

An UDP Project Report On

Cake On Click

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L. J. Institute of Engineering & Technology

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CERTIFICATE

The report entitled “Cake On Click” prepared by Aakash Deveshbhai Shah, Utsavi Birenbai Shah and Riddhibaben Harendrakumar Soni for Project Phase-II (Semester - 8) for the partial fulfilment of degree of Bachelor of Engineering (Computer Engineering), has been carried out under my supervision in Department of Computer Engineering, L. J. Institute of Engineering & Technology. Her present work has been found satisfactory.

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Aakash Shah

Utsavi Shah

Riddhi Soni

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ABSTRACT

Cake On Click is a web based application for which an android application will also be developed. The aim of the application is to make the cake ordering process online which will make it more easy and convenient for the customers.

There will be three types of user in the system. First is administrator who will be responsible for creation of the customer and cake shop's accounts and verifying both the user and cake shops authenticity. The second type of account is of cake shops ,who will register them selves to the administrator to have their shop listed on the website and sale the cakes online. The cake shops can modify their database without any interference from administrator so cake shops can change their price lists, cake names, photos etc. The third type of user is the customer who will order the cake online. The customer may or may not have an account.

The cake ordering process will be as follows. First the Customer will visit the site or application. He will browse through cakes offered by many cake shops, check their prices, he will also be able to find the nearby cake shops just by clicking on a simple gui option. After browsing through the cakes the customer selects a cake or decides to order a personalised cake (photo cake, designer cakes),the user will also be able to design his own cake. Then he proceeds to the next step where he will give other details like his name, phone number, email address these fields are necessary fields but if the user has logged in through an account he will not have to fill such details, then he will have to provide expected delivery date and time, then he will be able to pay in advance or choose to pay on the cake shop after which the order will be submitted if the customer has logged in through he is account the ordering process is over and the cake shop will send a confirmation email and text to the customer with the time when cake will be ready, bill amount and order number. If the user has not logged in through a valid account after submitting the order he will have to wait for a order number sent to his mobile number through text message, the ordering will only be completed only after attaching the order number with the order details. The order number is important the customer will have to show the order number at the time of picking up the cake.

The cake shop will be able to generate an excel sheet directly from the online database just by clicking on a button.

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1.0 INTRODUCTION

1.1. PROJECT SUMMARY

We are developing a website for online cake ordering and also are planning to develop an android application for it. Our website will offer cake from different local cake shops associated with us. The customer will be able to browse through the cakes, compare the prices of the cakes and select the best cake according to his choice , he will be able to order the cake online with specified delivery date and time. The website will provide payment gateway for advance payment but customer will also be able to opt for paying the amount at the time of delivery. Home delivery service depends on particular cake-shop. The system will contain some offers. Also the customer can order designer and personalised cake.

1.2. PURPOSE

The purpose of the project is to make the ordering process easy, fast and convenient for the customers and help the cake-shops to reach a wide range of customers and expand their business. The system will be available 24*7 so it takes away the time constraint that cake shops have to order a cake. The customer will be able to find the best cake for him by comparing prices and cakes from different cake shops.

1.3. SCOPE

- The system is useful to every customer who wants to order a cake.
- They can use this website to search the cakes.
- The system is also useful to all the cake shops who want to expand their business.
- They can use the system to reach wide range of customers.
- The system is an e-commerce system targeting a large segment of market.

1.4. TECHNOLOGY USED

- Operating System : Windows 8, Windows 10
- Programing language: PHP
- Front-End Tool: HTML, CSS, Java script
- Back-End Tool: MySQL 5.0
- Web Server: Apache
- Database: My SQL

1.5. LITRETURE REVIEW

1.5.1: Study Of Current Existing System:

1>Cake hunt: <http://www.cakehunt.com>

Description:

Cake hunt is a website providing similar kind f service like us. It allows ordering of cake online from 3 cake shops in Ahmedabad and one shop in Vadodara. It relatively new to the market and has started working after we started our project.

2>Food panda: (application only)

Description:

Food panda is an online system where the user can browse through the food products from different hotel/restaurants check their price and order the food products. The food service providers have registered with the system administrator and every user can make his/her account and access the services.

3>Grofers: (application only)

Description:

Grofers is a multi purpose android and ios application. It allows you to select from different products available on the application like grocery, mobile & accessories, pet care, cake & bakery items and order it online from the available stores.

