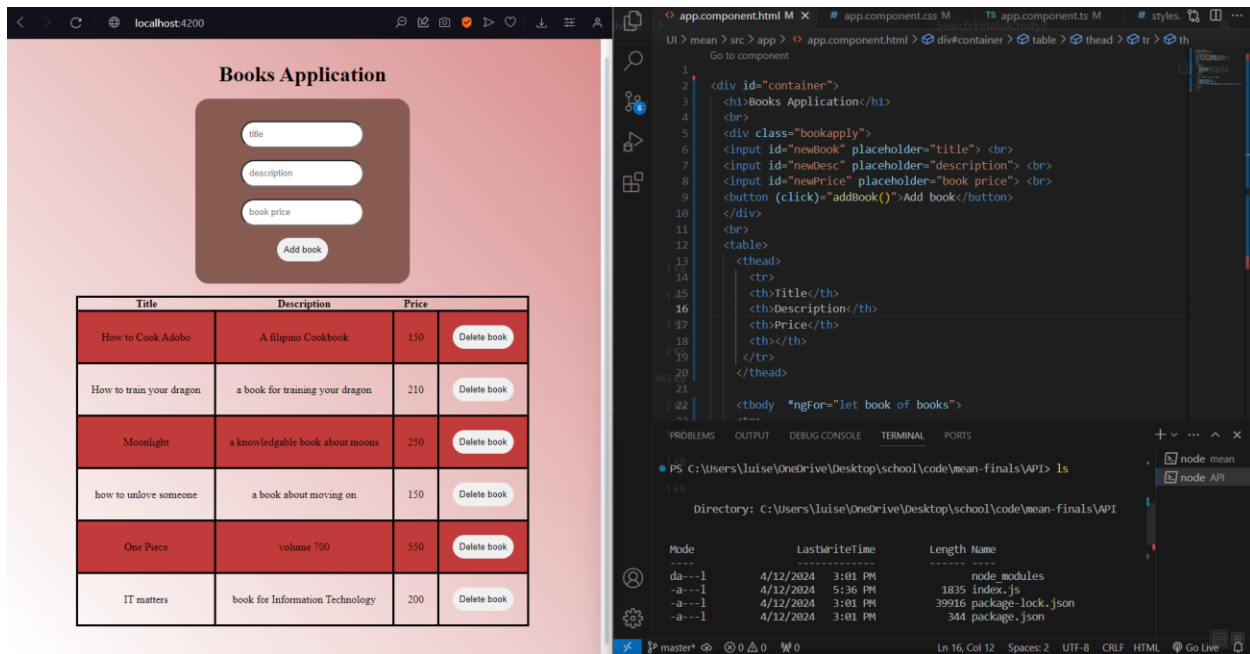


HTML CODE:



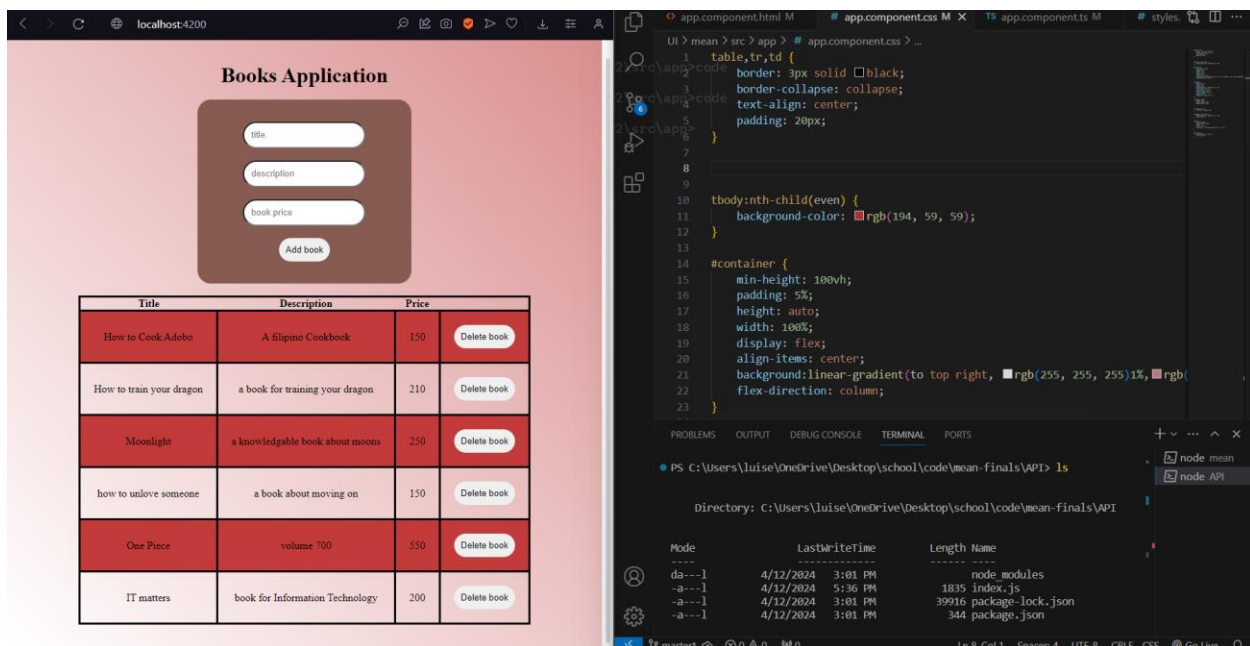
The screenshot shows a web browser at localhost:4200 displaying the 'Books Application'. The application has a form to add a new book with fields for title, description, and price, and an 'Add book' button. Below the form is a table listing books with columns for Title, Description, Price, and a 'Delete book' button. The table contains six rows of book data.

