



CTU training solutions

0861 100 395 | www.ctutraining.co.za | enquiry@ctutraining.co.za

Faculty of Information Technology									
<div>I declare that I am familiar with, and will abide to the Examination rules of CTU</div> <div><div></div><div>Signature</div></div>	<div>SUBJECT NAME: INTERMEDIATE WEB DEVELOPMENT</div> <div>SUBJECT CODE: IPG521</div>								
	<div>Formative Summative</div> <div>Duration:</div> <div>Date: -</div> <div>Total Marks: 150</div> <div>Total pages: 9</div>				<div>Examiner: Mr. Isaac L</div> <div>Moderator: Mrs. Lindeka</div>				
	Student number								
	Surname:				Initials:				
								/	%

Instructions:

- Recall to keep a copy of all submitted assignments.
- All work must be typed using Microsoft Word and convert the word document to PDF before uploading to COLCampus.
- Kindly note that you will be evaluated on your writing skills in all your assignments.
- Negative marking will be applied if you are found guilty of plagiarism, poor writing skills or if you have applied incorrect or insufficient referencing.
- Each assignment must include a cover page, table of contents and full bibliography, based on Harvard referencing style.
- Students are not allowed to offer their work for sale or to purchase the work of other students. This includes the use of professional assignment writers. If this should happen, CTU training Solutions reserves the right not to accept future submissions from a student. Spelling, style, fonts, font size, line spacing
 - Please copy the questions onto your answer sheet (single space the questions), and make sure to use numbers to indicate the answers to each question.
 - Always use a spell checker before you submit assignments! We reserve the right to deduct point for each obvious misspelling.
 - Always double-space your answers.
 - Please use Arial (or Calibri (Body)), 12 point as the font for your assignments. Certain fonts have been known not to come across in the PDF files.
 - Use only black or blue font face colors. Do not use red!

Scenario Requirements

- You must use MS Visual Studio 2017/2019 with ASP.NET MVC5, SQL Server and Azure.
- You must use Bootstrap CSS to set the presentation aspects of the web application.
- Your personal details must be displayed in the footer of all pages.
- A video displaying how the program is running, the project file, PDF containing coding and screenshots must be uploaded.
- The webpage should be deployed to Azure.

Background Information:

You have been contracted by the Southern African Computer Lecturers Association (SACLA) to develop a basic web application that can be used to manage the submission of research papers for the annual SACLA conference. The initial version of the application should make provision for two user roles: Author and Admin.

The appropriate Controllers and Views must be created for the following basic pages:

- Home page
- Papers Page.
- News page.
- Contact page.
- Login page.

You must implement the following basic functionalities for this application:

- A fully functional navigation bar that displays links and information based on the authorisation level of the user.
- All users should be able to see a list of all the papers that have been submitted for the conference.
- Login and logout functionalities.
- An authenticated user who belongs to the **Author** role should be able to:
 - View a list of all his/her papers.
 - Submit a new paper.
 - Edit a submitted paper.
 - Delete a submitted paper.
- The students must use own creativity for the **News** and **Contact Us** Pages.

Models:

The following information will be stored for a Paper (Use the below information to design your database on Azure):

- **PaperId** (Auto-generated number).
- **PaperTitle** (Title of the paper).
- **PaperAbstract** (Short summary of the paper).
- **PaperAuthor** (Username of the user who submitted the paper).
- **PaperDateSubmitted** (Date on which the paper was first submitted).
- **TopicId** (An indication of the Topic to which the paper belongs).

The following information will be stored for a Topic:

- **TopicId** (Auto-generated number).
- **TopicName** (string value).

Students to store appropriate information for the login pages.

Figure 1: Home page (As viewed by an anonymous user)

