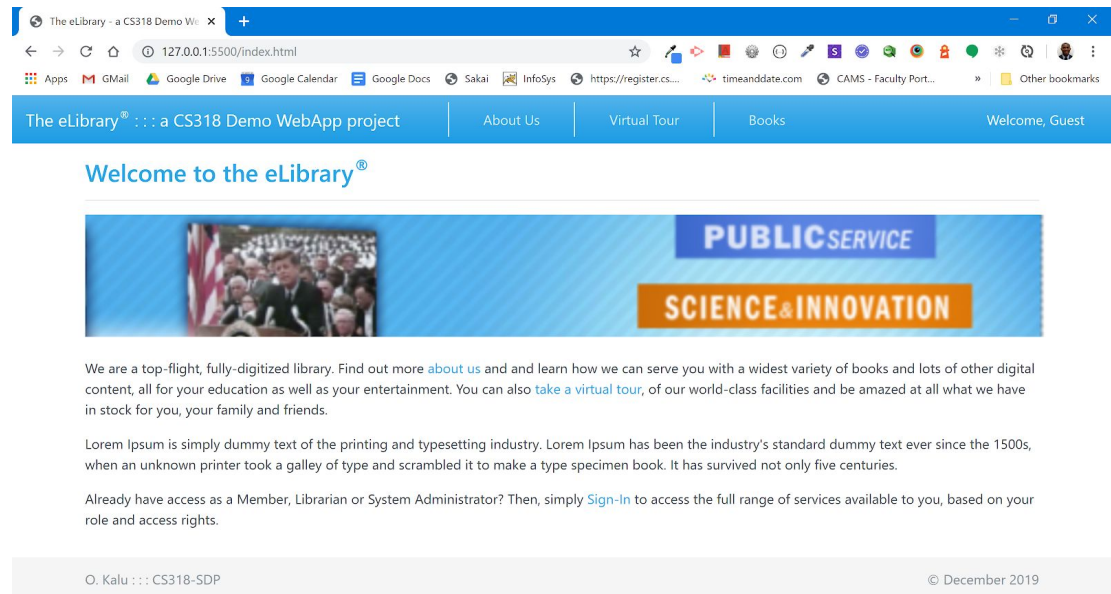


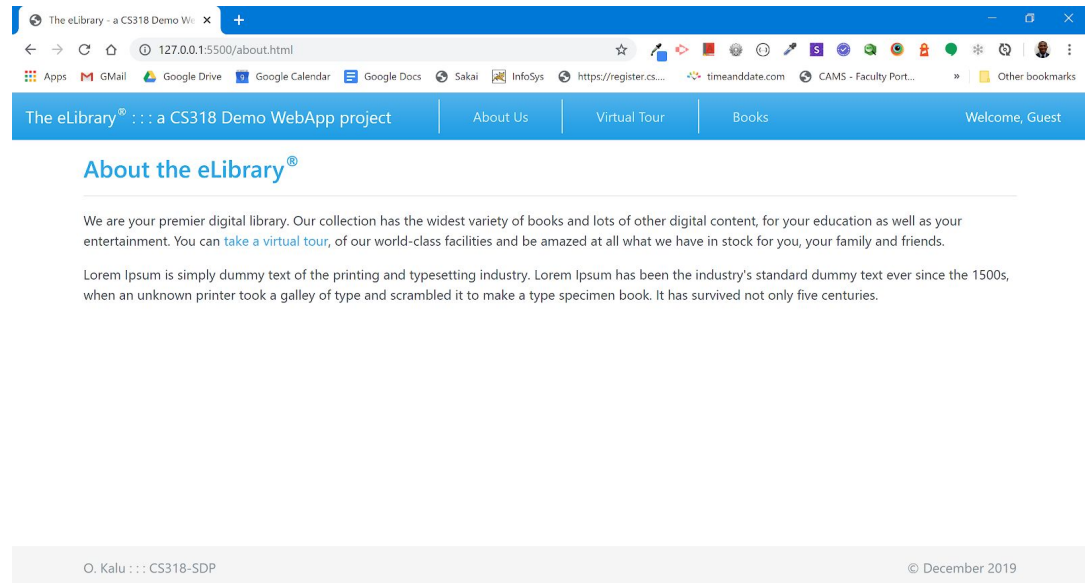
## Developing the eLibrary web application - a step-by-step guide

1. In one of your local drives, Create a new directory/folder, named say, "elibrary".
2. Open the "elibrary" folder in Visual Studio Code (or some other Code Editing tool you prefer).
3. In the "elibrary" folder, create/add the following 3 sub-folders: "css", "js", "images".
4. Download and copy the image files provided for you in the project's resources folder (found on Google Drive at <https://drive.google.com/drive/folders/1rs1jKO2e-nc7q-8ulPtUHDJQLoMHnSQR?usp=sharing>) to the "elibrary\images" folder.
5. **Implement code for the eLibrary Homepage, About page and Virtual Tour:**
  - 5.1. Using VS Code, add new web page source files named, "index.html", "about.html" and "virtualtour.html".
  - 5.2. The Figures below are example screenshots of what the pages can/may/should look like. **Note:** You may use a CSS framework (such as Bootstrap) to apply necessary styling, to achieve this sample look and page layout:

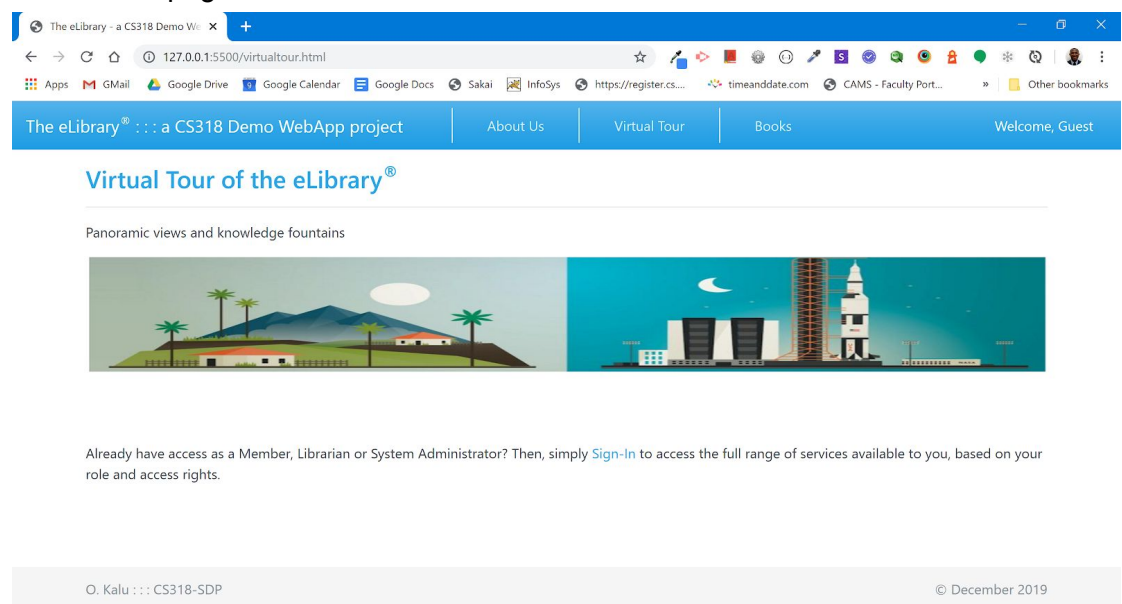
### Homepage:



### About Us page:



## Virtual Tour page:



## 6. Implement code for the eLibrary Books page:

**Note:** The Books data (which is presented in JSON format) will be obtained from a remote RESTful service API hosted online at the url - <https://elibraryrestapi.herokuapp.com/elibrary/api/book/list>. To **fetch** and present the data, do the following:

6.1. Using VS Code, add a new web page source file named, "books.html".

- 6.2. Add JavaScript code to your project, such that when the Books page is loaded in the Browser window, the books data is **fetch**ed from the remote RESTful service API and presented as shown below:

Books page:

The screenshot shows a web browser window displaying the 'Books' page of 'The eLibrary - a CS318 Demo WebApp project'. The page has a blue header with navigation links: 'About Us', 'Virtual Tour', 'Books', and 'Welcome, Guest'. Below the header, the title 'Books in our Collection' is displayed. A table lists 6 books with the following data:

#	ISBN	Book Title	Overdue Fee	Publisher	Date Published
1.	978-0135974445	Agile Software Development	US\$1.05	Prentice-Hall	2002-10-25
2.	978-0135166307	Core Java - Fundamentals, 12th Edition	US\$1.75	Pearson	2018-08-27
3.	978-0073523323	Database Systems Concepts, 6th Edition	US\$1.47	McGraw-Hill	2011-05-19
4.	978-0321127426	Patterns of Enterprise Application Architecture	US\$2.49	Addison-Wesley	2002-11-25
5.	978-1234567890	Spring In Action	US\$0.99	Manning	2010-09-24
6.	978-0000001112	UML Distilled, 3rd Edition	US\$1.86	John Wiley	2018-03-16

The browser address bar shows '127.0.0.1:5500/books.html'. The page footer shows 'O. Kalu :: CS318-SDP' and '© December 2019'.

## 7. Adding a new Book

The screenshot shows a web browser window displaying the 'New Book Form' of 'The eLibrary - a CS318 Demo WebApp project'. The page has a blue header with navigation links: 'About Us', 'Virtual Tour', 'Books', and 'Welcome, Guest'. Below the header, the title 'New Book Form' is displayed. The form contains the following fields:

- \* required form fields
- \*Book Title:
- \*ISBN:
- \*Overdue Fee per day:   
Enter a valid decimal amount; in dollars and cents; no comma (e.g. 1.99)
- \*Publisher:
- \*Date Published:

At the bottom right of the form, there are two buttons: 'Reset' (red) and 'Save Book' (green). The browser address bar shows 'https://elibraryrestapi.herokuapp.com/books/addnewbook.html'. The page footer shows 'O. Kalu :: CS318-SDP' and '© December 2019'.

## 8.

9. zzzzz etc.