

LIBRARY MANAGEMENT SYSTEM

1. Create a Postgre database with the following tables. Define field types based on your understanding.

Borrower

- a. Id (PK)
- b. City

Book

- a. Id (PK)
 - b. BookName
 - c. Author
 - d. BorrowerId (It should be set as a foreign key to **Borrower** table)
 - e. BorrowerName
 - f. DateOfIssue
 - g. City
 - h. Genre
2. Create a .NET core MVC project using repository pattern
 3. Use Entity framework with PostgreSQL with Data first approach.
 4. Create a screen to show the list of records as shown in first screenshot
 5. Create Add/Edit form as shown in 2nd image
 - Add/Edit methods must be separate. Use partial view for Add and Edit forms.
 - If you are not going for nice to have features 1 & 2, use Dropdown control to populate existing **Borrower** and use its Id to save the **Book** record.
 - On click of Delete, record should get deleted from the database and record should get disappeared from the list on UI.

Nice To Have:

1. **City** field must be auto-suggest control. If user selects existing **Borrower**, then it should use its Id in the new/existing **Book** record while saving to database.
2. If user enters name that doesn't exist in the **Borrower** table, then on click of Save button, it should create a new **Borrower** record in the **Borrower** table and its Id should be used in the new/existing **Book** record in Add/edit form
3. Paging / Pagination
4. Use Validations on front-end

Note: Finish the task within the specified timeframe of 5 hours, from **1:30 PM to 6:30 PM**, and establish a new folder name **Assignment** within the same project repository in

GitHub. Ensure that the assignment is **committed before 7:00 PM**; Any changes made after **7:00 PM will not be accepted and will result in the negative marking**. Share the GitHub link with the coordinator once the assignment is completed within the designated time.

Library Management System

Search

ADD BOOK

Book ID	Book Name	Author	Borrower Name	Date of Issue	City	Genre	Action
1	Whispers in the Night	Sarah Blackwood	Brinn	1981-10-06T18:30:00.000Z	Ahemdabad	Mystery	<div>EditDelete</div>
2	The Shadow of Suspicion	Alex Cross	Kenneth	2024-02-06T18:30:00.000Z	Indore	Thriller	<div>EditDelete</div>
3	Deadly Echoes	Lisa Gardner	Kimmy	1980-05-13T18:30:00.000Z	Jabalpur	Mystery	<div>EditDelete</div>
4	The Enchanted Forest	Guillard	Amity	1992-04-14T18:30:00.000Z	Mumbai	Fantasy	<div>EditDelete</div>
5	Echoes of Eternity	Wrangle	Ken	2002-06-11T18:30:00.000Z	Pune	Fantasy	<div>EditDelete</div>
6	Wanderlust: Chronicles of the Lost Realm	Lammenga	Hunter	1990-01-18T18:30:00.000Z	Bangalore	Fantasy	<div>EditDelete</div>
7	Whispers of Love	Staterfield	Dot	1983-12-27T18:30:00.000Z	Hyderabad	Romance	<div>EditDelete</div>
8	Beyond the Stars	Noni	Monika	2021-07-14T18:30:00.000Z	Mumbai	Science Fiction	<div>EditDelete</div>
9	Echoes from the Future	Cammacke	Ganny	1997-01-14T18:30:00.000Z	Mumbai	Science Fiction	<div>EditDelete</div>
10	Echoes of Revolution	Farnish	William	1991-11-19T18:30:00.000Z	Bangalore	Historic Fiction	<div>EditDelete</div>

Items per page:

10

1 - 10 of 209

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Library Management System

Search

ADD BOOK

Book ID	Book Name	Author	Borrower Name	Date of Issue	City	Genre	Action
1	Whispers in the Night	Sarah Blackwood	Brinn	1981-10-06T18:30:00.000Z	Ahemdabad	Mystery	<div>EditDelete</div>
2	The Shadow of Suspicion	Alex Cross	Kenneth	2024-02-06T18:30:00.000Z	Indore	Thriller	<div>EditDelete</div>
3	Deadly Echoes	Lisa Gardner	Kimmy	1980-05-13T18:30:00.000Z	Jabalpur	Mystery	<div>EditDelete</div>
4	The Enchanted Forest	Guillard	Amity	1992-04-14T18:30:00.000Z	Mumbai	Fantasy	<div>EditDelete</div>
5	Echoes of Eternity	Wrangle	Ken	2002-06-11T18:30:00.000Z	Pune	Fantasy	<div>EditDelete</div>
6	Wanderlust: Chronicles of the Lost Realm	Lammenga	Hunter	1990-01-18T18:30:00.000Z	Bangalore	Fantasy	<div>EditDelete</div>
7	Whispers of Love	Staterfield	Dot	1983-12-27T18:30:00.000Z	Hyderabad	Romance	<div>EditDelete</div>
8	Beyond the Stars	Noni	Monika	2021-07-14T18:30:00.000Z	Mumbai	Science Fiction	<div>EditDelete</div>
9	Echoes from the Future	Cammacke	Ganny	1997-01-14T18:30:00.000Z	Mumbai	Science Fiction	<div>EditDelete</div>
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Items per page:

10

1 - 10 of 209

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Book Form

Book Name

Author

Borrower Name

Date Of Issue

Genre

City

Cancel

Save

Library Management System

Search

ADD BOOK

Book ID	Book Name	Author	Borrower Name	Date of Issue	City	Genre	Action
1	Whispers in the Night	Sarah Blackwood			Ahemdabad	Mystery	<div>EditDelete</div>
2	The Shadow of Suspicion	Alexander Dumas			Indore	Thriller	<div>EditDelete</div>
3	Deadly Echoes	Lisa Thompson			Jabalpur	Mystery	<div>EditDelete</div>
4	The Enchanted Forest	Gulliver's Travels			Mumbai	Fantasy	<div>EditDelete</div>
5	Echoes of Eternity	Walter Scott			Pune	Fantasy	<div>EditDelete</div>
6	Wanderlust: Chronicles of the Lost Realm	Lamartine			Bangalore	Fantasy	<div>EditDelete</div>
7	Whispers of Love	Statue of Liberty			Hyderabad	Romance	<div>EditDelete</div>
8	Beyond the Stars	Non-Fiction			Mumbai	Science Fiction	<div>EditDelete</div>
9	Echoes from the Future	Cartoon			Mumbai	Science Fiction	<div>EditDelete</div>
10	Echoes of Revolution	Farnish	William	1991-11-19T18:30:00.000Z	Bangalore	Historic Fiction	<div>EditDelete</div>

Items per page: 10

1 - 10 of 209

Book Form

Book Name

Whispers in the Night

Author

Sarah Blackwood

Borrower Name

Brinn

Date Of Issue

10/7/1981

MM/DD/YYYY

Genre

Mystery

In

Indore

Cancel