

Web-Based Application for Restaurant Online Table Reservation

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ABSTRACT

This Cheesy Grills Restaurant Online table reservation website project is developed to transform the old and traditional methods that the restaurants mostly use into a new and more efficient process. The conventional table reservation inconveniences staff and customers as it requires much manual work, and all these human errors will cause customer dissatisfaction with the restaurant. Therefore, this online table reservation method is designed and developed to help the restaurant better manage. With this table reservation system, customers can quickly log in to the website and fill out the reservation form online in less time. The customers do not need to wait to reserve a table, and the customers will be more satisfied with this table reservation method.

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Chapter 01 – Introduction to the Project

Cheesy Grill is a restaurant located in Badulla near Rock Hills Mountain. Rock Hills is a beautiful mountain located in Badulla. Currently, they are offering their services to a large number of customers daily. Their customer base is growing day by day because of their location and the quality of their food. Even though this is a small restaurant. With the growing customer base, controlling the restaurant's crowd is challenging. Day by day there is vast customers and table are not enough for customers. For that reason, they are not satisfied with restaurant services. Therefore, this restaurant is required to move to a computerized solution to manage restaurant crowd and table reservations. This will help to run their operations smoothly and in a more efficient manner. The suggested website allows Cheesy Grills restaurant to increase customer satisfaction and reduce the restaurant crowd. This website will enable customers to quickly and easily fill out the reservation table form. Restaurant staff also quickly view any tables remaining and respond to email if the reservation is successful.

Chapter 02: Background Description.

People like to dine in a restaurant for their meals nowadays. There are a lot of reasons why people prefer eating out. One of the reasons is that they lazy to cook after work. People will feel tired after more than 7 hours of work. Therefore, they do not have any energy to prepare their meals. In addition, university students have a lot of work to do, such as assignments, tutorials, and participating in curriculum activities. It will be more convenient if they eat in a restaurant than cook. As more and more people eat in the restaurant, the restaurant manager should make changes to increase customer satisfaction. Traditionally, customers have to go restaurant and wait to reserve a table. Sometimes there is no any table due to full of customers. All this inconvenience will cause the customers to be unsatisfied with the restaurant's service. The customers are demanding simplification tasks such as booking movie tickets nowadays. Therefore, the restaurant also should make changes. With the new changes, the customers can make table reservations through the restaurant website. Also, if there is any event, customers can inform about it through the website. The customers do not need to wait to be at a table, usually at peak hours. After they Reserve a table using the website, they need to wait for the response email.

In conclusion, inform the customer that your table is successfully reserved via email if there is a remaining table restaurant. This website can help improve restaurants' and customers' current methods and convenience. After this project has been done, this website will be beneficial for many restaurants.

Chapter 03: Identified Problem.

"Cheesy Grills" is a Restaurant located in Badulla. Their table reservation process is currently manual and time-consuming. Customers cannot reserve a table before they visit the restaurant. They have to visit the Restaurant and reserve a table. Then they have to wait until the table is ready. Sometimes it takes more time. This restaurant is bustling in the morning and evening after 6 pm because the restaurant is located in a very attractive place, near Badulla. Therefore, the restaurant is always full. Currently, customers have to come to the restaurant to reserve a table. Sometimes customers have to wait a long time to reserve a table during busy times. Also, very long queues are there. It is difficult for the customer, and the restaurant also faces big problems when managing events.

It is unsuitable for the restaurant because it will break the customer's trust and miss the opportunity for improvement. Currently, this restaurant uses the least efficient methods. Even though this approach is implemented in successful, profitable restaurants, several problems could be seen as reducing the restaurant's efficiency that can be identified using the above scenario: • Customer have to wait a long time, and time-consuming. • Table reservation is unmanageable, and if a person visits long distances, it makes them uncomfortable waiting for a table • Staff members have to work so hard and are stressed. This website proposed here will simplify the table reservation process, and it will be helpful to both restaurants and customers. The proposed website will interact with the user very friendly. Customers can visit the website and view the food items and all the required information about the restaurant, and they can fill out the required form to reserve a table. If the table is available, the restaurant Informs about it through email. When the table reservation is completed customer can visit the restaurant at the reserved time if not reservation will be canceled.

