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. Genere
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.

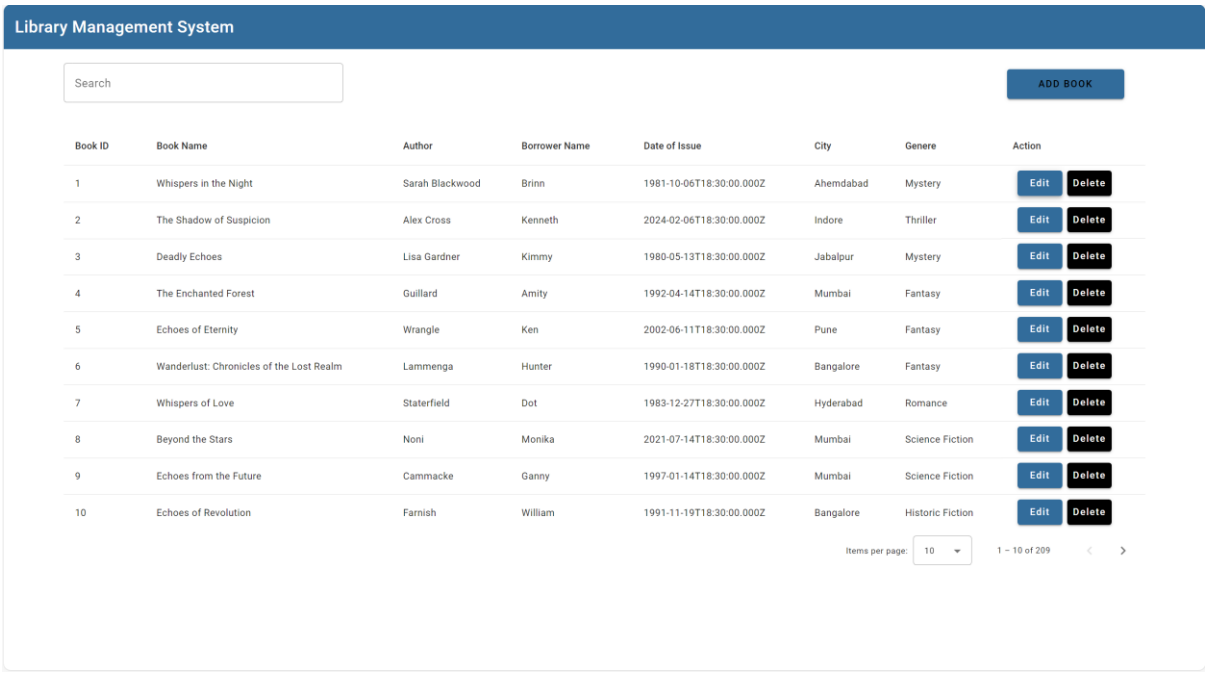
Nice To Have:

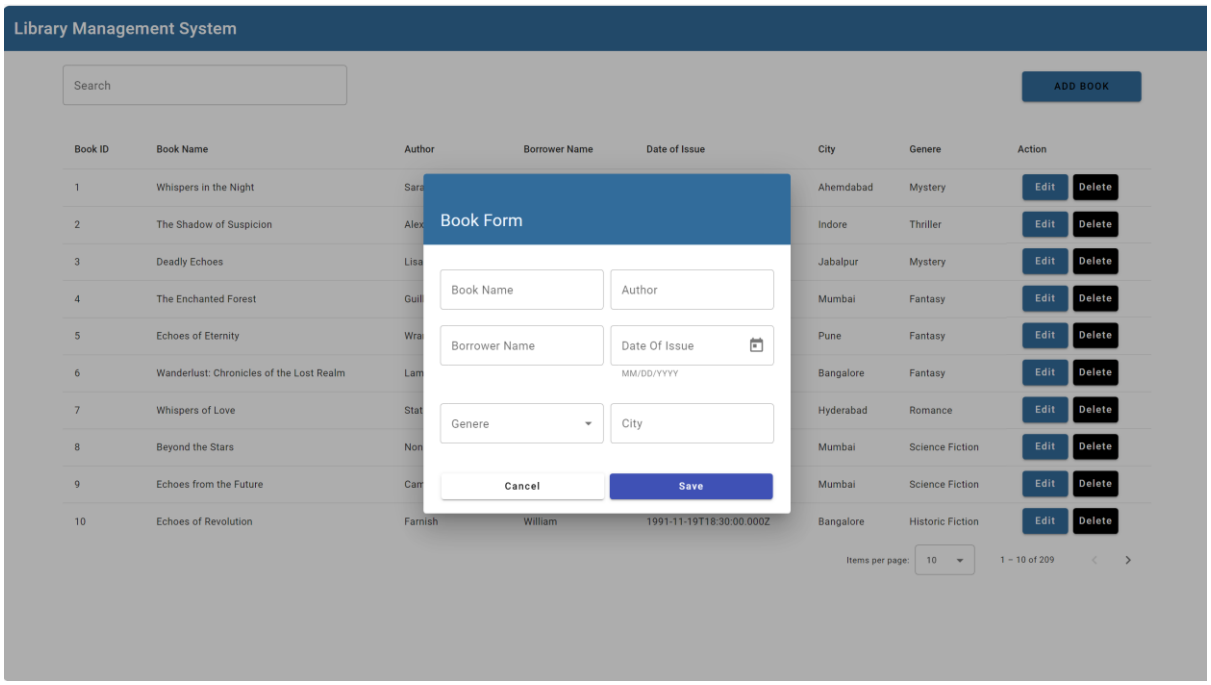
1. **City** field must be auto-suggest control. If user selects existing **Borrower**, then it should use its Id in the new/existing **Book** record while saving to database.
2. If user enters name that doesn't exist in the **Borrower** table, then on click of Save button, it should create a new **Borrower** 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

