new Author("Judy Wolfman", "UK");
Author author8 = new Author("Henry Purcell", "US");

authorDao.create(author);
authorDao.create(author1);
authorDao.create(author2);
authorDao.create(author3);
authorDao.create(author4);
authorDao.create(author5);
authorDao.create(author6);
authorDao.create(author7);
authorDao.create(author8);
```

Author and Publisher Database

Result Grid   Filter Rows:

	AuthorName	CountryCode	
▶	Charles Hodge	KR	
▶	Donald J. Wiseman	US	
▶	Henry Purcell	US	
▶	JMichael Joosten	UK	
▶	John Napiery	US	
▶	Judy Wolfman	UK	
▶	Maureen Duffy	US	
▶	Rose Army	US	
▶	Sian Tucker	JP	
▶	NULL	NULL	

BookInfo Inserter

```

94 //BookInfo
95 BookInfo bookInfo = new BookInfo("Henry Purcell", 1995, "Henry Purcell set to music an entire age. Endlessly resourceful and dazzlingly innovatory",
96     "http://books.google.com/books?id=RFEZAQAAIAAJ&dq=Henry+Purcell&hl=&source=gbs_api", "Fiction", "Lion Books", "Maureen Duffy",
97     "http://books.google.com/books/content?id=RFEZAQAAIAAJ&printsec=frontcover&img=1&zoom=1&source=gbs_api");
98 BookInfo bookInfo1 = new BookInfo("Life on a Pig Farm", 2004, "Discover what life is like on five different types of farms",
99     "http://books.google.com/books?id=FCJa1BwkMMAC&dq=Life+on+a+Pig+Farm+(Carolrhoda+Photo+Books)&hl=&source=gbs_api", "Art",
100     "Willowisp Press", "Judy Wolfman",
101     "http://books.google.com/books/content?id=FCJa1BwkMMAC&printsec=frontcover&img=1&zoom=1&source=gbs_api");
102 BookInfo bookInfo2 = new BookInfo("Life on a Pig Farm", 2021, "Discover what life is like on five different types of farms",
103     "http://books.google.com/books?id=FCJa1BwkMMAC&dq=Life+on+a+Pig+Farm+(Carolrhoda+Photo+Books)&hl=&source=gbs_api", "Fiction",
104     "Willowisp Press", "Judy Wolfman",
105     "http://books.google.com/books/content?id=FCJa1BwkMMAC&printsec=frontcover&img=1&zoom=1&source=gbs_api");
106
107 bookInfo = bookInfoDao.create(bookInfo);
108 bookInfo1 = bookInfoDao.create(bookInfo1);
109 bookInfo2 = bookInfoDao.create(bookInfo2);

```

BookInfo Database

BookId	BookTitle	PublishedDate	Description	InfoLink	Categories	PublisherName	AuthorName	ImageLink
1	Henry Purcell	1995	Henry Purcell...	http://books.g...	Fiction	Lion Books	Maureen Duffy	http://books.goo...
2	Life on a Pig Farm	2004	Discover what...	http://books.g...	Art	Willowisp Press	Judy Wolfman	http://books.goo...
3	Life on a Pig Farm	2021	Discover what...	http://books.g...	Fiction	Willowisp Press	Judy Wolfman	http://books.goo...

Search for a User by UserName

UserName

[Create User](#)

[Create Admin](#)

[Find Administrator](#)

[Universal Recommendations](#)

[Search Books](#)

Matching Users

UserName	FirstName	LastName	DoB	Reviews	Search History	Personal Recommendation	Delete User	Update User
----------	-----------	----------	-----	---------	----------------	-------------------------	-------------	-------------

User/ Administrator

Create User : will allow to create Users

Create User

UserName

FirstName

LastName

DoB (yyyy-mm-dd)

Password

Successfully created test1

Search Users: Can Search User by UserName

Search for a User by UserName

UserName

Submit

Displaying results for test1

[Create User](#)

[Create Admin](#)

[Find Administrator](#)

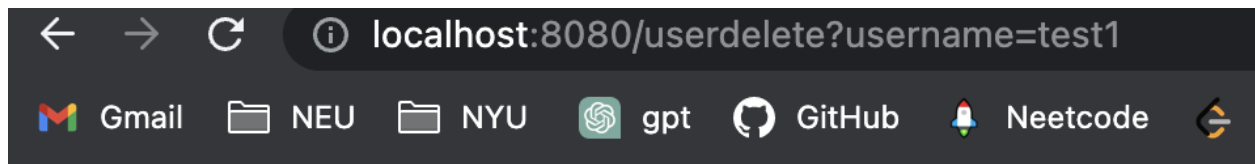
[Universal Recommendations](#)

[Search Books](#)

Matching Users

UserName	FirstName	LastName	DoB	Reviews	Search History	Personal Recommendation	Delete User	Update User
test1	test	last	2021-11-16	Reviews	Search History	Personal Recommendations	Delete	Update

Delete Users: When User is Searched by UserName, We have options to Delete User by UserName



Delete User

UserName

Successfully deleted test1

Update Users: Update users information

UserName

FirstName

LastName

DoB (yyyy-mm-dd)

Password

Create Administrator : will allow to create Administrators

Create Admin

UserName

FirstName

LastName

Password

Successfully created Admin testAdmin

Search Users: Can Search Administrator by UserName

Search for a Admin by UserName

UserName

Displaying results for testAdmin

[Create User](#)

[Create Admin](#)

Matching Users

UserName	FirstName	LastName	Last Login	Delete
testAdmin	test	Admin	2023-03-21	Delete

Delete Administrator: Can delete User after Searching Administrator by UserName.