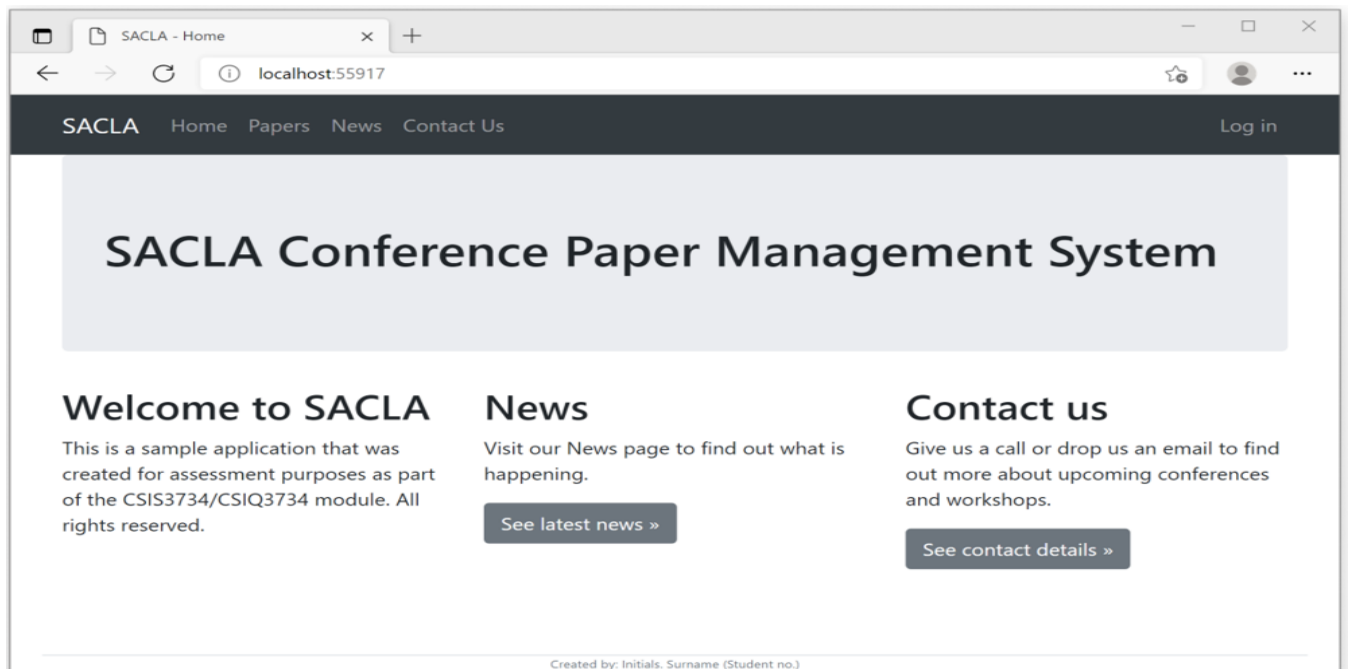


Figure 2: Login Page

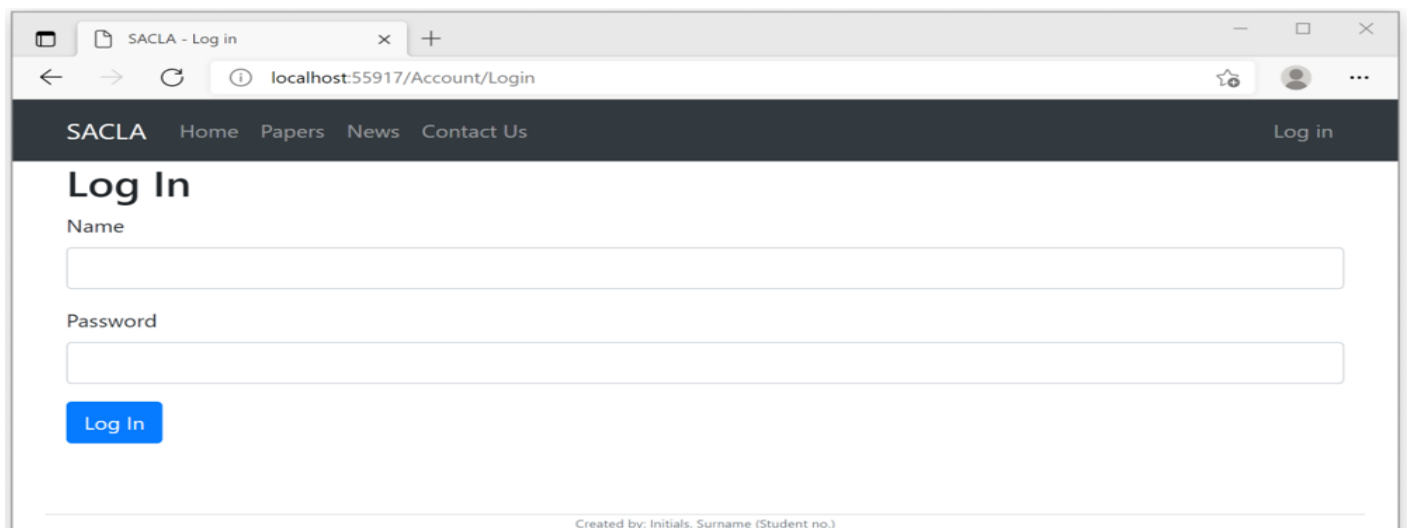
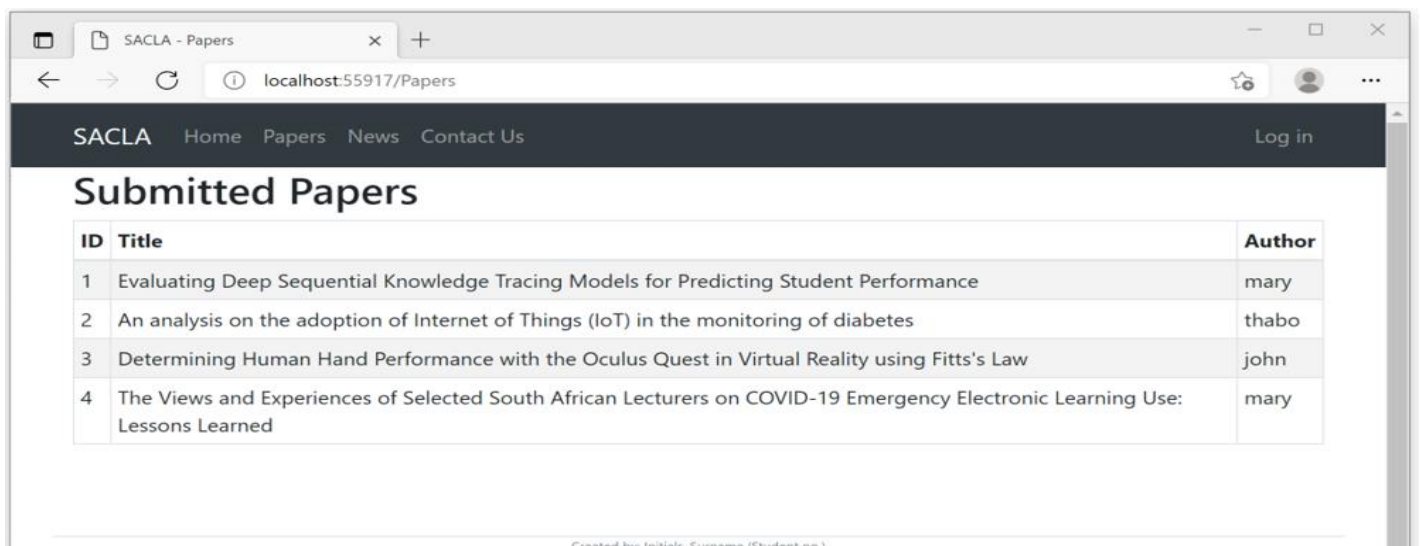


