Development Of Green Garden Restaurant

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This Report Presented In Partial Fulfillment of the Requirements for the Degree of Bachelor of Science Computer Science and Engineering.

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APPROVAL

This Project/internship titled **"Green Garden Restaurant"** submitted by Fahana Rahman, ID No: 151-15-234 and Md. Azad Ul Kabir, ID No: 151-15-455 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on April 6 2019.

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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Farzana Aktar lecturer, Department of CSE,** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree of diploma**.**

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ABSTRACT

Green Garden is a restaurant under in Daffodil International University. Green Garden is a very beautiful restaurant but this restaurant hasn't any appropriate website. So we try to make a responsive user friendly and wonderful user interface website and we did it. In this website include many functionality and option. So people or user easily can find any kind of information about restaurant or restaurant foods. This website fulfil user requirement which is their need.

This project mainly make for Teachers Students and Staff of Daffodil International University. Here include all information about food and restaurant.

Microsoft visual studio 2008 is used here for designing the forms and implementing the techniques.

After implementation it is tested in different ways and the output is found in desired format.

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Chapter 1

Introduction

1.1 Introduction:

"Restaurant Management System" is a web application. This system is developed to automate day to day activity of a restaurant. Restaurant is a kind of business that serves people within a specific area with ready-made food. This system is developed to provide service facility to restaurant and also to the customer. This restaurant management system can be used by employees in a restaurant to handle the clients, their orders and can help them easily find free tables or place orders.

Nowadays, many restaurants manage their business by manual especially take customer ordering. In traditional booking system, a customer has to go to restaurant or make a phone call in order to get his reservation. Today, restaurant waiter takes the customer ordering by manual system with using paper. Customer does some formal conversation like hello, hi, etc. Than he demands for today's menu and do some discussion over menu items then he orders. It takes 5 to 10 minutes to book the order and waiter book the order on paper so there is probability of lost and duplication of customer information. Restaurant management system puts the order in a queue with specific priority according to time and quantity, and then a cook is assigned for the specific order to complete it.

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With this system online reservation management will become easier and systematic to replace traditional system where are still using paper.To resister a reservation online, the customer has to become a member fir st then he can access the later part of the site. This project to facilita te customer for make online ordering and reservation. The option of b ecoming member was only an attempt to avoid (to some extent) placin g the fake bookings.

Online Restaurant management system is the system for managing the restaurant business. After successful login the customer can access the menu page with the items listed according to the desired time. The m ain point of developing this system is to help restaurant administrator manage the restaurant business and help customer for online reserve ta ble. In proposed system user can search for a menu according to his choice i.e. according to price range and category of food and later he can reserved table [15].

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1.2 Motivation:

Green Garden is a wonderful restaurant .So we will try to make a proper website for wonderful restaurant and developed to provide service facility to restaurant and also to the customer .This side we have been motivated.

1.3 Objectives:

Below given our project aim & objectives.

- Creating a user friendly web-responsive website.
- Creating an attractive graphically interface menu bar to find every option easily.
- Food menu.
- Here customer get their food easily.
- Here given the specific food price.
- Here given the real life food picture to customer easily choice there food.
- In this management system people can easily make an online reservation.
- In this management system restaurant admin or manager can be handle the client's online reservations and make updated their restaurant foods and blogs section.
- To develop this system that will surely satisfied the customer service.

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1.4 Expected Outcome:

In the end of project we will make a web responsive, user friendly interface and efficient website for Green Garden restaurant. This site has been include all information about this restaurant. So here people get all information about the restaurant and restaurant foods.

1.5 Overview

- In this system there are two type of login option

a) User Login

- ❖ User can make an online reservation.
- ❖ User can rating the restaurant for specific side of the restaurant.
- ❖ User can Like or dislike and comment for the block section.
- ❖ This project mainly make for Teachers Students and Staff of Daffodil International University. Here include all information about food of the restaurant which is their need.

b) Admin Login

- ❖ Admin of the system can add, delete, insert and update food items.
- ❖ Admin can create a special offer of different occasion.
- ❖ When creating a special offer its mail for notify for all user who sign-in system or connect with newsletter.
- ❖ Admin of the system can add, delete, insert and update blogs section.
- ❖ Admin can handle the online reservation of the users.

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Chapter 2

Background

2.1 Introduction:

The Restaurant Management System helps the restaurant manager to manage the restaurant more effectively and efficiently by computerizing reservation ordering, controlling food management. Besides the user could be know everything about the restaurant easily through the restaurant website. This management system is designed for a varsity restaurant and the interface will be user friendly for all kind of people.

2.2Related Works:

In this paper the method and systems for a personal restaurant assistant. In one placing, the method, that may be accomplish on a system, build identifying from an inventory for a group of diners having ordered meals, charge items from the inventory to be allocated to one or more of the diners transmitting over a network connection to a service provider, the identification of the charge items having been allocated to the one or more diners, to have calculated an allocated amount of the invoice for the one or more diners and receiving over the network link from the service provider, a calculated allocated amount of the inventory for the one or more diners [1].

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Here the restaurant management system includes an inventory system. Also included are a supplier and a user. Orders are sent from the use r to the supplier. The orders have associated therewith time informatio n. Each item in the order has associated therewith an inherent minimu m time until the order may be delivered. Also included is a fee syste m to collect money in response to the receipt of an order. An alarm system having a plurality of threshold alarms with each of the threshol d alarms associated with a preset duration of time from the receipt of the order is also provided [2].

This paper represent that the invention is a system and method for lea ding restaurant customer data elements [3].

Researcher proposed that, this study proposes a compact model that co mbines the theory of planned behavior (TPB) and the innovation receiv ing theory to search the attitudinal and behavioral decision factors on r eceiving green practices in the restaurant industry in Taiwan. The resul ts exhibit that attitude and perceived behavioral control have positive e ffects on behavioral intention while social impact is meaningless. Realiz ed innovation property have direct positive effects on attitude and indir ect positive impacts on behavioral intention to take green practices [4].

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In this paper studies suggest that when organizations place a higher va lue on their employees, through the embodiment of high performance management systems (HPMS), their business performance improves. Tho se that have conceptualized the HPMS construct in the ministration sec tor have limited validity for the restaurant industry. To fill this gap th is paper presents the research methods used to develop a construct for a HPMS within the casual restaurant sector of the US hospitality ind ustry. The exploratory qualitative methodology that combines a variety of data collection techniques including interviews for the pilot study, th e Delphi method and secondary data collection to establish the most s alient dimensions of a HPMS in the casual restaurant industry, are obs erved [5].

In this paper a restaurant management system and method interface is provided. In compatibility with the invention, data from various restaura nt operations is collected and stored for processing. The data is proces sed into useful metrics, such as those introducing of various categories of restaurant staffing, ability, performance and quality. The useful met rics can be displayed as a human-
readable chart, graph or report. The data can be processed in real tim e, permitting managers to instantaneously make lasting and to alert rest aurant workers or crew members of deficiencies so that prompt and ef fective remedial action can be taken to enhance restaurant performance [6].

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In this section researcher describe the design and development of a ra dio-
frequency identification (RFID) based sushi management (RFSM) system in a conveyor-
belt sushi restaurant to increase operational skill. The system is designe d to help a conveyor-
belt sushi restaurant to earn better inventory control, responsive replenis hment, and food safety control, as well as to improve its quality of s ervice. This study demonstrates the significance and benefits of using RFID technology specifically in the food industry [7].

In this research paper describe that the restaurant management system that qualify the customer to be in direct contact with the server or a fulfillment source at all times, in addition to accommodate the restaurant management to monitor service and maintenance throughout the installation. Keypads are disposed at customer locations or service or maintenance locations within the restaurant. The customer keypads are adapted to receive item requests from the customer, while the service or maintenance keypads are adapted to receive information from the service or maintenance personnel to indicate the status of the service or maintenance. The keypads are in wireless communication with a central station and thereby allow a centralized system to monitor and evaluate service efficiency [8].

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Here the invention is a system and a method which mix restaurant services with video-conferencing and multi-media access for various, customer appeal. The system and method employ a number of booths in a number of restaurants whereby each booth can video conference with each other booth, particularly in different time zones, while also providing multi media access such as satellite TV, cable, broadcast TV, computer programs and gaming, internet access. Each booth is linked to a local area network and is equipped with a display screen and video and audio controls [9].

In this paper the system for a resident's grocery management is given. The system includes a bar code scanner operable to scan a bar code on a grocery item and to give bar code data obtained thereby. The system also includes a computer system coupled to receive the bar code data given by the bar code scanner. The computer system has a fixed data storage storing a grocery inventory and a processor executing a grocery management application. The grocery management application operates to process the bar code data to identify a scanned grocery item, to maintain the grocery inventory, and to generate a replenishment list of grocery items based upon differences between current grocery inventories and defined full levels for the residents [10].

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Here researcher proposed that the present invention provides restaurant management method in which a customer operates a computing device to make requests. A waiter can fulfill the request on the next visit to the customer's table, instead of having to visit the table first to obtai n the request and requiring a second visit to fulfill the request [11].

Nowadays web services technology is widely used to centre heterogene ous systems and develop new Applications. Here an application of inte gration of hotel Management systems by web services technology is pr esented. Digital Hotel Management centre lots of systems of hotel indu stry such as Ordering System Kitchen Order Ticket (KOT), Billing Sys tem, Customer Relationship Management system (CRM) together. This i ntegration solution can add or expand Hotel software system in any si ze of hotel chains environment. This system enhancement quality and s peed of service. We are implementing this system using android Appli cation for Tablet PC's. The front end will be developed using JAVA Android and the backend will work on MySQL database [12].

In this research a method useful with a computer network for providin g a searchable data base of restaurants which can be accessed by pros pective guard, and once having obtained access the guard can then exa mine the listing and select the desired restaurant. Upon selection, the p rospective guard exchanges with the restaurant data base an interactive information exchange in which the patron specifies the desired reservati on date and time and the number of prospective guests. Upon receipt of this information a comparison is made between the seats desired an d the number of seats estimated to be available at that time, and if t

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he comparison matches then the requested reservation is confirmed. If t here is no match, then an automated arithmetic process computes the next available time and submits that to the guard in the interactive pr ocess. In the course of the foregoing computation the process adopts a running average of occupancy intervals which is then used to estimat e the next available time. This interval may be based on payment rec onciliation, provided by a concurrently running process. Various attentio n garnering devices may be utilized by each restaurant to attract the p otential guard [13].

Researcher proposed in one Implementation, a system and method are provided that allows easy integration of an existing third-party information or services management system into a services platfor m such as a Platform without requiring actual compiled code to be wr itten. In addition, in one embodiment, the system and method allow de velopers to create new applications without requiring actual code to be written, which applications run on a services platform such as a Platf orm and are easily billable, upgradeable and supportable [14].

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2.3 Scope of the Problem:

This problem we are find out.

- ❖ Website is not web-responsive.
- ❖ Food menu has not include food picture.
- ❖ People overview and rating option is not given.
- ❖ May be Include more details information "About us" option
- ❖ Food menu has not specifically represent.

2.4 Challenges:

Choosing a suitable platform normally goes down to the programmers experience and the type of software to be developed. The restaurant management system could be developed as a web application or a standalone application but must also be widely supported and platform-independent. Therefore as the developer has minimal or no experience in web programming, the decision was taken to develop a standalone application.

This project mainly make for Teachers Students and Staff of Daffodil International University. Here include all information about food of the restaurant which is their need.

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Chapter 3

Requirement specification

3.1 Introduction:

The Software Requirement Specification (SRS) is the requirements specification for the software system that's the overall description of the system being developed. The SRS fully describes what the software will do and how it will be expected to perform.

3.2 Overall Description:

This part will describe the functions and their target in this project. It will also describe the constraints and the technical requirements of the project.

3.2.1 Product Perspective:

Restaurant System will provide a group of action with relative interface environment for the user. There will be a reliable database also to provide the recorded information.

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3.2.2 System Interface:

The software is connected with a MySQL based database server. Admin can control all the dynamic option like delete, insert and update after login the admin panel.

3.2.3 User Interface:

The software is a desktop based application. The form has been design as per as user friendly. The main form is an enriched MDI from. Same login form for all user. After log in, every will get the same window with distinct menu option as their role and level.

3.2.4 Hardware Interface:

Our Project is a web base application. There won't need any special types of hardware interface in the system. If we add any feature in future, than we add it.

3.2.5 Communication Interface:

The default communication protocol for the data transmission between s erver and the user pc is the Transmission Control Protocol/Internet Prot ocol (TCP/IP).

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3.2.6 Memory Constraints:

There is not a specific memory constraint for this application. In planning phase, project organization, quality plan, testing plan and documentation plan is performed.

3.2.7 Operations:

The main operation are the information entry on the form, saving them in the database, updating, searching and printing he stored information.

3.3 Business Process Modeling:

In future we submit our project for business purpose. It's our vision.

A well designed plan is a like a guideline to deliver a high quality software using given resource, timeframe and with the budget available. To develop this software, a will organized plan is used.

3.4 Requirement Analysis and Specification:

Extracting the requirement and specification of a desired software product is the first task in creating it. While customer probably believe that they know what can the software do and how to do it in the software, then it may require skill and experience in software engineering to recognize incomplete, ambiguous and contradictory requirements. Different restaurants have been visited and studied their methods. The software and hardware requirements are also studied and specificities in this phase.

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3.4.1 Hardware Requirement:

To run this website, user need a device. Now we discus about hardware requirement for this project.

Processor	Computer & Smart phone's processor.
1. Motherboard	Any
2. Ram	Minimum 256 MB
3. Internet card	Any
4. Graphics card	Any
5. Sound card	Any
6. Hard Disk	No need
7. Casing	ATX
8. Monitor	Any Type Monitor
9. Keyboard	Any
10. Mouse	Any

Table 3.4.1 Hardware Requirement.

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3.4.2 Software Requirement:

Different Type of software need to developing and maintaining projected website. Details given below:

Software	Usage
Any version of windows operating system.	To start up computer and coordinate all hardware components, application and customized software.
Wamp or Xampp	To create local server server in our computer.
Phpstroam	This is the one of the best editor to write code.
Phpmyadmin	To create a database.
Laravel composer	To run project with PHP laravel

Table 3.4.2 Software Requirement

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3.5 Design Requirement:

Design phase describes desired features and operation in details, including database design, software design, screen layouts and other documentation. There are different types of design performed to develop this software like, DFD, process Flow diagram, use case etc.

We need to design the project some technology

- Html
- CSS
- JavaScript
- Bootstrap

3.5.1 Hypertext Markup Language (HTML):

HTML was invented by *Tim Berners-Lee* in 1987. HTML is the standard markup language for creating Web pages. HTML stands for Hyper Text Markup Language. It describes the structure of Web pages using markup. HTML elements are the building blocks of HTML pages. Its elements are represented by tags. Its tags label pieces of content such as "heading", "paragraph", "table", and so on. Browsers do not display the HTML tags, but use them to render the content of the page. [16]

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3.5.2 Cascading Style Sheet (CSS):

Hakon Wium Lie is the father of CSS. Lie proposed the concept of Cascading Style Sheets (CSS) in 1994 while with the W3C. CSS stan ds for Cascading Style Sheets. CSS describes how HTML elements are to be displayed on screen, paper, or in other media. Its saves a lot of work. It can control the layout of multiple web pages all at once. External style sheets are stored in CSS files. [17]

3.5.3 JavaScript:

JavaScript and Java are completely different languages, both in concept and design. JavaScript was invented by Brendan Eich in 1995, and b ecame an ECMA standard in 1997. ECMAScript is the official name of the language and short form is ES. JavaScript is use for make dyn amic client side server. [18]

3.5.4 Bootstrap:

Bootstrap was developed by Mark Otto and Jacob Thornton at Twitter, and released as an open source product in August 2011 on GitHub. Bootstrap is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-
first websites. Bootstrap is a free front-
end framework for faster and easier web development. Bootstrap includ es HTML and CSS based design templates for typography, forms, butt

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ons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins. Bootstrap also gives you the ability to easily create responsive designs. [19]

3.6 Development Requirement:

- PHP Laravel
- MySQL

3.6.1 PHP Laravel

Laravel is an open-source PHP framework, which is robust and easy to understand. It follows a model-view-controller design pattern. Laravel reuses the existing components of different frameworks which helps in creating a web application. The web application thus designed is more structured and pragmatic. Laravel offers a rich set of functionalities which incorporates the basic features of PHP frameworks. Laravel has a very rich set of features which will boost the speed of web development. If we know Core PHP and Advanced PHP, Laravel will make your task easier. It saves a lot time if you are planning to develop a website from scratch. Moreover, a website built in Laravel is secure and prevents several web attacks.

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Advantage Laravel

Laravel offers you the following advantages, when you are designing a web application based on it

- The web application becomes more scalable, owing to the Laravel framework.
- Considerable time is saved in designing the web application, since Laravel reuses the components from other framework in developing web application.
- It includes namespaces and interfaces, thus helps to organize and manage resources.[20]

3.6.2 My SQL

MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation. It developed in Sweden. The Project of MySQL started in 1979. Michael Widenius developed an in-house database tool called UNIREG for managing database. [21]

3.7 Use Case Diagram and Modeling

A use case diagram is a dynamic or behavior diagram in UML. Use case diagrams model the functionality of a system using actors and use cases. Use cases are a set of actions, services, and functions that the system needs to perform.

At First Must be login requirement when users perform dynamic action in web page. Users can update their profile. After admin login, admin can add and delete

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blog and food item. Admin can increase and decrees food item cost. Admin can create special offer. When create a special offer, sms sent to the all users. Admin can view all users' profile.

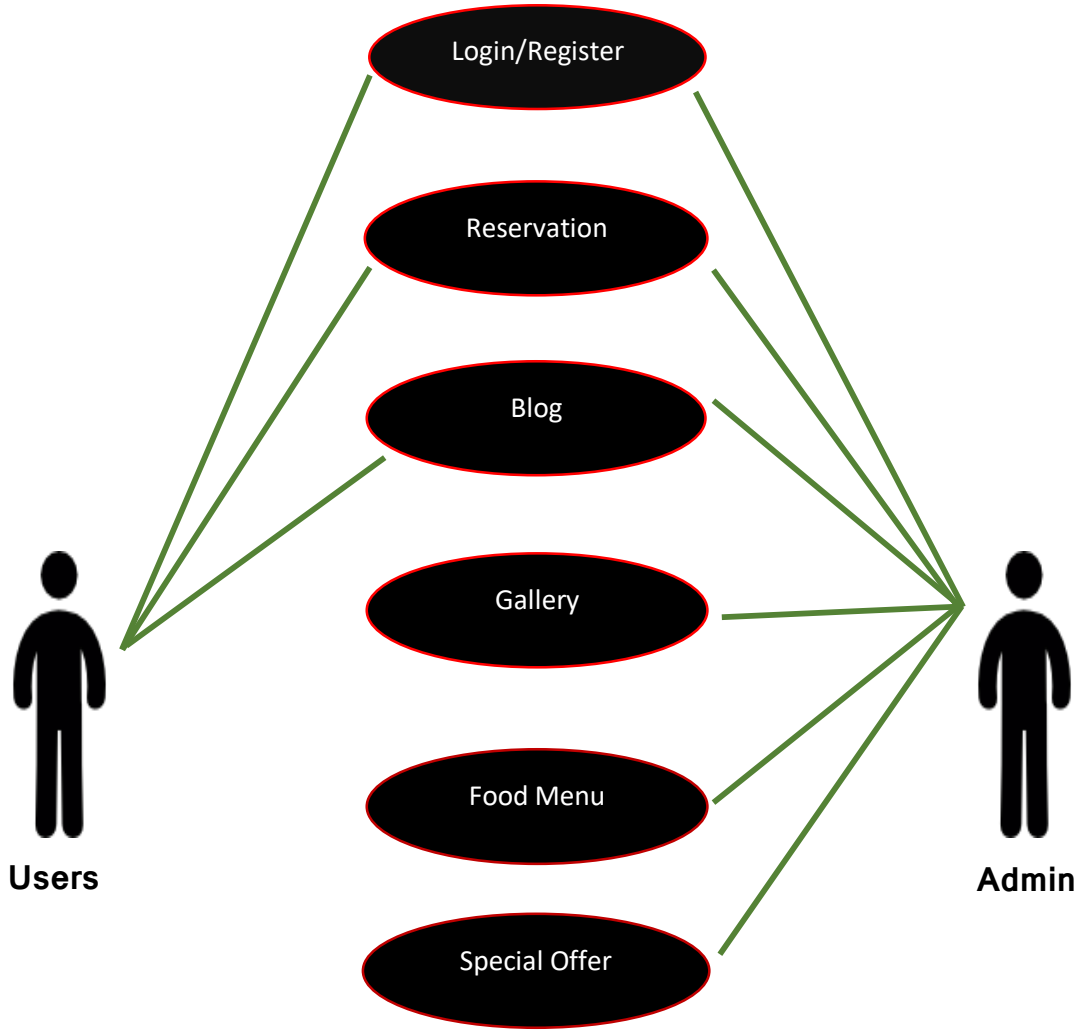

Figure: 3.7 Use case diagram

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3.7.0 Use Case Description:

Use Case ID:	**01**
Use case Name:	Login
Created By:	Farhana Rahman
Date Of Creation:	18.03.2019
Description:	This use case will allow user to login the system. User can easily login the system and see whatever want to see.
Primary Actor:	User
Secondary Actor:	None
Pre-condition:	None
Post-condition:	The system will display the home page.

Table 3.7.1 Use case 1

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Use Case ID:	**02**
Use case Name:	Reservation
Created By:	Azad Ul Kabir
Date Of Creation:	19.03.2018
Description:	This use case will allow user to reserve a table and select food whatever user want.
Primary Actor:	User
Secondary Actor:	Admin
Pre-condition:	The system will show the available table number and time.
Post-condition:	The system will show the reservation confirmation.

Table 3.7.2 Use case 2

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Use Case ID:	**03**
Use case Name:	Food management
Created By:	Azad Ul Kabir
Date Of Creation:	18.03.2019
Description:	This use case will allow admin food item insert delete and update details.
Primary Actor:	Admin
Secondary Actor:	None
Pre-condition:	The system will show the admin panel.
Post-condition:	The system will show the food menu updated page.

Table 3.7.3 Use case 3

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Use Case ID:	**04**
Use case Name:	Gallery Management
Created By:	Farhana Rahman
Date Of Creation:	18.03.2019
Description:	This use case will allow admin image Insert delete and update gallery
Primary Actor:	Admin
Secondary Actor:	None
Pre-condition:	The system will show the admin panel.
Post-condition:	The system will show the gallery menu updated page.

Table 3.7.4 Use case 4

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Use Case ID:	**05**
Use case Name:	Blog Management
Created By:	Farhana Rahman
Date Of Creation:	18.03.2019
Description:	This use case will allow admin blog Insert delete and update blog.
Primary Actor:	Admin
Secondary Actor:	None
Pre-condition:	The system will show the admin panel.
Post-condition:	The system will show the blog menu updated page.

Table 3.7.5 Use case 5

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Use Case ID:	**06**
Use case Name:	Reservation Management
Created By:	Azad Ul Kabir
Date Of Creation:	18.03.2019
Description:	This use case will allow to admin manage the reservation and send confirmation massage to the user.
Primary Actor:	Admin
Secondary Actor:	User
Pre-condition:	The system will show the admin panel.
Post-condition:	The system will show the reservation menu updated page.

Table 3.7.6 Use case 6

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Chapter 4

Design Specification

4.1 Front-end Design:

This is our home page navigation and slider part. When user visit our website, first show this page.

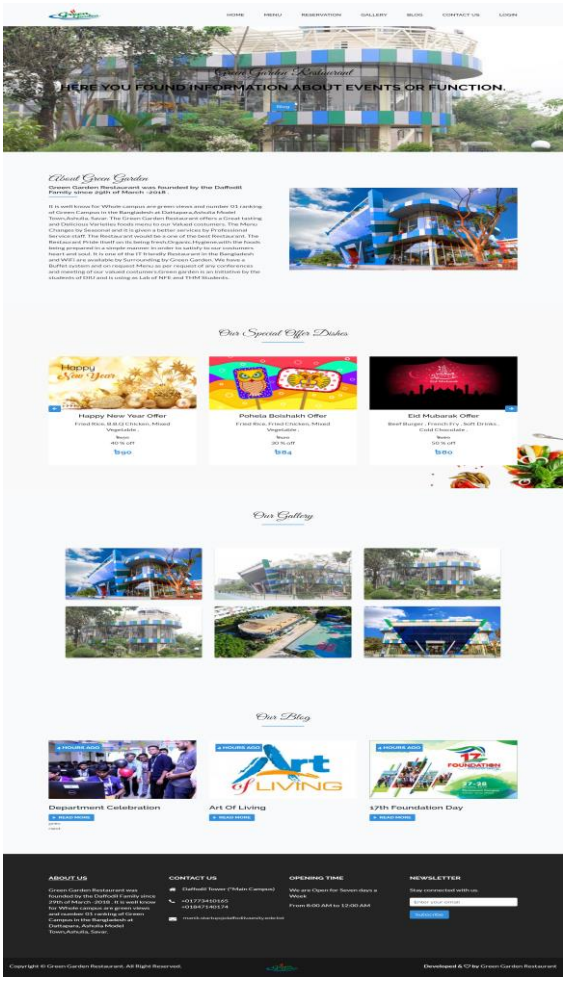

Figure: 4.1 Front-end Design

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4.2 User Login & Register:

User can Sing-in here and if user don’t sign-up yet they can register here.

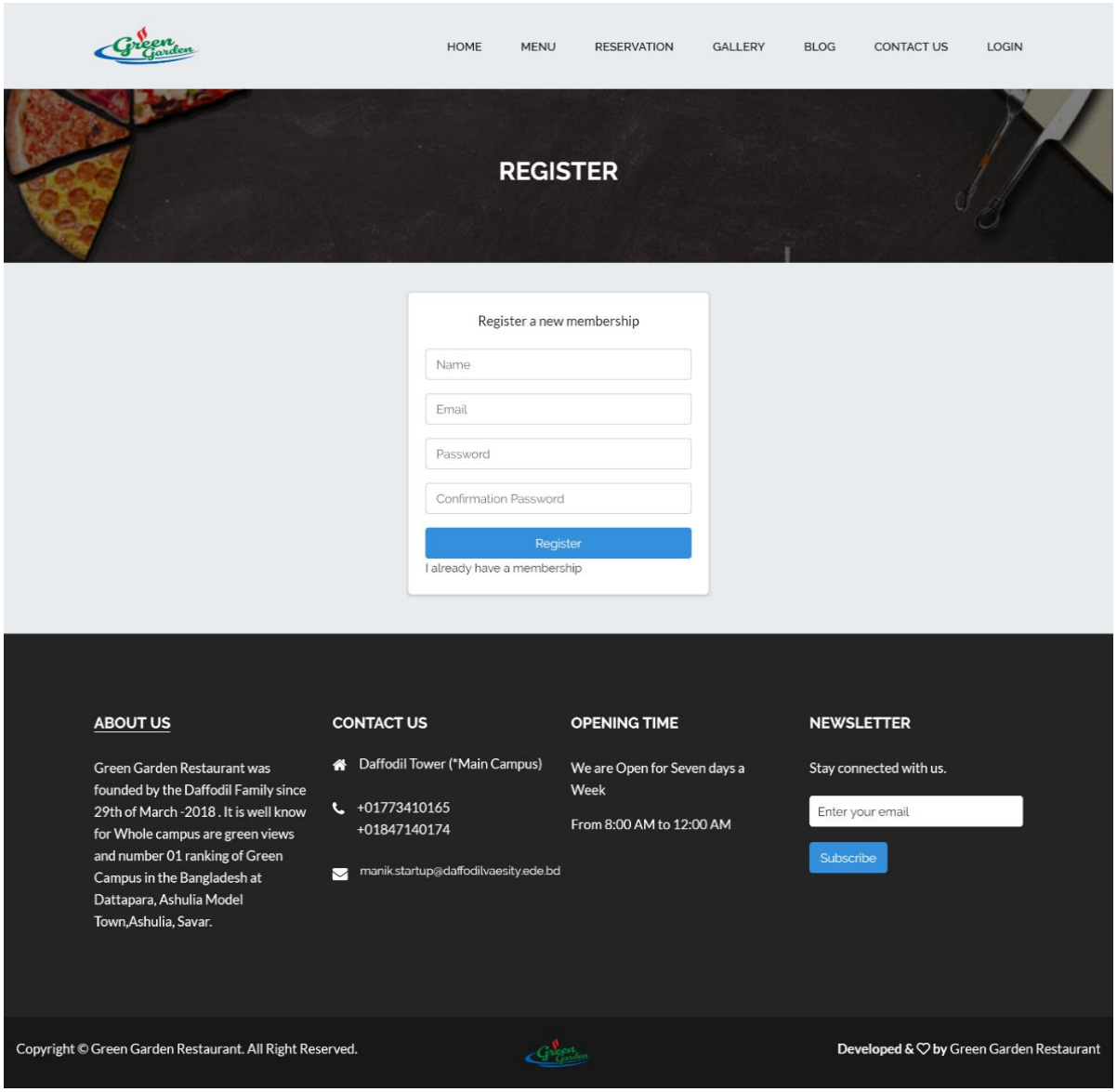

Figure: 4.2 User Registration and Login

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4.3 Food Menu:

User can see the food item name and picture. Also see the food item prices.

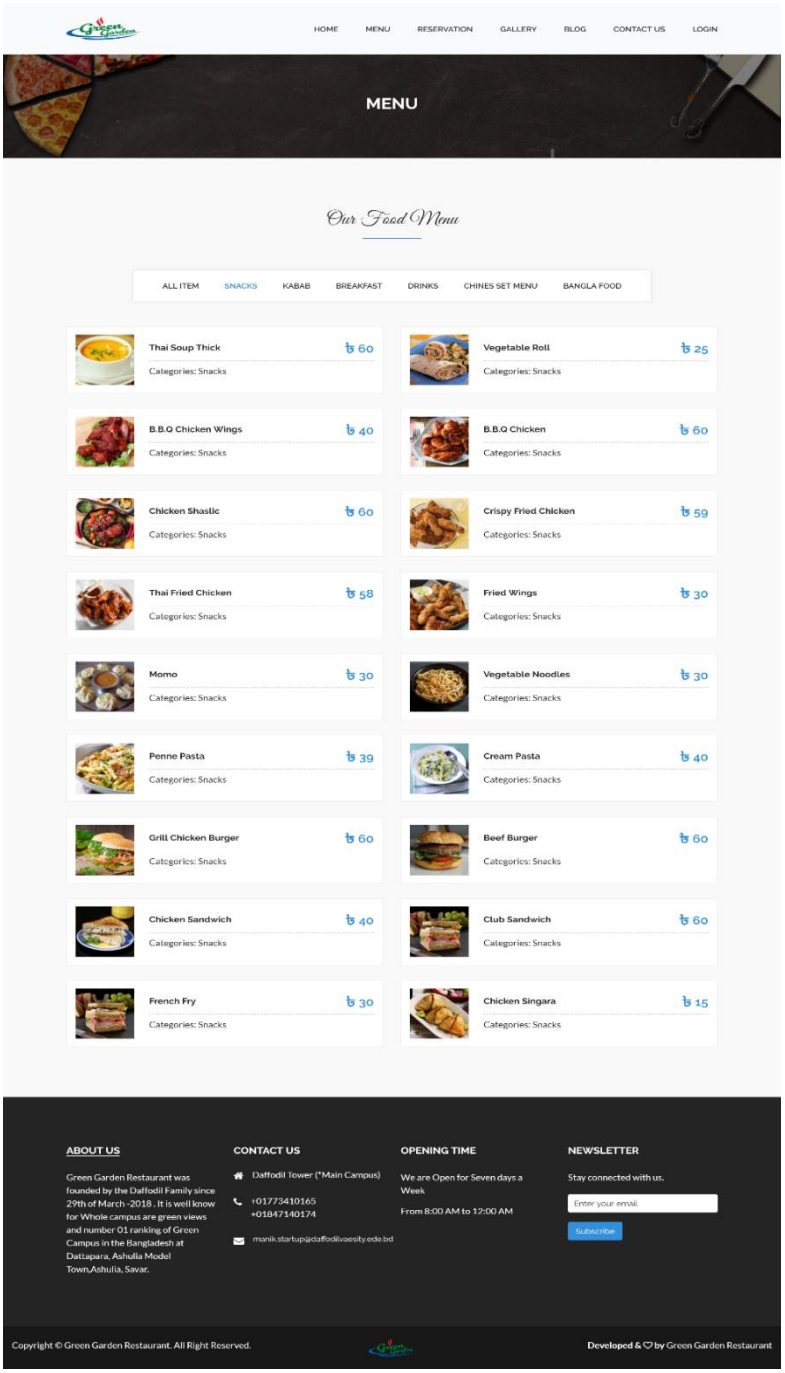

Figure: 4.3 Food Menu

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4.4 Reservation:

Here user can reserve their table and foods for their needs, if they are sign-in already.

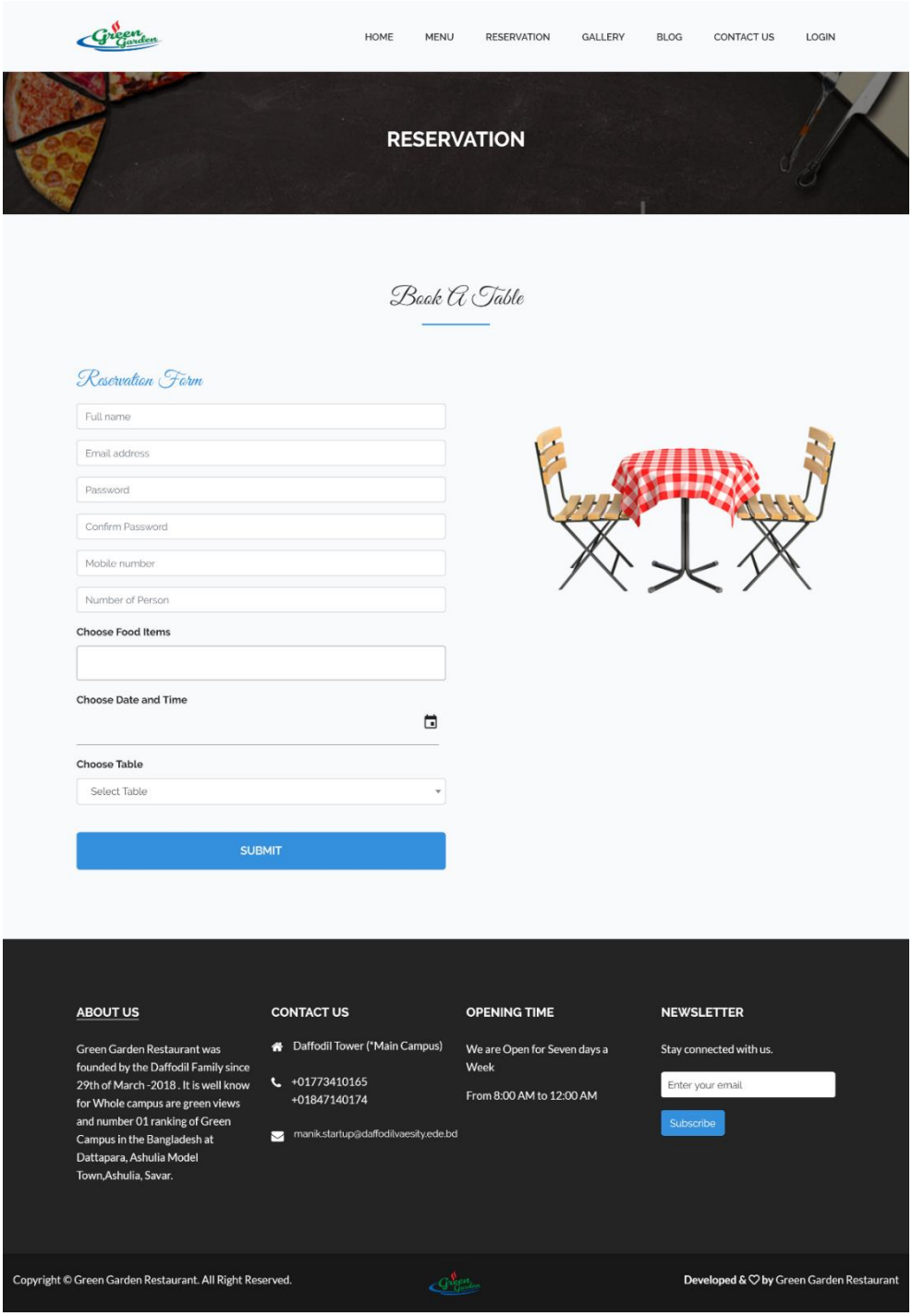

Figure: 4.4 Reservation

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4.5 Gallery:

Here user see different type of images of Green Garden Restaurant like foods or restaurant event images.

Figure: 4.5 Gallery

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4.6 Blog:

Here user see details of restaurant different function and event and can comment if they are login.

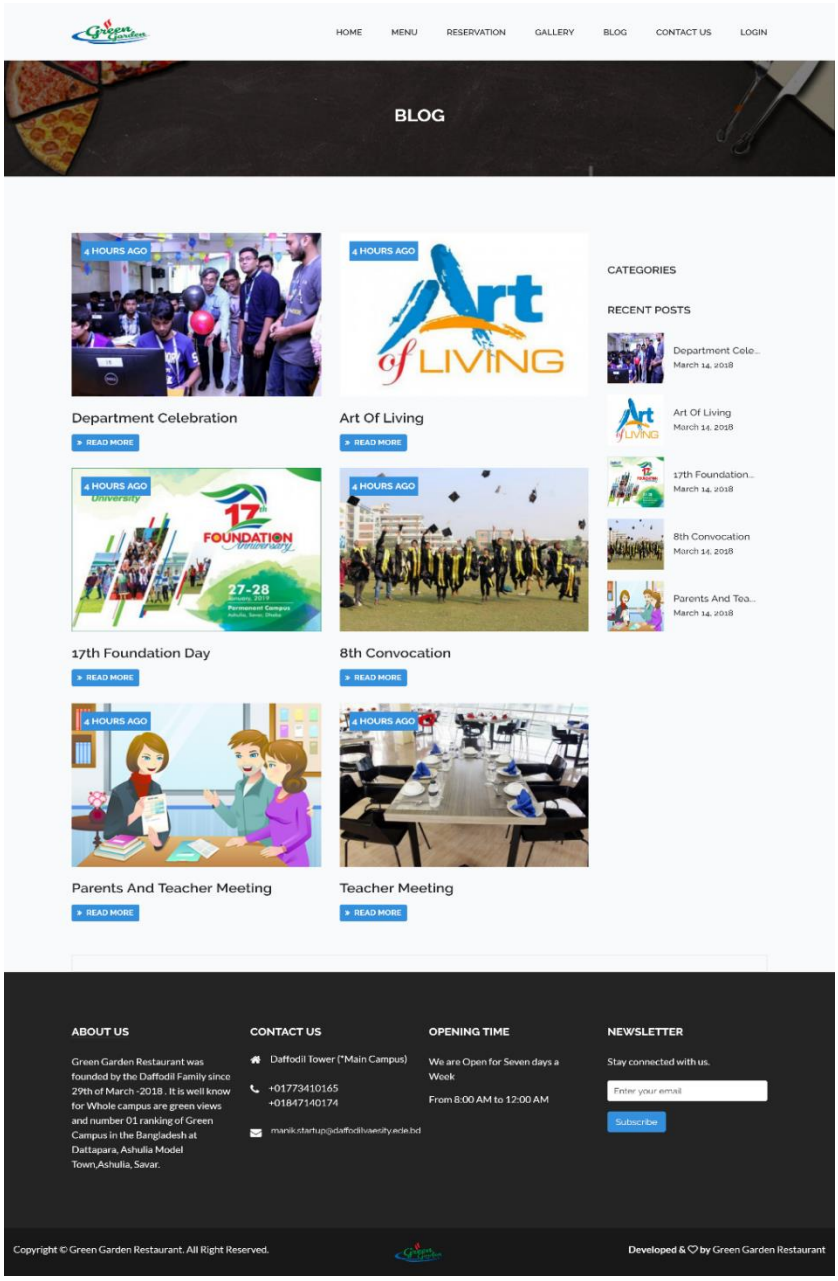

Figure: 4.6 Blog

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4.7 Contact Us:

Here user see the contact information of restaurant and also given their opinion of the restaurant.

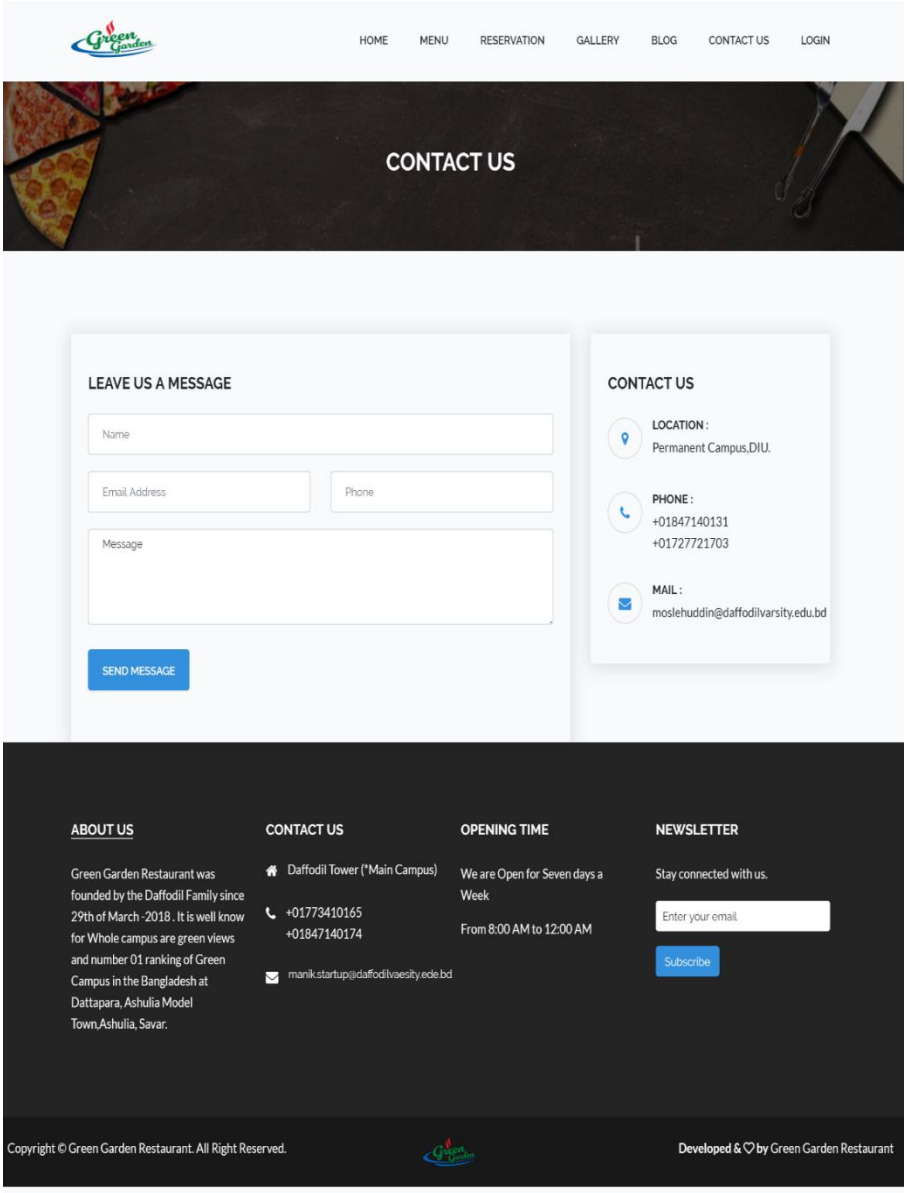

Figure: 4.7 Contact Us

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4.8 About Us:

Here user fined the necessary information about the restaurant.

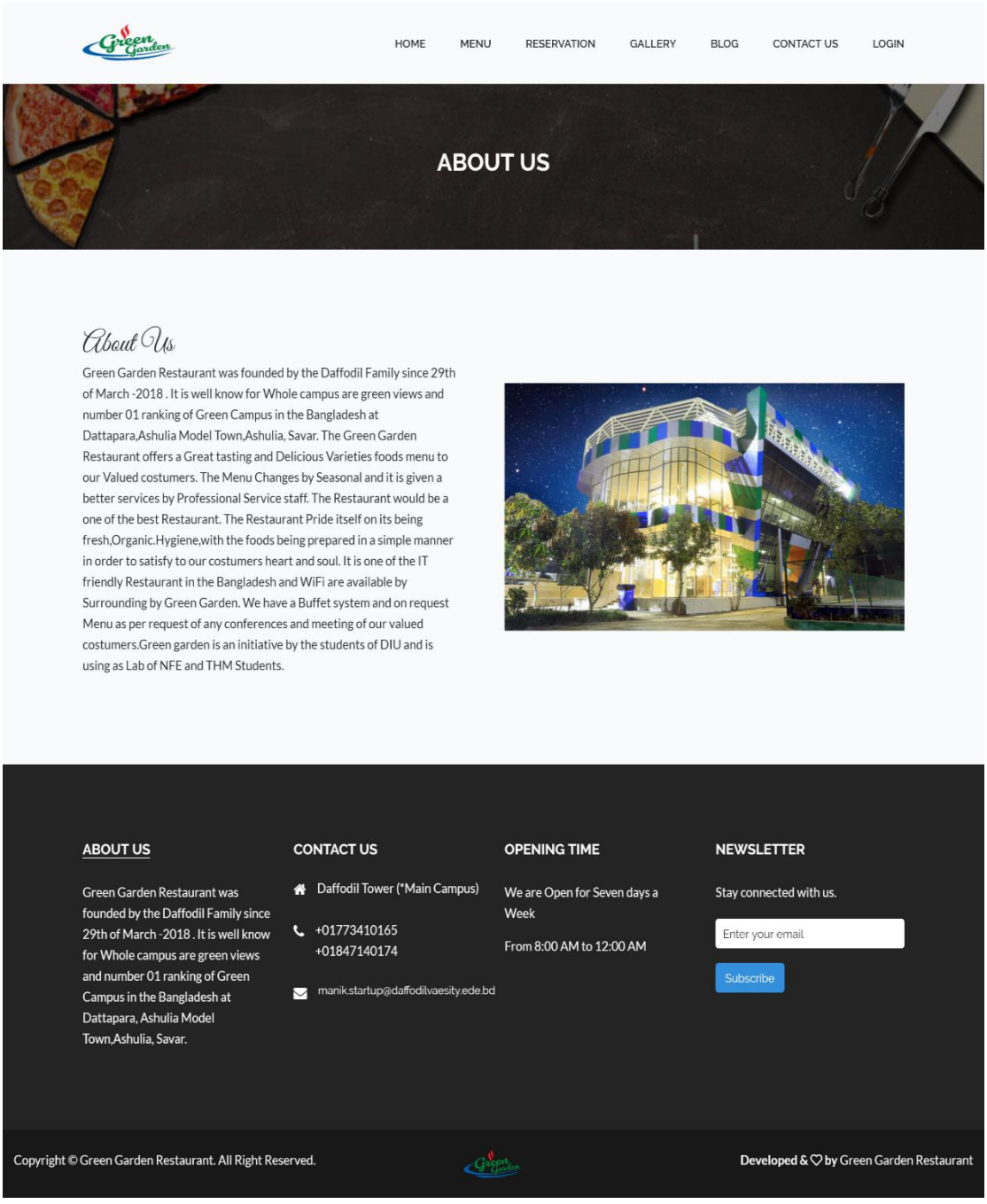

Figure: 4.8 About Us

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4.9 Back-end Design:

In admin panel, we use an admin panel template. In this template has all facilities of admin panel. We show data in admin panel by tabular format. Form admin panel, we can create, update any data. To get access admin panel, firstly we need to login. When we login in admin panel than we show the admin panel dashboard.

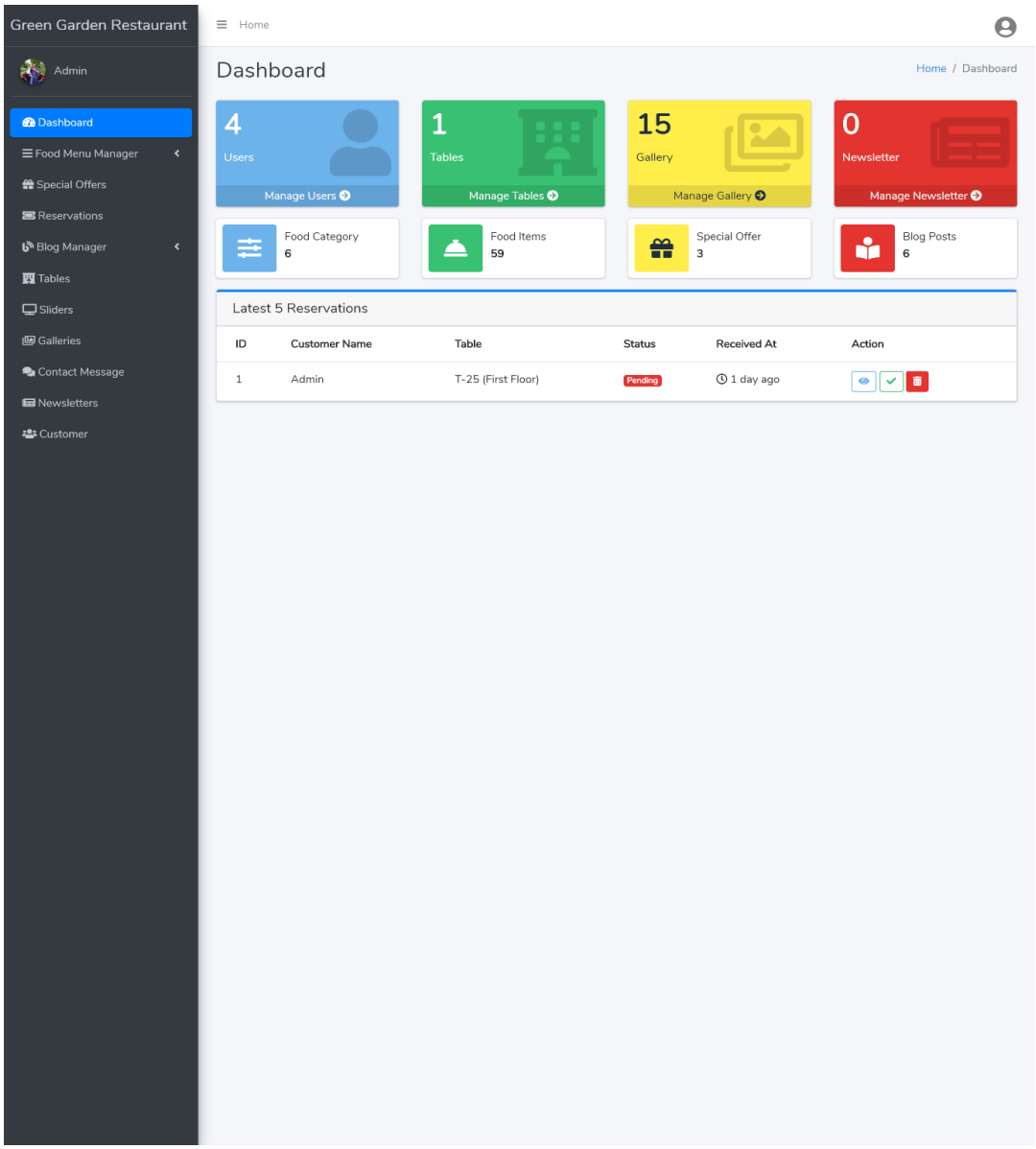

Figure: 4.9 Back-end Design

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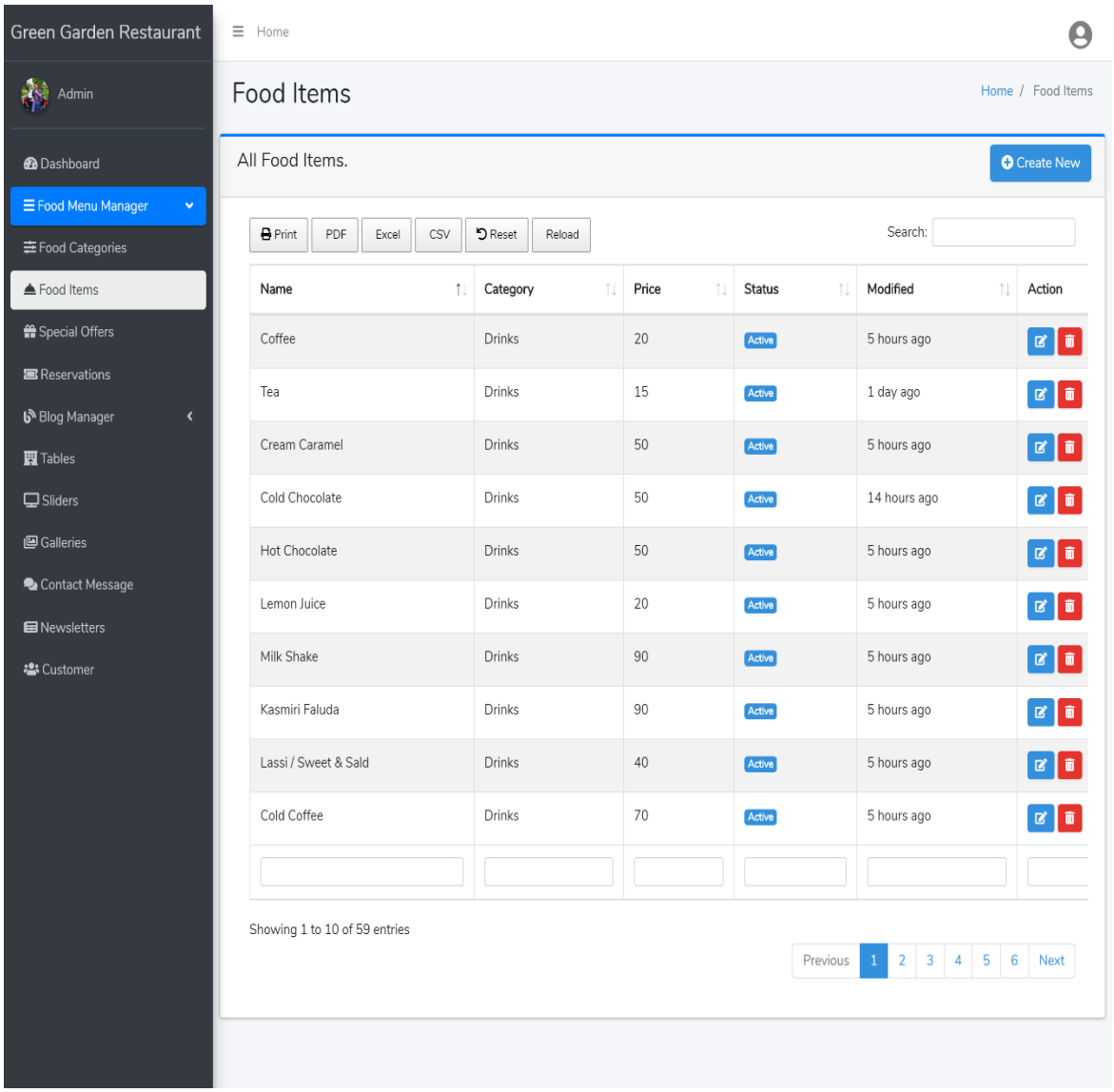

4.10 Implementation of Requirement:

In previous we also discus, we use HTML, CSS, JavaScript, PHP (Laravel). Firstly we design our template. Than we transfer it into code using Html, CSS and JavaScript. For use PHP (Laravel) we transfer it into laravel blade template. For proper segmentation we use unique folder and file. We also use bitbucket online store. It help us to control version and safe.

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Chapter 5

Implementation and Testing

5.1 Implementation of Database:

We know that database is very important part of every project. In our project, we try to design database with very clear segmentation. We use MySQL database.

5.2 Implementation:

Implementing the software design into the code and form design is the most significant part of the software. This is the development phase of the application. In this phase codes are written and necessary requirements are assembled to build the software.

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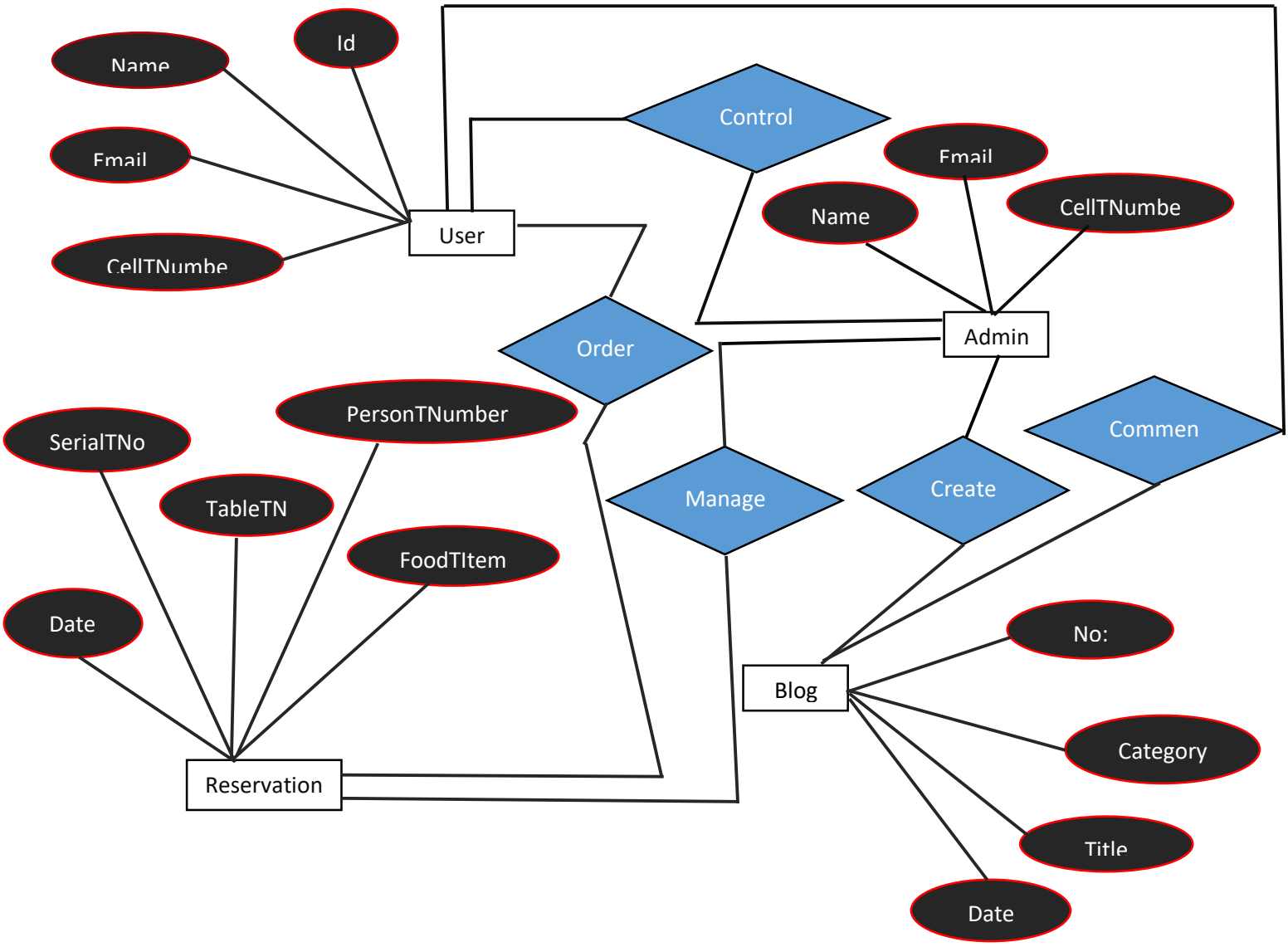

Figure: 5.1 ER Diagram for Restaurant

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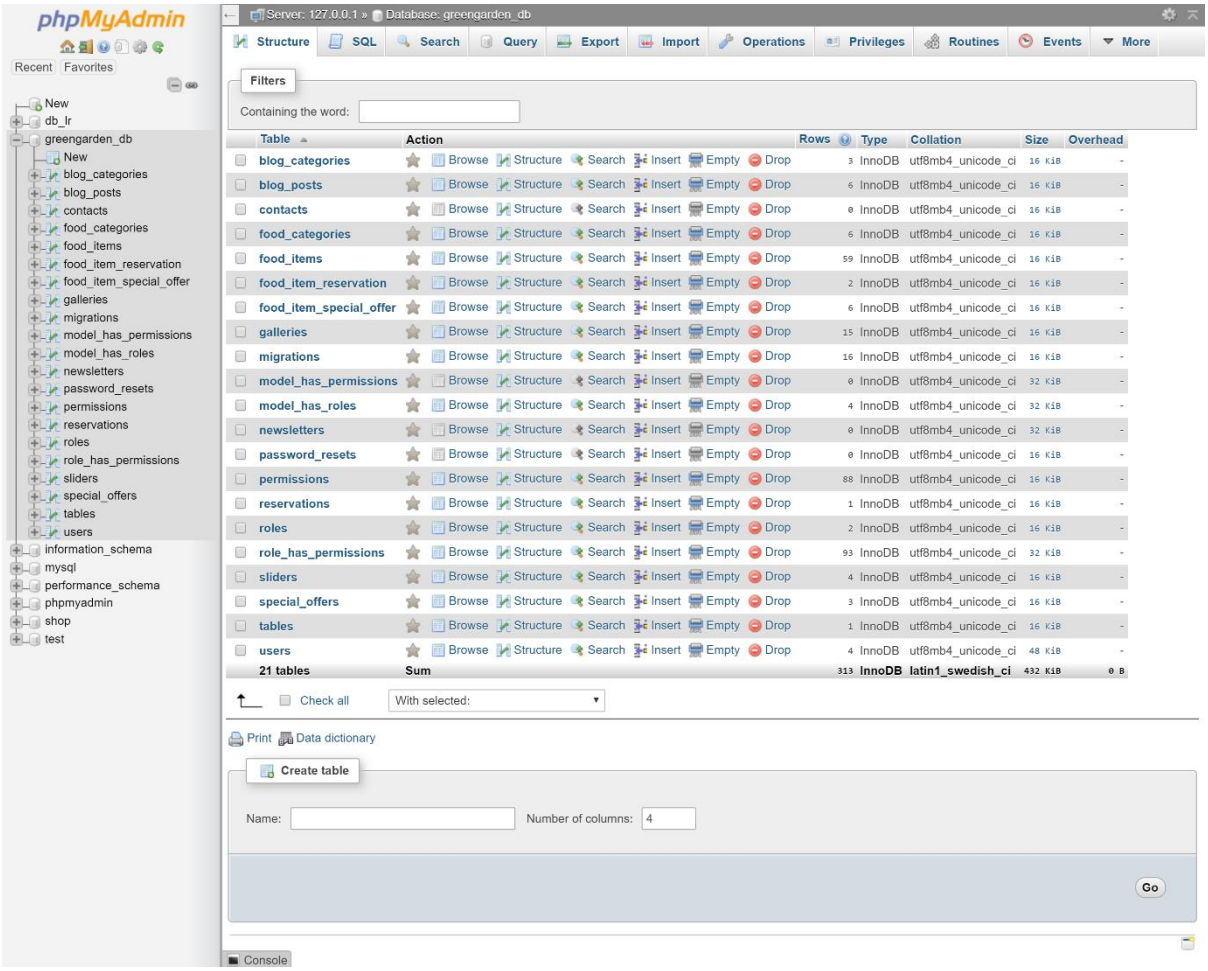

5.3 Integration and Testing:

In this phase, brings all the pieces together into a special testing environment, then checks for errors, bugs and interoperability.

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Chapter 6

Conclusion and Future Scope

6.1 Conclusion:

In our project of Green Garden Restaurant System is an online restaurant system. Here user can easily find their needs and gathering information about restaurant and restaurant food. User can also make a reservation through the restaurant system. In this system through, restaurant management easily maintain their food item and reservation and other things and create blog on different different events and function..

6.2 Future Scope:

In future we add many features to more efficient the online restaurant system to use.

Below the future scope to more efficient the online system.

- Make android application of the online system.
- Rating system of the restaurant.
- Ability to display the real time stock levels.
- Online orders of foods.
- Ability to display the real time stock levels.

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