Delete User

UserName

Successfully deleted testAdmin

BookInfo

Select by BookTitle


Search for a Book by BookTitle

BookTitle

Displaying results for Henry Purcell

[Create Book](#)

Matching BookInfo

BookId	BookTitle	PublishedYear	Description	InfoLink	Categories	PublisherName	AuthorName	ImageLink	Update Book	Reviews
1	Henry Purcell	1995	Henry Purcell set to music an entire age. Endlessly resourceful and dazzlingly innovatory	http://books.google.com/books?id=RFEZQAAlAAJ&dq=Henry+Purcell&hl=&source=gbv_api	Fiction	Lion Books	Maureen Duffy		Update	Reviews

Create Book

Create BookInfo

bookTitle

publishedYear

description

infoLink

categories

publisherName

authorName

imageLink

Result:

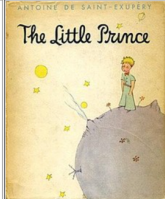
Search for a Book by BookTitle

BookTitle

Displaying results for The Little Prince

[Create Book](#)

Matching BookInfo

BookId	BookTitle	PublishedYear	Description	InfoLink	Categories	PublisherName	AuthorName	ImageLink	Update Book	Reviews
4	The Little Prince	1999	The story follows a young prince who visits various planets in space, including Earth, and addresses themes of loneliness, friendship, love, and loss.	https://en.wikipedia.org/wiki/The_Little_Prince	Fiction	Lion Books	Maureen Duffy		Update	Reviews

Update BookInfo

Update BlogUser

bookId

New description

Result:


Search for a Book by BookTitle

BookTitle

Displaying results for Henry Purcell

[Create Book](#)

Matching BookInfo



BookId	BookTitle	PublishedYear	Description	InfoLink	Categories	PublisherName	AuthorName	ImageLink	Update Book	Reviews
1	Henry Purcell	1995	test description	http://books.google.com/books?id=RFEZAQAIAAJ&dq=Henry+Purcell&hl=&source=gbs_api	Fiction	Lion Books	Maureen Duffy		Update	Reviews

Book review

Users have two ways to get book reviews:

1. User can find book review by book
 - Click the review button from bookinfo page

Matching BookInfo

BookId	BookTitle	PublishedYear	Description	InfoLink	Categories	PublisherName	AuthorName	ImageLink	Update Book	Reviews
2	Life on a Pig Farm	2004	Discover what life is like on five different types of farms	http://books.google.com/books?id=FCJa1BWkMMAC&dq=Life+on+a+Pig+Farm+(Carolrhoda+Photo+Books)&hl=&source=gbs_api	Art	Willowisp Press	Judy Wolfman		Update	Reviews
3	Life on a Pig Farm	2021	Discover what life is like on five different types of farms	http://books.google.com/books?id=FCJa1BWkMMAC&dq=Life+on+a+Pig+Farm+(Carolrhoda+Photo+Books)&hl=&source=gbs_api	Fiction	Willowisp Press	Judy Wolfman		Update	Reviews

[Create BookReview](#)

Matching BookReview

ReviewId	ReviewScore	Content	Created	UserName	BookTitle	Delete BookReview
1	5.0	Great!	2022-01-10	oosmonda	Life on a Pig Farm	Delete

2. User can also find book review by user

- Click the review button from user page

Displaying results for mpotbury8

[Create User](#)

[Create Admin](#)

Matching Users

UserName	FirstName	LastName	DoB	Reviews	Search History	Delete User	Update User
mpotbury8	Modesta	Potbury	1997-06-16	Reviews	Search History	Delete	Update

Matching BookReview

ReviewId	ReviewScore	Content	Created	UserName	BookTitle	Delete BookReview
1	5.0	Great!	2022-01-10	oosmonda	Life on a Pig Farm	Delete
2	4.0	Great!	2022-01-10	oosmonda	Life on a Pig Farm	Delete

3. User can create book reviews

localhost:8080/bookreviewcreate

Gmail YouTube

Create BookReview

UserId
 BookId
 ReviewScore
 Content
 Created (yyyy-mm-dd)

Successfully created BookReview{reviewId=3, reviewScore=5.0, content='great', userId=1, bookTitle=Henry Purcell}

- The data will also be added into MySQL BookReview Table.