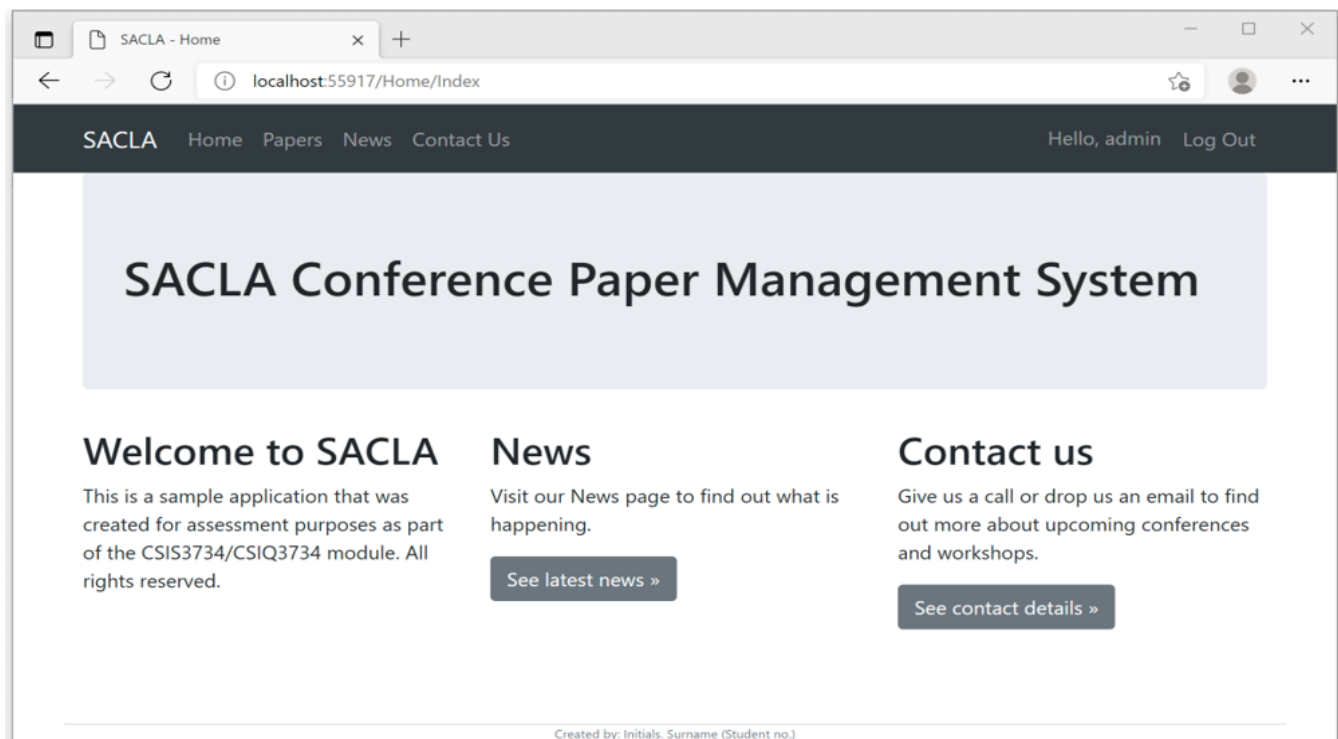
Figure 3: Papers Page



Please note the following:

- This page can be reached by selecting the "Papers" link in the navigation bar.
- This page will look the same for both anonymous and authenticated users.

Figure 4: Home page (as viewed by user admin who belongs to the **Admin** role)



For this version of the application, you will not be implementing any specific functionalities for users who belong to the **Admin** role.

Figure 5: Home page (as viewed by user john who belongs to the **Author** role)

