SCS 2208 –Rapid Application Development

ASSIGNMENT ON CODEIGNITOR AND BOOTSTRAP

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Content

Table of Figures

Figure 1	The Create Account Form
Figure 2	Log in Form
Figure 3	View Users with Accounts
Figure 4	Delete an existing User
Figure 5	Update an existing User
Figure 6	Download a PDF report

Table of Tables

Figure 1	Controller classes and Functions
Figure 2	Model Classes and Functions
Figure 3	Problems encountered and How they were solved

1. The link

The application can be viewed in localhost using the following URL,

[http://[::1]/codeigniter/assignment/index.php/Registration/submitData](http://[::1]/codeigniter/assignment/index.php/Registration/submitData)

2. Implementation

The web application is implemented using the following,

- ❖ As Client-Side Scripting/Coding,
  - HTML
  - CSS
  - JavaScript

- ❖ As Server-Side Scripting,
  - PHP

- ❖ Frameworks,
  - Bootstrap 4
  - CodeIgnitor 3

- ❖ Database,
  - MySQL
  - PhpMyAdmin

The application is built on the CodeIgniter framework and combined with CSS and Bootstrap.

CSS stylings are documented in the "main.css" file.

This application performs log-in/log-out, CRUD (Create, Retrieve, Update and Delete) operations, identifying registered users and validating them, and generating a PDF report using the data stored in the database)

A database named **codeigniter** is created to store the data.

To implement the functionalities, **'**controller classes' were created in CodeIgnitor. The below table mentioned functions and implemented controller classes,

Controller Class	Function
Registration	submitData
Login	login
Activities	displaydata deleteData updateData generate_pdf

<div align="center">Table 1</div>

To perform data handling, separate 'model classes' were implemented and following functions are inside model classes to perform necessary CRUD operations:

	Model class	Function
Submit data	RegistrationModel	saveRecords
Login	LoginModel	login
Display data	ActivityModel	displayUsers
Delete data	ActivityModel	deleteUsers
Update data	ActivityModel	updateUser
Get users data to edit	ActivityModel	displayUserById

<div align="center">Table 2</div>

3. Screenshots

1. The Create Account Form

Figure 1

2. Log in Form

Figure 2

3. View Users with Accounts

Figure 3

5. Delete an existing User (After clicking the DELETE button for ID 99, it has been deleted – compare with figure 3)

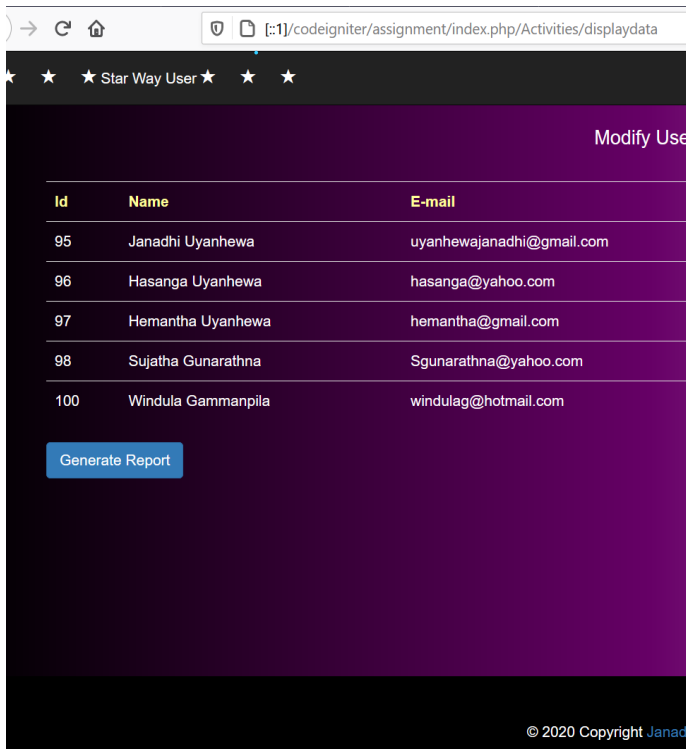**4. Update an existing User detail (Comparing with figure 4, the email address of ID 96 has changed)**
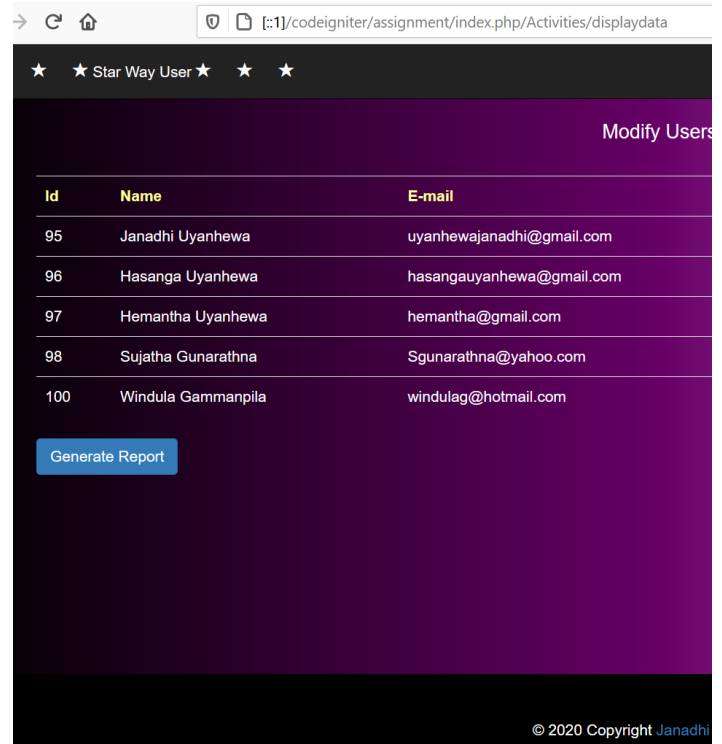

