

DIGITAL ASSINGMENT 1 BOOK COLLECTION WEB APPLICATION

WEB TECHNOLOGIES-ITE1002

Submitted to

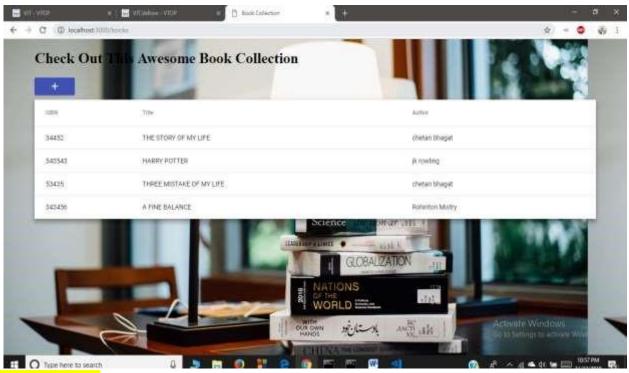
MAREESWARI V

submitted by

AKASH KUMAR(17BIT0055)

Output:

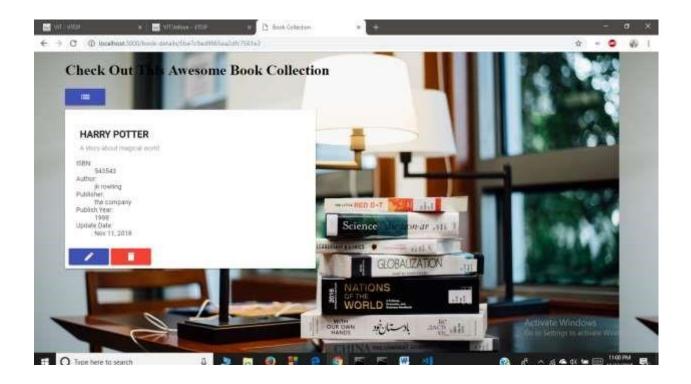
Book collection



Book-create



Book-details



Frontend codes:

Html, css and angular code:

1.Book collection

Html:

```
<div class="button-row">
    <a mat-raised-button color="primary" [routerLink]="['/book-
create']"><maticon>add</mat-icon></a>
</div>
<div class="example-container mat-elevation-z8">

        <!-- Title Column -->
        <ng-container matColumnDef="isbn">
              ISBN 
         {{element.isbn}} 

        </ng-container>
        <!-- Title Column -->
        <ng-container matColumnDef="title">
               Title
```

```
.example-container {
display: flex; flex-
direction: column; max-
height: 500px; min-width:
300px; overflow: auto;
}
.isbn-col { flex: 0 0 100px
!important; white-space:
unset !important;
}
.button-row {
margin: 10px 0;
}
```