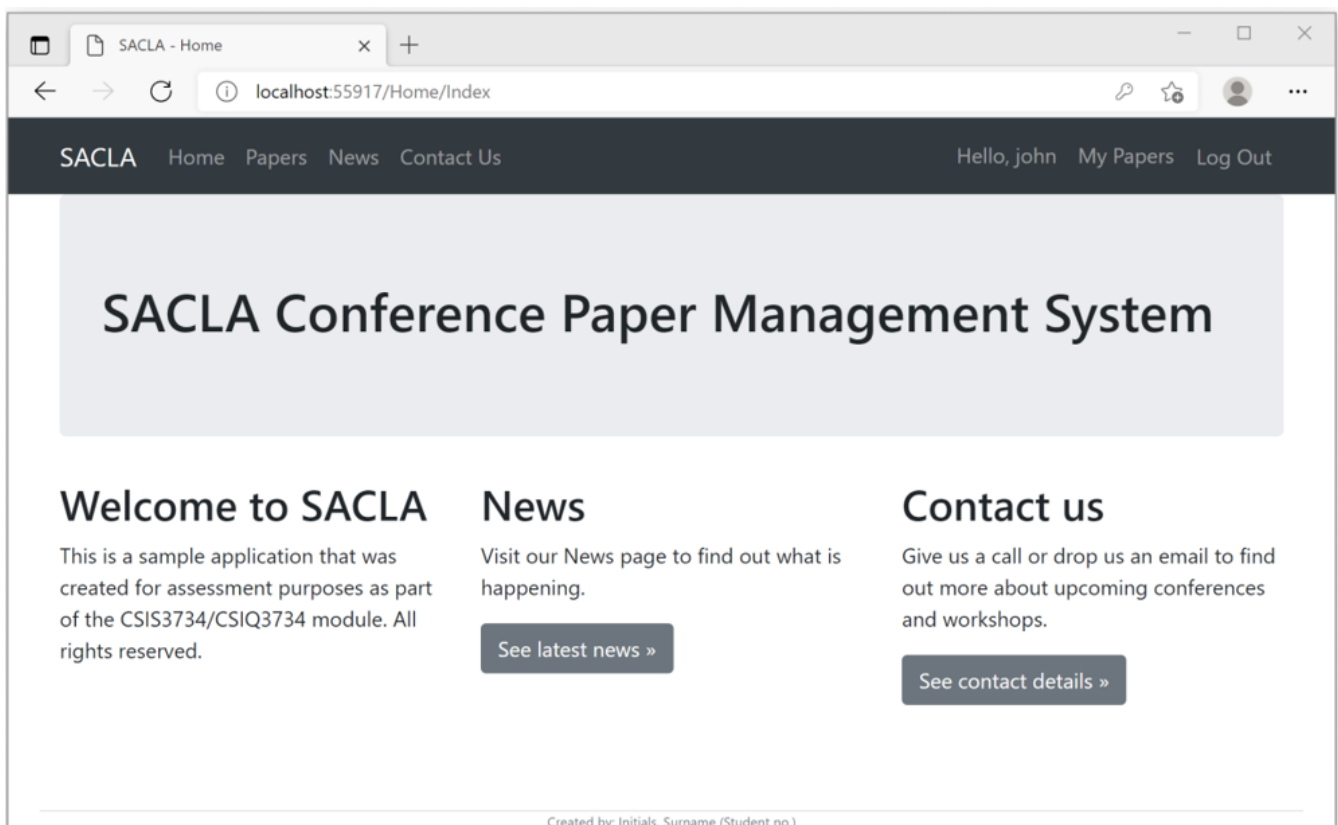
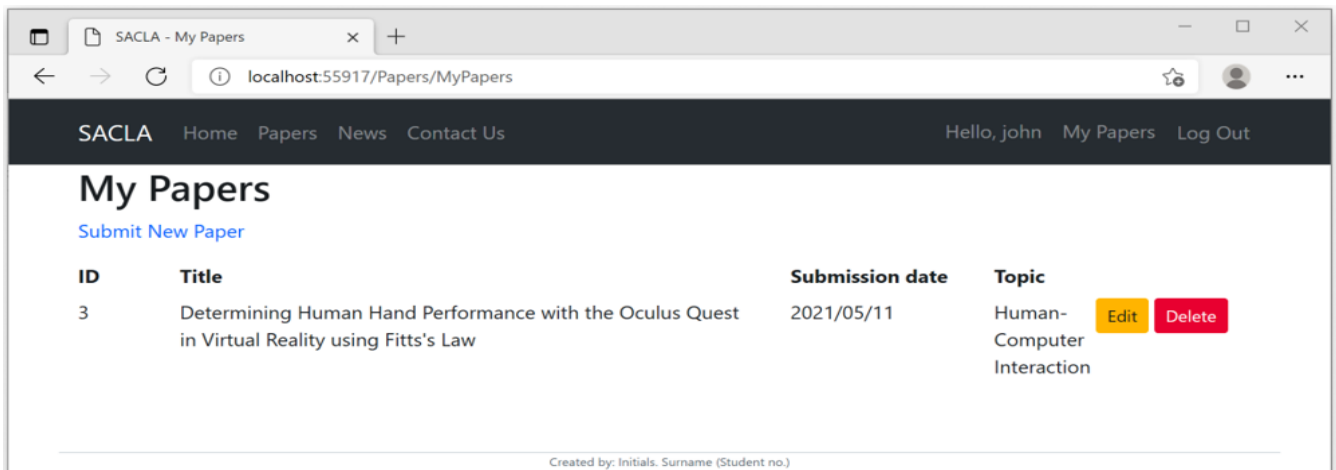