- > BlogApplication
- > BookDotNext_v2
 - > Tables
 - > Administrators
 - > Author
 - > BookInfo
 - > BookReview
 - > PersonalRecommend
 - > Persons
 - > Publishers
 - > SearchHistory
 - > TopTenLists
 - > UniversalRecommen...
 - > Users
 - > Votes
 - > Views
 - > Stored Procedures

ReviewId	ReviewScore	Content	Created	UserId	BookId
1	5.0	Great!	2022-01-10	2	2
2	4.0	Great!	2022-01-10	2	3
3	5.0	greate	2021-02-25	1	1
NULL	NULL	NULL	NULL	NULL	NULL

Search History

Search history by user id.

In find user page, after finding a user, the user can click the "Search History" URL and go to the webpage "find search history", and then can find search history by user id.

Matching Users

UserName	FirstName	LastName	DoB	Reviews	Search History	Personal Recommendation	Delete User	Update User
mpotbury8	Modesta	Potbury	1997-06-16	Reviews	Search History	Personal Recommendations	Delete	Update

Search for search history by UserId

UserId

Displaying results for 1

Matching SearchHistory

SearchId	UserId	VisitedBooks	SearchTime	Delete
1	1	1	2023-02-24 05:46:13.000	Delete

Delete Search history.

Search history can be deleted by clicking the delete button.

Before delete (database):

	SearchId	UserId	VisitedBooks	SearchTime	
▶	1	1	1	2023-02-25 01:46:13	
	2	2	2	2022-01-11 02:53:17	
	NULL	NULL	NULL	NULL	

After delete:

Successfully deleted 1

In MySQL

	SearchId	UserId	VisitedBooks	SearchTime	
▶	2	2	2	2022-01-11 02:53:17	
	NULL	NULL	NULL	NULL	

TopTenLists

Based on the list of Users by UserName, there is a feature for Top 10 List which is the user's top ten favorite list of books. By clicking the feature, it will directly show the top ten list of current users and also you can search for different user id.

Matching Users

UserName	FirstName	LastName	DoB	Reviews	Search History	Personal Recommendation	Top 10 List	Delete User	Update User
mpotbury8	Modesta	Potbury	1997-06-16	Reviews	Search History	Personal Recommendations	TopTenLists	Delete	Update

Search for a TopTenList by UserId

UserId

Displaying results for 1

[Create TopTenLists](#)

Matching TopTenLists

BookTitle	AuthorName	UserName	UserId	Created	Delete TopTenLists
Life on a Pig Farm	Judy Wolfman	mpotbury8	1	2023-02-24	Delete
Henry Purcell	Maureen Duffy	mpotbury8	1	2022-01-10	Delete

Additionally, users can create a top ten list. There should be 3 inputs for the user to put, UserId, BookId and Created. After submitting, if three inputs are correctly formatted, it will show the "Successfully created" comment.

Create TopTenList

UserId

BookId

Created (yyyy-mm-dd)

Create TopTenList

UserId

BookId

Created (yyyy-mm-dd)

Successfully created

SQL After delete:

```
1 • SELECT * FROM BookDotNext.TopTenLists;
```

00% 1:1

Result Grid Filter Rows: Search Edit:

	TopTenListId	UserId	BookId	Created
▶	1	1	2	2023-02-25 01:46:13
▶	2	1	1	2022-01-11 02:53:17
▶	3	2	3	2023-02-25 01:46:13
▶	4	2	2	2022-01-11 02:53:17
▶	5	1	2	2014-02-12 08:00:00
▶	6	2	1	1995-06-26 07:00:00
	NULL	NULL	NULL	NULL

Also there is a feature to delete the top ten list. After clicking delete, the user can put a top ten listId that wants to be deleted and submit the button.

Delete TopTenList

TopTenListId

Successfully deleted 6

SQL After delete:

```
1 • SELECT * FROM BookDotNext.TopTenLists;
```

0%	1:1			
Result Grid			Filter Rows:	<input type="text" value="Search"/>
				Edit:
TopTenListId	UserId	BookId	Created	
1	1	2	2023-02-25 01:46:13	
2	1	1	2022-01-11 02:53:17	
3	2	3	2023-02-25 01:46:13	
4	2	2	2022-01-11 02:53:17	
5	1	2	2014-02-12 08:00:00	
NULL	NULL	NULL	NULL	

Universal Recommendation (Advanced Features)

We get universal recommendation by getting the top10 books with the most votes. Firstly we got each books' vote count, then we sorted the count to get 10 books with the most votes (Please see `getTop5Books()` in `VotesDao`). We may update the universal recommendations monthly or yearly in the later version.

