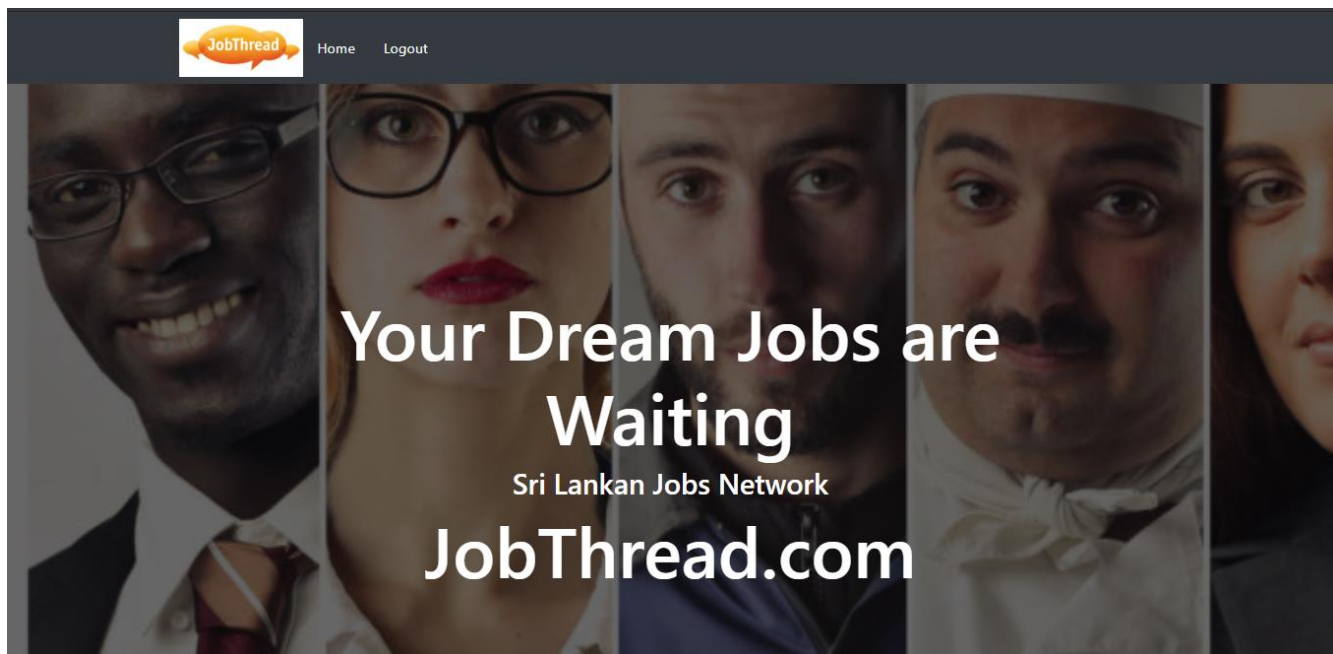# CI Assignment Report

Index number: 18000851
Name: Chathumi Kumarapeli

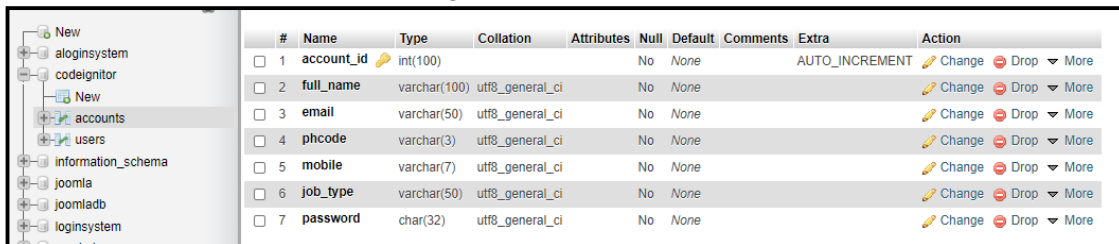# Table of Contents

1.   Introduction and Implementation Details

This report is about an application created using Codeignitor and Bootstrap. The application is a job site named 'jobthread'. People who are searching for jobs can enter their details into this site by registration, and the people who are searching employees can select among those job seekers. Given below are the details of the building of the above application.