2.Book-create

Html:

```
<div class="button-row">
    <a mat-raised-button color="primary" [routerLink]="['/books']"><maticon>list</mat-
icon></a>
</div>
```

```
<form [formGroup]="bookForm" (ngSubmit)="onFormSubmit(bookForm.value)">
  <mat-form-field class="example-full-width">
    <input matInput placeholder="ISBN" formControlName="isbn"</pre>
           [errorStateMatcher]="matcher">
    <mat-error>
      <span *ngIf="!bookForm.get('isbn').valid && bookForm.get('isbn').touched">Please
enter ISBN</span>
   </mat-error>
  </mat-form-field>
  <mat-form-field class="example-full-width">
    <input matInput placeholder="Title" formControlName="title"</pre>
           [errorStateMatcher]="matcher">
    <mat-error>
      <span *ngIf="!bookForm.get('title').valid &&</pre>
bookForm.get('title').touched">Please enter Book Title
    </mat-error>
  </mat-form-field>
  <mat-form-field class="example-full-width">
    <input matInput placeholder="Author" formControlName="author"</pre>
           [errorStateMatcher]="matcher">
    <mat-error>
      <span *ngIf="!bookForm.get('author').valid &&</pre>
bookForm.get('author').touched">Please enter Book Author</span>
    </mat-error>
  </mat-form-field>
  <mat-form-field class="example-full-width">
    <textarea matInput placeholder="Description" formControlName="description"</pre>
           [errorStateMatcher]="matcher"></textarea>
    <mat-error>
      <span *ngIf="!bookForm.get('description').valid &&</pre>
bookForm.get('description').touched">Please enter Book Description
    </mat-error>
  </mat-form-field>
  <mat-form-field class="example-full-width">
    <input matInput placeholder="Publisher" formControlName="publisher"</pre>
           [errorStateMatcher]="matcher">
    <mat-error>
      <span *ngIf="!bookForm.get('publisher').valid &&</pre>
bookForm.get('publisher').touched">Please enter Publisher</span> </mat-error>
  </mat-form-field>
  <mat-form-field class="example-full-width">
    <input matInput placeholder="Published Year" formControlName="published_year"</pre>
           [errorStateMatcher]="matcher">
    <mat-error>
      <span *ngIf="!bookForm.get('published year').valid &&</pre>
bookForm.get('published_year').touched">Please enter Published Year</span>
```

```
.example-form { min-
width: 150px; max-width:
500px; width: 100%;
}

.example-full-width {
width: 100%;
}

.example-full-width:nth-last-child() { margin-
bottom: 10px;
}

.button-row {
margin: 10px 0;
}
```

3.Book detail Html:

<div class="button-row">

```
<a mat-raised-button color="primary"</pre>
[routerLink]="['/books']"><maticon>list</mat-icon></a></a>
</div>
<mat-card class="example-card">
  <mat-card-header>
    <mat-card-title><h2>{{book.title}}</h2></mat-card-title>
    <mat-card-subtitle>{{book.description}}</mat-card-subtitle>
  </mat-card-header>
  <mat-card-content>
<d1>
      <dt>ISBN:</dt>
      <dd>{{book.isbn}}</dd>
      <dt>Author:</dt>
      <dd>{{book.author}}</dd>
      <dt>Publisher:</dt>
      <dd>{{book.publisher}}</dd>
      <dt>Publish Year:</dt>
      <dd>{{book.published year}}</dd>
      <dt>Update Date:</dt>
      <dd>{{book.updated date | date}}</dd>
    </dl>
  </mat-card-content>
  <mat-card-actions>
    <a mat-raised-button color="primary" [routerLink]="['/book-edit',</pre>
book. id]"><mat-icon>edit</mat-icon></a>
    <a mat-raised-button color="warn"</pre>
(click)="deleteBook(book._id)"><maticon>delete</mat-icon></a>
  </mat-card-actions>
</mat-card>
```

```
.example-card { max-width: 500px;
}
.button-row { margin: 10px 0; }
```