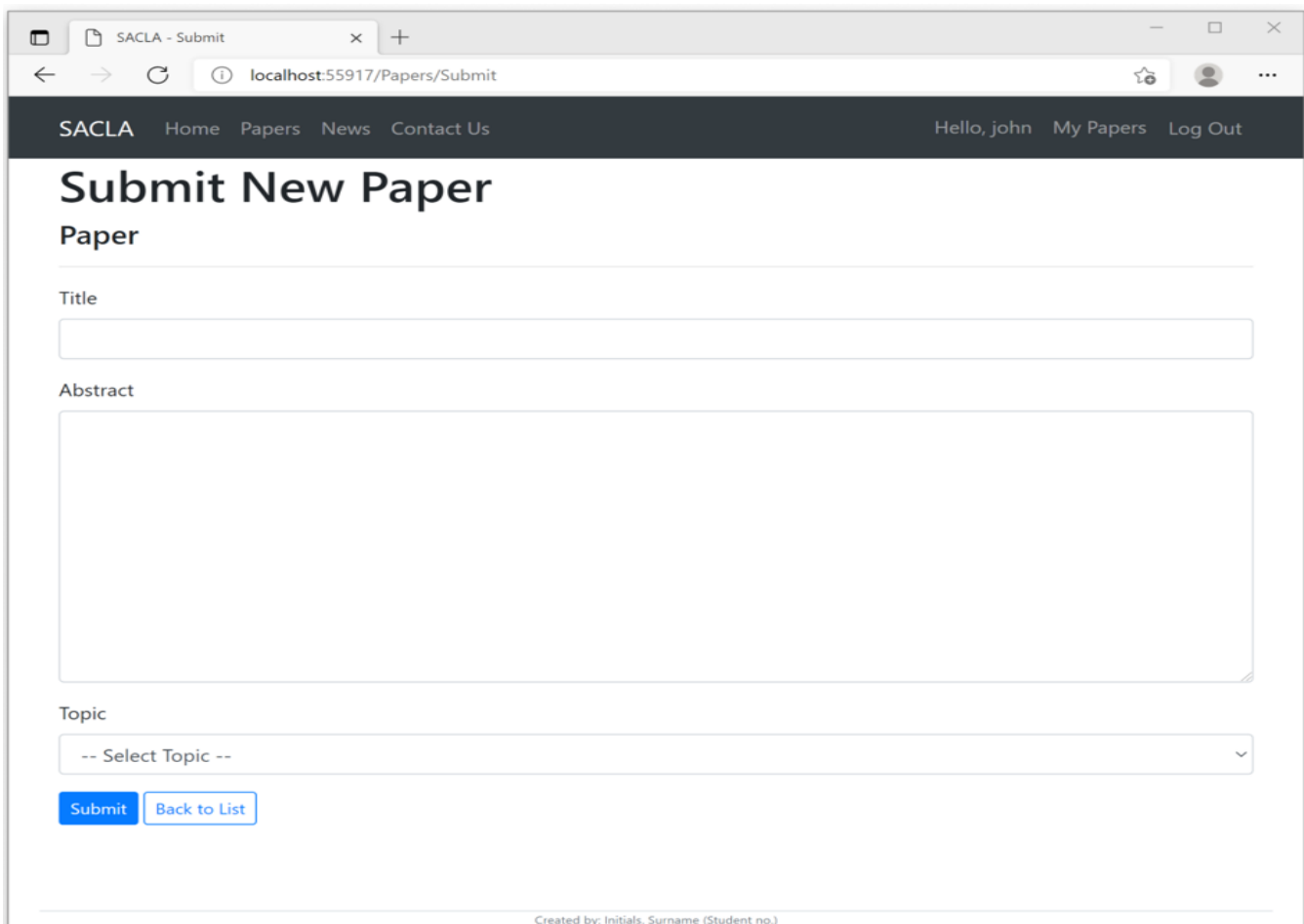
Figure 6: My Papers page (as viewed by **Author** user john)



Please note the following:

- An **Author** user can reach this page through the "My Papers" link in the navigation bar.
- This page should only display the papers of the current user in alphabetical order (according to the title of the paper).
- The "Submit New Paper" link should take the user to the **Submit page** (see **Figure 7**).
- The Edit button should take the user to the **Edit page** (see **Figure 11**).
-

Figure 7: Submit page (initial view)



Note: The "Back to List" button should take the user back to the **My Papers** page.

Figure 8: Submit page (Options for Topic drop-down list)

Topic

-- Select Topic --

-- Select Topic --

Data Science

Education

Human-Computer Interaction

Internet of Things

Note: The drop-down list options should be retrieved dynamically from the database.

Figure 9: Submit page (after user selected the "Submit" button without entering any data)

SACLA - Submit

localhost:55917/Papers/Submit

⌵

SACLA

Home

Papers

News

Contact Us

Hello, john

My Papers

Log Out

Submit New Paper

Paper

• The Title field is required.

• The Abstract field is required.

• The value " is invalid.

Title

Abstract

Topic

-- Select Topic --

Submit

Back to List

Created by: Initials. Surname (Student no.)