1.5.2:Limitation of Existing System

1>Cake Hunt

1. No nearby shops function.
2. No offers.
3. No personalised cake options.
4. No sms-gatway feature to provide information of order status.
5. No wallet system.

2>Food panda:

1. Limited to the food products does not include cakes.
2. Have to manually enter the area for near by shop selection.
3. No separate option for veg and non-veg.

3>Grofers:

1. Is not only focused on cake system.
2. No service to find near by shop based on current location area.
3. No web-site available.
4. Images and description of cake not available.
5. No facility to order personalised and designer cake.

1.5.3 Innovative Ideas In Our System

One of the main innovative idea is to provide e-commerce service for the local shops and to have options of cake from more than one cake shop. The second innovative idea is to find the near by shops. Another one is the option of custom design of cake. It also makes it possible to upload a picture for personalised cakes.

1.5.4 Comparison of our system with other system

Features	Grofers	Food panda	Cake Hunt	Cake On Click
Online Cake	Yes	Not in all location	Yes	Yes
Nearby shops based on your current location	No	No	No	Yes
Focused ON cakes only	No	No	Yes	Yes
Photos of cake	No	No	Yes	Yes
Website	No	No	Yes	Yes
Application	Yes	Yes	No	Yes
Designer Cake	No	No	Yes	Yes
Features	Grofers	Food panda	Cake Hunt	Cake On Click
Photo Cake	No	No	Yes	Yes
Customized Cake	No	No	No	Yes
Wallet system	No	Indirect	No	Yes
Offers	Yes	Yes	No	Yes

sms-gateway for providing information of order status	Yes	No	No	Yes
---	-----	----	----	-----

1.5.5 Usability of project

The project is useful to the customers of cake shops as it makes the cake ordering process easy and convenient and also allows way to order a cake even if the cake shop is closed at that time. The project is also helpful to the cake shops as it provides a way to reach wide range of customers and handle the business online ,so it can help them to expand and grow their business . Also customers will be able to find the nearby shops which help the shops and customers both.

2.0 PROJECT MANAGEMENT

2.1 PROJECT DEVELOPMENT APPROACH AND JUSTIFICATION

The project will be developed using the conventional procedural approach and using PHP as the programming language for website development. The system needs to handle large amount of data from multiple shops and user data. Data hiding and method binding is not required so procedural approach is best. The reason for choosing PHP is that it supports databases and we are familiar with the language as we have done a project in past using this language. Also procedural approach will help us to understand the flow of the system well.

Process model:

Incremental model has been used.

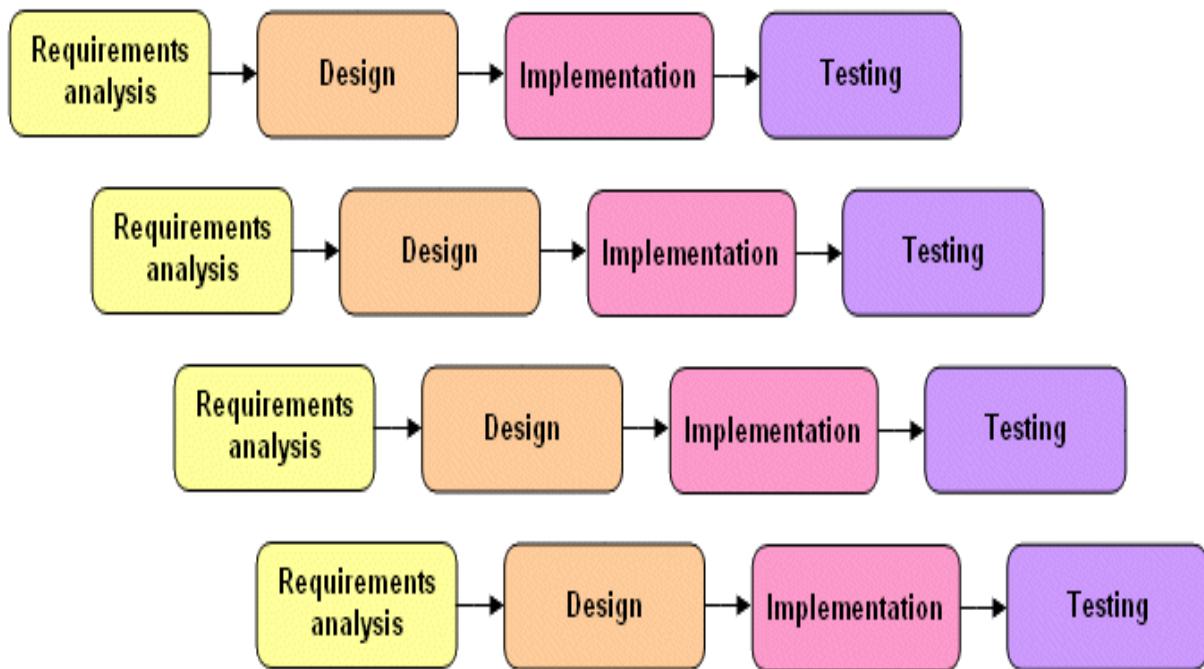


Figure 2.1.1 Project Model

2.2 PROJECT SCHEDULING

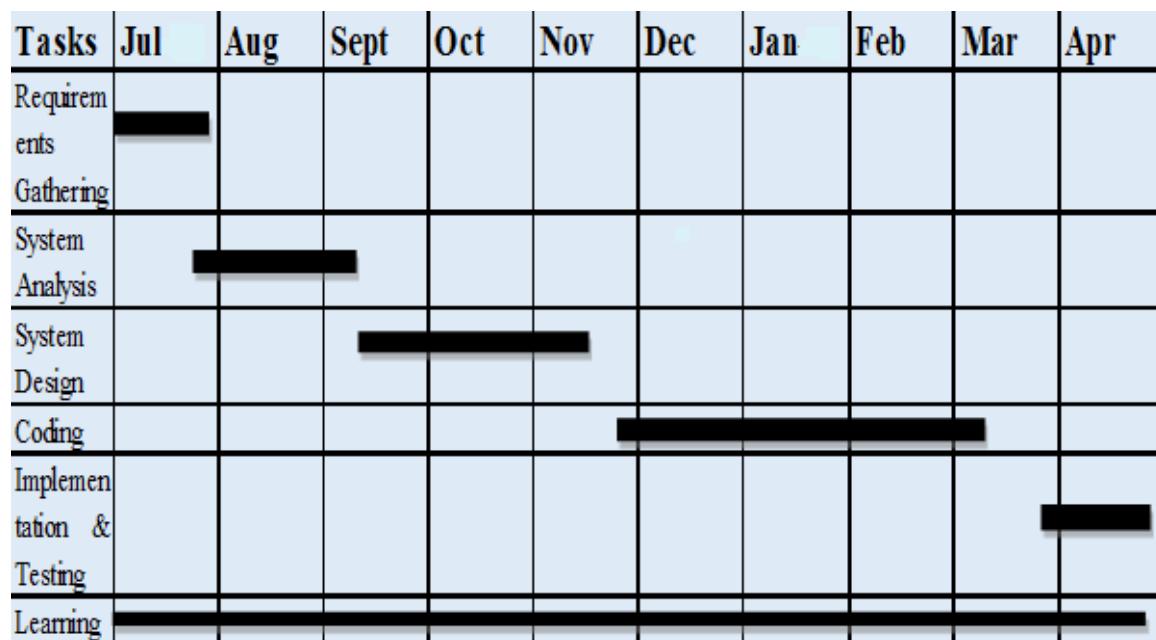


Figure:2.2.1 Project Scheduling

2.3 RISK MANAGEMENT

2.3.1 Risk Identification

- Current competition in the market.
- Cake shops needs to agree to work with us and provide their service online.
- There are chances that cake shop do not deliver the cake on time.
- There are chances of fraud from customer.
- Customer might refuse to accept the order afterwards.

2.3.2 Risk Analysis

- Current competition: The current market competition is growing day by day in this digital world. Though there are not much e-commerce sites which sells cakes of almost all the cake shops but in future if some websites come into e-world it may affect the success of our project
- As our project is dependant on the cake shops, it is a must that all well-established ,famous, genuine cake shops agree to give their data to us, it is must that they trust us and give us a chance to improve.
- There are chances that the customer refuses that he has not placed any orders after giving the order, also the cake shop may refuse about approving any order if they could not prepare the cake on time.

2.3.3 Risk Planning

- The unique features in the system will make us stand out compared to the others and help us face the competition.
- We will try our level best to convince all the cake shops to work with us.
- The cake shops and customers will have to register themselves to us first so the customers and cake shops can be validated beforehand to prevent frauds.
- There will be unique order generated for each order and sent to the customer via sms, now no one can refuse that the order was placed

2.4 CANVAS DESIGNING

2.4.1 AEIOU Summary

2.4.1.1 Activities

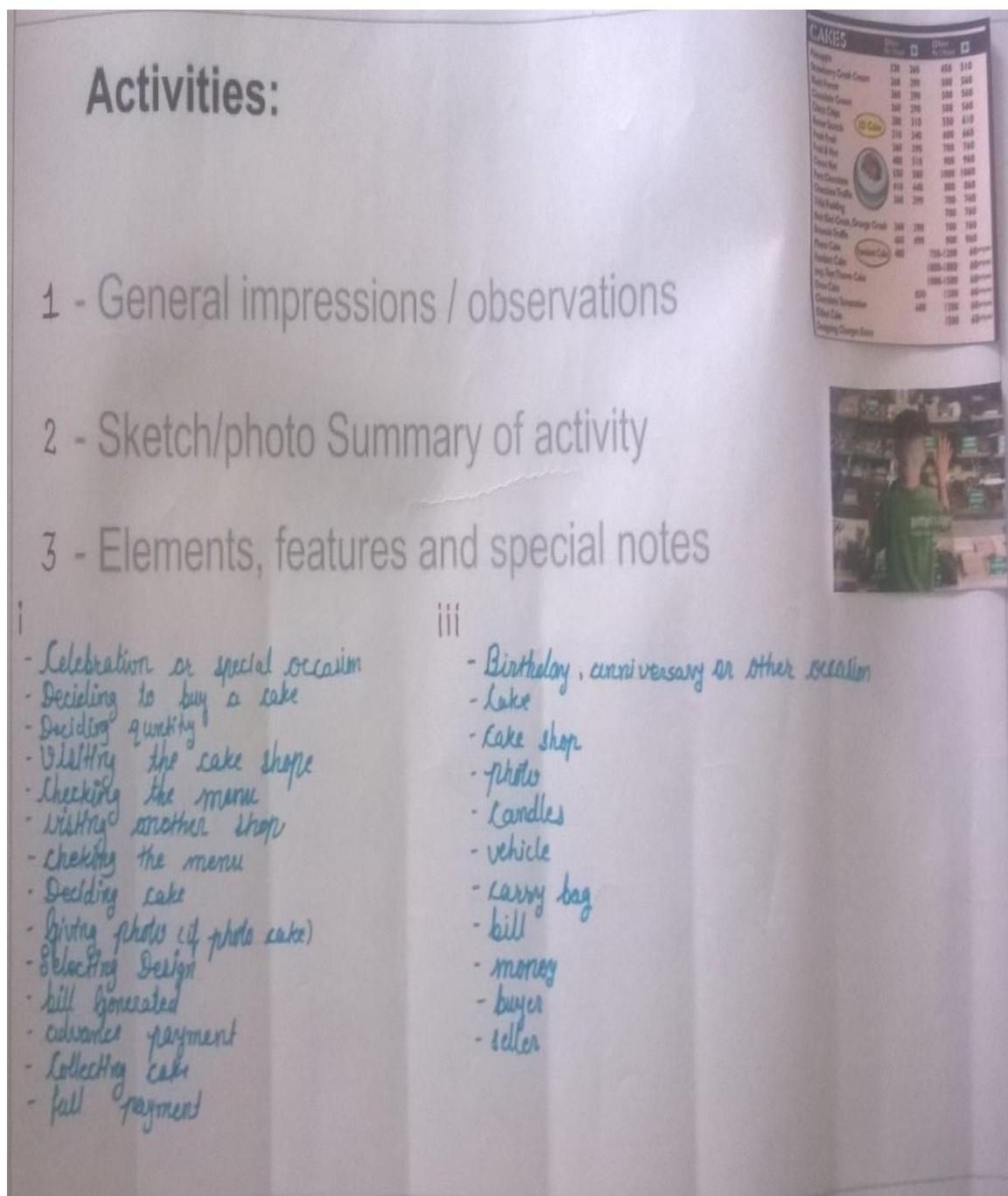


Figure 2.4.1.1 Activities

2.4.1.2 Environment

Environment:

- 1- General impressions/
observations
(Style, material & atmosphere)
- 2- Floor plan
- 3- Elements, features and
special notes
- 4- Scenes

1 <ul style="list-style-type: none">- Traffic problem (during visit to cake shop)- Cake shop staff- Ambience of cake shop	3 <ul style="list-style-type: none">- Cake shop- Competition among cake shop- Billing system
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Figure 2.4.1.2 Environment

