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*I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

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## INTRODUCTION

This individual coursework is about creating an ecommerce website with at least 5 web pages including product, blog, research and contact us page which should be functional good looking and responsive to some extent. This website can directly increase the sales and promotion of the products.

Creating 5 pages of website was not that easy. Detailed researcher was done prior starting the designing and development phase. While doing the coursework the main aim was to complete the coursework on the due date and objective was to create a beautiful and responsive website. The process of development was very much difficult because we were totally new to CSS and JavaScript. Tutors and lecturers helped a lot to complete this coursework.

HTML5, CSS and JavaScript were used to build this website, HTML is the markup language devised to allow website creation. Hyper Text is the method by which user can surf the web. Text, images and other visual content are displayed on the browsers. (Shannon, 2018)

Cascading style sheets referred as CSS is a simple designing language intended to simplify the process of making web pages presentable. CSS describes how the HTML content should look like on the screen when users' browse the website. (W3Schools, 2016)

Java Scripts can be called as the programming language for the web. Java script is used in the web to change and update both HTML and CSS. Java Script can calculate, manipulated and validate data. JS is client-side script to interact with the user and make dynamic pages. These days there are many libraries and frameworks which has made JavaScript even more popular. JS are used these days in servers and AI as well. (TutotialsPoint, 2014)

Detailed research were done from many website to achieve the main objective of the coursework which was to finish it on time.

## DISCUSSION AND ANALYSIS

This website was created using simple HTML, CSS and JavaScript. Visual Studio Code was used for the writing codes and Balsamic was used to draw the wireframes. Wireframe is a way to design a website service at the structural level. A wireframe is commonly used to layout content and functionality on a page. Wireframes displays the architecture of the website before the development process. (HAAS, 2011)

Taking the reference of the wireframes which was created earlier all the website were developed.

### Home

Home page consist of the navigation bar and image behind the navigation bar with the special discount message to attract the customers. Below that there is newsletter section in which the users can get monthly email of special recipes. Below that table to display the text and the image slider was created. Image slider was created to show the images of the cakes. And footer section has the button navigation bar and the copyright section below that shows the today's date and time.