We put universal recommendations on our homepage.

```
1 • SELECT * FROM BookDotNext.TopTenLists;
```

0%	1:1			
Result Grid			Filter Rows:	<input type="text" value="Search"/>
				Edit:
TopTenListId	UserId	BookId	Created	
1	1	2	2023-02-25 01:46:13	
2	1	1	2022-01-11 02:53:17	
3	2	3	2023-02-25 01:46:13	
4	2	2	2022-01-11 02:53:17	
5	1	2	2014-02-12 08:00:00	
6	2	1	1995-06-26 07:00:00	
NULL	NULL	NULL	NULL	

Search for a User by UserName

UserName

[Create User](#)

[Create Admin](#)

[Find Administrator](#)

[Universal Recommendations](#)

[Search Books](#)

Matching Users

UserName	FirstName	LastName	DoB	Reviews	Search History	Personal Recommendation	Delete User	Update User
----------	-----------	----------	-----	---------	----------------	-------------------------	-------------	-------------

After click the Universal Recommendation button we can get the universal Recommendation:



Get Universal Recommendation

BookId	BookTitle	PublishedDate	Description	InfoLink	Categories	PublisherName	AuthorName	ImageLink
1	Henry Purcell	1995	Henry Purcell set to music an entire age. Endlessly resourceful and dazzlingly innovative	http://books.google.com/books?id=RFEZAQAIAAJ&dq=Henry+Purcell&hl=&source=gsbs_api	Fiction	Lion Books	Maureen Duffy	http://books.google.com/books/content?id=RFEZAQAIAAJ&printsec=frontcover&img=1&zoom=1&source=gsbs_ap
2	Life on a Pig Farm	2004	Discover what life is like on five different types of farms	http://books.google.com/books?id=FCJa1BWkMMAC&dq=Life+on+a+Pig+Farm+(Carolrhoda+Photo+Books)&hl=&source=gsbs_api	Art	Willowisp Press	Judy Wolfman	http://books.google.com/books/content?id=FCJa1BWkMMAC&printsec=frontcover&img=1&zoom=1&source=gsbs_u

Personal Recommendation (Advanced Features)

Personal Recommendation is based on the user's search history. It recommends the top 5 books by the specific user's search history upon the count of visited books. With the search for a user by user name, there is a feature for personal recommendation. Personal Recommendation will directly show the list of recommendations and users can also put different userid to look at different personal recommendation lists.

Matching Users

UserName	FirstName	LastName	DoB	Reviews	Search History	Personal Recommendation	Top 10 List	Delete User	Update User
mpotbury8	Modesta	Potbury	1997-06-16	Reviews	Search History	Personal Recommendations	TopTenLists	Delete	Update

Search for personal recommendation by UserId

UserId

Displaying results for 1

Personal Recommendation

BookTitle	AuthorName	PublishedDate	PublishedName	Categories	Description
Henry Purcell	Maureen Duffy	1995	Lion Books	Fiction	Henry Purcell set to music an entire age. Endlessly resourceful and dazzlingly innovatory

Advanced Features

Advanced features that our group defined in MileStone 1 were

1. Personal Recommendation
2. Universal Recommendation

Personal Recommendation is based on the top 5 of a specific user's search history and Universal Recommendation is based on the top 10 with most votes of all the user's. We successfully implemented both recommendation lists to users. Information and screenshot of advanced features are listed above.

Personal Recommendation

BookTitle	AuthorName	PublishedDate	PublishedName	Categories	Description
Henry Purcell	Maureen Duffy	1995	Lion Books	Fiction	Henry Purcell set to music an entire age. Endlessly resourceful and dazlingly innovatory

Get Universal Recommendation

BookId	BookTitle	PublishedDate	Description	InfoLink	Categories	PublisherName	AuthorName	ImageLink
1	Henry Purcell	1995	Henry Purcell set to music an entire age. Endlessly resourceful and dazlingly innovatory	http://books.google.com/books?id=RFEZAQAAlAAJ&dq=Henry+Purcell&hl=&source=gbs_api	Fiction	Lion Books	Maureen Duffy	http://books.google.com/books/content?id=RFEZAQAAlAAJ&printsec=frontcover&img=1&zoom=1&source=gbs_api
2	Life on a Pig Farm	2004	Discover what life is like on five different types of farms	http://books.google.com/books?id=FCJa1BWkMMAC&dq=Life+on+a+Pig+Farm+(Carolrhoda+Photo+Books)&hl=&source=gbs_api	Art	Willowisp Press	Judy Wolfman	http://books.google.com/books/content?id=FCJa1BWkMMAC&printsec=frontcover&img=1&zoom=1&source=gbs_api