Chapter 04 – Proposed solution in brief

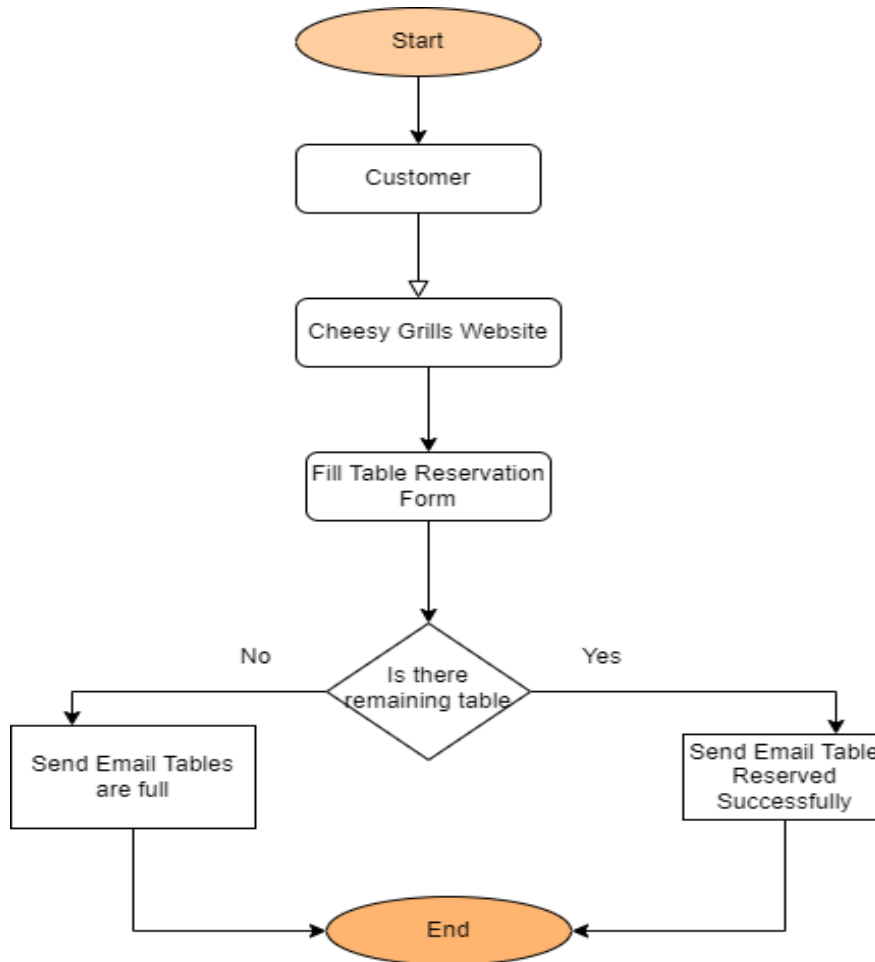


Figure 1-1

Figure 1-1 flow chart shows that Using the website, Customers can't order food online from this website, and customers can only reserve a table. Customers can reserve a table online for special occasions like your loved one's birthday or anniversary. The table was reserved online for the required data according to the customer's needs. Then staff looked for any available tables and informed the customer through email. If not, they also notify customers that there are no available tables through email. Customers can visit the site and see our special food items and what kind of events the restaurant organizes.

Chapter 05 – Used Technologies and tools and reasons

The whole part is the only frontend.

The front end is designed using HTML, CSS, Bootstrap

- HTML – HTML or Hyper Text Markup Languages is the main markup language for creating web pages and other information that can be displayed in a web browser.

HTML is written in the form of HTML elements consisting of tags enclosed in angle brackets (like `<html>`) within the web page content. HTML tags most commonly come in pair like `<h1>` and `</h1>`, although some tags represent *empty elements* and so are unpaired, for example ``. The first tag in a pair is the *start tag*, and the second tag is the *end tag* (also called opening and *closing tags*). Web designers can add text, further tags, comments, and other text-based content types between these tags. The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags but uses the tags to interpret the content of the page. HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes, and other items. It can embed scripts written in languages such as JavaScript, which affect the behavior of HTML web pages.

- CSS – Cascading Style Sheets (CSS) is a style sheet language used to describe a document's look and formatting in a markup language. While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind

Of XML document, including plain XML, SVG and XUL. CSS is a cornerstone web specification, and almost all web pages use CSS style sheets to describe their presentation. CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility and provide more flexibility and control in the specification.