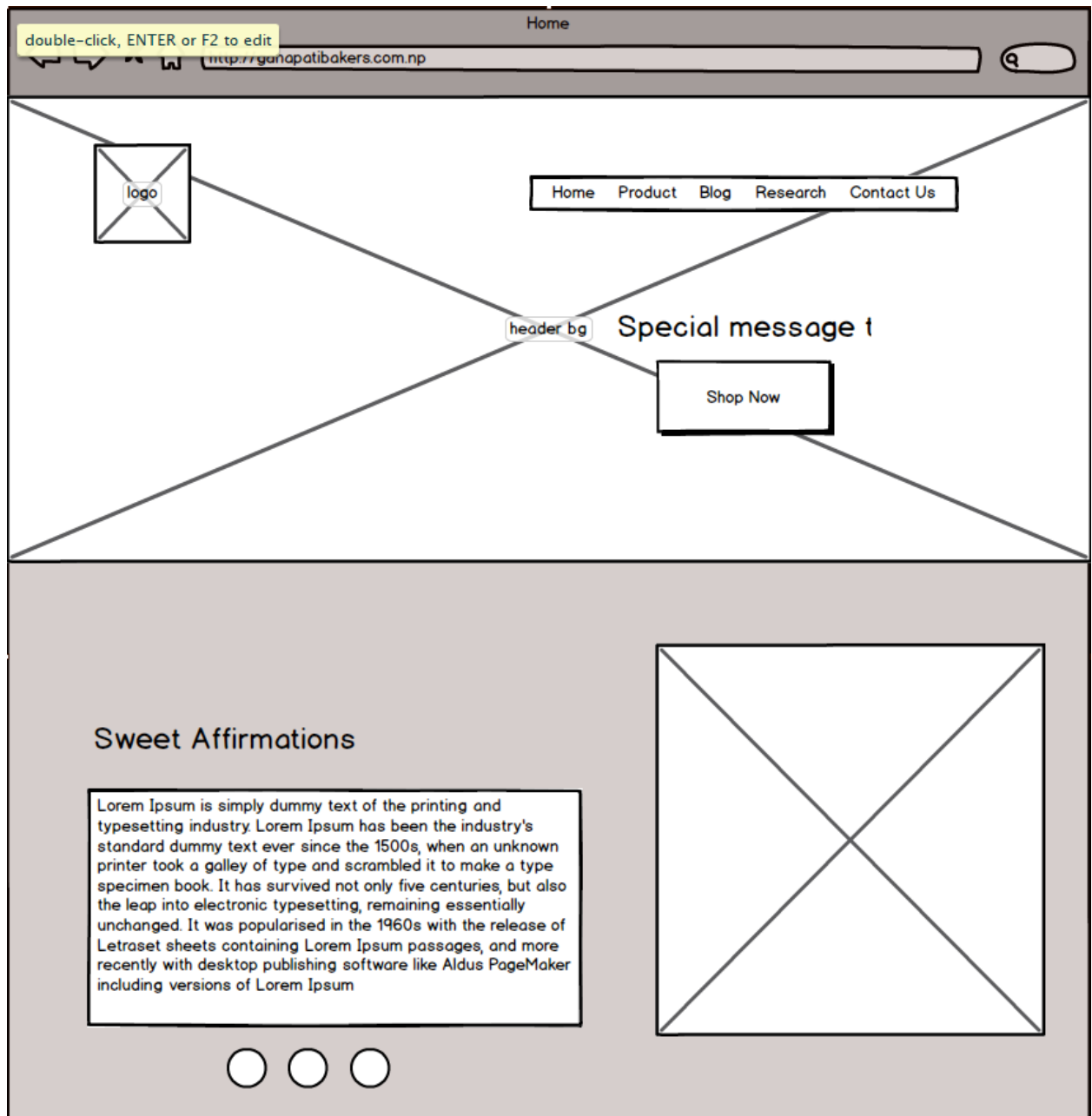


Figure 1: Wireframe of Home Page



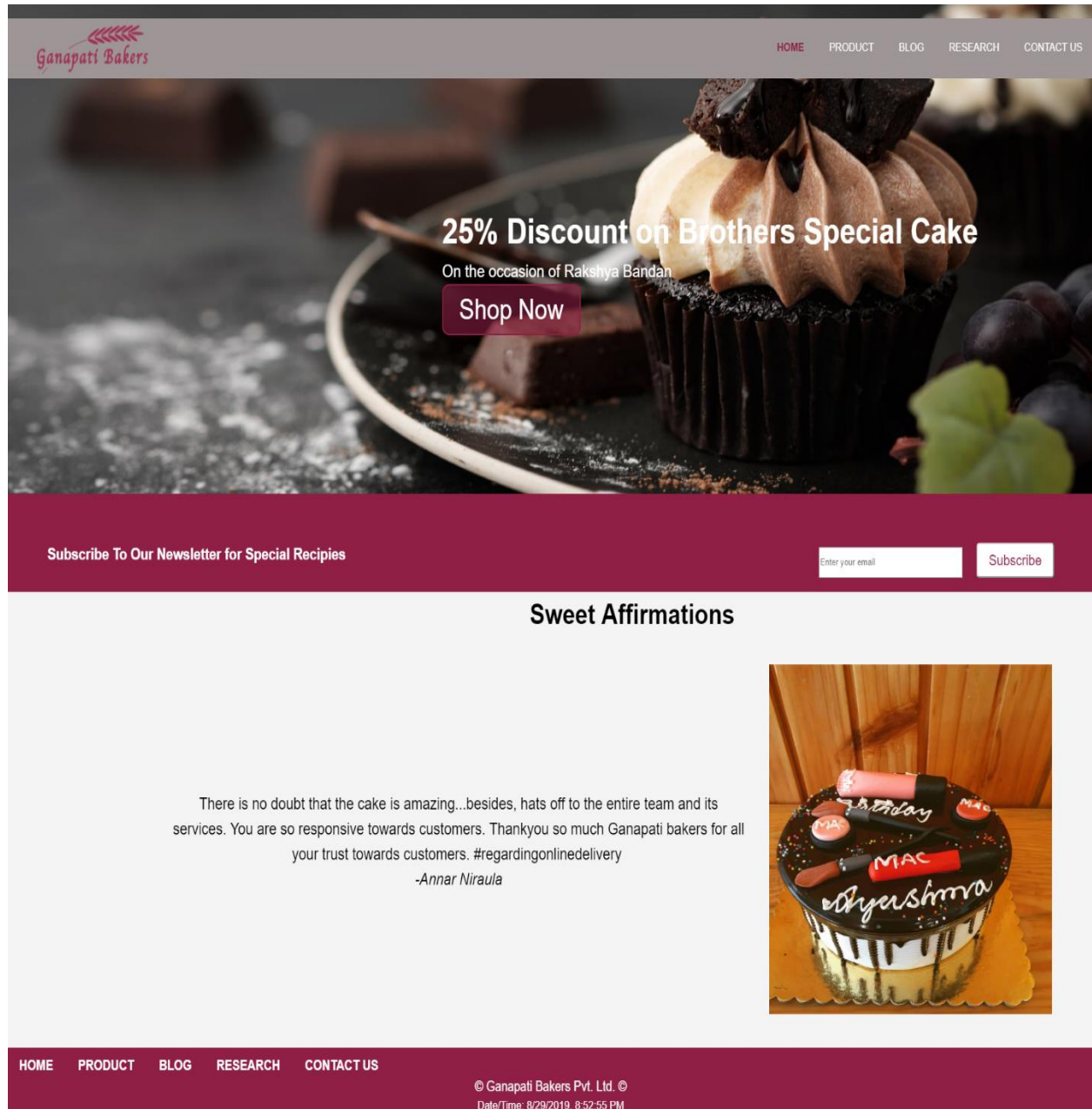


Figure 2: Design of Home Page

## Product Page

Product page was designed in such a way that customers visiting the website can see the picture of the products and can navigate to the details page of the product and the header message has the button through which the user are navigated to contact page if they have difficulty in choosing products.