Figure 10: My Papers page (after user john submitted Paper 5)

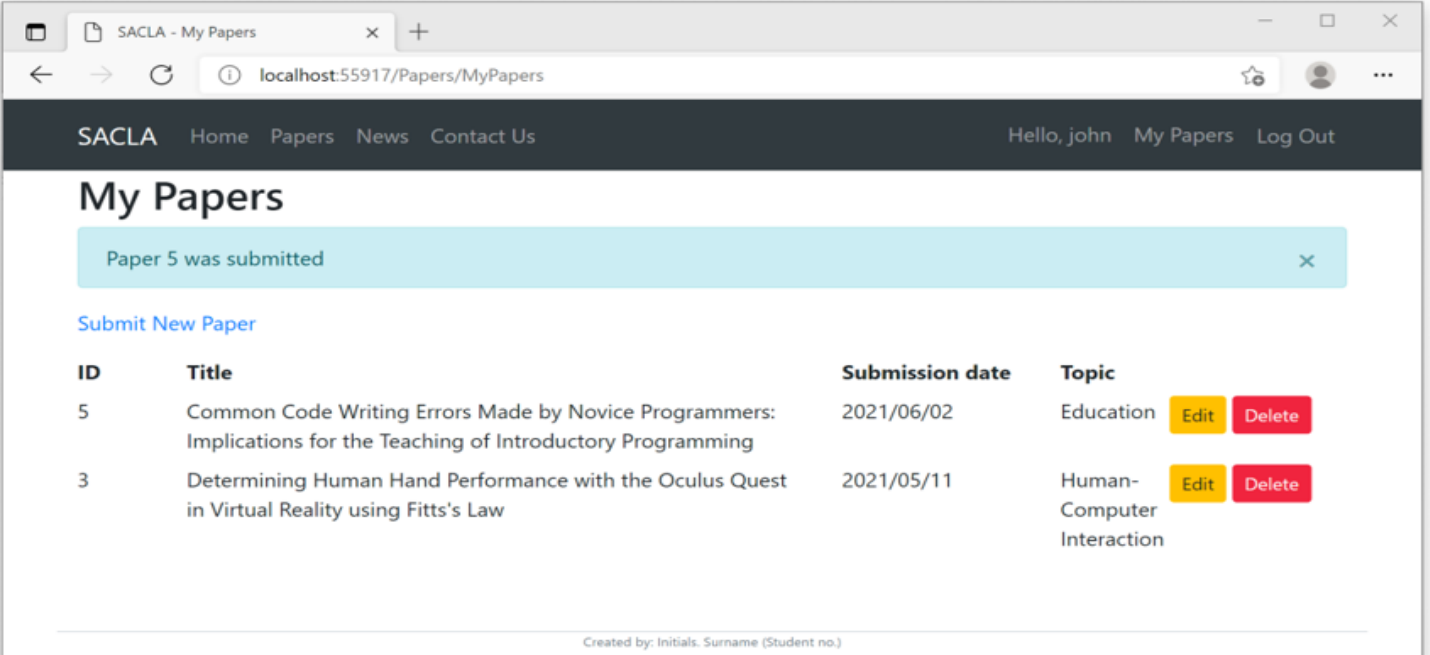


Figure 11: Edit page

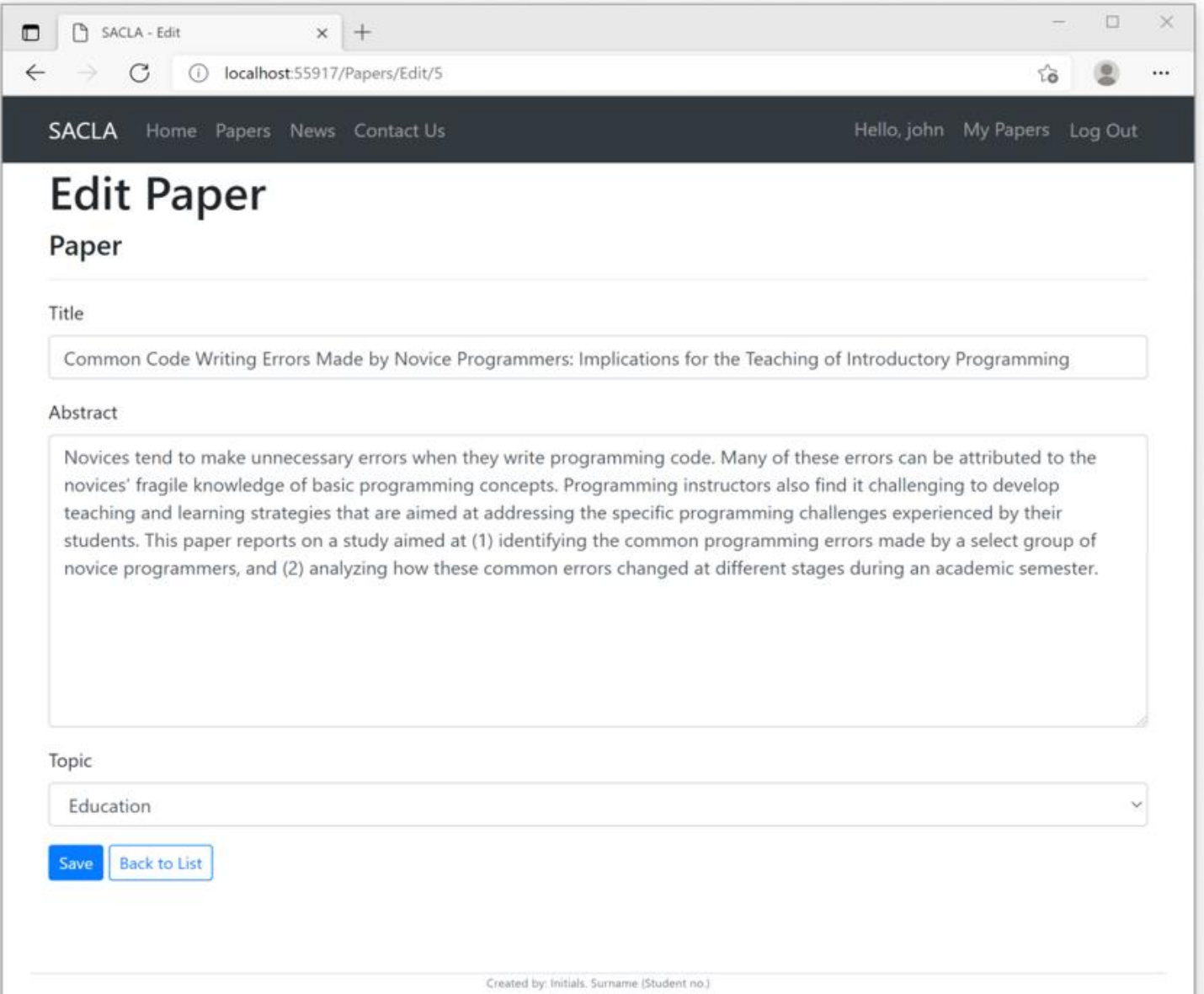