Presentation characteristics enable multiple pages to share formatting and reduce complexity and repetition in the structural content (such as by allowing table-less web design). CSS can also allow the same markup page to be presented in a different style for different rendering methods, such as on-screen, in print, by voice (when read out by a speech-based browser or screen reader), and on Braille-based, tactile devices. It can also allow the web page to display differently depending on the screen size or device on which it is being viewed. While the author of a document typically links it to a CSS file, readers can use a different style sheet, perhaps one on their computer, to override the one the author specified; however, if the author or the reader did not link the document to a specific scheme to determine which style rules apply if more than one rule matches against a particular element. In this so-called cascade, priorities or weights are calculated and assigned to rules to predict the results.

BOOTSTRAP – Bootstrap is a powerful toolkit – a collection of HTML, CSS, and JavaScript tools for creating and building web pages and web applications. With Bootstrap, [web developers](#) can concentrate on the development work without worrying about design and quickly get a good-looking website up and running. Conversely, it gives web designers a solid foundation for creating exciting Bootstrap themes. For example, by using Bootstrap, we can reduce our time wastage. Furthermore, an Interactive, user-friendly environment using Bootstrap.

Chrome Dev. Tool – chrome dev. The tool is a set of web developer tools built directly into the Google Chrome browser. These tools let you inspect your pages' rendered HTML (DOM) and network activity. You can use Dev Tools to troubleshoot ad serving issues.

