ICP – 7

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ICP7
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Partner Repository : https://github.com/UMKC-APL-WebMobileProgramming/ICP7-YAbhinay
Source Code Link : https://github.com/UMKC-APL-WebMobileProgramming/ICP7-YAbhinay/tree/main/Source/LibraryManagementSystem

My report, video and source code links:
ICP7 video: https://drive.google.com/file/d/1Ex-Xrs00usvNJw9MATB7hclO9iEhxeE-/view?usp=sharing
ICP7 Repository : https://github.com/UMKC-APL-WebMobileProgramming/ICP7-AnilkumarreddyNandikonda

ICP7 source codelink: https://github.com/UMKC-APL-WebMobileProgramming/ICP7-AnilkumarreddyNandikonda/tree/main/Source/LibraryManagementSystem

Lesson Overview:
In this lesson, we are going to discuss MongoDB, Express.js, NodeJS, and MEAN stack.

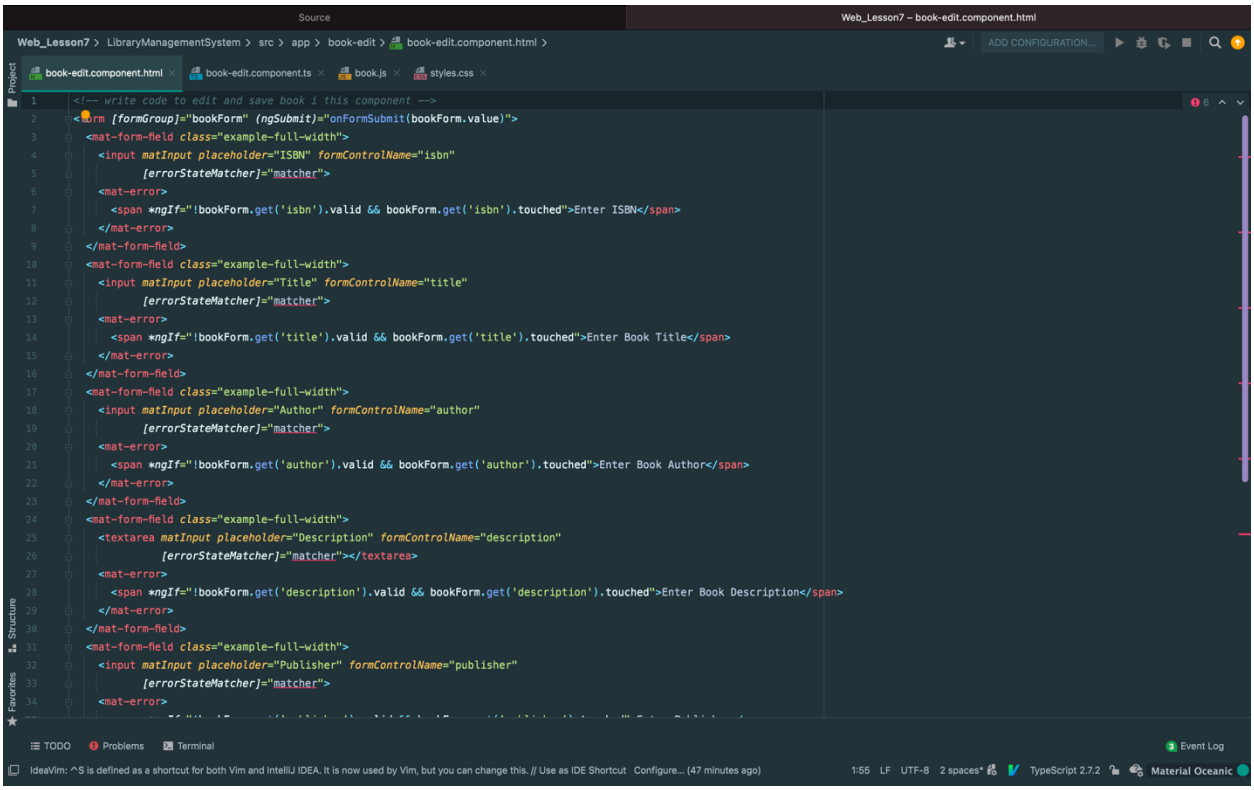
Programming elements:
MongoDB, Express.js, Node.js, and MEAN stack

In Class Programming (ICP):

In the above use case, implement update and delete functionality (user should be able to update the book details and delete the book from the database).