Title	Description	Price	
How to Cook Adobo	A Filipino Cookbook	150	Delete book
How to train your dragon	a book for training your dragon	210	Delete book
Moonlight	a knowledgeable book about moons	250	Delete book
how to unlove someone	a book about moving on	150	Delete book
One Piece	volume 700	550	Delete book
IT matters	book for Information Technology	200	Delete book

The HTML code in VS Code shows the structure of the application, including the form and the table.

```
1 <div id="container">
2   <h1>Books Application</h1>
3   <br>
4   <div class="bookapply">
5     <input id="newBook" placeholder="title"> <br>
6     <input id="newDesc" placeholder="description"> <br>
7     <input id="newPrice" placeholder="book price"> <br>
8     <button (click)="addBook()">Add book</button>
9   </div>
10  <br>
11  <table>
12    <thead>
13      <tr>
14        <th>Title</th>
15        <th>Description</th>
16        <th>Price</th>
17        <th></th>
18      </tr>
19    </thead>
20    <tbody *ngFor="let book of books">
```

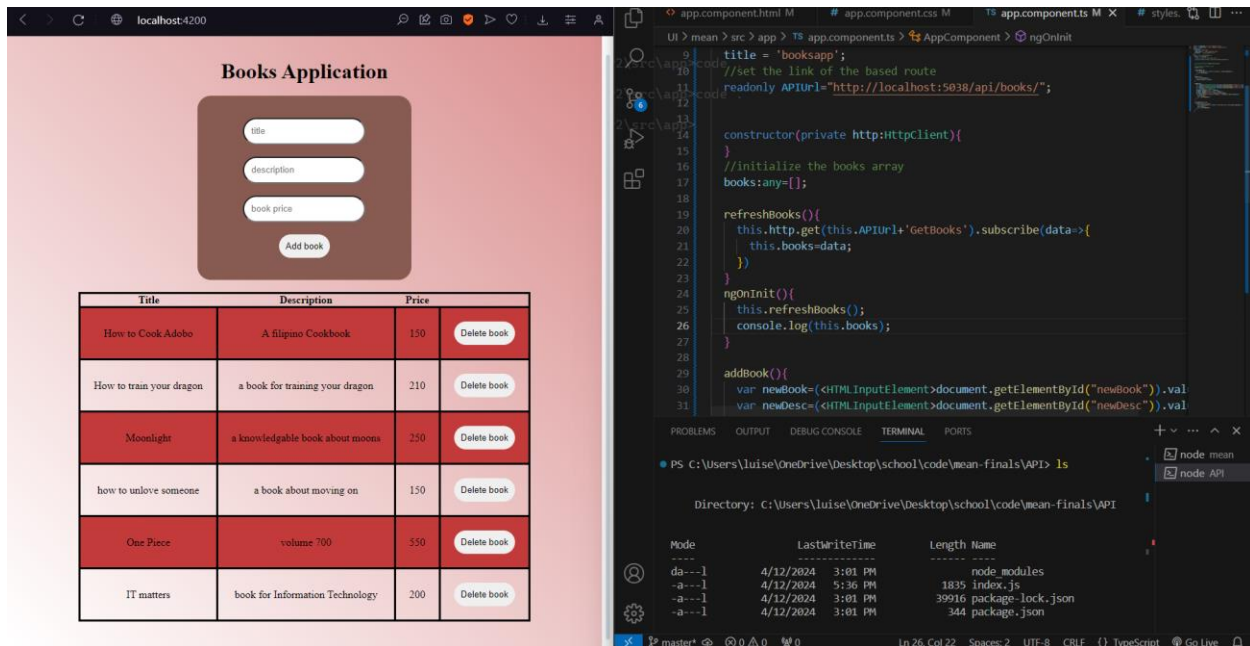
CSS CODE:



The screenshot shows the same web browser view of the 'Books Application' as above. The CSS code in VS Code defines the styling for the application, including the form, the table, and the container.

```
1 table, tr, td {
2   border: 3px solid black;
3   border-collapse: collapse;
4   text-align: center;
5   padding: 20px;
6 }
7
8
9
10 tbody:nth-child(even) {
11   background-color: #f2f2f2;
12 }
13
14 #container {
15   min-height: 100vh;
16   padding: 5%;
17   height: auto;
18   width: 100%;
19   display: flex;
20   align-items: center;
21   background: linear-gradient(to top right, #f2f2f2 1%, #f2f2f2 1%, #f2f2f2 1%, #f2f2f2 1%);
22   flex-direction: column;
23 }
```

Ts code:



The screenshot shows a web browser on the left displaying the 'Books Application' and a VS Code editor on the right showing the TypeScript code for the application.

Books Application (Web Browser):

The application has a form with three input fields: 'title', 'description', and 'book price', and an 'Add book' button. Below the form is a table listing books.

Title	Description	Price	
How to Cook Adobo	A Filipino Cookbook	150	Delete book
How to train your dragon	a book for training your dragon	210	Delete book
Moonlight	a knowledgeable book about moons	250	Delete book
how to unlove someone	a book about moving on	150	Delete book
One Piece	volume 700	350	Delete book
IT matters	book for Information Technology	200	Delete book

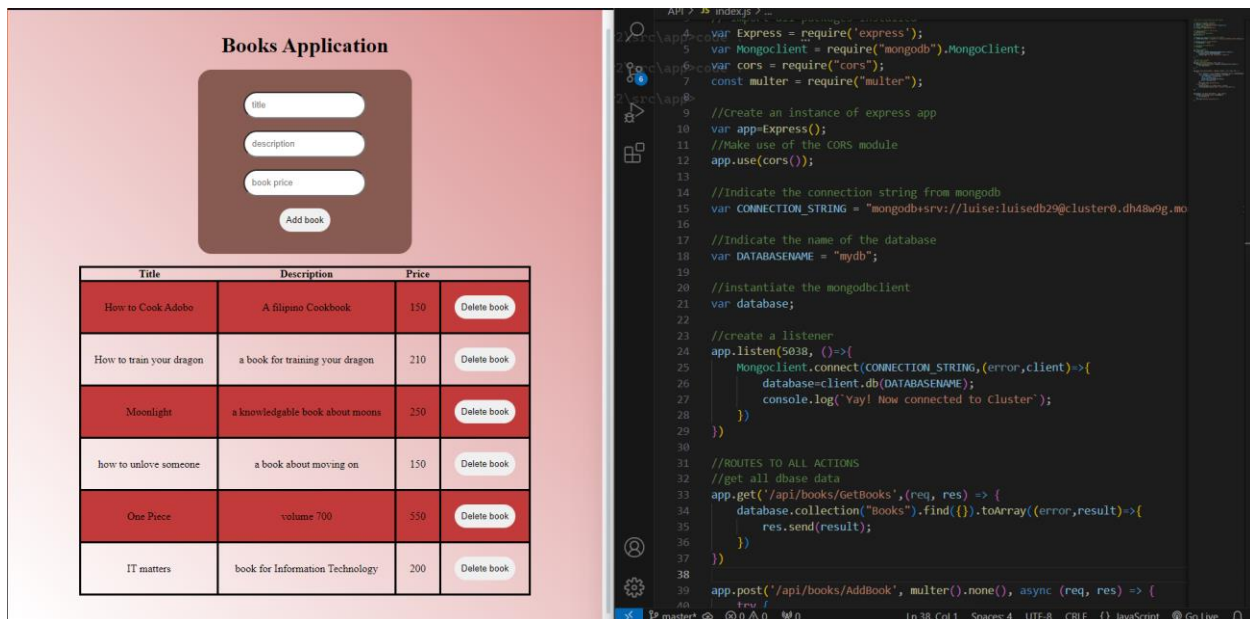
VS Code Editor (TypeScript Code):

```

9 | title = 'booksapp';
10 | //set the link of the based route
11 | readonly APIUrl = "http://localhost:5038/api/books/";
12 |
13 |
14 | constructor(private http:HttpClient){
15 | }
16 | //initialize the books array
17 | books:any=[];
18 |
19 | refreshBooks(){
20 |   this.http.get(this.APIUrl+'GetBooks').subscribe(data=>{
21 |     this.books=data;
22 |   })
23 | }
24 | ngOnInit(){
25 |   this.refreshBooks();
26 |   console.log(this.books);
27 | }
28 |
29 | addBook(){
30 |   var newBook=<HTMLInputElement>document.getElementById("newBook").val
31 |   var newDesc=<HTMLInputElement>document.getElementById("newDesc").val
  