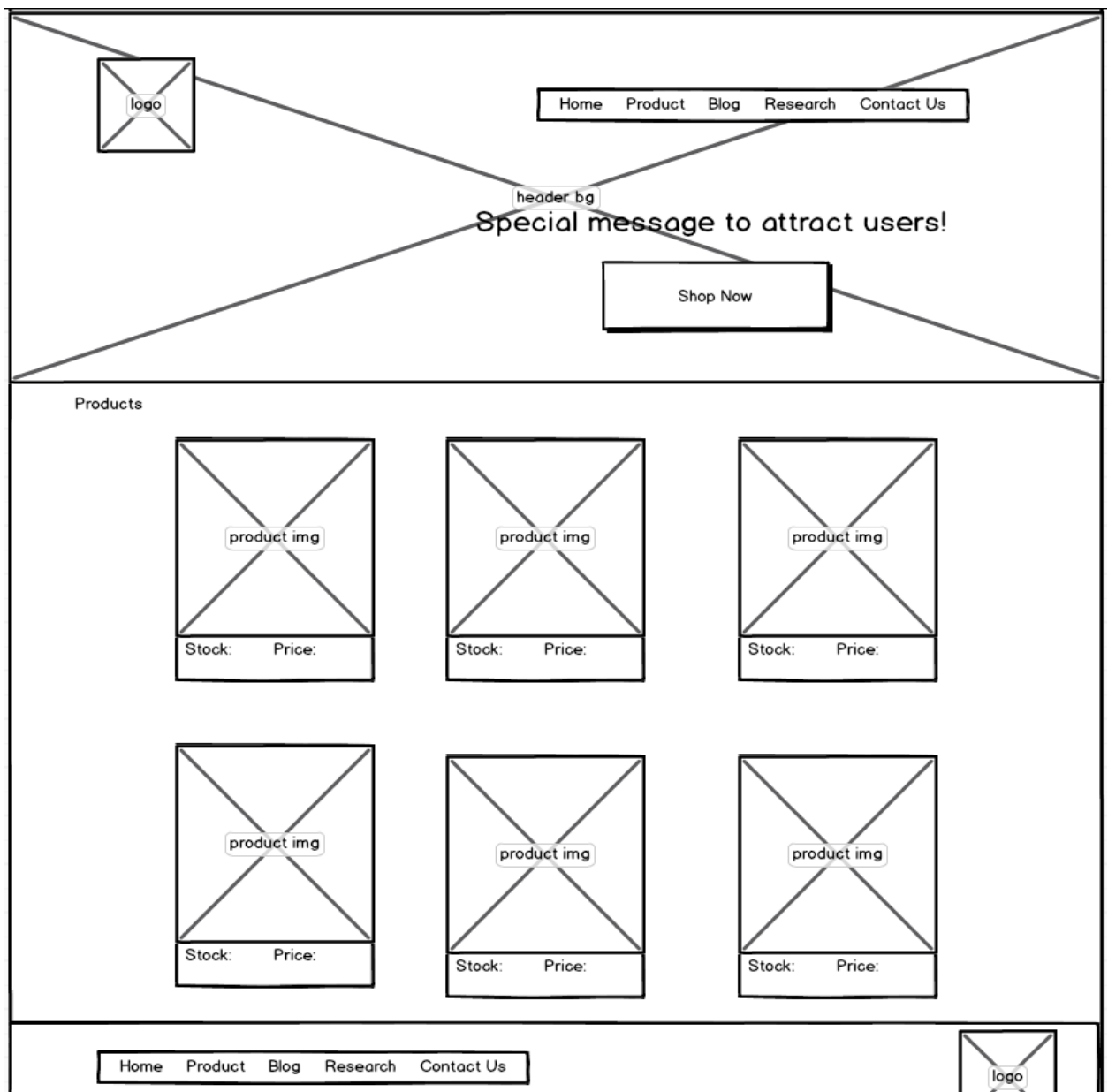


Figure 3: Wireframe of Product page

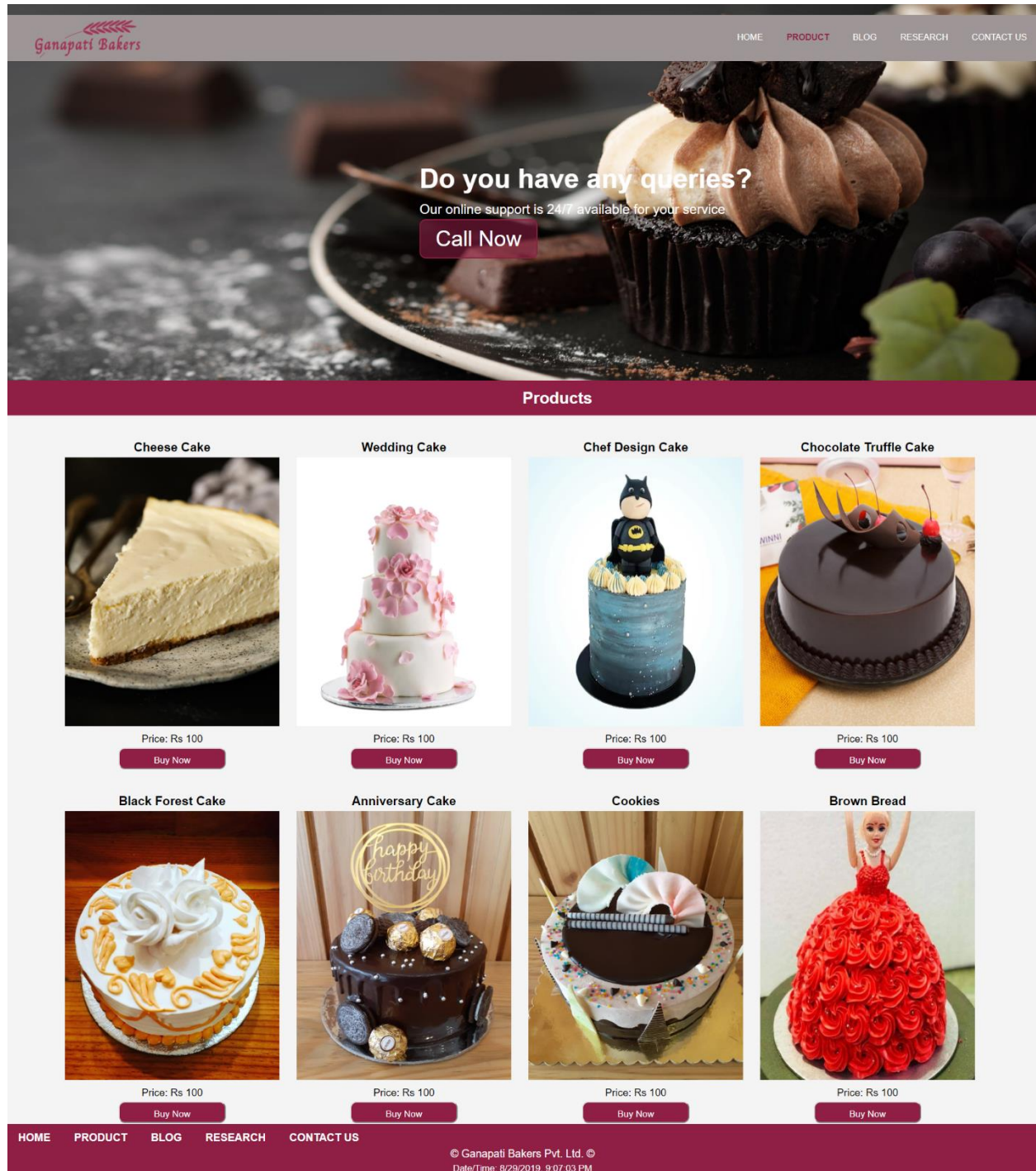


Figure 4: Design of the Product Page

## Blog

Blog page was created to give the information about the technologies which has influenced the ecommerce and how is this website working and many more information. Blog post were written to give the information of the technology that are changing the style of business and modernizing the business. Wireframe and the website do not match because some of the designs were changed in the development phase.