Initially, Update functions as follows:

Adjust HTML page where it gets the data from the database



The update values should be setup in the database

```
/* UPDATE BOOK */
router.put( path: '/:id',  handlers: function (req : Request<P, ResBody, ReqBody, ReqQuery, Locals> , res : Response<ResBody, Locals> , next : NextFunction ) {
  console.log("body----------",req.body);
  var myquery = {_id: req.params.id};
  var newvalues = { $set: req.body };
  Book.updateOne(myquery, newvalues, function (err, post) {
    if (err)  {console.error(err);return next(err)}
    res.json(post);
  });

});
```

The delete function steps should be as followed :

```
/* DELETE BOOK */
router.delete( path: '/:id',  handlers: function (req : Request<P, ResBody, ReqBody, ReqQuery, Locals> , res : Response<ResBody, Locals> , next : NextFunction ) {
  console.log("entered");
  var myquery = { _id: req.params.id};
  Book.deleteOne(myquery, function (err, post) {
    if (err)  {console.error(err);return next(err)}
    res.json(post);
  });
});

module.exports = router;
```

Typescript file for book edit:

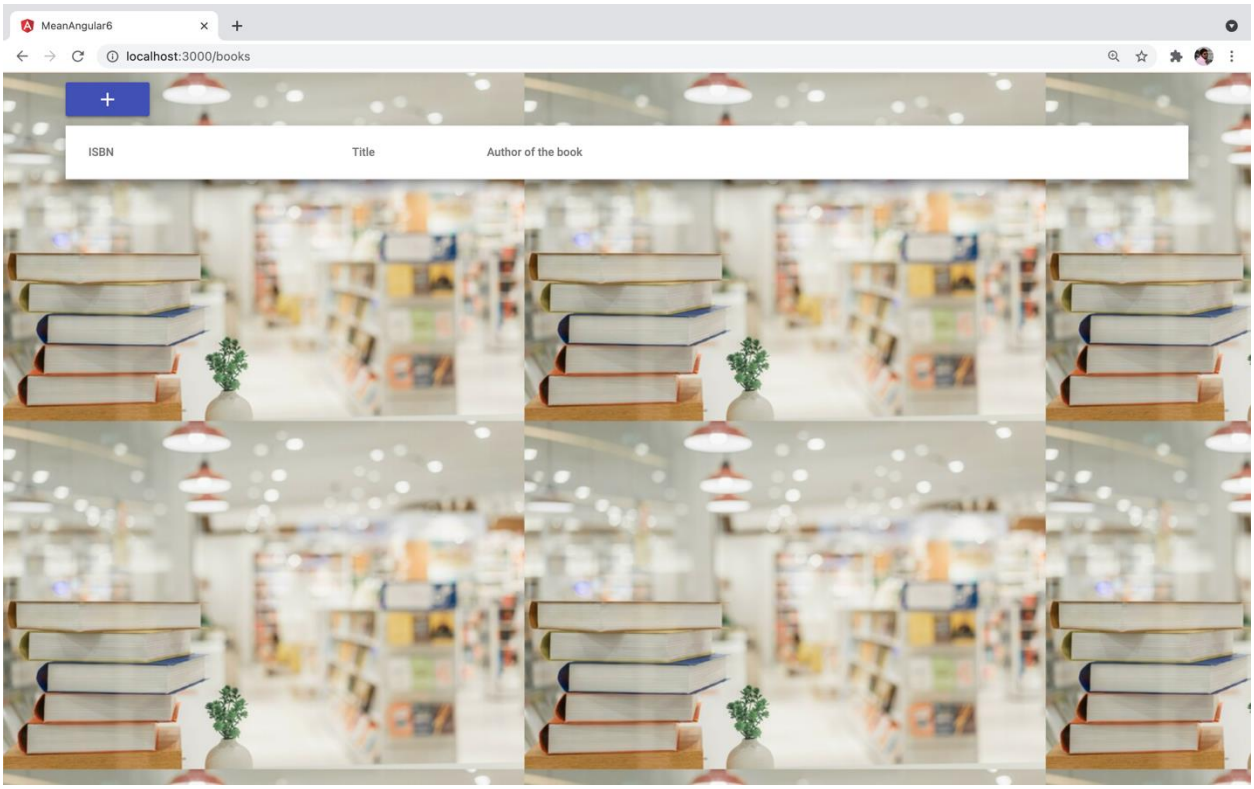
```
styles.css | book.js | book-edit.component.html | book-edit.component.ts
ngOnInit() {

  this.bookForm = this.formBuilder.group( controlsConfig: {
    'isbn': '',
    'title': '',
    'description': '',
    'author': '',
    'publisher': '',
    'published_year': ''
  });
  this.api.getBook(this.route.snapshot.params['id'])

    .subscribe( next: data => {

      console.log(data.isbn);
      this.bookForm = this.formBuilder.group( controlsConfig: {
        'isbn': data.isbn,
        'title': data.title,
        'description': data.description,
        'author': data.author,
        'publisher': data.publisher,
        'published_year': data.published_year
      });
    });
}
onFormSubmit(form: NgForm) {
  this.api.updateBook(this.route.snapshot.params['id'], form)
    .subscribe( next: res => {
      let id = this.route.snapshot.params['id'];
      this.router.navigate( commands: ['/book-details', id]);
    },  error: (err) => {
      console.log(err);
    });
```