Software: Visual Studio, Google, Wikipedia, Youtube, Netlify, Bootstrap

Chapter 6 – Implementation of the developed project

Figure 2-1: Home page

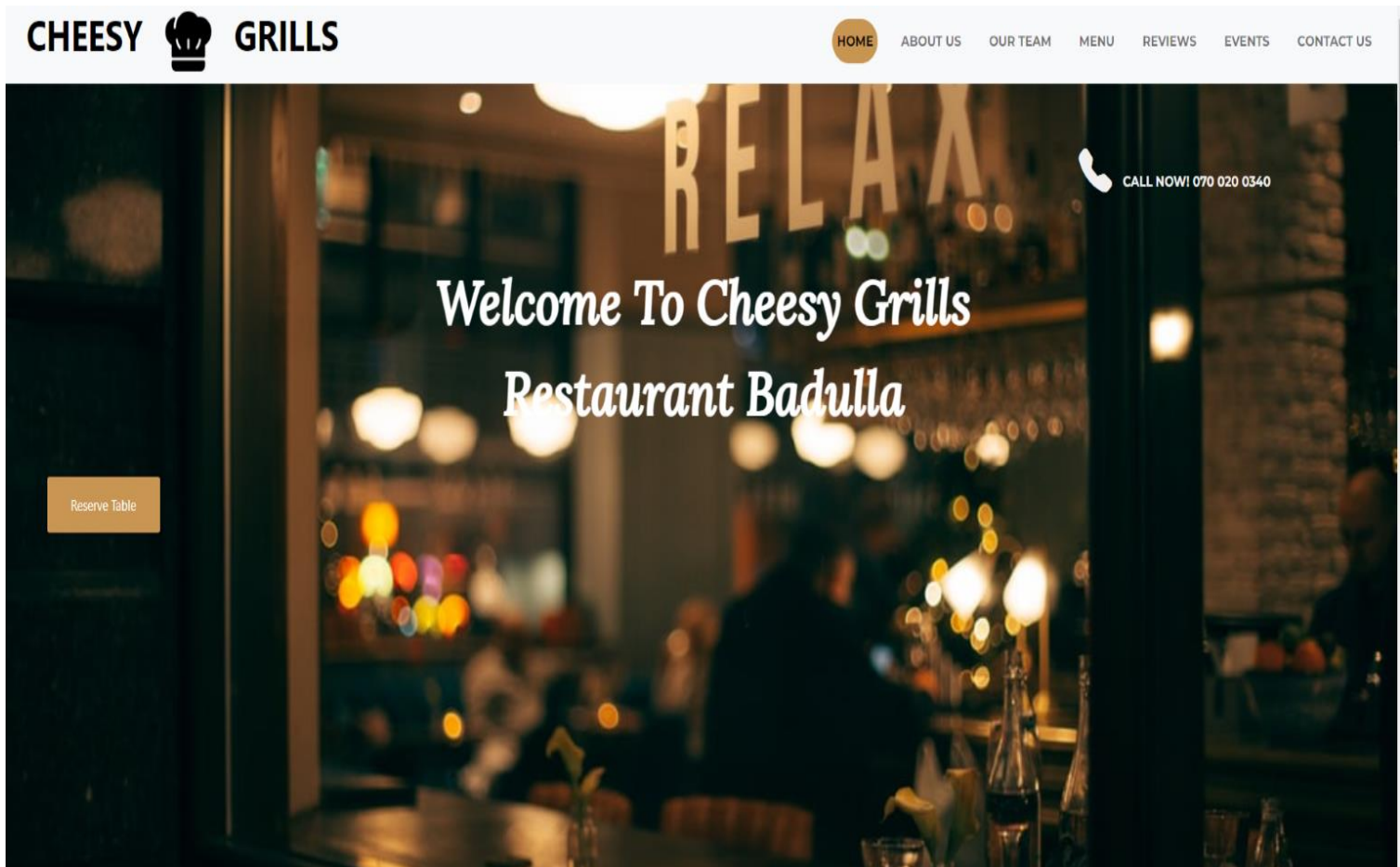


Figure 2-2: Table Reservation Form

[HOME](#) [ABOUT US](#) [OUR TEAM](#) [MENU](#) [REVIEWS](#) [EVENTS](#) [CONTACT US](#)

Make Your Reservation

Name

Contact Number

Email

Country

Check In Date

mm/dd/yyyy

Time

07.00 PM

Adults

1

Children

0

Special Requests:

Submit

Figure 2-3: About Us and Restaurant Objective and Mission

ABOUT US

Cheesy Grill Is The Name Of Our Restaurant Located In Front Of Rock Hill, A Beautifully Mountain In Badulla. Eating On Our Terrace By Candlelight On warm Summer Evenings, Lunchtimes, Cooler Days In Our Restaurant-It's Always Special. We Use Local And Creatively To Bring You The Best Dishes In The Area. We Offer All Kinds Of Options From Light Snacks To Full 8 Course Tasting Menus With Matching Wines Lots Of Variations In Between.