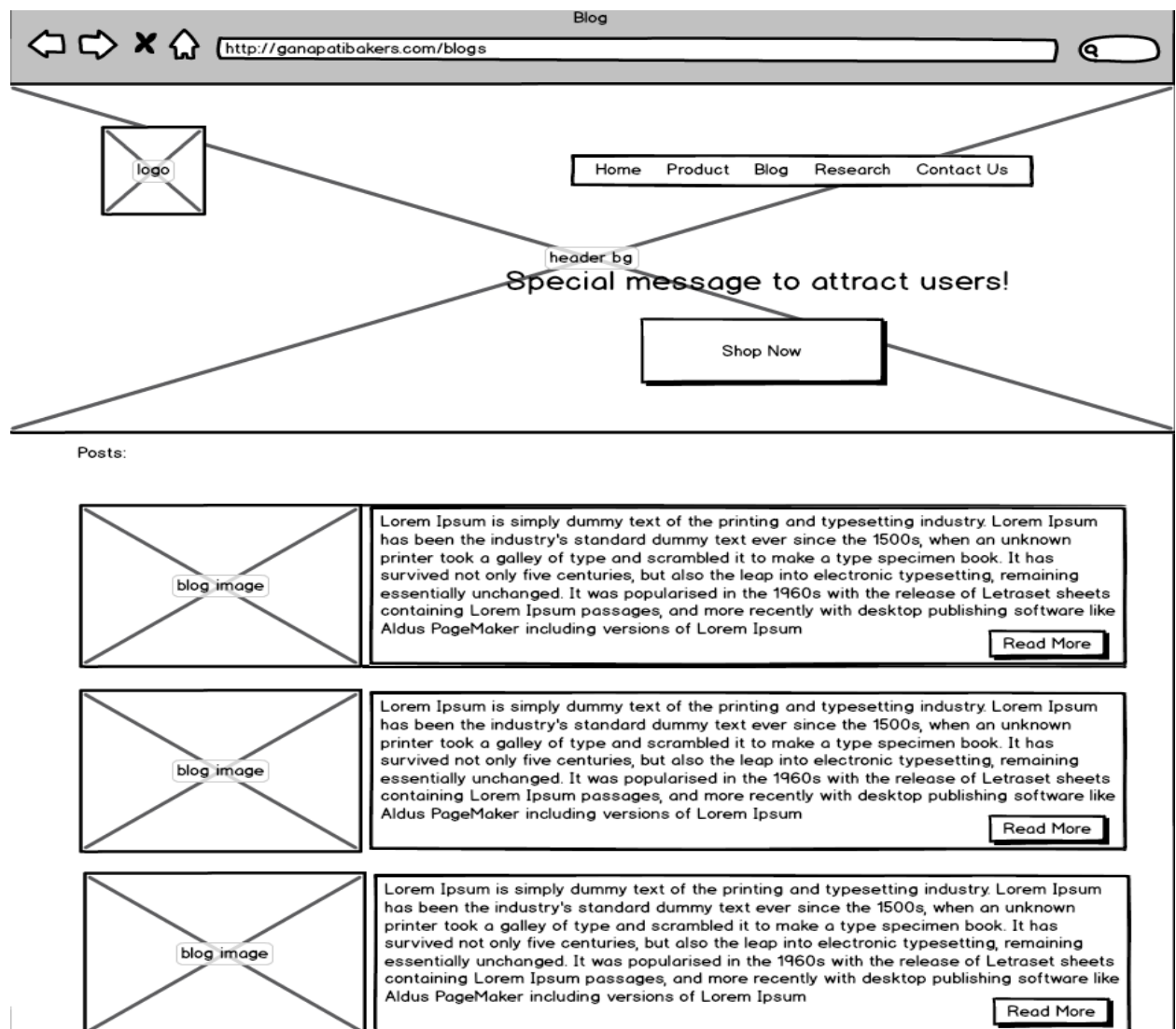


Figure 5: Wireframe of Blog Page



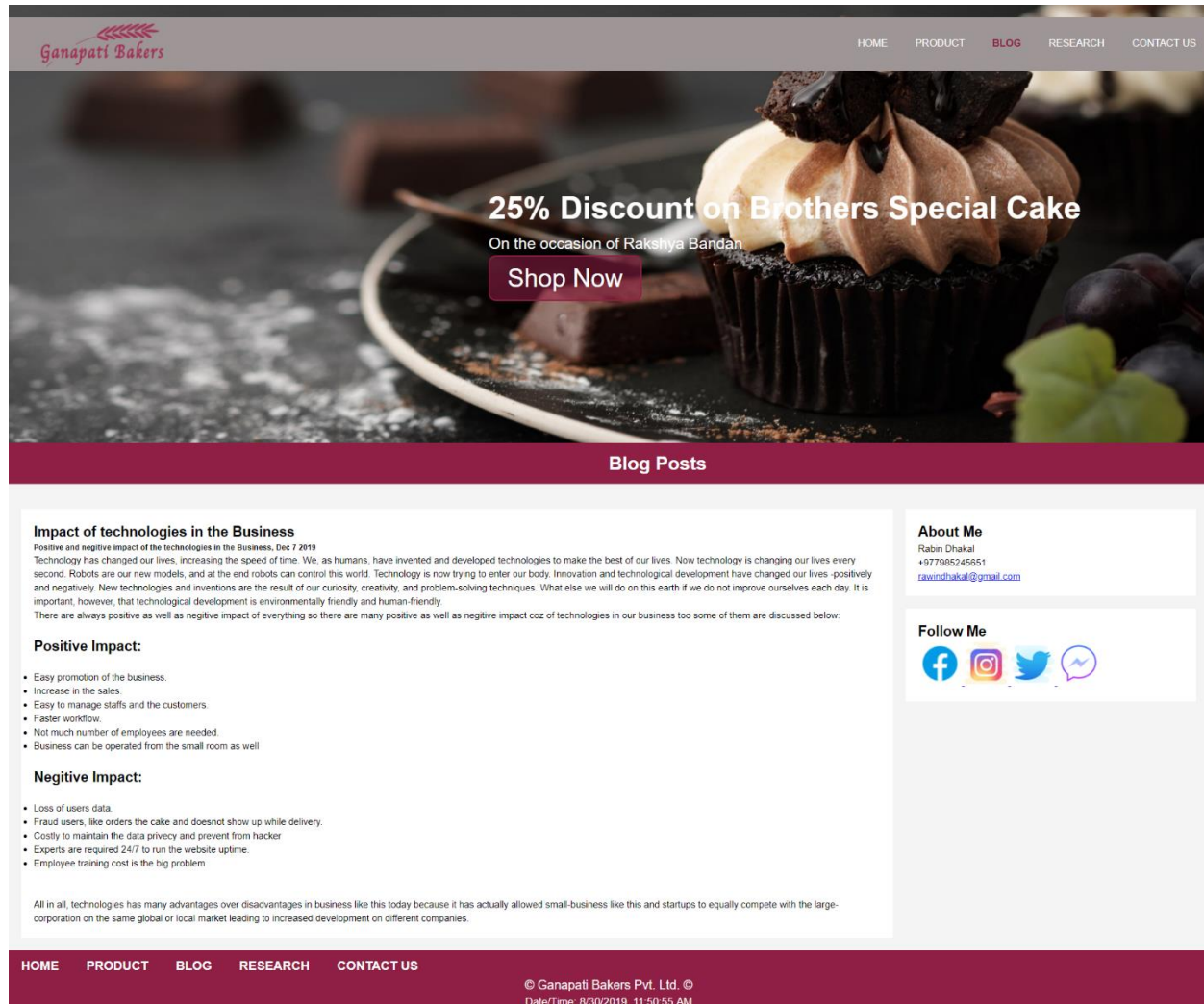


Figure 6: Design of the blog page

## Research Page

Research page was created to prove that the research was done during the development of the website. Screenshot of the website from where the ideas were taken are display here in the tabular form. Original designs are little different than the wireframes.

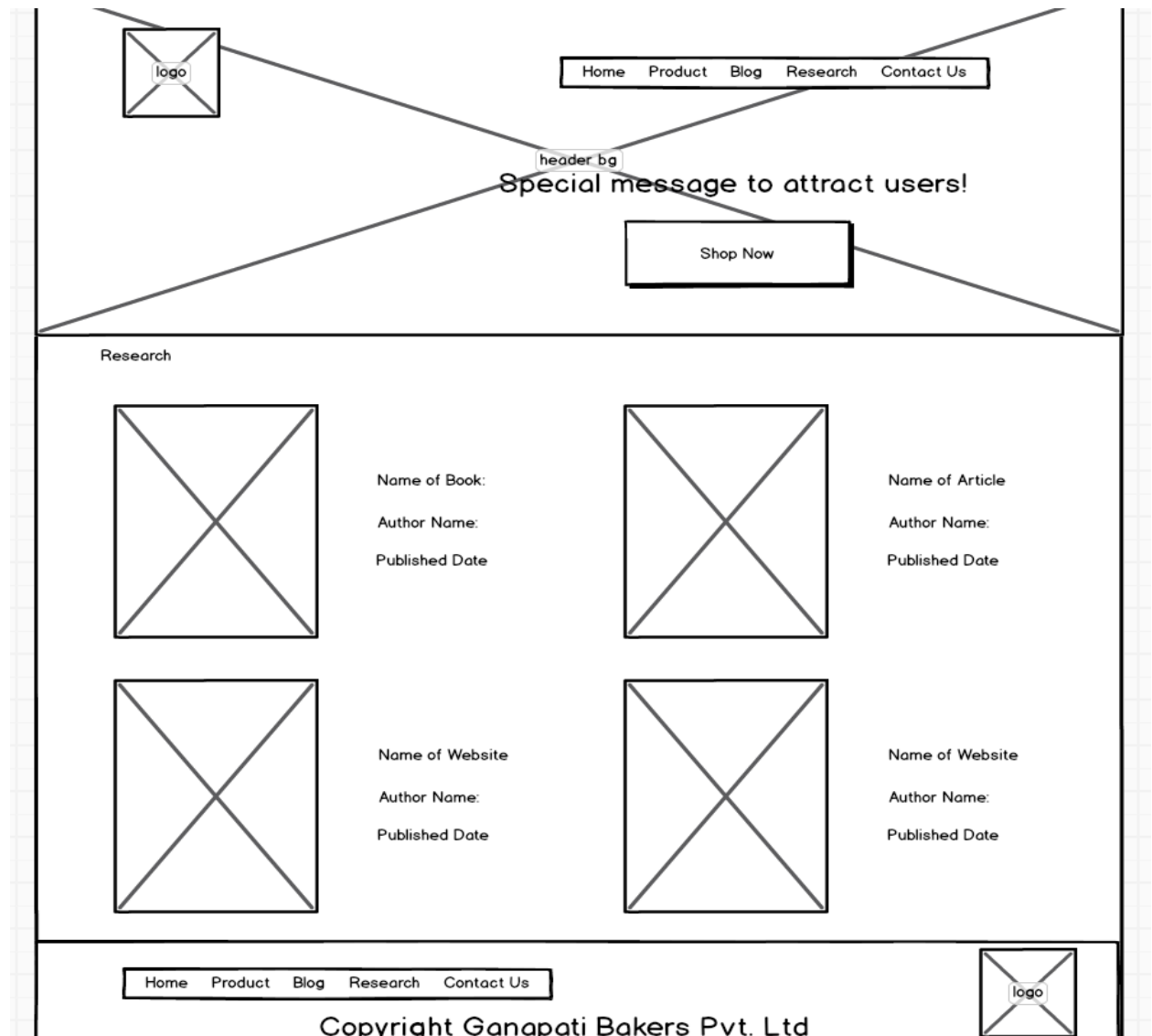



Figure 7: Wireframe of the Research page



HOME PRODUCT BLOG RESEARCH CONTACT US





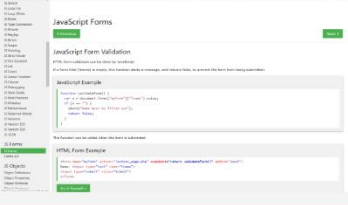
25% Discount on Brothers Special Cake

On the occasion of Rakshya Bandan

Shop Now

Research

Screen Shot of the website

Details

Color combination for this webpage is inspired from bakers delight's website which is show below  
Big image on the page with the message is also inspired from the same page.  
Website name: Bakers Delight  
[Click Here>>>>](#) To visit the Website

Main navigation bar is inspired from the bakery cafe's website.  
Website Name: The Bakery Cafe  
[Click Here>>>>](#) To visit the Website

The message beside the image slider was inspired from baverlysbakery's website. In this website the text is not sliding but the image is sliding.  
The concept was changed during the development.  
Website Name: baverlysbakery  
[Click Here>>>>](#) To visit the Website

The concept for the blog post and to use date and time in website was taken from onlinekhabar's website  
Website Name: Online Khabar  
[Click Here>>>>](#) To visit the Website

Most of the thinks were inspired and learned from the website of w3school. During the development lots of information were collected from this site. All the JS part was taken from this website [Click Here>>>>](#) To visit the Website

HOME PRODUCT BLOG RESEARCH CONTACT US

© Ganapati Bakers Pvt. Ltd. ©  
Date/Time: 8/29/2019, 9:11:16 PM

Figure 8:Design of the Research Page

## Contact Us Page

Contact us page was created to show the detailed location and the contact information of the company through which the user can contact. Embedded google map was used in our page which was copied from google maps. And list of social media icons was given which redirects users to the company's social media pages. Lastly, contact us form was made, and validation process of the form has been handled by the JavaScript.

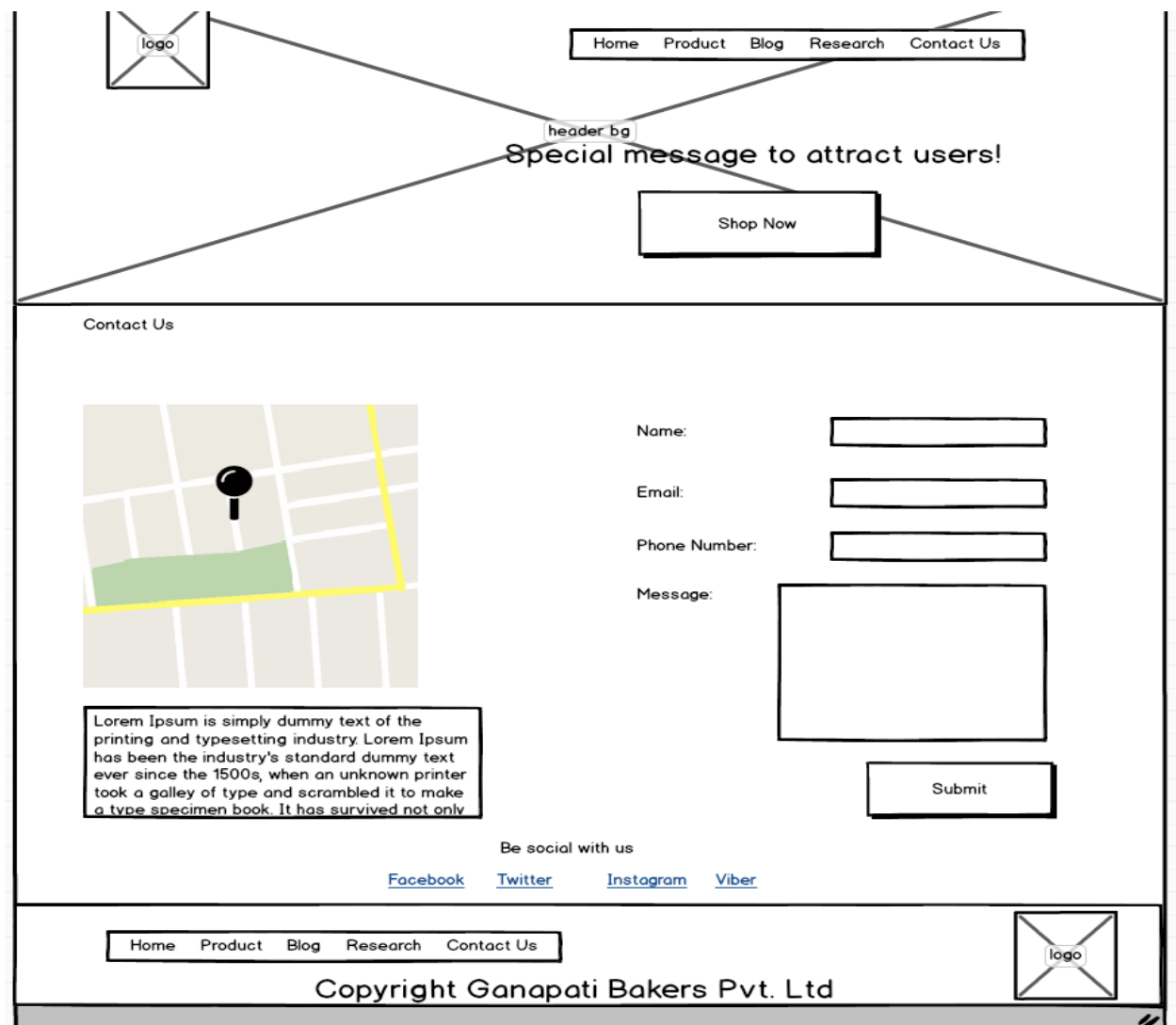


Figure 9: Wireframe of Contact us page



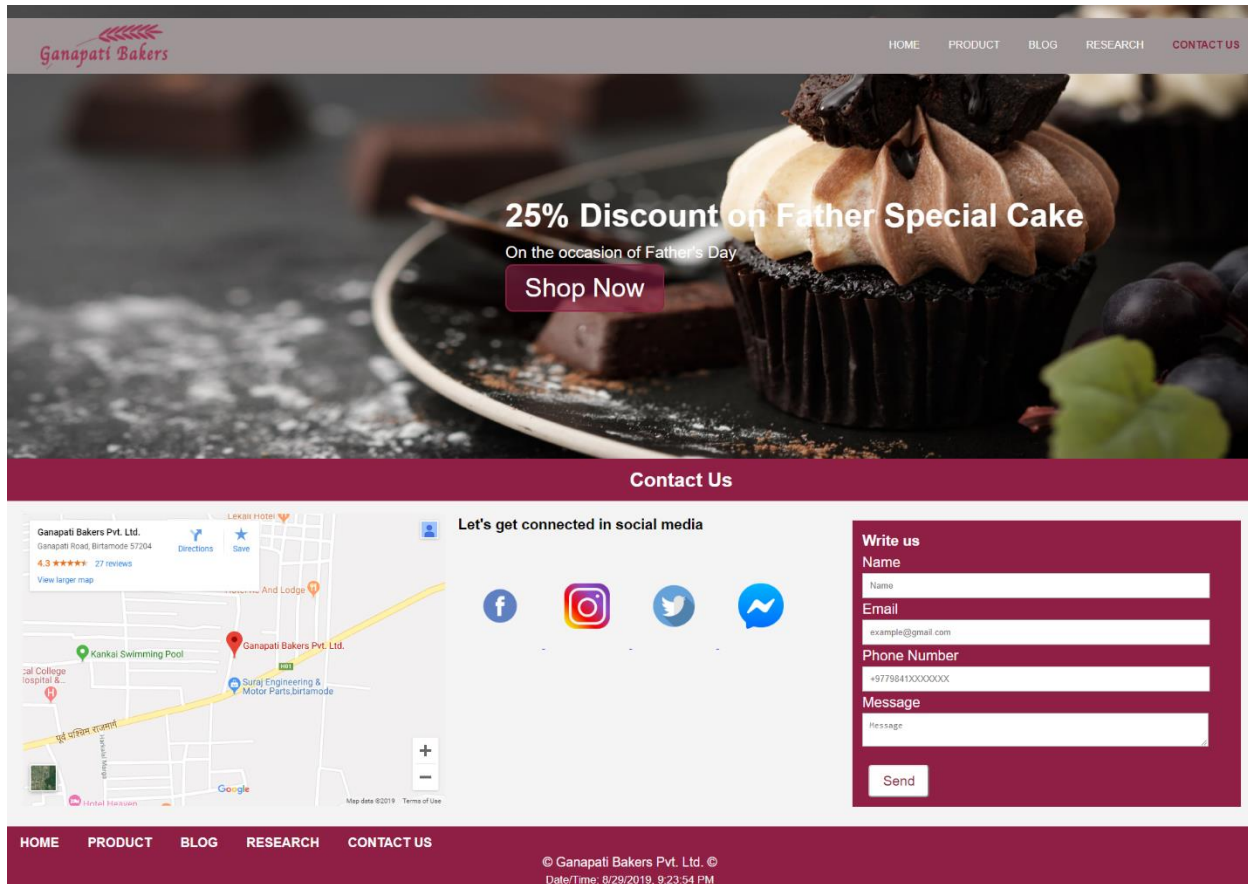


Figure 10: Design of Contact Us Page

## Product Description Page

Product description page was created to display the detailed information about the product and for ordering the product which has different option to choose from.

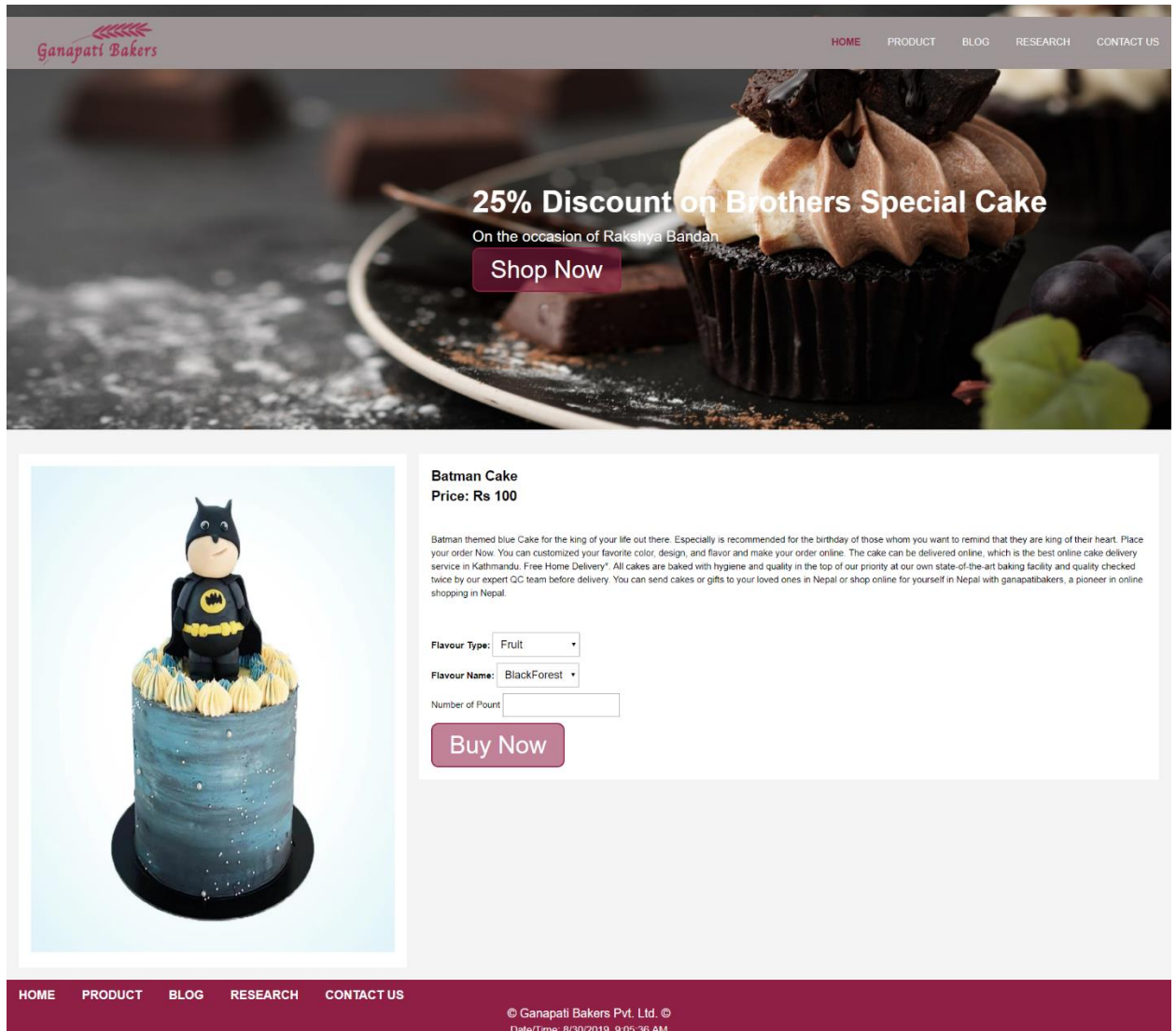


Figure 11:Design of Product Description Page

## TESTING

Testing is another important part of software development. Testing makes sure that program created is bug free. It is essential to test the program after the coding part is completed to know that the written codes don't have any bugs in it.

For this program black box testing was done to verify that all the JavaScript, CSS animation and hyperlinks are working. Output should be shown corresponding to the given inputs.

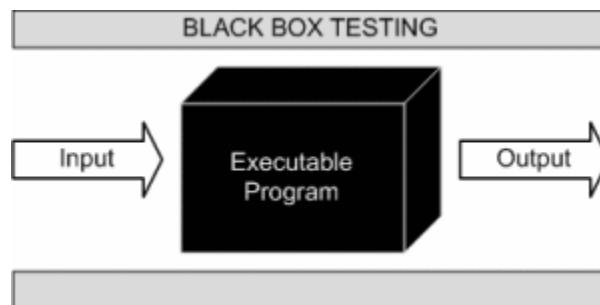


Figure 12: Black Box testing (softwaretestingfundamentals, 2015)

### Test 1

Hover animation of the button must change when the cursor is placed on the button.

Table 1: Hoover test

Objective	Checking the hoover effect of the button.
Action	<ul style="list-style-type: none"><li>• Website was opened</li><li>• Courser was hovered over the button</li></ul>
Expected Result	Translucent button will be filled with the solid color
Actual Result	The courser was hovered over the button and the effect was captured
Test Status	Passed

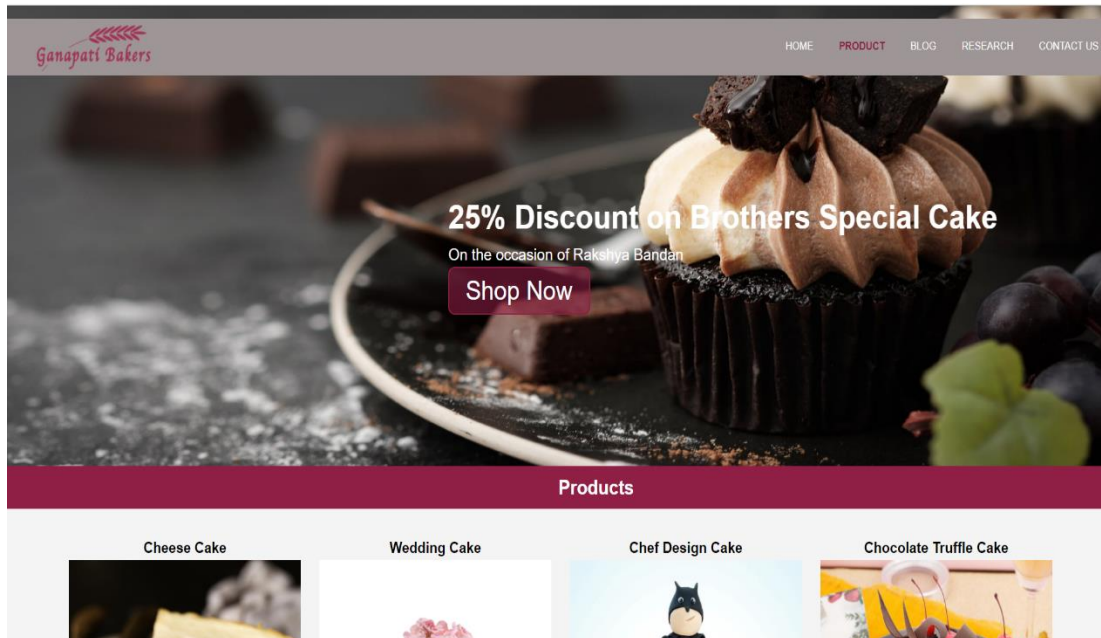


Figure 13: Before the courser was hovered

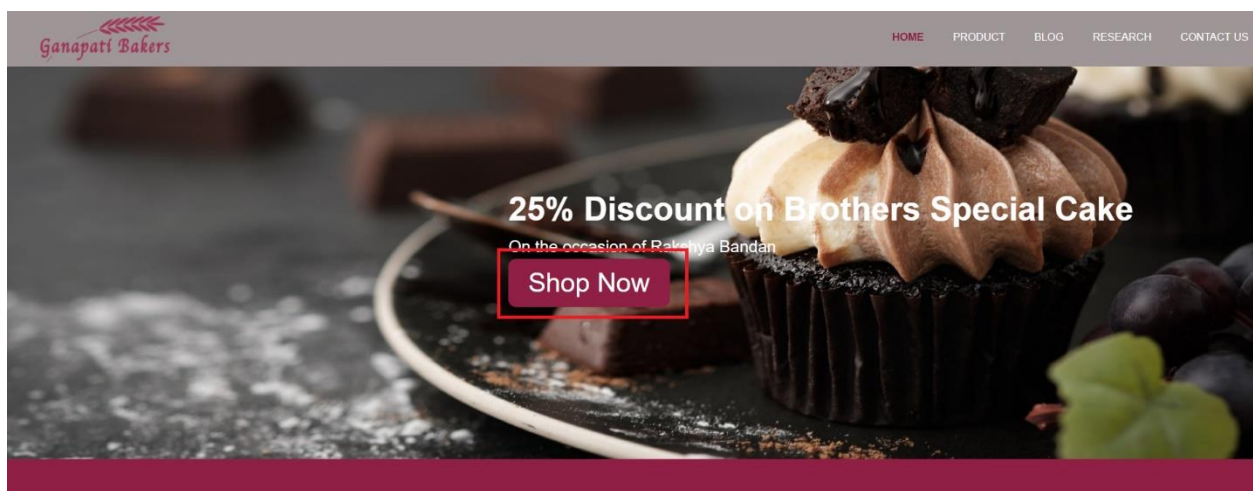


Figure 14: After the courser is hovered

**Test 2**

Objective	Checking the functionality of the image slider.
Action	<ul style="list-style-type: none"> <li>• Website was opened</li> <li>• Image slider was evaluated</li> </ul>
Expected Result	Image must change
Actual Result	Image was changed every 3 seconds
Test Status	Passed

**Table 2: Image Slider test**

There is no doubt that the cake is amazing...besides, hats off to the entire team and its  
ices. You are so responsive towards customers. Thankyou so much Ganapati bakers for  
all your trust towards customers. #regardingonlinedelivery  
-Annar Niraula

**Figure 15: Image Slider Test 1**

There is no doubt that the cake is amazing...besides, hats off to the entire team and its  
services. You are so responsive towards customers. Thankyou so much Ganapati bakers for  
all your trust towards customers. #regardingonlinedelivery  
-Annar Niraula

**Figure 16: Image Slider Test 2**

There is no doubt that the cake is amazing...besides, hats off to the entire team and its services. You are so responsive towards customers. Thankyou so much Ganapati bakers for all your trust towards customers. #regardingonlinedelivery  
-Annar Niraula



Figure 17: Image Slider Test 3



### Test 3

Form validation test was done based on the various conditions.

Objective	To get error when the form is submitted when all the fields are empty
Action	<ul style="list-style-type: none"><li>• Website was opened</li><li>• Navigated to contact us page</li><li>• Send button was clicked</li></ul>
Expected Result	Error must be shown above the button saying "All the fields in the form are mandatory"
Actual Result	There was the error message saying all the fields are mandatory
Test Status	Passed

**Table 3: Form Validation Test When all field are empty**

**Write us**

**Name**

Name

**Email**

example@gmail.com

**Phone Number**

+9779841XXXXXXX

**Message**

Message

**\*\*All the field in the form are mandatory!**

**Send**

**Figure 18: Form Validation Test When all field are empty**

Objective	To get error when the form is submitted without the message
Action	<ul style="list-style-type: none"><li>• Website was opened</li><li>• Navigated to contact us page</li><li>• Name, phone number, email field were filled and send was clicked</li></ul>
Expected Result	Error must be shown above the button saying, "Message field is empty."
Actual Result	There was the error message saying Message is empty
Test Status	Passed

Table 4: Form Validation Test When message field is empty

The screenshot shows a contact form titled "Write us" on a dark red background. The form contains four input fields: "Name" (filled with "Rabin Dhakal"), "Email" (filled with "rawindhakal@gmail.com"), "Phone Number" (filled with "9841354276"), and "Message" (empty). Below the "Message" field, a red error message reads "\*\*Message is empty!". At the bottom of the form is a white "Send" button.

Figure 19: Form Validation Test When message field is empty



Objective	To get error when the form is submitted without name
Action	<ul style="list-style-type: none"><li>• Website was opened</li><li>• Navigated to contact us page</li><li>• Message, phone number, email field were filled and send was clicked</li></ul>
Expected Result	Error must be shown above the button saying, "Name field is empty."
Actual Result	There was the error message saying Name is empty
Test Status	Passed

Table 5: Form Validation Test When name field is empty

**Write us**

**Name**

Name

**Email**

rawindhakal@gmail.com

**Phone Number**

9841354276

**Message**

fasf

**\*\*Name cannot be empty!**

**Send**

Figure 20: Form Validation Test When name field is empty

Objective	To get alert message while form is validated
Action	<ul style="list-style-type: none"> <li>Website was opened</li> <li>Navigated to contact us page</li> <li>Message, phone number, email and name field were filled and send was clicked</li> </ul>
Expected Result	Alert message must be displayed
Actual Result	There was the alert message saying Thank you for the feedback
Test Status	Passed

Table 6: Form validation when all the field are entered

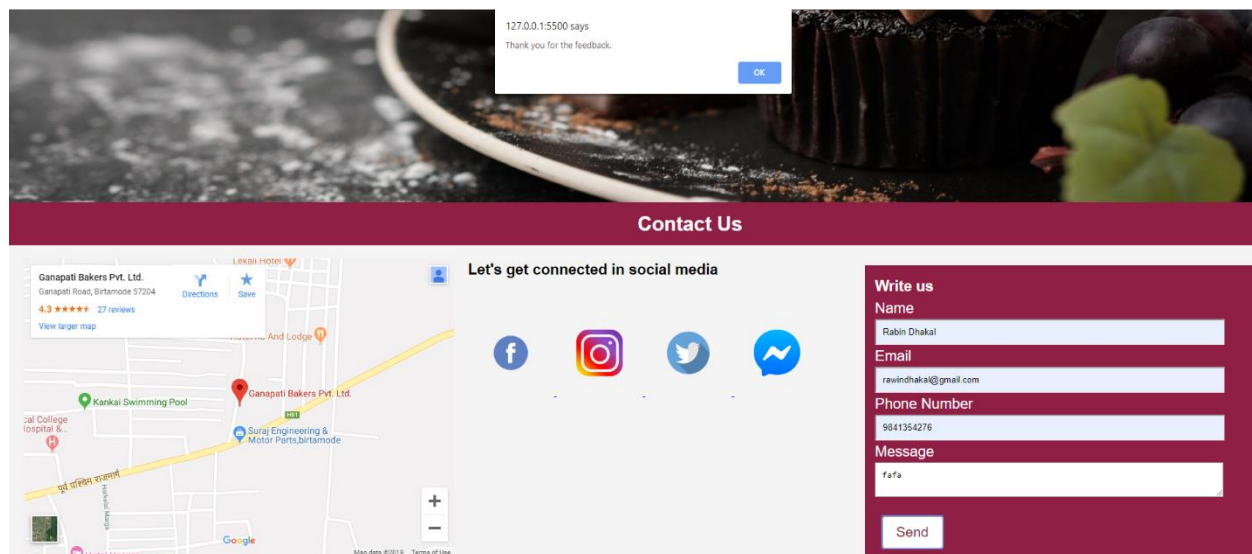
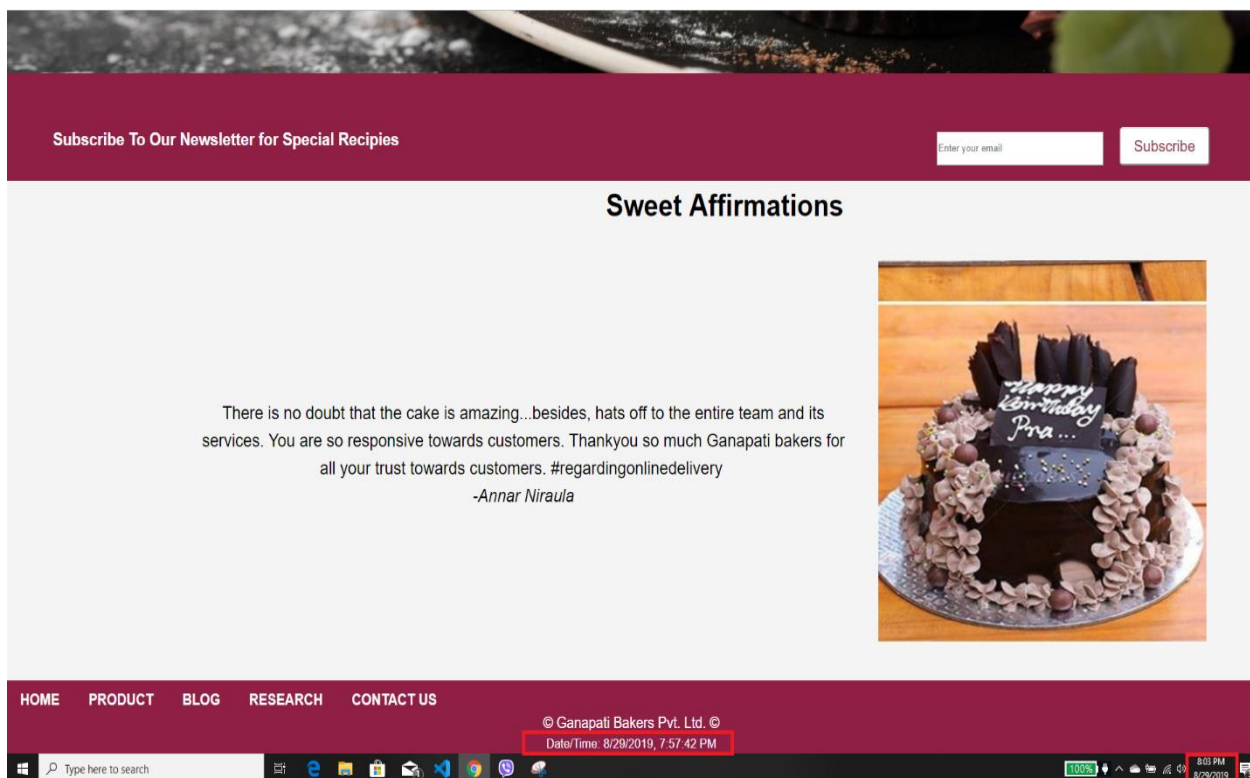


Figure 21: Form validation when all the field are entered

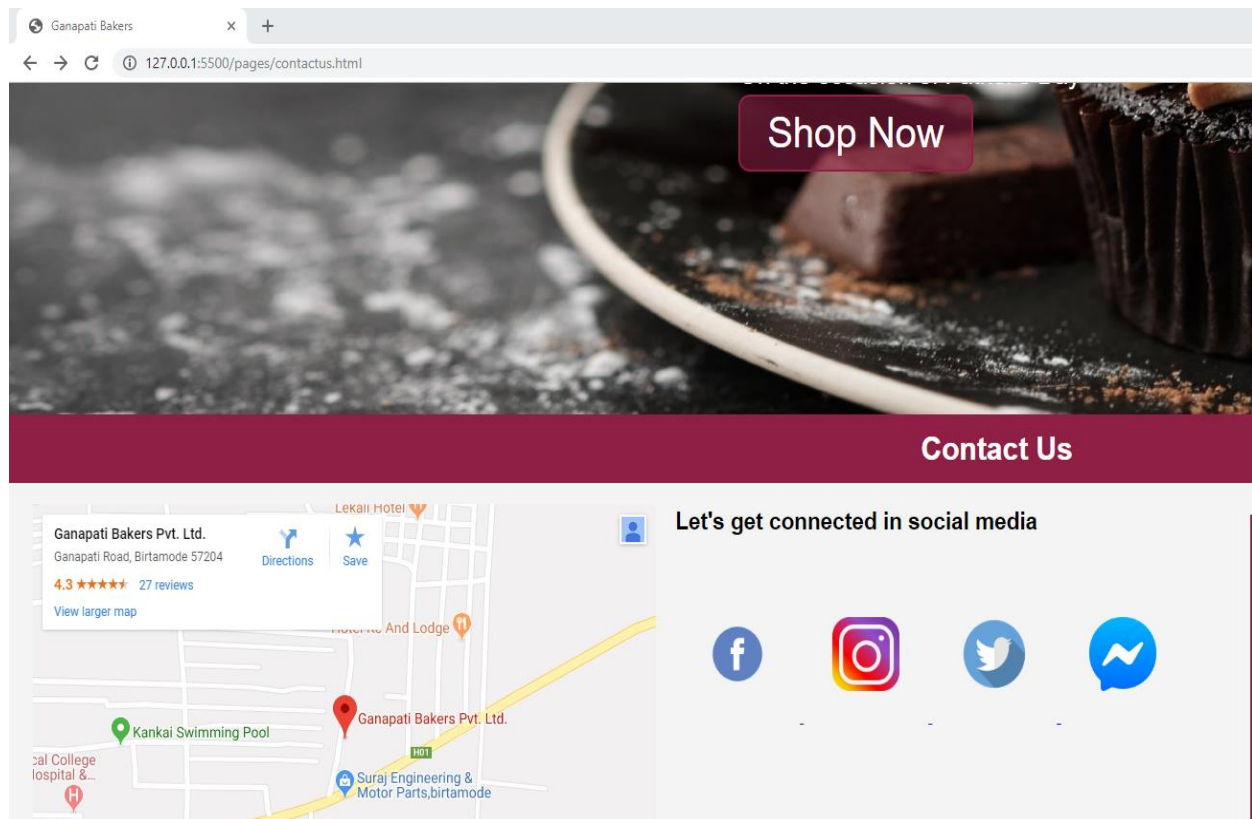
**Test 4**

Objective	To get the same date and time in website and computer taskbar.
Action	<ul style="list-style-type: none"> <li>Website was opened</li> <li>Date and time in the computer task bar and website were analyzed</li> </ul>
Expected Result	Must be same in both the place
Actual Result	Date and time were same in both the place
Test Status	Passed

**Table 7: Testing Date and Time****Figure 22: Testing Date and Time**

**Test 5**

Objective	To open the external links in a new tab.
Action	<ul style="list-style-type: none"> <li>Website was opened</li> <li>Navigated to contact us page</li> <li>Instagram icon was clicked</li> </ul>
Expected Result	Instagram page should opened on another tab.
Actual Result	Instagram page opened in a new tab.
Test Status	Passed

**Table 8: Testing links****Figure 23: Testing link Social Media**

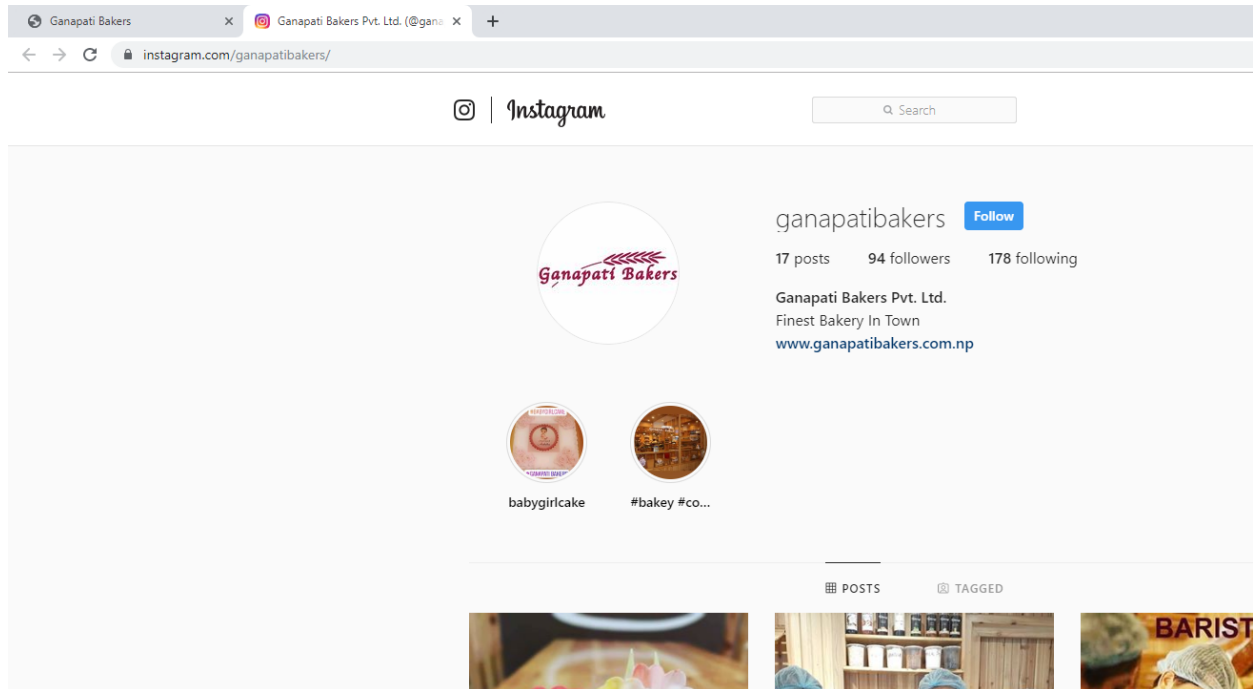


Figure 24: Loaded Instagram on another page

## CONCLUSION

This coursework was assigned on 22<sup>nd</sup> week. After completing this coursework many internet technologies and the impacts that internet has made in the daily lives, design and develop the website with the web technologies like HTML, CSS and JavaScript were understood. Understanding the structure of the website and simple navigating principles was fun.

To complete this coursework, reference of various ecommerce website was taken and constant consultation with the tutor was made regarding the confusions in designs and development as well. Before starting the coursework researched many websites and specially w3school helped a lot during the confusion. Visual Studio Code did a tremendous help throughout the coursework with its features of auto indentation, code completion, live servers and many more.

This coursework helped to learn more about the HTML, CSS and JavaScript. Which will be helpful to become the front end web developer.

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