**Project 1:**

**Book Inventory Management for Library**

The proposed system should provide a way to manage the inventory of books in a library. The complete system should be implemented using Express.js and the user interface will be rendered by a Jade (also known as Pug) Template Engine. **The data required for books should be managed in a JSON memory object (OR) in a JSON file**. The browser will not have any client side logic and will just display the view rendered by the server side application. To make the user interface better, Bootstrap or Material can be used.

Following operations should be supported and the user interface required for the below operations will be maintained in a Jade/Pug file.

1. View Books
2. Add Book
3. Update Book
4. Delete Book

**View Books**

* The list of books available should be displayed.
* Buttons should be displayed next to each book to allow for update or delete of a book.

**Add Book**

While adding the book, the following input details should be accepted.

* Name
* Author
* Publisher
* Date of publication
* Price
* Type (A list of types should be displayed for user to select)

[Assume the list of types to be – Fiction, Detective, Moral, Economics, Politics]

**Update Book**

When the list of books are displayed, one book can be selected to update at a time. Name, Author, Publisher, Date of publication, Price and Type should be allowed to be updated.

**Note:** Book ID should be used as the key to look for Book details and it cannot be modified.

**Delete Book**

When the list of books are displayed, one or more books can be selected to delete at a time.

**OR**

**Project 2:**

**Feedback Application**

**Project Description:** Feedback Application is used for viewing and for providing feedback for trainings.

This application should have the following features:-

1. Unregistered users will be able to register.
2. Registered users will be required to login to give feedback.
3. View option to see feedback for a specific training or all trainings. A user is not required to login to read the feedback.
4. List of trainings for which the user is supposed to give feedback is stored in MongoDB. Each training has details about trainer, skill, level.
5. User can see the list of trainings for which he is yet to give feedback and can choose the training for which he wants to give feedback.
6. While giving the feedback, user need to choose the star rating and give feedback which can be up to 100 characters.
7. Application uses MongoDB to store authentication details (username, password, email) and user feedbacks
8. User session is maintained once a user login
9. Application uses Express framework
10. User can logout after giving feedback