Included the background image for the webpage:

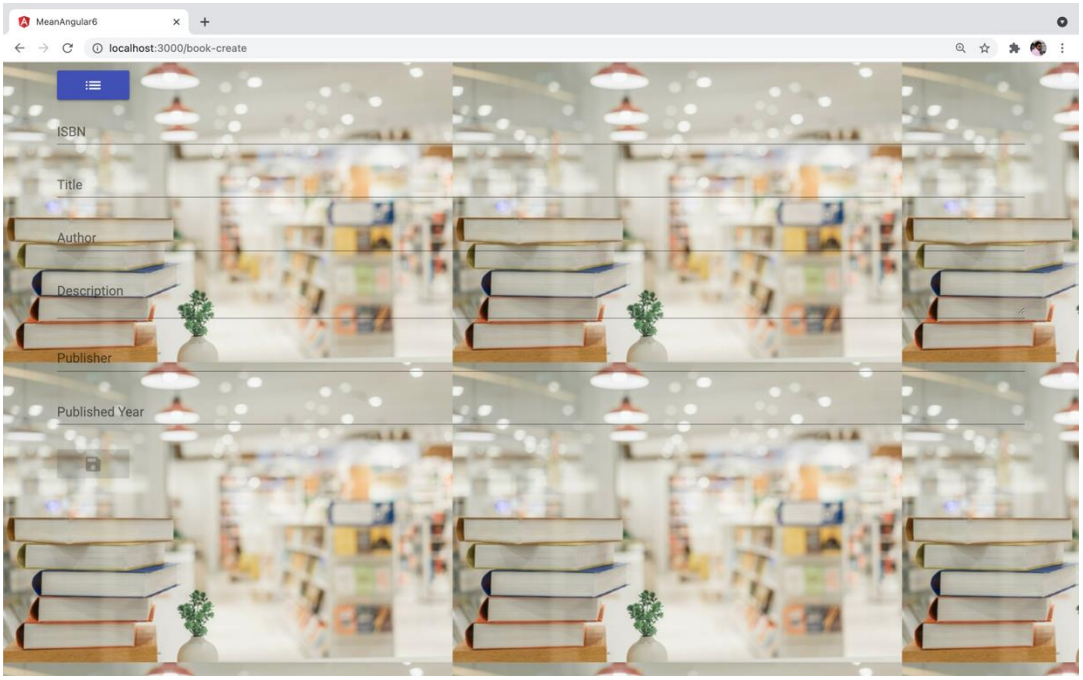
```
book-edit.component.html | styles.css | book.js | book-edit.component.ts
/* You can add global styles to this file, and also import other style files */

body {
  margin: 0 5%;
  background-image: url("https://www.nlls.ab.ca/public/uploads/snippets/bookstacklibraryroomblurredbookshelfbackground/1611590473-550w_36
}
```