Figure 4

Figure 5

7. Download a PDF report containing the stored data)
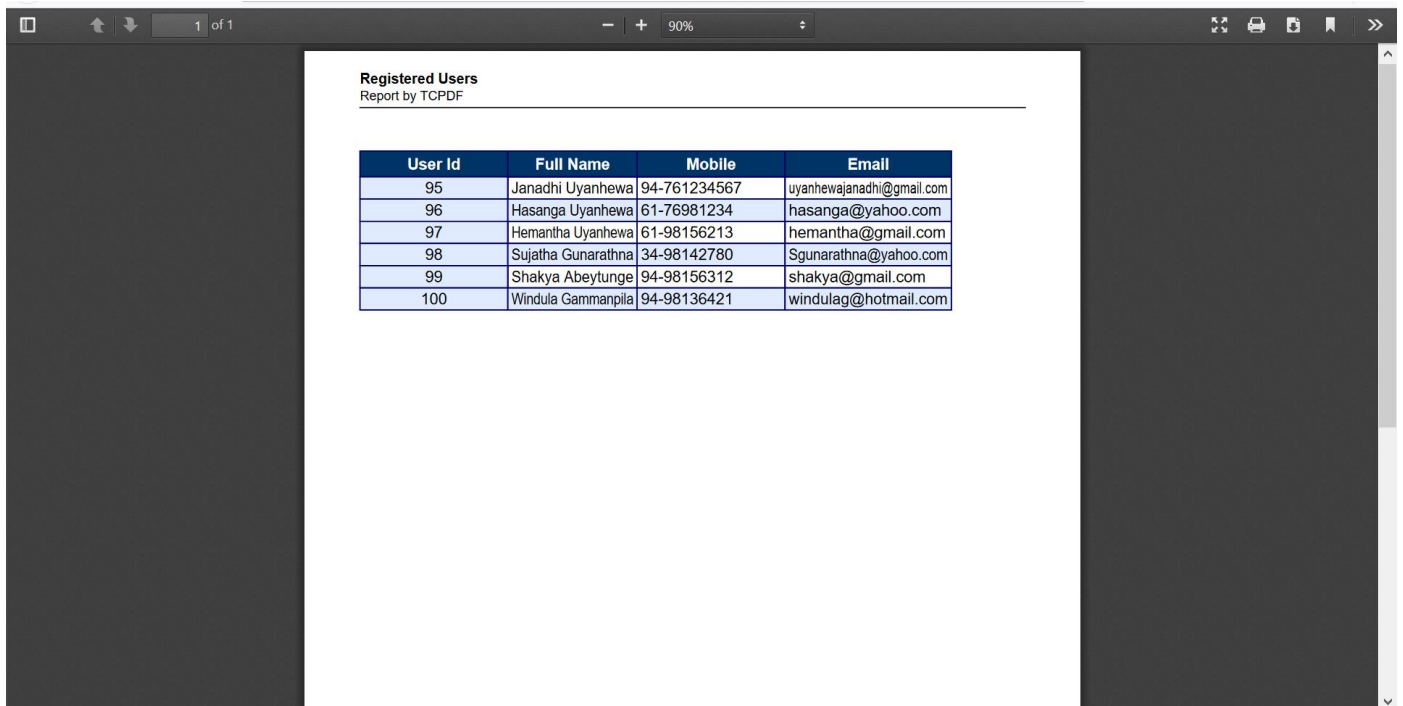

Figure 6

4. Lessons Learnt

1. Got to know what Codeignitor and Bootstrap frameworks are and how to build a proper web-application using Codeignitor and Bootstrap.
2. Improved the knowledge and got experienced on CSS, PHP and JavaScript.
3. To create a simple but an advanced web application rapidly.
4. Learnt to use validation and also to encrypt sensitive information like passwords.
5. Got the MVC framework familiarized.

5. Problems encountered and How they were resolved

Problem	How it was resolved
Had no idea how to work with CodeIgnitor and Bootstrap.	By watching the lecture videos conducted by the lecturer-in-charge and watching YouTube videos.
Had no clear understanding about PHP, and how to use it.	Learnt PHP using W3 schools within 2 days' time-period.
Was struggling implement the PDF report generation using the given library and it didn't work.	Googled and found the library named 'tcpdf'. Imported it an used it.
Bootstrap could not be included from the downloaded folder.	Included the link of the online source for the bootstrap.

Table 3

-THE END-