Figure 12: My Papers page (after john saved the changes to Paper 5)

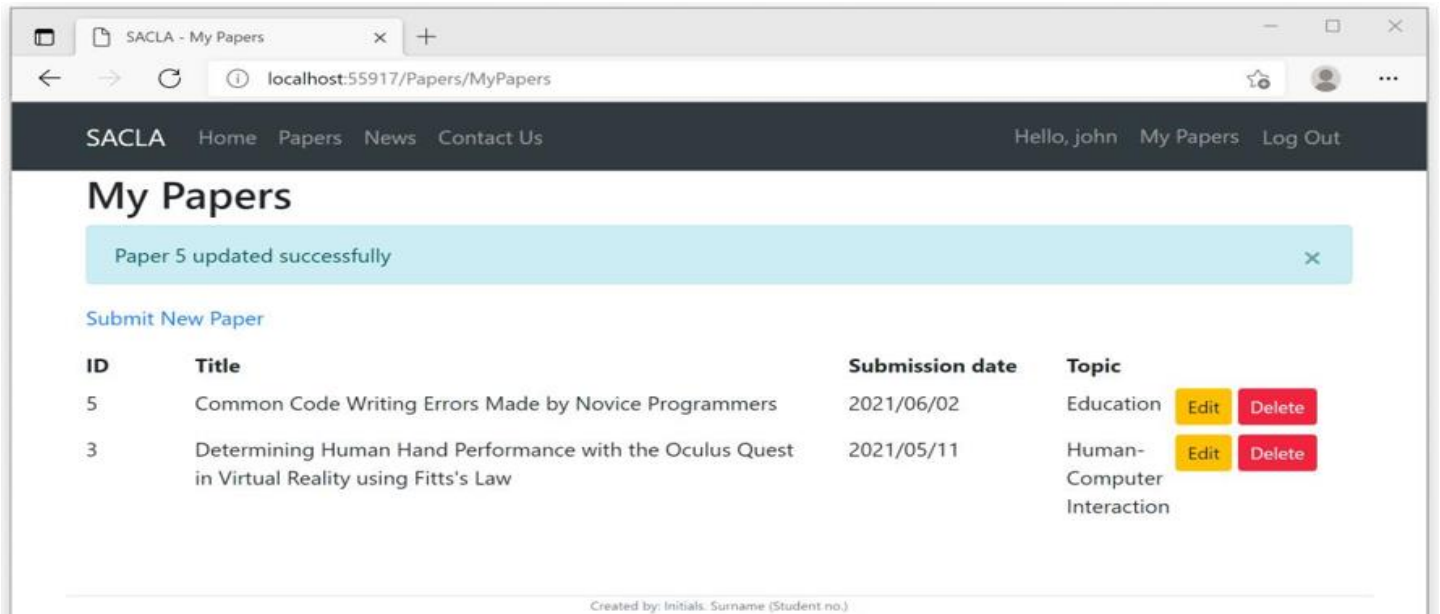


Figure 13: My Papers page (after john selected the "Delete" button for Paper 5)