1. Downloaded 'CodeIgniter 3.1.11' and saved extracted files in a folder named C:\xampp\htdocs\codeIgniter.
2. Download the ready-to-use compiled code for Bootstrap v4.5.0 which contains CSS and JS files and save all the files in the root of the 'codeIgniter' folder.
3. Created a database named 'codeignitor' and created a table named 'user' in it.

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	account_id	int(100)			No	None		AUTO_INCREMENT	✎ Change	⊘ Drop	▽ More
☐	2	full_name	varchar(100)	utf8_general_ci		No	None			✎ Change	⊘ Drop	▽ More
☐	3	email	varchar(50)	utf8_general_ci		No	None			✎ Change	⊘ Drop	▽ More
☐	4	phcode	varchar(3)	utf8_general_ci		No	None			✎ Change	⊘ Drop	▽ More
☐	5	mobile	varchar(7)	utf8_general_ci		No	None			✎ Change	⊘ Drop	▽ More
☐	6	job_type	varchar(50)	utf8_general_ci		No	None			✎ Change	⊘ Drop	▽ More
☐	7	password	char(32)	utf8_general_ci		No	None			✎ Change	⊘ Drop	▽ More

4. Set database configuration settings in database.php
5. Used MVC architecture (Model: The lowest level of the pattern which is responsible for maintaining data, View: This is responsible for displaying all or a portion of the data to the user, and Controller: Software Code that controls the interactions between the Model and View) and build the application.

2.   Lessons Learnt and Challenges faced

2.1   Lessons learnt

Learnt how to build an application using Codeigniter and Bootstrap and realized the importance of a framework and how easy it is to work with a framework rather than trying to build an application without using one.

2.2   Challenges faced

1.   The main challenge that was encountered when creating the application is that the inexperience in using of Codeigniter and Bootstrap.
      However the tutorial session in the virtual learning environment plus the videos in youtube were a great help to overcome that inexperience. The user guides provide by both codeigniter and bootstrap were very useful as well. Even the flexible MVC based framework in codeigniter made it easy to catchup with developing.
2.   The time required to learn how to use codeignitor and bootstrap was another issue.
      For example when it comes to bootstrap it was a need to know more about its CSS classes, the way components access the classes and it consumed more time to look into it and to experiment it than expected.

3. Screenshots of the operations

1. Home page
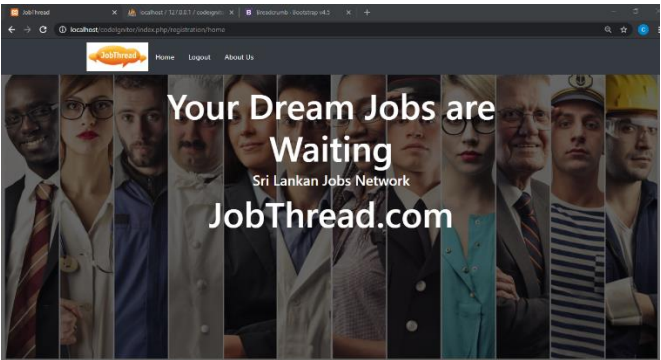
This is the home page of the application. The account creation is also in this home page.

2. Create an account

account_id	full_name	email	phcode	mobile	job_type	password
32	Bella Swan	bella.swan@gmail.com	070	4572348	Software Engineer	bella
33	Jacob Black	jacob.black@gmail.com	070	672976	Legal Officer	jacob
34	Alice Cullen	alice.cullen@gmail.com	070	7967245	Software Engineer	alice
35	Charlie Swan	charlie.swan@gmail.com	070	4982508	Software Engineer	charlie
36	Lily Potter	lilly.potter@gmail.com	075	3467247	Chef	lily
37	Rosalie Cullen	rosalie.cullen@gmail.com	072	9753124	Software Engineer	rosalie

The first image shows the creation of an account entering relevant data.