Figure 2-4: Staff member's page



Figure 2-5: Customer Reviews page

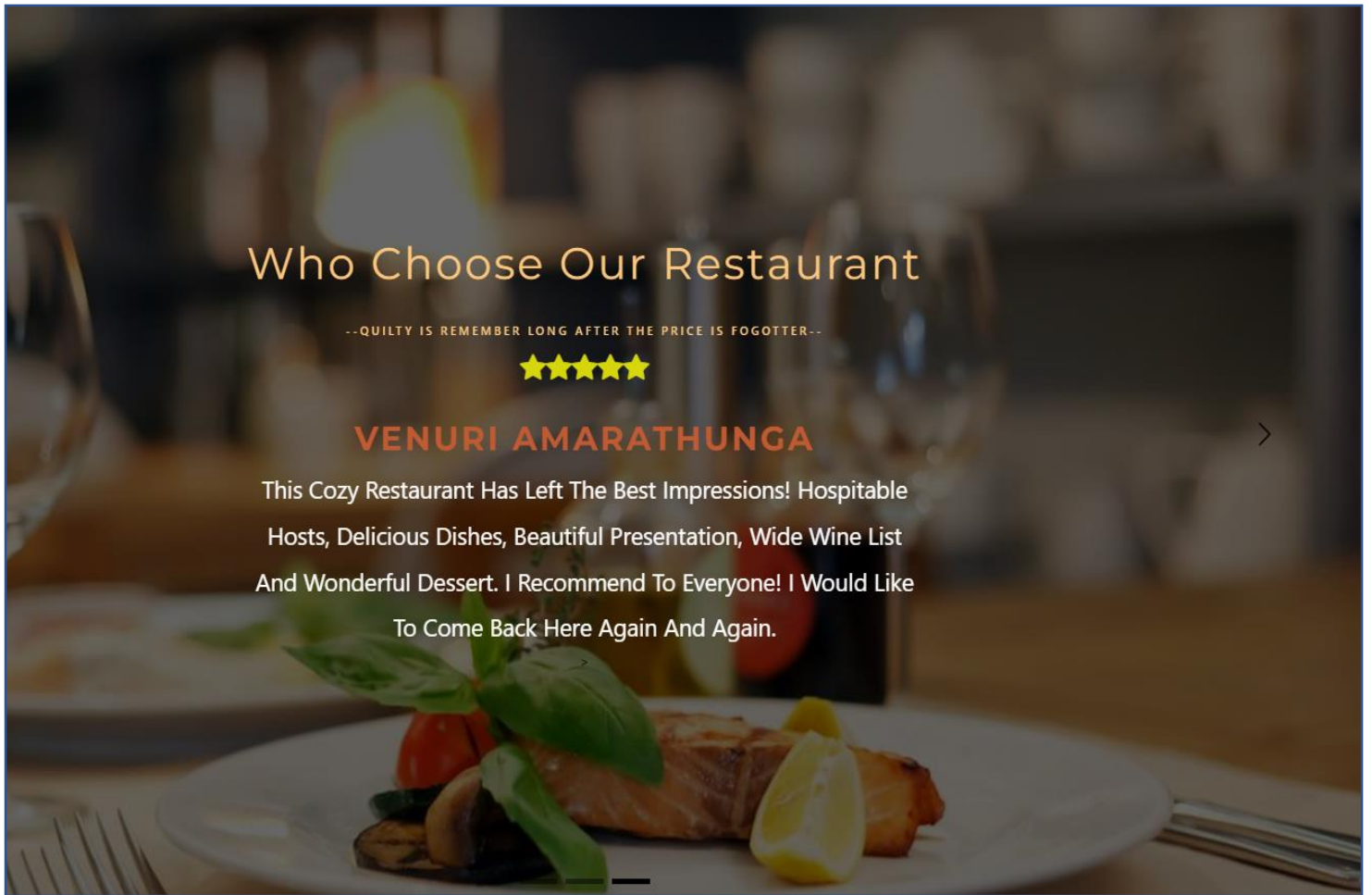



Figure 2-6: Events page

Organize Your Events In Our Restaurant

--Quilty Is Remember Long After The Price Is Fogotten--




Offers Of The Week

Here We Add Our Restaurant Offers Of The Week.

- 10% Offer To Kids Parties In Third Week Of June.
- 5% Offer To Wedding Reservations In This Month.


\$150



Kids Parties

Welcome To Exclusive Parties For Kids. We Create Amazing Parties For Girls And Boys. Whether It's A Princess Bash Or A Pirate Feast, From Pure Imagination To Movie Themes. We Make It All Come True!

\$100



Private Parties

We Have The Beautiful Private Party Venues. Make Memories In The Balmy Courtyard Garden. An Event In Badulla For Up To 75 Guests. Celebrate A Birthday In Our Grand Ebony Room. It Has A Long Dining Table Seats Up To 16 Guests.

\$200

Figure 2-7: Food Menu page

Check Our Tasty Menu

--Quilty Is Remember Long After The Price Is Fogotten--




















Breakfast	Dinner	Dessert	Drinks	Shorteats	Specials
 <p>STRING HOPPERS</p> <p>DAHL, CURRY & CHICKEN/FISH CURRY</p> <p>\$10</p>	 <p>DOLPHINE KOTTU</p> <p>CHICKEN/FISH CURRY</p> <p>\$10</p>	 <p>CHEESE CAKES</p> <p>CHOCOLATE/STRAWBERRY/LIME</p> <p>\$10</p>	 <p>BUBBLE TEA</p> <p>MILK TEA/BLACK TEA/SMOOTHIES</p> <p>\$10</p>	 <p>OPEN SANDWICHES</p> <p>FISH/EGG/CHEESE/CHICKEN/VEG</p> <p>\$10</p>	 <p>ITALIAN PIZZA</p> <p>CHICKEN/SHAPPOO/VEG/ MIX</p> <p>\$10</p>
 <p>MILK RICE & ONION SOMBOLE</p> <p>\$8</p>	 <p>FRIED RICE</p> <p>CHOP/SEY, CHICKEN CURRY, CHILI PASTE & SAUSE</p> <p>\$8</p>	 <p>ICE CREAM</p> <p>CHOCOLATE/ VANILA /STROBERRY</p> <p>\$8</p>	 <p>FALOODA SMOOTHIE</p> <p>LARGE/MEDIUM/SMALL</p> <p>\$8</p>	 <p>SWEET BUN</p> <p>JAM/ CHOCOLATE/ SUGAR</p> <p>\$8</p>	 <p>ITALIAN LASANGA</p> <p>CHICKEN/ SHAPPOO/ MIX</p> <p>\$8</p>
 <p>RICE & CURRY</p> <p>DHAL, CURRY, HERB SALAD, VEG CURRIES, CHICKEN/FISH/EGG & PAKADAM</p> <p>\$12</p>	 <p>CHINESE NOODLES</p> <p>CHOP/SEY, CHICKEN CURRY, CHILI PASTE & SAUSE</p> <p>\$12</p>	 <p>MOUSSE PIE</p> <p>CHOCOLATE/ VANILA / LIME ETC.</p> <p>\$12</p>	 <p>FRUIT JUICES</p> <p>MANGO/ PAPAYA/ AVACADO/ LIME ETC.</p> <p>\$12</p>	 <p>SPICY SAMOSA</p> <p>FISH/EGG/CHEESE/CHICKEN/VEG</p> <p>\$12</p>	 <p>ITALIAN PASTA</p> <p>CHICKEN/ SHAPPOO/ CHEESE/ MIX</p> <p>\$12</p>