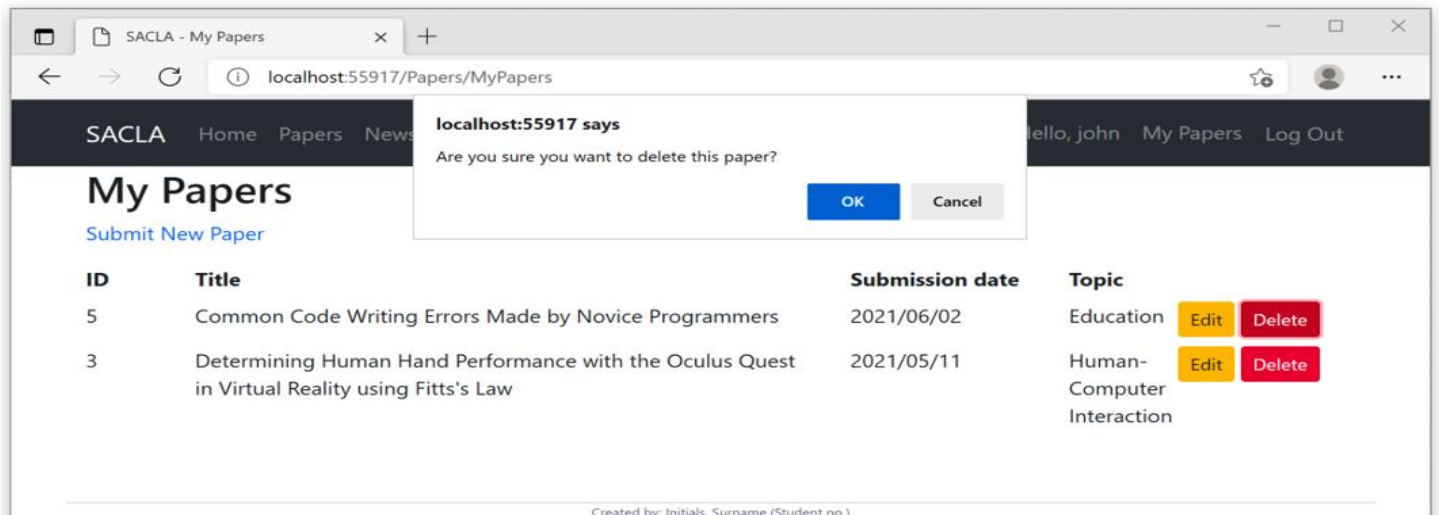
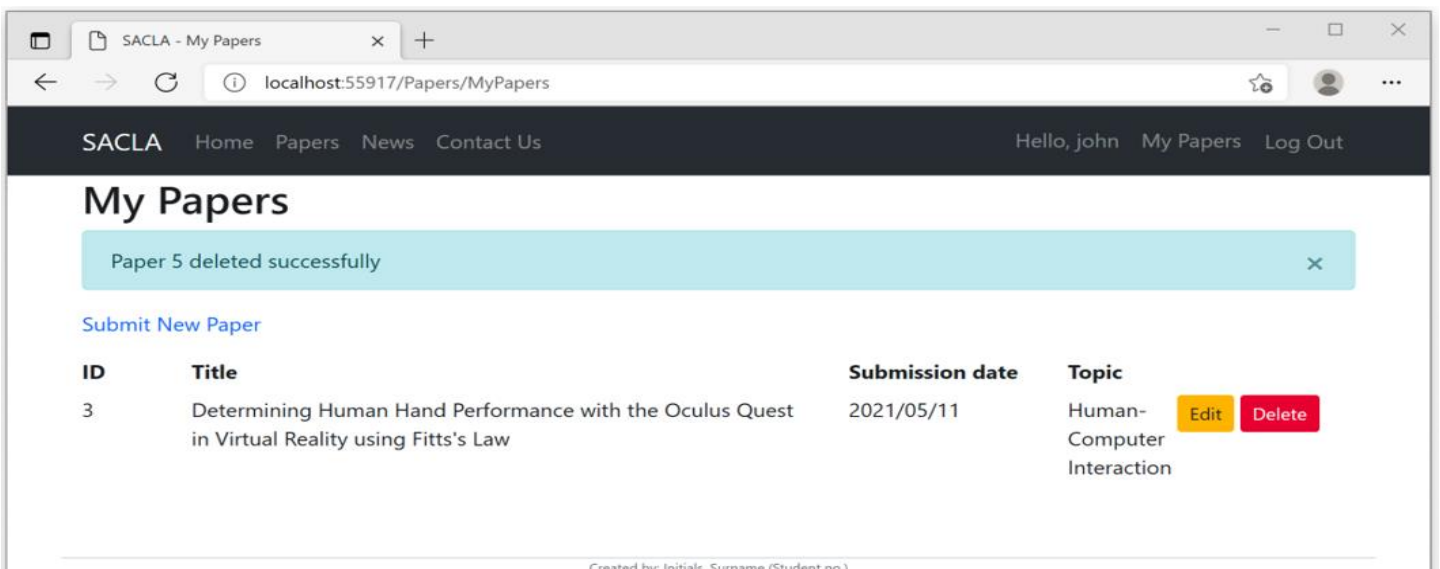


Figure 14: My Papers page (after john confirmed the deletion of Paper 5)



Rubric:

<u>Content:</u>	Full Marks:	Attempted but not correct:	Not attempted:
1. The following pages have already been created: Home, News, Papers, Contact and Login Pages	15	7	0
2. Fully functional navigation bar that displays links and information based on the authorisation level of the user.	15	7	0
3. All users should be able to see a list of all the papers that have been submitted for the conference.	15	7	0
4. Login and logout functionalities.	10	7	0
5. An authenticated user who belongs to the Author role is able to view papers, submit new paper, edit a submitted paper and delete a submitted paper.	20	9	0
6. Appropriate Controllers created all web pages.	10	4	0
7. Models implemented as specified and data is populated from the database.	10	7	0
8. The Papers Page is rendering the same for both anonymous and authenticated users.	5	2	0
9. All Forms are validated.	5	2	0
10. The Webpage is deployed to the cloud.	5	2	0
11. The database should be on the cloud evidence should be provided	15	4	0
12. Include a 5 minutes video where you demonstrate how the program is working. Use PowerPoint to record the video	20	0	0
13. A pdf document with all the code and interface screenshots	5	0	0
Total Marks:	150		

Completed Declaration of Authenticity

I _____ hereby
(FULL NAME)

declare that the contents of this assignment _____ is entirely my own work except for the following documents: (List the documents and page numbers of work in this portfolio that were generated in a group)

Activity	Date

Signature: _____ Date: _____