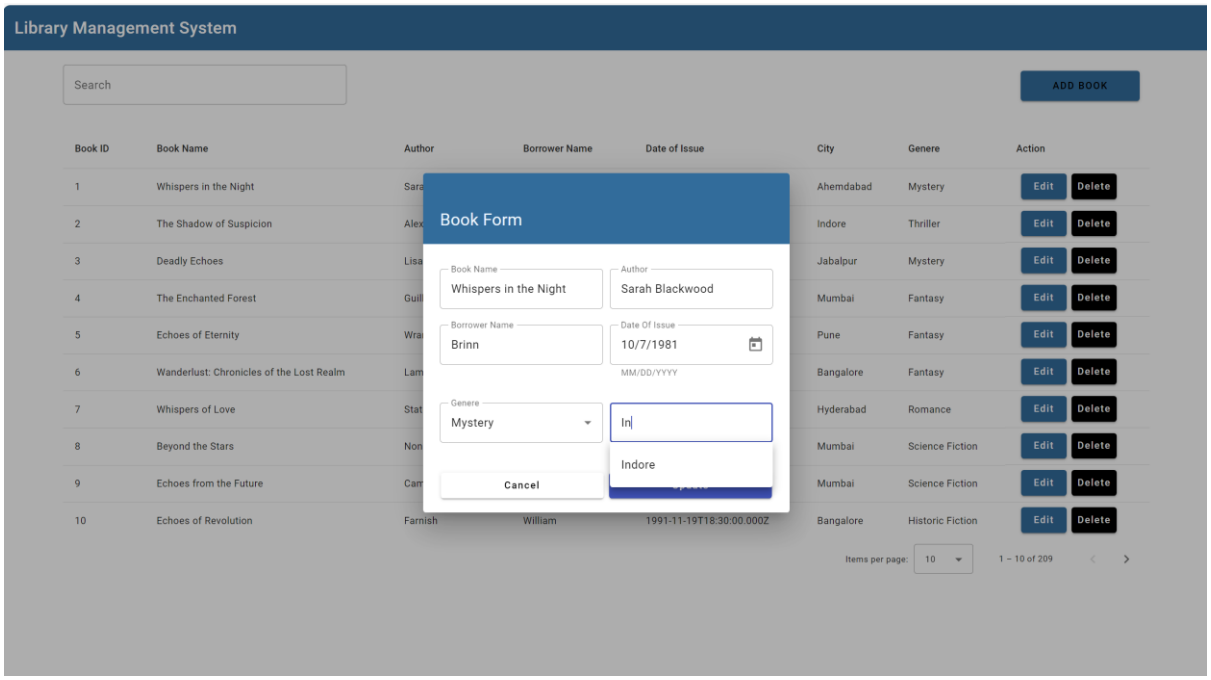
Note: Finish the task within the specified timeframe of 5 hours, from **1:30 PM to 6:30 PM**, and establish a new folder name **Assignment** within the same project repository in

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.

Feel free to make any decisions to implement this solution, you do not need to ask questions for clarification. If you can identify what is the best solution/answer, then you can go for it. For example, do I need to do the server-side validations? If you think yes then you should, if you do not think so then do not implement it. We do not want you asking unnecessary questions or less significant questions to coordinators.




Library Management System
Search
ADD BOOK
Book ID
Book Name
Author
Borrower Name
Date of Issue
City
Genere
Action
1 Whispers in the Night Ahemdabad Mystery Edit Delete
2 The Shadow of Suspicion Indore Thriller Edit Delete
3 Deadly Echoes Jabalpur Mystery Edit Delete
4 The Enchanted Forest Mumbai Fantasy Edit Delete
5 Echoes of Eternity Pune Fantasy Edit Delete
6 Wanderlust: Chronicles of the Lost Realm Bangalore Fantasy Edit Delete
7 Whispers of Love Hyderabad Romance Edit Delete
8 Beyond the Stars Mumbai Science Fiction Edit Delete
9 Echoes from the Future Mumbai Science Fiction Edit Delete
10 Echoes of Revolution Farnish William 1991-11-19T18:30:00.000Z Bangalore Historic Fiction Edit Delete
Book Form
Book Name
Author
Borrower Name
Date Of Issue
MM/DD/YYYY
Genere
City
Cancel
Save
Items per page: 10
1 – 10 of 209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10 Echoes of Revolution Farnish William 1991-11-19T18:30:00.000Z Bangalore Historic Fiction Edit Delete
Book Form
Book Name
Whispers in the Night
Author
Sarah Blackwood
Borrower Name
Brinn
Date Of Issue
10/7/1981
MM/DD/YYYY
Genere
Mystery
In
Indore
Cancel
Items per page: 10
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