OUTPUT:

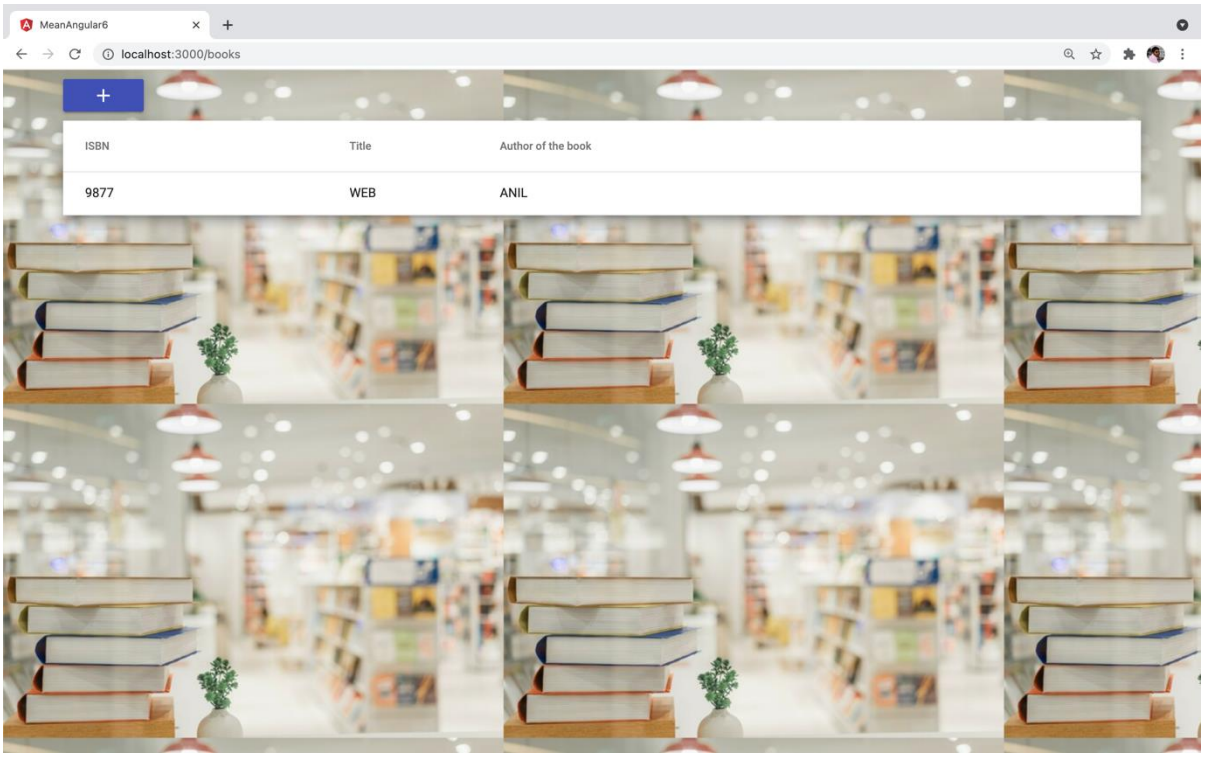
Welcome page of the website



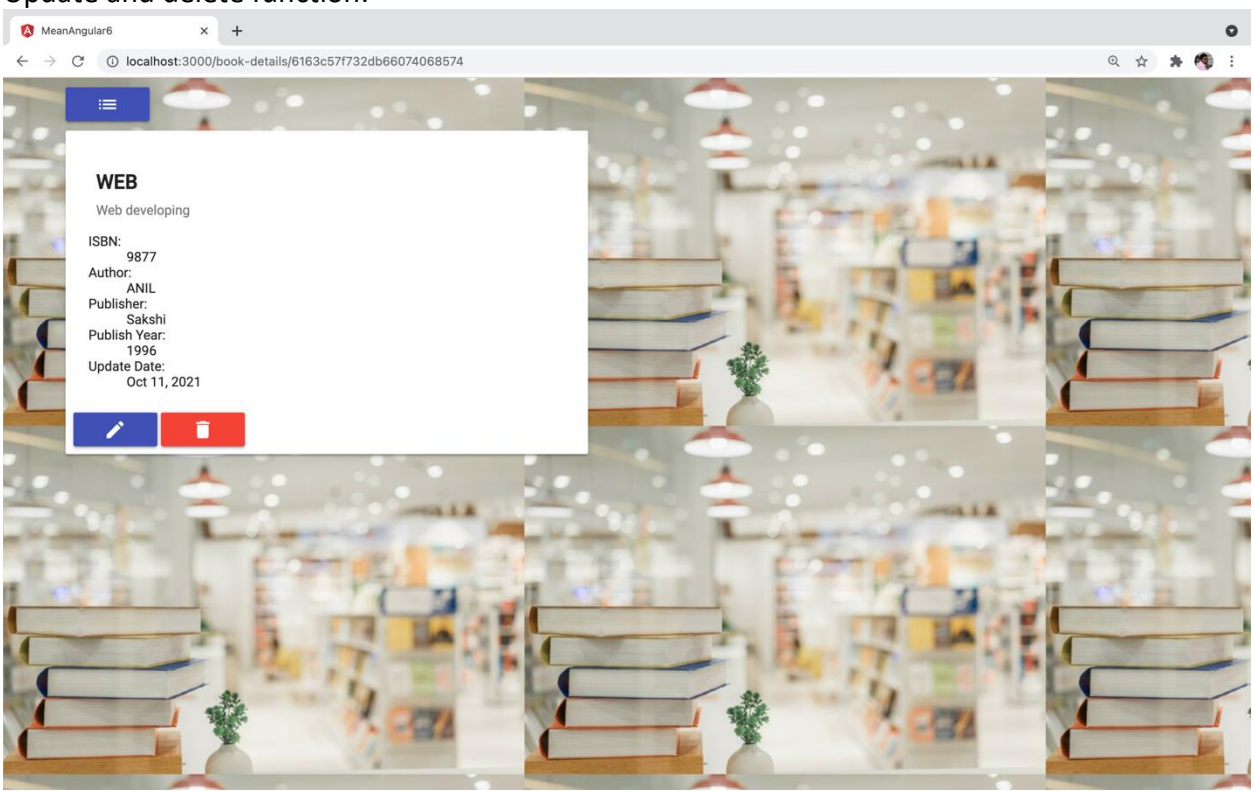