Figure 2-7 – Contact Us page

[HOME](#) [ABOUT US](#) [OUR TEAM](#) [MENU](#) [REVIEWS](#) [EVENTS](#) [CONTACT US](#)

Contact Us



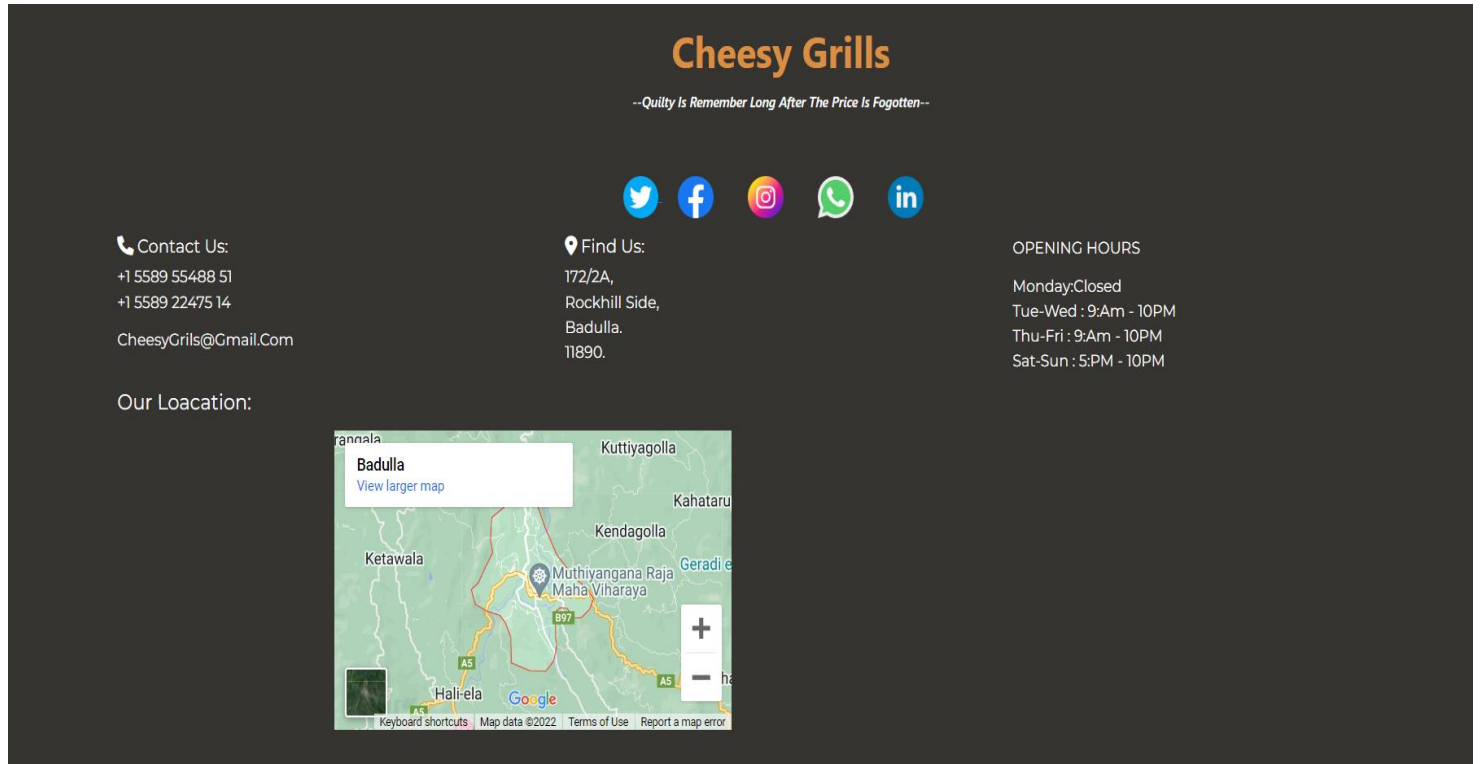
📍 172/2A, Rockhill Side,
Badulla,
11890.
☎ +1 5589 55488 51
✉ cheesyGrils@gmail.com