4.Book edit Html:

```
<div class="button-row">
    <a mat-raised-button color="primary" (click)="bookDetails()"><maticon>show</mat-
icon></a>
</div>
<form [formGroup]="bookForm" (ngSubmit)="onFormSubmit(bookForm.value)">
```

```
<mat-form-field class="example-full-width">
    <input matInput placeholder="ISBN" formControlName="isbn"</pre>
           [errorStateMatcher]="matcher">
    <mat-error>
      <span *ngIf="!bookForm.get('isbn').valid && bookForm.get('isbn').touched">Please
enter ISBN</span>
    </mat-error>
  </mat-form-field>
  <mat-form-field class="example-full-width">
    <input matInput placeholder="Title" formControlName="title"</pre>
           [errorStateMatcher]="matcher">
    <mat-error>
      <span *ngIf="!bookForm.get('title').valid &&</pre>
bookForm.get('title').touched">Please enter Book Title
    </mat-error>
  </mat-form-field>
  <mat-form-field class="example-full-width">
    <input matInput placeholder="Author" formControlName="author"</pre>
           [errorStateMatcher]="matcher">
    <mat-error>
      <span *ngIf="!bookForm.get('author').valid &&</pre>
bookForm.get('author').touched">Please enter Book Author
    </mat-error>
  </mat-form-field>
  <mat-form-field class="example-full-width">
    <textarea matInput placeholder="Description" formControlName="description"</pre>
           [errorStateMatcher]="matcher"></textarea>
    <mat-error>
      <span *ngIf="!bookForm.get('description').valid &&</pre>
bookForm.get('description').touched">Please enter Book Description</span>
    </mat-error>
  </mat-form-field>
  <mat-form-field class="example-full-width">
    <input matInput placeholder="Publisher" formControlName="publisher"</pre>
           [errorStateMatcher]="matcher">
    <mat-error>
      <span *ngIf="!bookForm.get('publisher').valid &&</pre>
bookForm.get('publisher').touched">Please enter Publisher</span> </mat-error>
  </mat-form-field>
  <mat-form-field class="example-full-width">
    <input matInput placeholder="Published Year" formControlName="published_year"</pre>
           [errorStateMatcher]="matcher">
      <span *ngIf="!bookForm.get('published_year').valid &&</pre>
bookForm.get('published_year').touched">Please enter Published Year</span>
    </mat-error>
```

```
</mat-form-field>
  <div class="button-row">
        <button type="submit" [disabled]="!bookForm.valid" mat-raised-button
color="primary"><mat-icon>save</mat-icon></button>
        </div>
</form>
```

```
.example-form { min-
width: 150px; max-width:
500px; width: 100%;
}
.example-full-width {
width: 100%;
}
.example-full-width:nth-last-child() { margin-
bottom: 10px;
}
.button-row {
margin: 10px 0;
}
```

5.main Index .html : link all page togetter

BACKEND CODE:

Node js code:

1.App.js

```
var createError = require('http-
errors'); var express =
require('express'); var path =
require('path'); var favicon =
require('serve-favicon'); var logger =
require('morgan');
var mongoose =
require('mongoose');
```

```
mongoose.connect('mongodb://localhost/mean-angular6')
  .then(() => console.log('connection succesful now go to broswer'))
  .catch((err) => console.error(err));
 var apiRouter =
require('./routes/book');
 var app =
express();
app.use(logger('dev')); app.use(express.json());
app.use(express.urlencoded({ extended: false }));
app.use(express.static(path.join(__dirname, 'dist/mean-angular6')));
app.use('/books', express.static(path.join( dirname, 'dist/mean-
angular6'))); app.use('/book-details/:id',
express.static(path.join(__dirname, 'dist/meanangular6'))); app.use('/book-
create', express.static(path.join( dirname, 'dist/meanangular6')));
app.use('/book-edit/:id', express.static(path.join(__dirname,
'dist/meanangular6'))); app.use('/api', apiRouter);
// catch 404 and forward to error handler
app.use(function(req, res, next) {
next(createError(404));
});
// error handler app.use(function(err,
req, res, next) {
 // set locals, only providing error in development
res.locals.message = err.message; res.locals.error =
req.app.get('env') === 'development' ? err : {};
 // render the error page
res.status(err.status | 500);
res.send(err.status);
});
module.exports = app;
```

2. route.js

```
var express = require('express'); var
router = express.Router(); var mongoose
= require('mongoose'); var Book =
require('../models/Book.js');
/* GET ALL BOOKS */
router.get('/', function(req, res, next)
{ Book.find(function (err, products) {
if (err) return next(err);
res.json(products);
 });
});
/* GET SINGLE BOOK BY ID */
router.get('/:id', function(req, res, next) {
 Book.findById(req.params.id, function (err, post)
{ if (err) return next(err); res.json(post);
 });
});
/* SAVE BOOK */
router.post('/', function(req, res, next) {
Book.create(req.body, function (err, post) {
if (err) return next(err);
res.json(post);
 });
});
/* UPDATE BOOK */
router.put('/:id', function(req, res, next) {
 Book.findByIdAndUpdate(req.params.id, req.body, function (err, post)
     if (err) return next(err); res.json(post);
 });
});
/* DELETE BOOK */
router.delete('/:id', function(req, res, next) {
  Book.findByIdAndRemove(reg.params.id, reg.body, function (err, post)
     if (err) return next(err); res.json(post);
 });
```

```
});
module.exports = router;
```

Mongo db code:

```
var mongoose = require('mongoose');
var BookSchema = new mongoose.Schema({ isbn:
String, title: String, author: String,
description: String, published_year: String,
publisher: String, updated_date: { type: Date,
default: Date.now },
}); module.exports = mongoose.model('Book',
BookSchema);
```

```
var mongoose = require('mongoose'); mongoose.connect('mongodb://localhost/mean-
angular6')
  .then(() => console.log('connection succesful now go to broswer'))
  .catch((err) => console.error(err));
```

Command promt codes:

1. For starting mongodb server:

```
Command Prompt-mongo

Microsoft Windows [Version 10.0.17134.345]

(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\HP>mongo

MongoDB shell version v4.0.3

connecting to: mongodb://127.0.0.1:27017

Implicit session: session { "id" : UUID("19333382-ac60-4487-838e-5c0c2148fcb4") }

MongoDB server version: 4.0.3

Server has startup warnings:
```

```
Command Prompt - mongod
icrosoft Windows [Version 10.0.17134.345]
c) 2018 Microsoft Corporation. All rights reserved.
018-11-12T22:34:27.430+0530 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDi
018-11-12T22:34:28.844+0530 I CONTROL [initandlisten] MongoDB starting : pid=9048 port=27017 dbpath=C:\data\db\ 64-bi
 nost=DESKTOP-8605KTK
018-11-12T22:34:28.844+0530 I CONTROL
                                         [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
018-11-12T22:34:28.845+0530 I CONTROL
                                          [initandlisten]
                                                          db version v4.0.3
                                          [initandlisten] git version: 7ea530946fa7880364d88c8d8b6026bbc9ffa48c
018-11-12T22:34:28.846+0530 I CONTROL
018-11-12T22:34:28.846+0530 I CONTROL
                                          [initandlisten]
                                                          allocator: tcmalloc
018-11-12T22:34:28.846+0530 I CONTROL
                                          [initandlisten]
                                                          modules: none
018-11-12T22:34:28.846+0530 I CONTROL
                                          [initandlisten] build environment:
018-11-12T22:34:28.847+0530 I CONTROL
                                          [initandlisten]
                                                               distmod: 2008plus-ssl
018-11-12T22:34:28.847+0530 I CONTROL
                                          initandlisten
                                                               distarch: x86_64
018-11-12T22:34:28.847+0530 I CONTROL
018-11-12T22:34:28.847+0530 I CONTROL
                                          [initandlisten]
                                                               target_arch: x86_64
                                         [initandlisten] options: {}
[initandlisten] Detected data files in C:\data\db\ created by the 'wiredTiger'
018-11-12T22:34:28.859+0530 I STORAGE
```

Code to start nodejs server

To start forntend

```
Your environment has been set up for using Node.js 8.12.0 (x64) and npm.

C:\Users\HP>D:

D:\d>cd d

D:\d>cd mean

D:\d\mean>npm start

> mean-angular6@0.0.0 start D:\d\mean
> ng build && node ./bin/www

Date: 2018-11-12T17:08:56.211Z
Hash: 4e4ec3bcc96bb1559e46

Time: 75079ms
chunk {main} main.js, main.js.map (main) 43.9 kB [initial] [rendered]
chunk {polyfills} polyfills.js, polyfills.js.map (polyfills) 227 kB [initial] [rendered]
chunk {runtime} runtime.js, runtime.js.map (runtime) 5.4 kB [entry] [rendered]
chunk {vendor} vendor.js, vendor.js.map (vendor) 6.25 MB [initial] [rendered]
chunk {vendor} vendor.js, vendor.js.map (vendor) 6.25 MB [initial] [rendered]
connection succesful now go to broswer
```

To start backend server

```
Node.js.command.prompt-node app.js

Your environment has been set up for using Node.js 8.12.0 (x64) and npm.

C:\Users\HP>D:

D:\>cd d

D:\d>cd mean

D:\d\mean>node app.js

connection succesful now go to broswer
```