By seeing the second picture it is clear that the data has been recorded to the database successfully. The upper portion of the second figure shows the database.
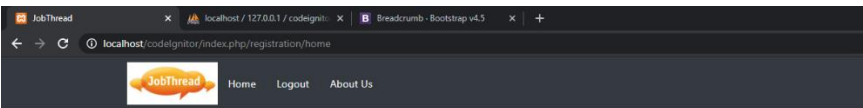
This is the first of the CRUD operations; Create.
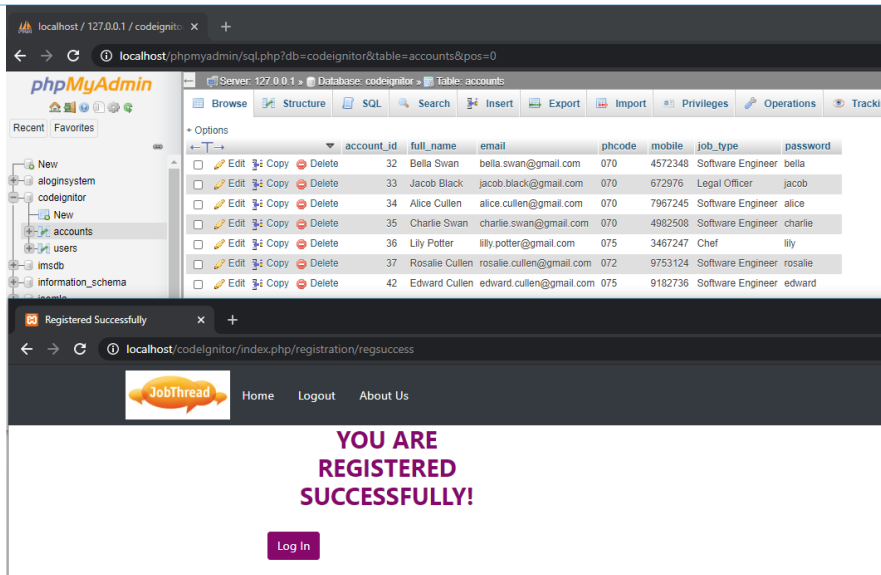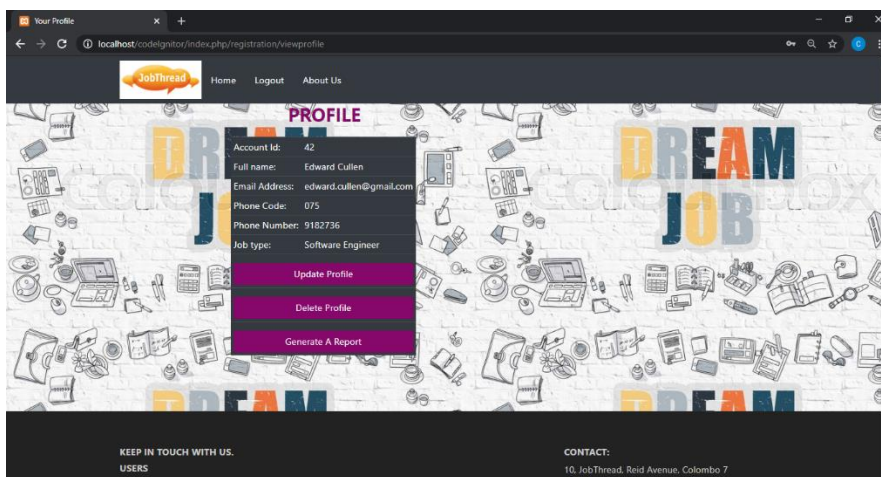
3. Log in to the system
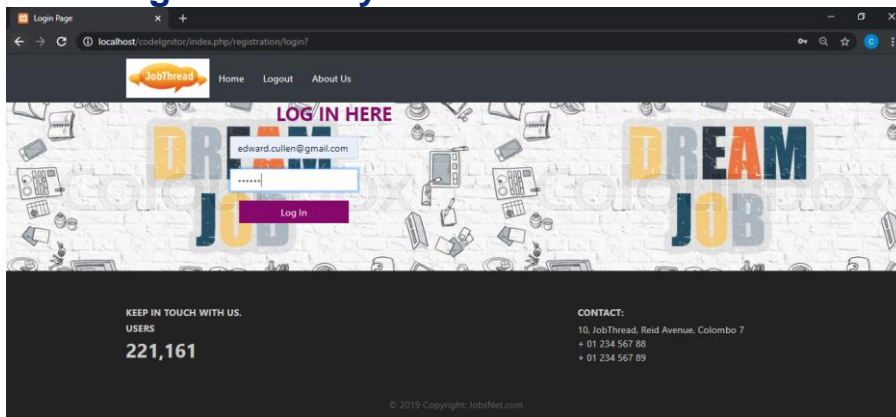
When the 'login' is pressed either on the home page or after registration, it will direct the user to this login form.

When the user enters the accurate data the user will be directed into his profile page.

If data is not accurate the login unsuccessful message will pop up.

4. Display profile

Once the user has been logged in successfully, the application will show the profile data of that particular user.

This is the second of the CRUD operations; Read.

From here the user can either update profile, delete the profile, or to get a report as well.

5. Update profile

When the 'update profile' button is pressed, it will direct the user into this page shown in the first image.

In the first image the mobile number of the user has been updated.

By checking the second image it is clear that the account has been updated successfully. (Compare the user data with the first image in the '2. Create account' row).

This is the third of the CRUD operations; Update.

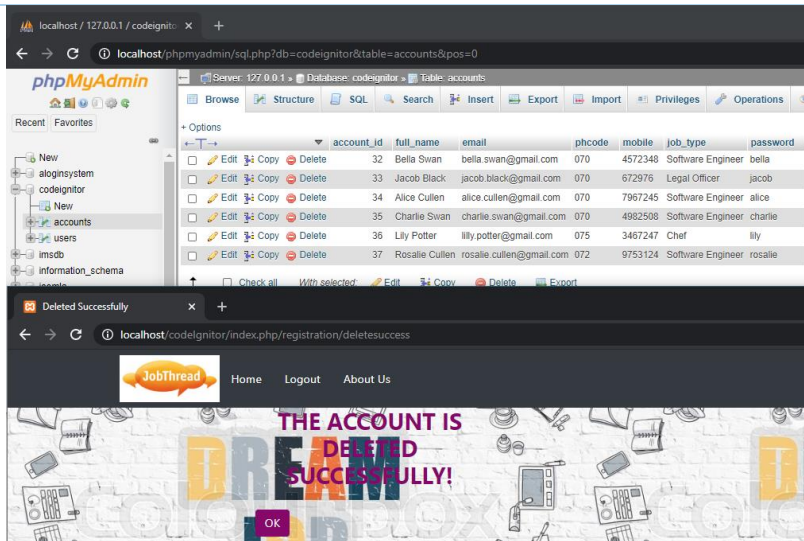'Ok' button in the second figure directs the user back to his profile.
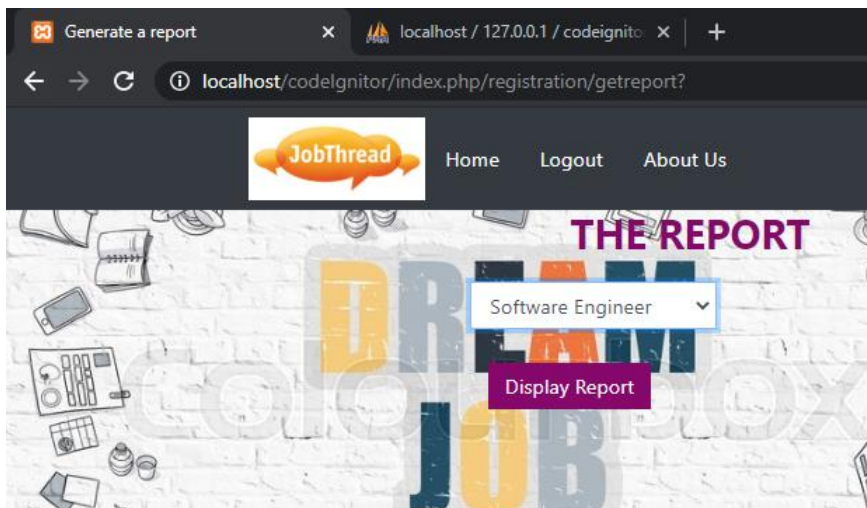
6. Delete profile

When the 'Delete profile' button is pressed, the data of that logged-in user get removed from the database. The figure clearly shows that no record is stored anymore.

This is the last of the CRUD operations; Delete.

This 'OK' button directs the user to the homepage.

7. Generate report

The 'Generate a report' button allows the user to get reports of the users under a selected job type.

A user who is searching to hire a Software Engineer can select the job type here as 'Software Engineer', and the system will display the names and the emails of all the software engineers as shown in the figure.