Name

Email

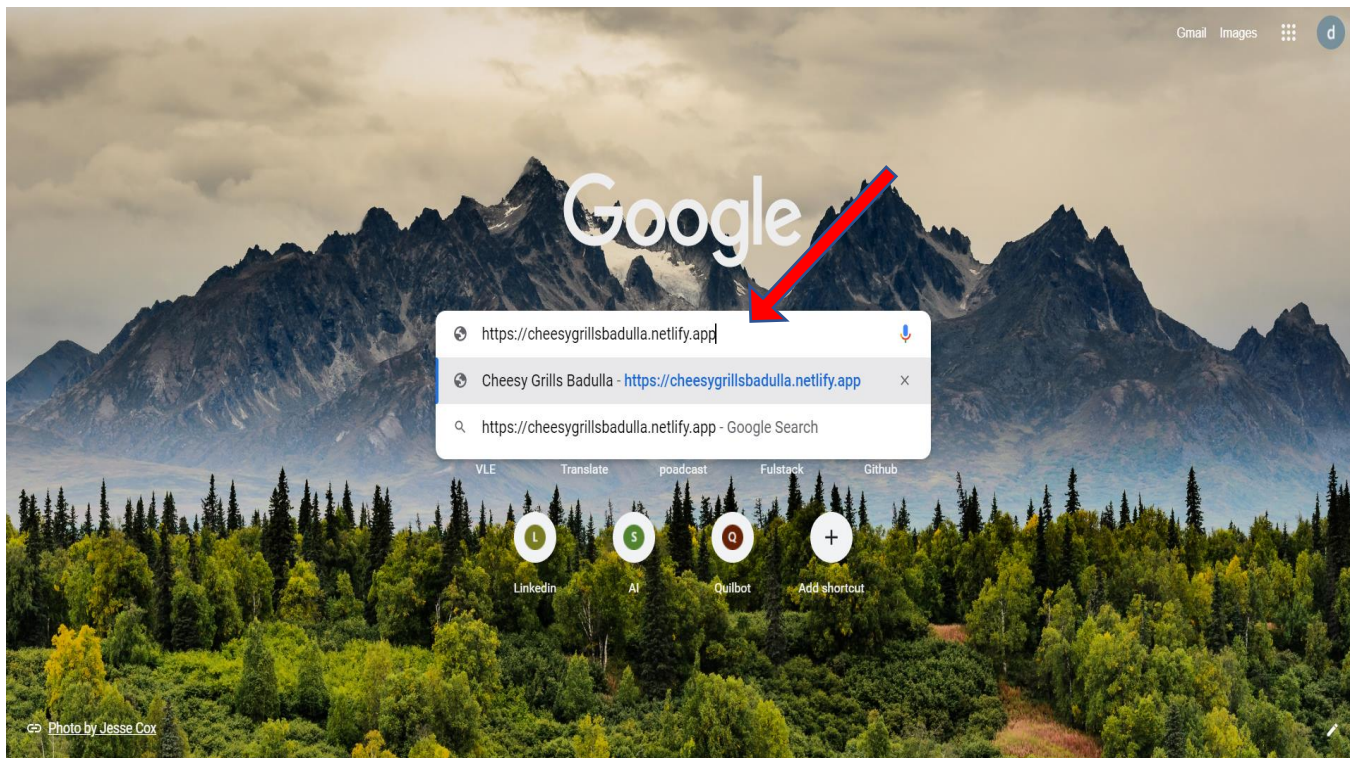
Message

Figure 2-8 – Footer page

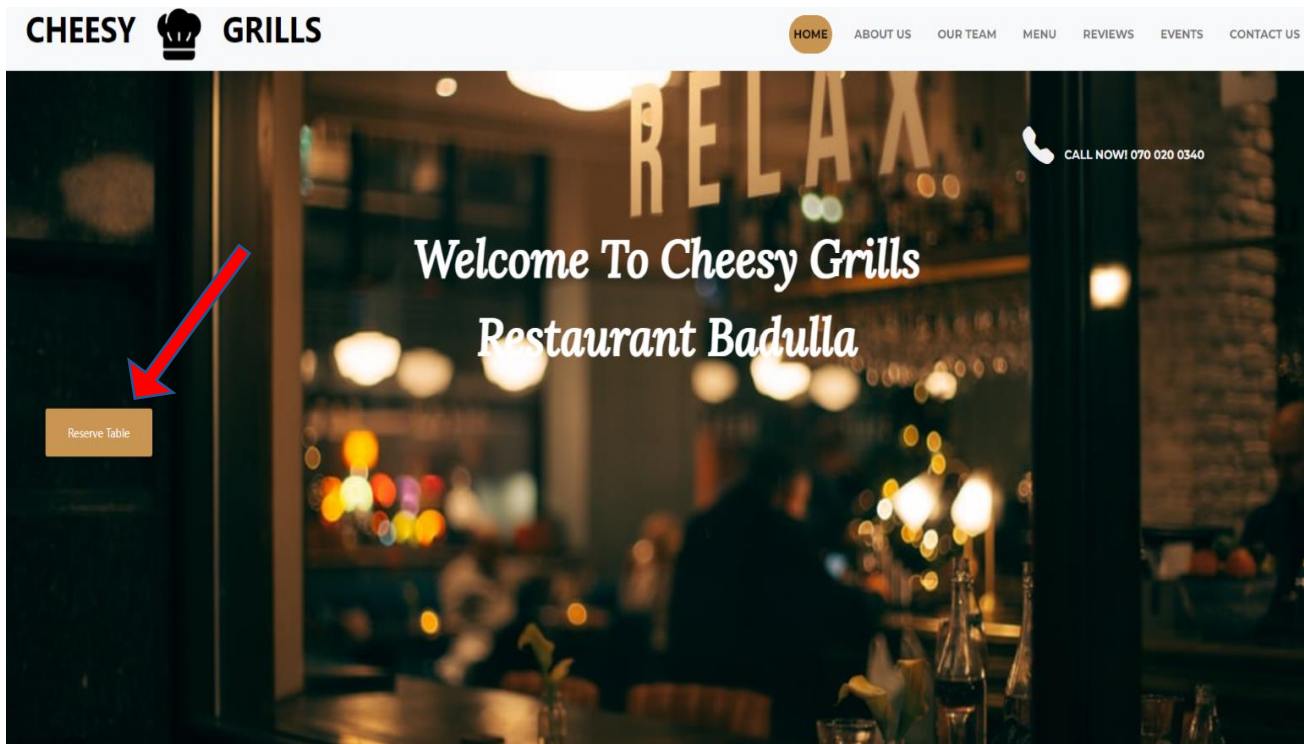


Chapter 7 – User Manual

How To Reserve a Table



STEP 01(*Figure 3-1*)



STEP 02(Figure 3-2) – Go to the reserved table

STEP 03 (Figure 3-3) - Fill and submit the form

Chapter 8 – Work breakdown and respective duties of each member

Work Breakdown

1. Home page and table reservation form page
2. Restaurant objectives, vision, and mission include the page
3. Restaurant Staff members, including page
4. Reviews of the Restaurant page
5. Events organized by the restaurant page
6. Menu of the restaurant page
7. Footer page
8. Content creating
9. Content planning(Colors, designs, Technologies)
10. Debugging

Respective duties of each member

ICT/20/058 – Content creating, Events organized by the restaurant page

ICT/20/044 – Review page and Menu page content planning

ICT/20/048 – About Us page

ICT/20/050 - Restaurant staff members page

ICT/20/057 – Footer page

ICT/20/053 – Home page and table reservation form page, debugging

Chapter 9 – Project Work plan

May				June			
Week 01	Week 02	Week 03	Week 04	Week 01	Week 02	Week 03	Week 04
Review project proposal and breakdown of project parts	Start doing project	Progress	progress	progress	Finalized	Debugging website	Hosted website Using Netlify
Analyzed Technologies Using frontend designs					Connect each part of the members.	Final Testing	
Analyzed Web site Requirement s and research topic.						Report finalized	
Discussed adding features							

Figure 4.1

Chapter 10 - References

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Available at: <https://www.lordsrestaurant.net/>
[Accessed 5 May 2022].