```

The terminal shows the command to run the application: `node mean` and the directory: `C:\Users\luise\OneDrive\Desktop\school\code\mean-finals\API`.

Index.js Code:



The screenshot shows a web browser on the left displaying the 'Books Application' and a VS Code editor on the right showing the JavaScript code for the application.

Books Application (Web Browser):

The application has a form with three input fields: 'title', 'description', and 'book price', and an 'Add book' button. Below the form is a table listing books.

Title	Description	Price	
How to Cook Adobo	A Filipino Cookbook	150	Delete book
How to train your dragon	a book for training your dragon	210	Delete book
Moonlight	a knowledgeable book about moons	250	Delete book
how to unlove someone	a book about moving on	150	Delete book
One Piece	volume 700	350	Delete book
IT matters	book for Information Technology	200	Delete book

VS Code Editor (JavaScript Code):

```

2 | // Create an instance of express
3 | var Express = require('express');
4 | var MongoClient = require('mongodb').MongoClient;
5 | var cors = require('cors');
6 | const multer = require("multer");
7 |
8 | //Create an instance of express app
9 | var app=Express();
10 | //Make use of the CORS module
11 | app.use(cors());
12 |
13 | //Indicate the connection string from mongodb
14 | var CONNECTION_STRING = "mongodb+srv://luise:luisedb29@cluster0.dh4m9g.mongodb.net/?retryWrites=true&w=majority";
15 |
16 | //Indicate the name of the database
17 | var DATABASENAME = "mydb";
18 |
19 | //Instantiate the mongodbclient
20 | var database;
21 |
22 | //create a listener
23 | app.listen(5038, ()=>{
24 |   MongoClient.connect(CONNECTION_STRING,(error,client)->{
25 |     database=client.db(DATABASENAME);
26 |     console.log("Yay! Now connected to Cluster");
27 |   })
28 | })
29 |
30 | //ROUTES TO ALL ACTIONS
31 | //get all dbase data
32 | app.get('/api/books/GetBooks',(req, res) => {
33 |   database.collection("Books").find().toArray((error,result)->{
34 |     res.send(result);
35 |   })
36 | })
37 |
38 | app.post('/api/books/AddBook', multer().none(), async (req, res) => {
39 |   //
40 |   //
  
```

Cluster 0 of MongoDB:

Atlas

Luise Gian's ...

Access Manager

Billing

All ClustersGet HelpLuise Gian

Project 0

Data Services

App Services

Charts

Overview

DEPLOYMENT

Database

Data Lake

SERVICES

Device Sync

Triggers

Data API

Data Federation

Atlas Search

Stream Processing

Migration

SECURITY

Quickstart

Backup

Database Access

Network Access

Advanced

Search Namespaces

mydb

Books

sample_mflix

STORAGE SIZE: 36KB

LOGICAL DATA SIZE: 676B

TOTAL DOCUMENTS: 6

INDEXES TOTAL SIZE: 36KB

Find

Indexes

Schema Anti-Patterns

Aggregation

Search Indexes

INSERT DOCUMENT

FilterType a query: { field: 'value' }ResetApplyOptions

_id: ObjectId('66172dfaf2bbc85280f018ae')

id: 5

title: "One Piece"

description: "volume 700"

price: 550

_id: ObjectId('661a1577782826faec1025eb')

id: 6

title: "this is the newest book"

description: "A new book by Luise Yambao"

price: "2300.00"

System Status: All Good

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Books Application

this is the newest book

A new book by Luise Yambao

2300

Add book

Title	Description	Price	
How to Cook Adobo	A filipino Cookbook	150	Delete book
How to train your dragon	a book for training your dragon	210	Delete book
Moonlight	a knowledgeable book about moons	250	Delete book
how to unlove someone	a book about moving on	150	Delete book
One Piece	volume 700	550	Delete book
this is the newest book	A new book by Luise Yambao	2300.00	Delete book