Insert book details:



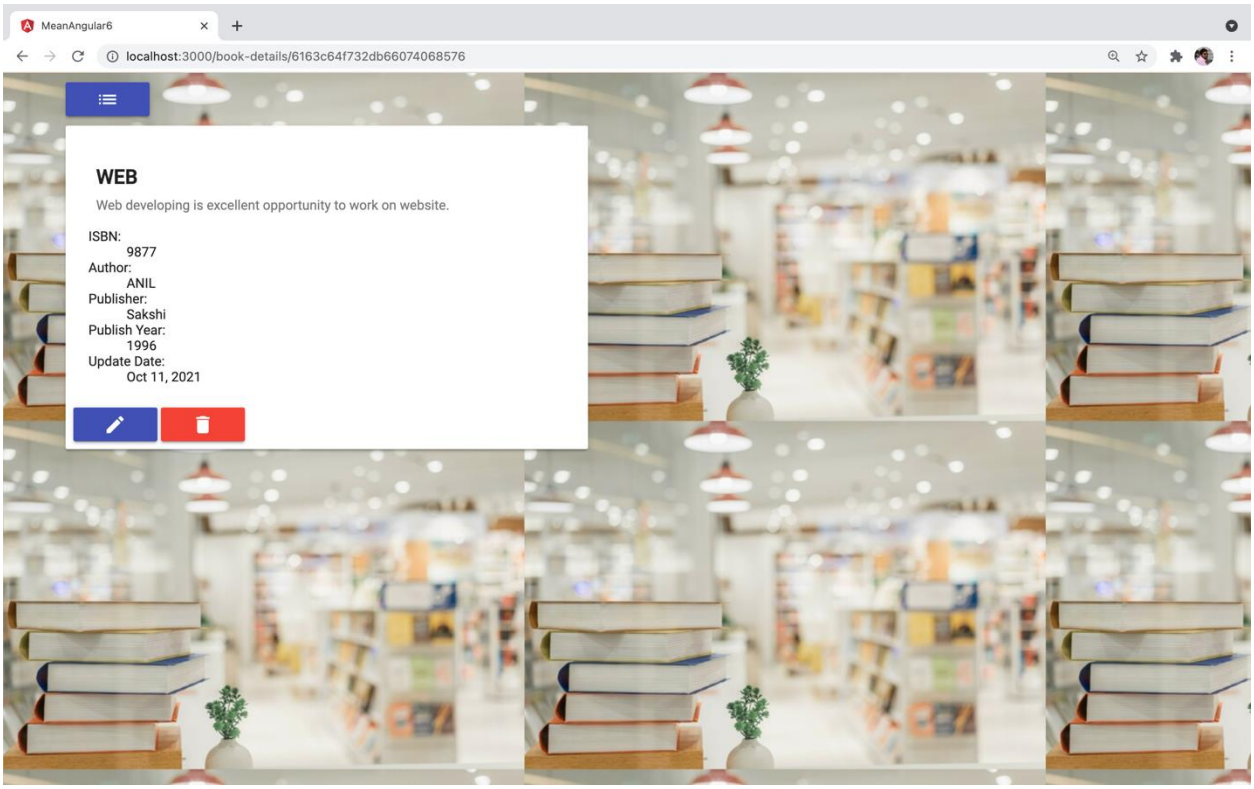
List of the books:



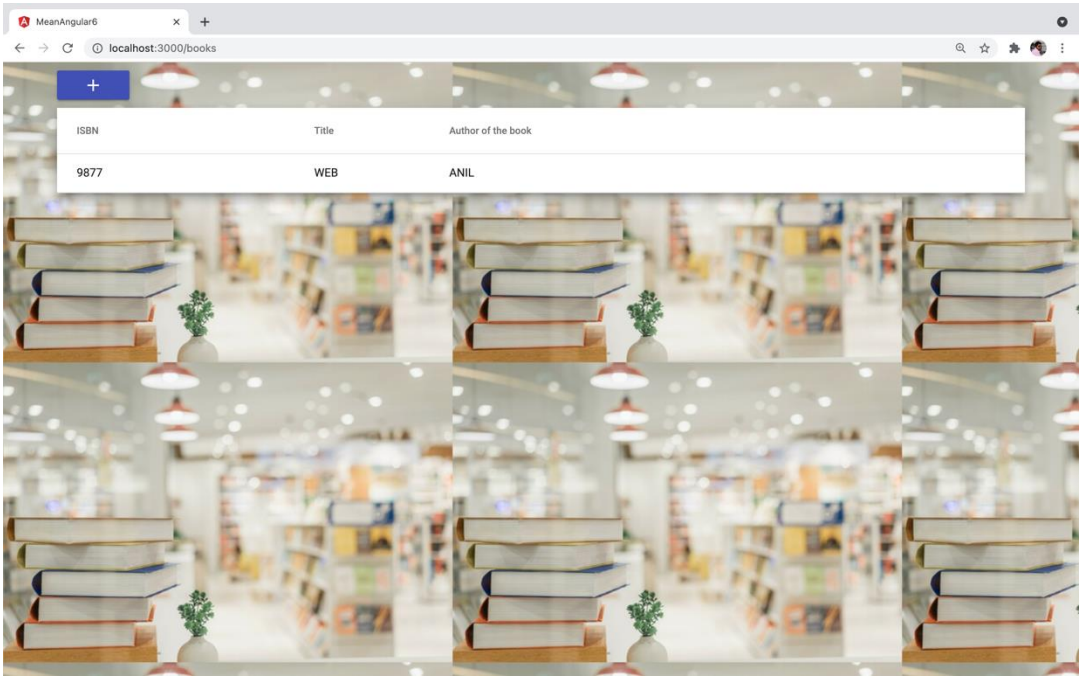
Update and delete function:



After updating details:



After deletion one of the books from list:



Records in MongoDB: