ICTWEB502 Create dynamic web pages

Student statement of academic honesty	
Student Name:	SAGI ROTHVIK
Student ID:	750118016
Assessment Commenced (Date):	03/12/2018
Assessment Completed (Date):	14/12/2018
	ese assessment tasks utilising my own work without assistance gly plagiarise any work in completing these assessment activities. Hemic Conduct Plagiarism and Cheating.
Student Signature:	4.21
Date:	17/12/2018

# Task-1

I am an IT specialist working in Australia and once a client from Green video company came to me and said to design a website in which the customers can book their videos online and that website also needs to have search facility to the customers for finding their video easily. The client also needs a blog in which the customers can find out more details about the company

### **Technical requirements of the website:**

There are some technical requirements in my website which includes,

- This website of green video company which I have designed have search box where the users can search for the videos, they want to book.
- In the second page after the search page in the website there is a page called customers details page in which the users can select the date for renting their videos.
- This website also contains both the login page and registration and only users who have registered their details in the registration page can login into this website.
- This website last page is blog which also contains a feedback box and the feedback entered by the users will be stored in the database.

# Identifying the sections of the website which requires client-side dynamic content.

In every page of the website like login page, registration page, search page, customer details page and blog page I have used client-side scripting which is HTML for some part of the code. For placing the headers and footers in every page of this website I have used HTML tags which is client-side scripting. For connecting each page to contact us page I have used HTML code and the entire page of contact us button is designed using HTML code. For creating text fields, background images, font colors and logos in each page I have used client-side scripting language called HTML.

### Identifying sections of the website which requires server-side dynamic content.

PHP is my server-side scripting language which I have used for connecting my database to the website. In the first page when the user registers their details that will be saved in the database through this php code and in the second page when the user try's to login into this website then that stored data in the database will be retrieved and only authenticated user can login and for this whole process, I have used server-side scripting. Even in the customers details page the data of the customers will be stored securely in the database. In the last page which contains the details of the company will be stored in the database and we can only change the information in the database.

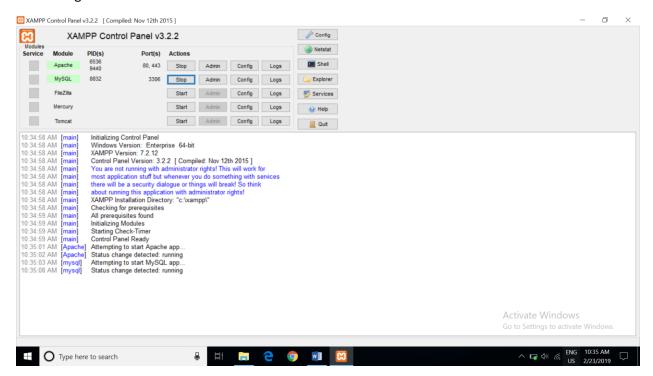
# Selecting the appropriate languages and technology for meeting the requirements.

For creating this website, I used two coding languages HTML which is a client-side scripting language and PHP which is a server-side scripting language. I have used html language mainly for styling the webpage and for front-end use of the webpage. I have used PHP language for connecting MY SQL database to my website. The main technology I have used in this website is the XAMPP server which works as a middle end and connects the website to my database. For writing the code of both php and HTML I have used notepad++ as my editor.

# Task-2

#### **Establishing server and RDBMS**

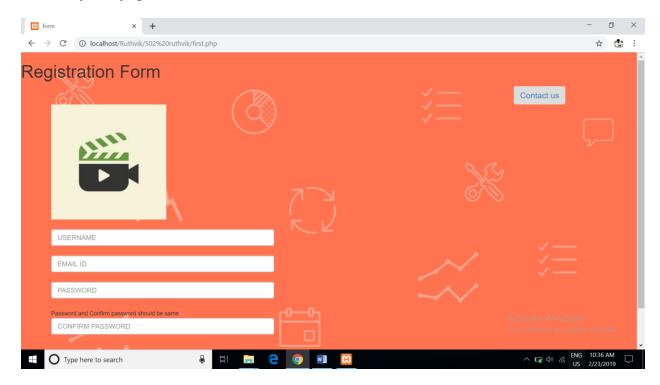
I have installed XAMPP server to run this database in the middle end and I have used PHP code for connecting this XAMPP server to this website.



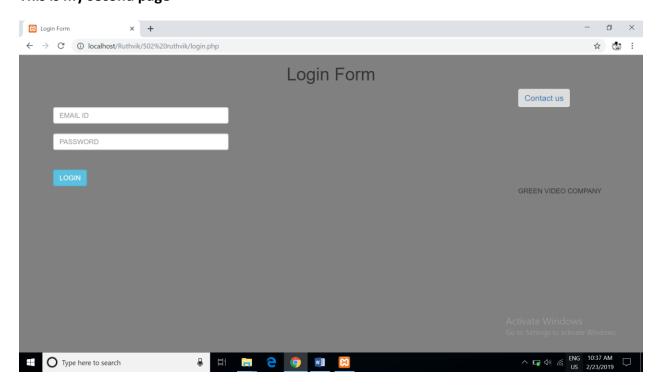
### Developing initial server-side dynamic content

I have created server-side dynamic content for my first page in which the data entered in that page will be stored in the database and in the second page that data which is stored in the database will be retrieved so that only authenticated user will login this website.

# This is my first page



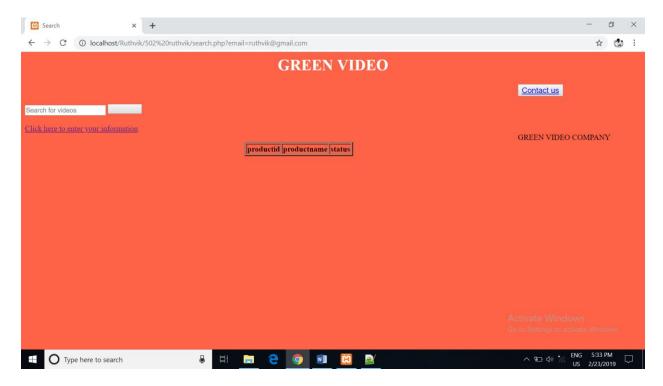
# This is my second page



# Creating a dynamic page and search facility

I have created a search page in this website as per the client requirement and this page consist of a search box where the users can search for the videos. This page also has a table where the users can see the details of the searched product.

### This is my search page



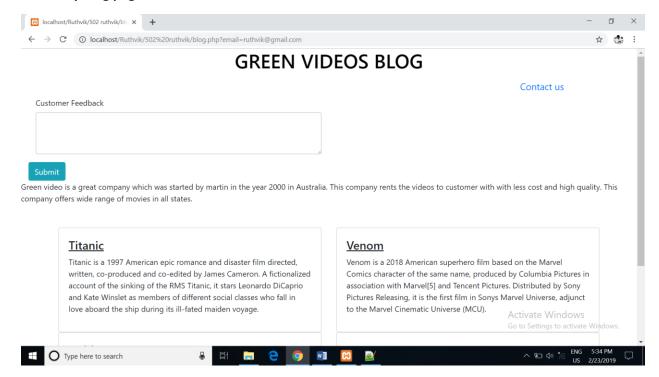
# Layouts of the webpage with forms and images for client-side dynamic content

I have used different forms in this whole website in different webpages like registration page, login page, etc. The first page of the website which is a registration page have logo at the top of the page. These webpages have different layouts like right content, left content, header, footer, etc.

#### Creating a blog

The last page of this website is a blog where the user can find the information about the company. The same page consists of a comment box where the users can give their feedback about the company.

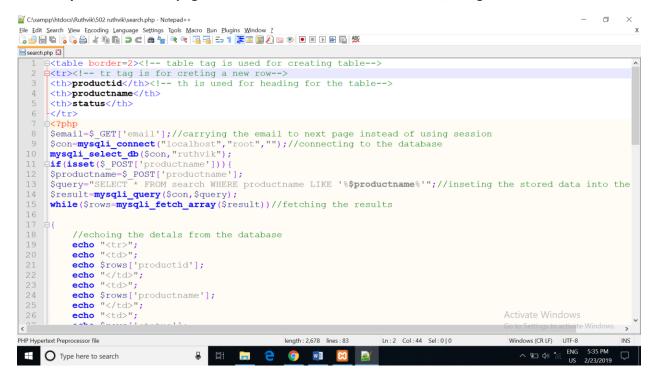
### This is my blog page



# Assigning the variables, strings and constants in the webpage

This website consists of different types of strings, variables and constants and I have assigned it to different components of the website. To acquire the client requirements, I have used different types of variable, strings and constants in every webpage of this website.

### This is my code for search page in which I have used different variable, string and constants



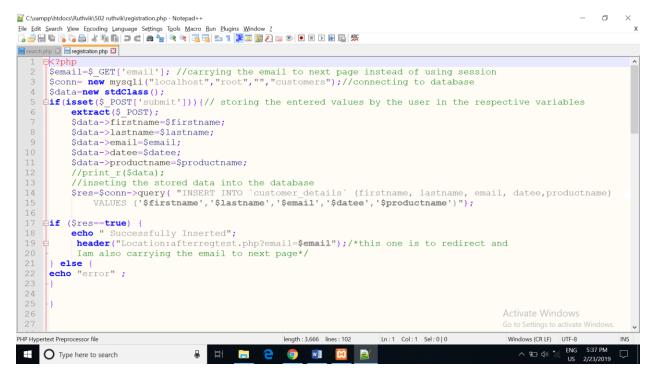
### Setting up arguments and parameters

I have settled up lot of arguments and parameters in this website through which the website works efficiently. I have used randomized statements and some round functions in my PHP code so that the components in the website works properly.

### Incorporating conditionals as required

In this website of Green video company, I have used lot of conditions as per the client requirements. For satisfying the needs of the website I have used these conditions in different pages of this website like in registration page, login page for producing the alerts. I have incorporated these conditions in my PHP code using 'IF' statements.

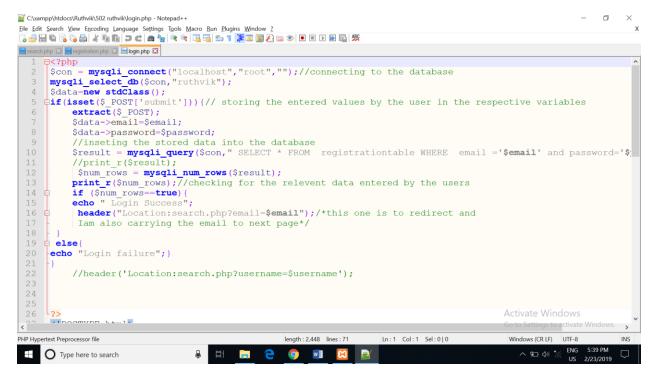
# This is my code for registration page where I have used conditions in the form of IF statement



### Ensuring the variables and arrays as per the requirement

I have ensured that all the variables and arrays are placed correctly in the code as per the client requirement. I have assigned some data to the variables in the code so that the website can work as per the requirements and i have also stored lot of similar characters in the array in my PHP code.

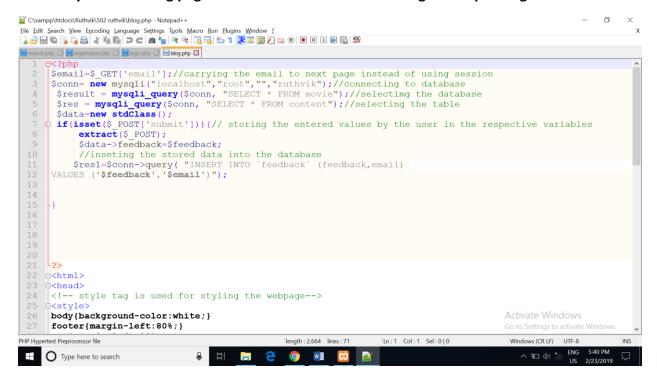
# This is my code for login page where I have used different variables and arrays



#### Comments in the code

I have used comments in both the PHP and HTML code so that who ever see the code can easily understand it. I have used comment tags in the code for explaining each and every component which I have used for creating this website.

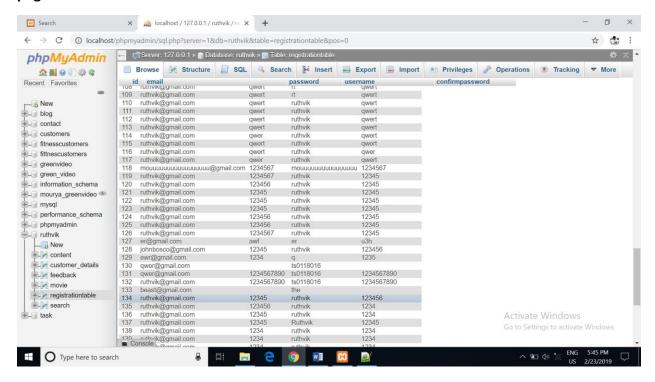
# This is my code for blog page where I have used comment tags for explaining the code.



#### Items to be stored in the database

I have used MY SQL as the database for storing the data of the customers. Details of the user entered in the registration page will be stored in the database and will be retrieved in the login page. Feedback of the customers entered in the blogs page will also get stored in the database so that the clients in the company can have all the details and feedback of the users for improving their business.

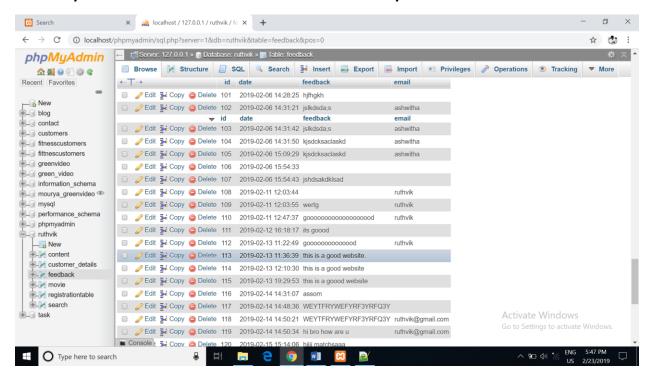
This is my screen shot of database which stores the details of the users entered in registration page.



### Automatic tagging of the authors details

In the last page of the website when the user enters their feedback in the comment box then the feedback of the users including the users email id, date and time they entered their feedback will be automatically saved in the database.

# This is my screenshot of the database which automatically stores the authors details into it.



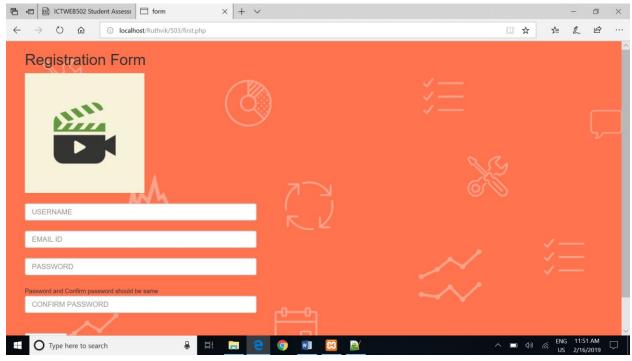
### Ensuring all the functions and formulas are coded correctly or not

I have tested each and every function in the website whether it works efficiently or not so that the users may not get confused while using this website. I have also tested the code of the website so that every component in the website works correctly.

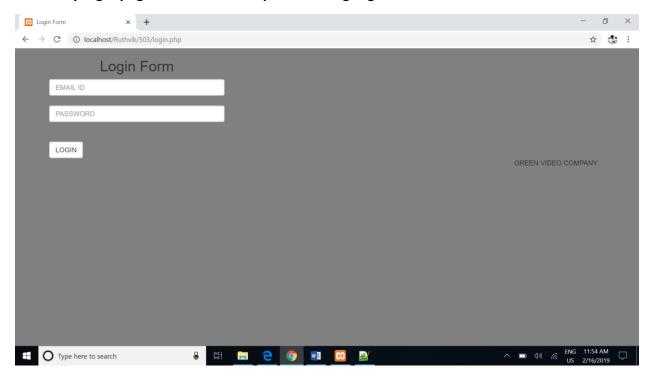
### Consistency of coding and programming

Both PHP and HTML code which I have used for this website has a good consistency and also works effectively without any errors and hacking. The code which I have used works in all types of browsers so that the users can access this website from any type of browser.

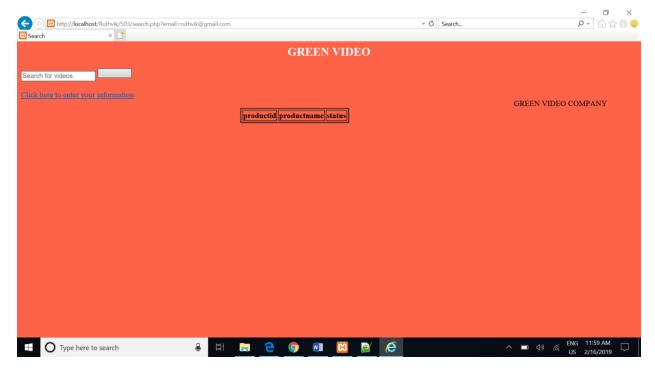
# This is my registration page of the website opened with Microsoft edge.



This is my login page of the website opened with google chrome.



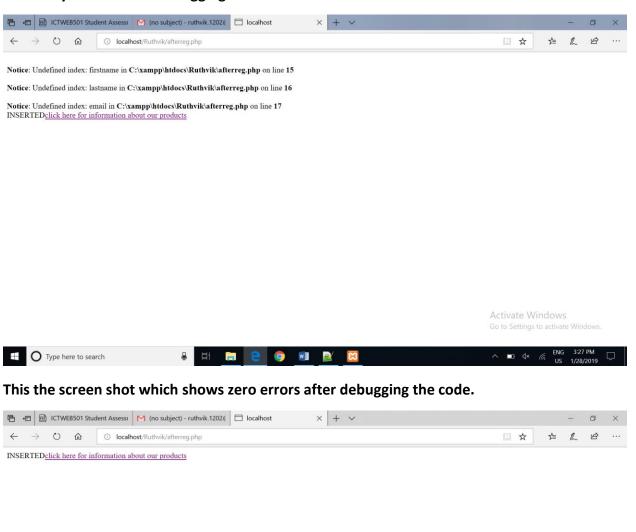
This is my search page of the website opened with internet explorer.



# Resolving the bugs

I have ensured that the code which I have used for this website does not have any bugs and it works efficiently even with less network. I have also troubleshooted all the errors in the codes so that customers can easily handle this website.

# This is my error before debugging the code.



Activate Windows
Go to Settings to activate Windows.

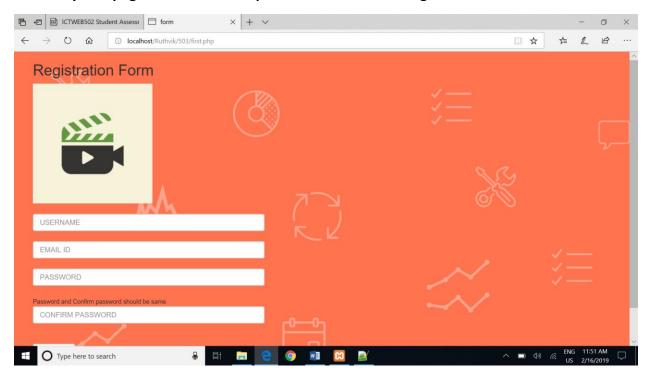
Type here to search

# Task-3

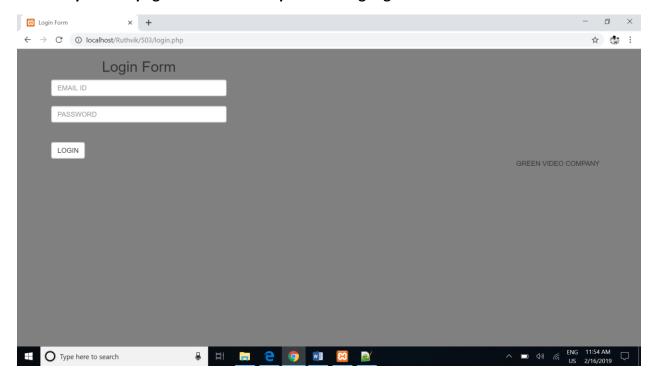
# Testing the website in different browsers

I have tested this website in different browsers and this website works effectively in all the browsers. As this website is usable in all the browsers the users can easily access this website form any one of it.

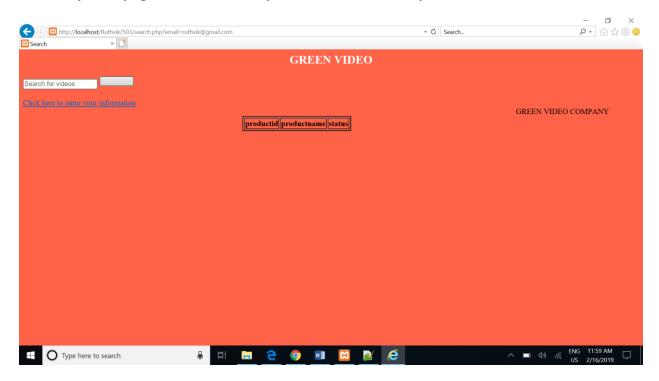
This is my first page of the website opened with Microsoft edge.



This is my second page of the website opened with google chrome.



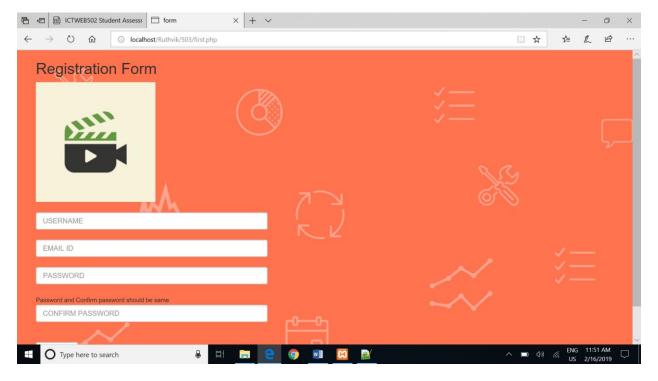
This is my third page of the website opened with internet explorer.



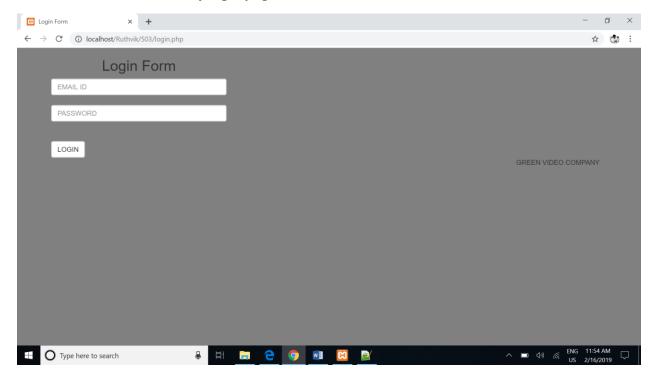
# Testing the website against the requirements

I have tested this website against all the client requirements and this website has all that requirements. Every component in this website works efficiently and can operate in all the browsers. The data of the customers stored in the website will be secured and cannot be operated by any un-authenticated user.

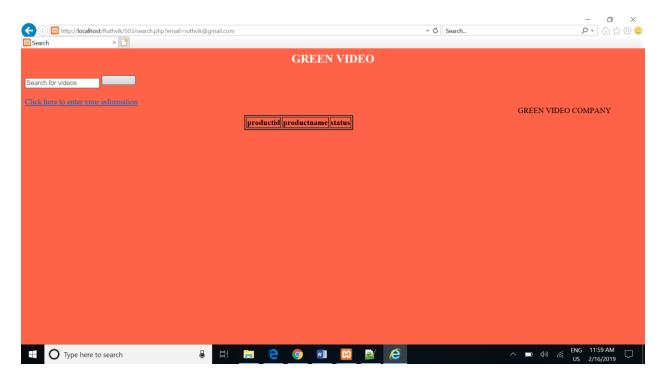
# This is my screen shot of the registration page



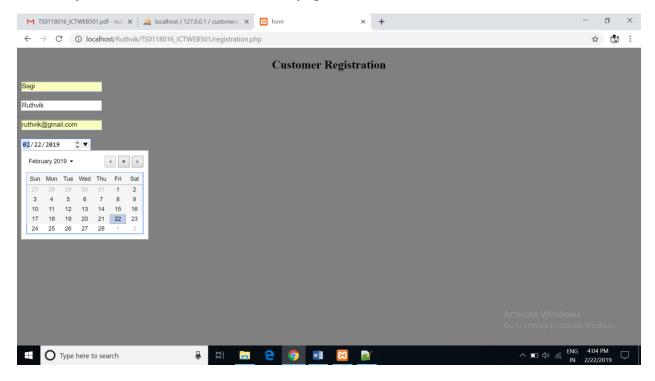
# This is the screen shot of my login page



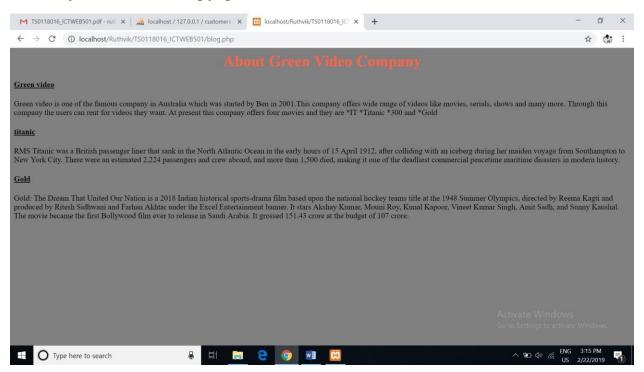
# This is the screen shot of the search page



# This is my screen shot of customer details page



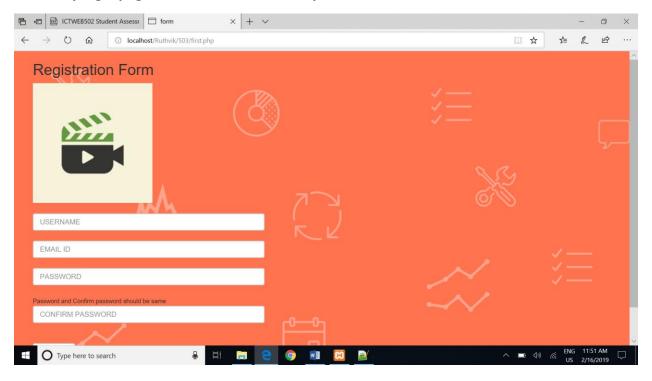
# This is my screen shot of blog page



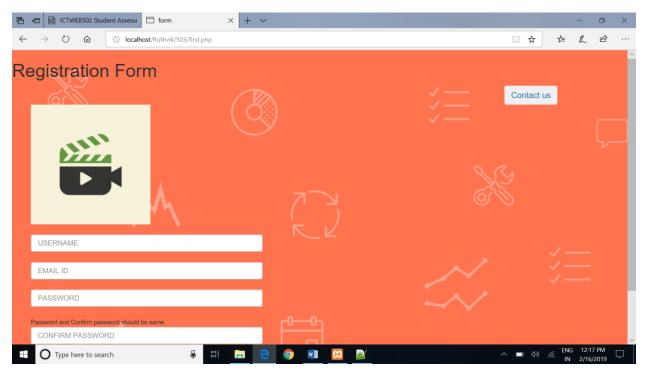
# **Rectifying the errors**

For the first time when I have created a website and submitted it to the client of green video company then he gave me a feedback about the website to have a contact us button in every page so that if the customer has any issue with the website then they can easily contact the green video company by seeing the details in that page. So as per the client requirement I have created a contact us page and connected it in every page so that the customer can easily resolve their issue.

This is my login page which does not have any contact us button.



# This is my login page which have a contact us button.



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Student Signature:	4.21
Date:	17/12/2018

ICTWEB502 Create dynamic web pages ICT50115 Diploma of Information Technology

	Assessment 2 – Written Test
Student Name:	CACIT RUTHVIIG
Student ID No:	750118016
Date:	

#### Student Instructions:

- This is an open book written test.
- You have 90 minutes to complete the test.
- Please read every question carefully. You must answer all the questions correctly to achieve satisfactory result for this assessment.
- If you are caught cheating/plagiarism, the test will be marked "Not Satisfactory" and you will be subject to the
  penalties stated in ATMC's Academic Conduct policy regarding cheating and plagiarism.

Student statement of academic honesty		
Student Name:	49I ROTHVIIG	
Student ID:	TLAIBA6	
Assessment Commenced (Date):	03/12/2018	
Assessment Completed (Date):	14/12/2018	
I hereby certify that I will undertake these assessment tasks utilising my own work without assistance from any other parties. I will not knowingly plagiarise any work in completing these assessment activities.  I am aware of ATMC's policy, P21 – Academic Conduct Plagiarism and Cheating.		
Student Signature:	\$.P4	
Date:	14/12/2018	

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	QUESTIONS		
1.	What is a variable? How is it used in the context of local, global, class and parameter data?  Describe in detail and list the basic data types used for variables and constants.	Satisfactory ☐ Yes ☐ No	
	A variable is an unknown value which is used to represent the data in a program. It is of three types  • Local variable is a variable which is declared within the function.  • Global variable is a variable which is declared outside the function and can be accessed anywhere in the program.  • Class variable is a variable which is declared in a class and it is not an instance variable.  Basic data types used for variables and constants are,  • Floating-point constants.  • Enumerations  • Character constants  • Escape sequences, etc.		
2.	What is a block and what is common way to identify this?	Satisfactory ☐ Yes ☐ No	
	If the group of statements were written in the enclosed curly braces then it is known as a block and when we write the group of statements in a curly brace, we can it as a block.		
3.	If we consider calling a function or procedure as altering the sequential flow of a program.  What are the other 2 mechanisms to achieve? Please describe with examples.	Satisfactory ☐ Yes ☐ No	

	The other two mechanisms include calling the function and retrieving the data form the database. Examples includes progress and compatibility.	
4.	What is a function? What is the difference between a function and a procedure?	Satisfactory ☐ Yes ☐ No
	A function is a piece of code which performs some operations and returns value. The functions will only have input values whereas procedures can have both input and output values. The function can be called from procedures but the procedures cannot be called form functions.	
	What is an active a int to a program?	Satisfactory
5.	What is an entry point to a program?	☐ Yes ☐ No

	An entry point is where the first instructions in a program is written, and where the program has access to command line arguments.	
6.	If a module is a grouping of sub programs in procedural programming, what is a class in terms of object oriented programming?	Satisfactory ☐ Yes ☐ No
	A class is a program-code-template for creating objects and an object is an instance of class and it also contains real values instead of variables.	
7.	What is an object?	Satisfactory  Set In No

	An object is the combination of data and procedures which works on available data and these objects will be saved in the variables. These objects are created using classes and a key word called 'new'.	
8.	What is a user defined type and how may it form a variable?	Satisfactory ☐ Yes ☐ No
	A user-defined data type is a data type which is derived from an existing datatype. We can use built in types which are already available and we can create our own customized datatypes.	
9.	What is an event and how can we respond to these in a program?	Satisfactory ☐ Yes ☐ No

	An event is something that happens when it is unusual or important. You can use events to describe all the things that are happening in a particular situation. These events respond is based on the users action.	
10.	When considering object oriented programs what is meant by the terms encapsulation and inheritance?	Satisfactory ☐ Yes ☐ No
	Encapsulation is the process of wrapping the properties together as a single unit and it is one of the four fundamentals in oops concept. Whereas, inheritance is the process in OOP and the polymorphism is achieved through inheritance.	
11.	What are dynamic web page, server-side dynamic web page and client-side dynamic web page?	Satisfactory ☐ Yes ☐ No

	A dynamic webpage is a webpage which changes the content each time the webpage is viewed and there are two types of webpages,  • Client-side scripting.  • Server-side scripting.  A server-side dynamic webpage is a webpage whose construction is controlled by an application server processing server-side script.	
12.	Why functional testing is required? What are included in functional testing?	Satisfactory  Yes  No
	The functional testing is required to test whether the software is providing the same output as per the requirements by the users or businesses.  Functional testing includes,	

pages ICT50115 Diploma of Information Technology Satisfactory 13. Why contributing stakeholders should be included in reviewing the technical requirements? ☐ Yes ☐ No The contribution of stakeholders is very important when we are reviewing the technical requirements because the stake holders in the company needs to know the changes in the company so that they can work efficiently in the company and they can also be perspective. Satisfactory 14. Why security testing should be included?

☐ Yes ☐ No

ICTWEB502 Create dynamic web

	The security checking is needed to find out the vulnerabilities in the webpage and from the security checking the data of the customers can be safe without any unauthorized action.	
15.	What guidelines must be kept in mind when testing usability?	Satisfactory ☐ Yes ☐ No
	The guide lines which we should follow when we are checking the usability testing are,  Choosing the subjects  Choosing tasks  Determining and recruiting the users  Defining the tasks within the test, etc.	
16.	Name 4 most popular web browsers that should be used to validate the dynamic web page for compatibility?	Satisfactory ☐ Yes ☐ No

	The four most popular web browsers which should be used for validating the dynamic webpage are,  • Chrome  • Firefox  • Microsoft edge  • Internet explorer	
17.	Explain why the web is considered stateless?	Satisfactory ☐ Yes ☐ No
	The web is considered as stateless because a stateless protocol does not require any server to retain session information about each communications partner. HTTP is stateless and the truncation ends when the connection between browser and server is lost.	
18.	What is the meaning of session in the context of web communications?	Satisfactory ☐ Yes ☐ No

The time duration for which a user stays on a particular site until user closes the browser or move on to the new site is known as session.

19.	What is the difference between get and post method in HTTP?	Satisfactory ☐ Yes ☐ No
	Mainly HTTP Post supply's additional data form browser to server in message body whereas GET will supply all the required data in the URL.	
20.	What is object-oriented programming?	Satisfactory  Yes No
	Object-oriented programming is a programming language model which depends on objects and data in the form of fields.	
21.	What is the benefit of using Objects in object-oriented programming?	Satisfactory ☐ Yes ☐ No

	Objects are used inside the classes and they are used for solving the problems using the classes. We can even create the new objects in the classes by creating new keywords.	
<b>-</b>	Page	
22.	In your own words, explain the procedure of web-based authentication in a server side programming language such as PHP? Is there any security concern about the procedure?	Satisfactory ☐ Yes ☐ No
	There are three steps for creating the web based authentication in php and they include,  • Firstly, need to create a database with users table  • Secondly, we need to create user login panel to submit login details to php.  • Finally, we should compare user login details the user database.  Yes, we should have some security concerns for creating a authentication form that, the details entered in the form should store securely and no other stranger should access the users details.	
23.	List ways to make web stateful (keeping information temporarily or permanently)?	Satisfactory ☐ Yes ☐ No

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ICTWEB502 Create dynamic web pages ICT50115 Diploma of Information Technology

Assessment 2 Result:	☐ Satisfactory		□ Not Satisfactory		
Assessor Comments/Feedback on student's performance:					
Assessor: I declare that I have conducted a fair, valid, reliable and flexible	Assessor Name:	Student: I dec have been ass unit, in a fair a	essed in this	Student Name: CACT_RUTHVI/4	
assessment with this Student, and I have provided appropriate feedback	Signature:	manner.		Signature:	
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ICTWEB502 Written test v2.2

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