2.4.1.3 Interactions

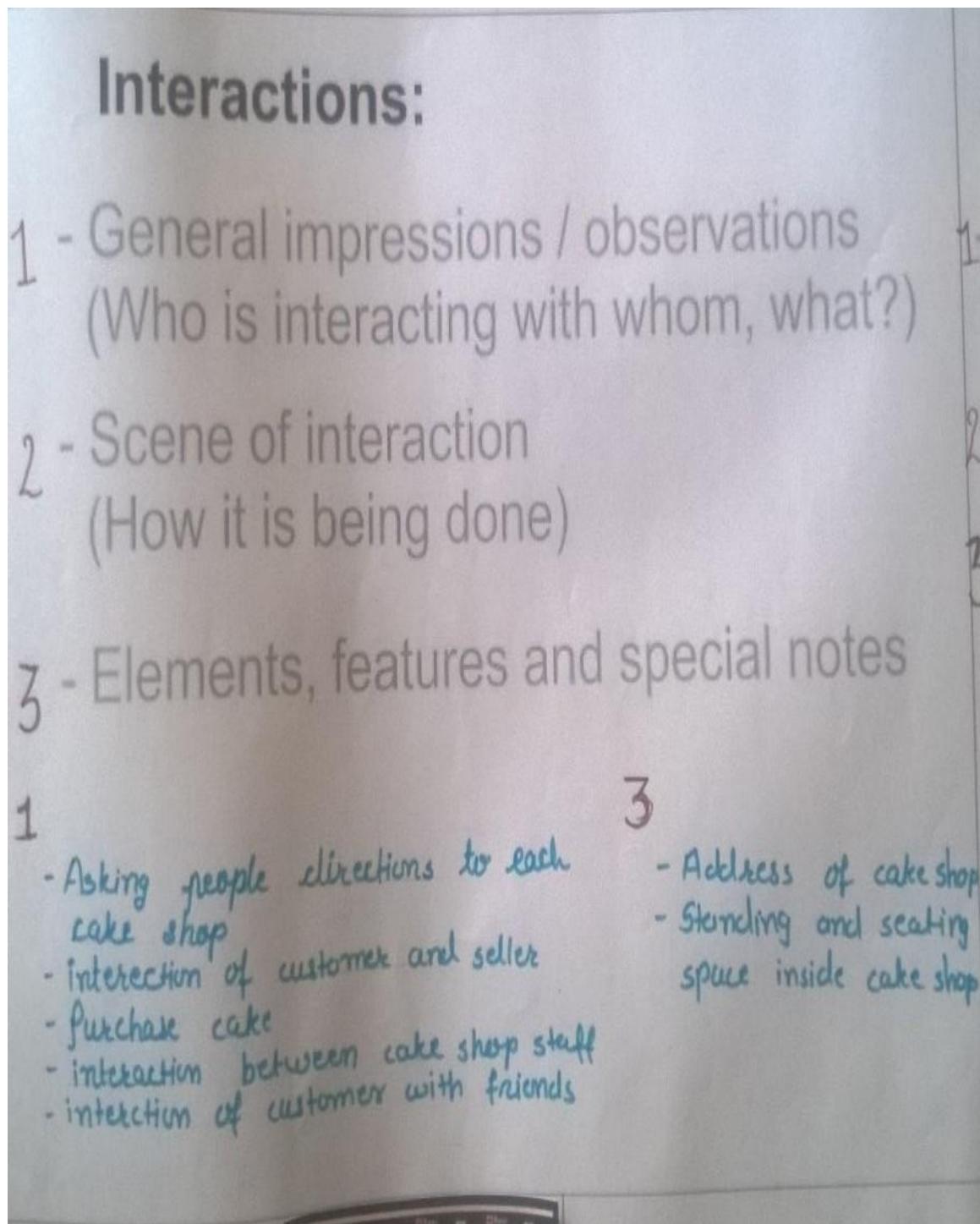


Figure 2.4.1.3 Interactions

2.4.1.4 Objects

<h2>Objects:</h2>		
1	2	3
- People are using mobiles - customers watching cakes - music (inside cakeshop) - customers talking - asking for bill - computerised or writing system for bill - preparation cake in bakery	- cakes - bill - customers - bakery - speaker	- Lakes - bill - customers - music system - speakers - air conditioner - bakery
1- General impressions / observations (What components are involved? How?)	2- Inventory of key objects	3- Elements, features and special notes

Figure 2.4.1.4 Objects

2.4.1.5 Users

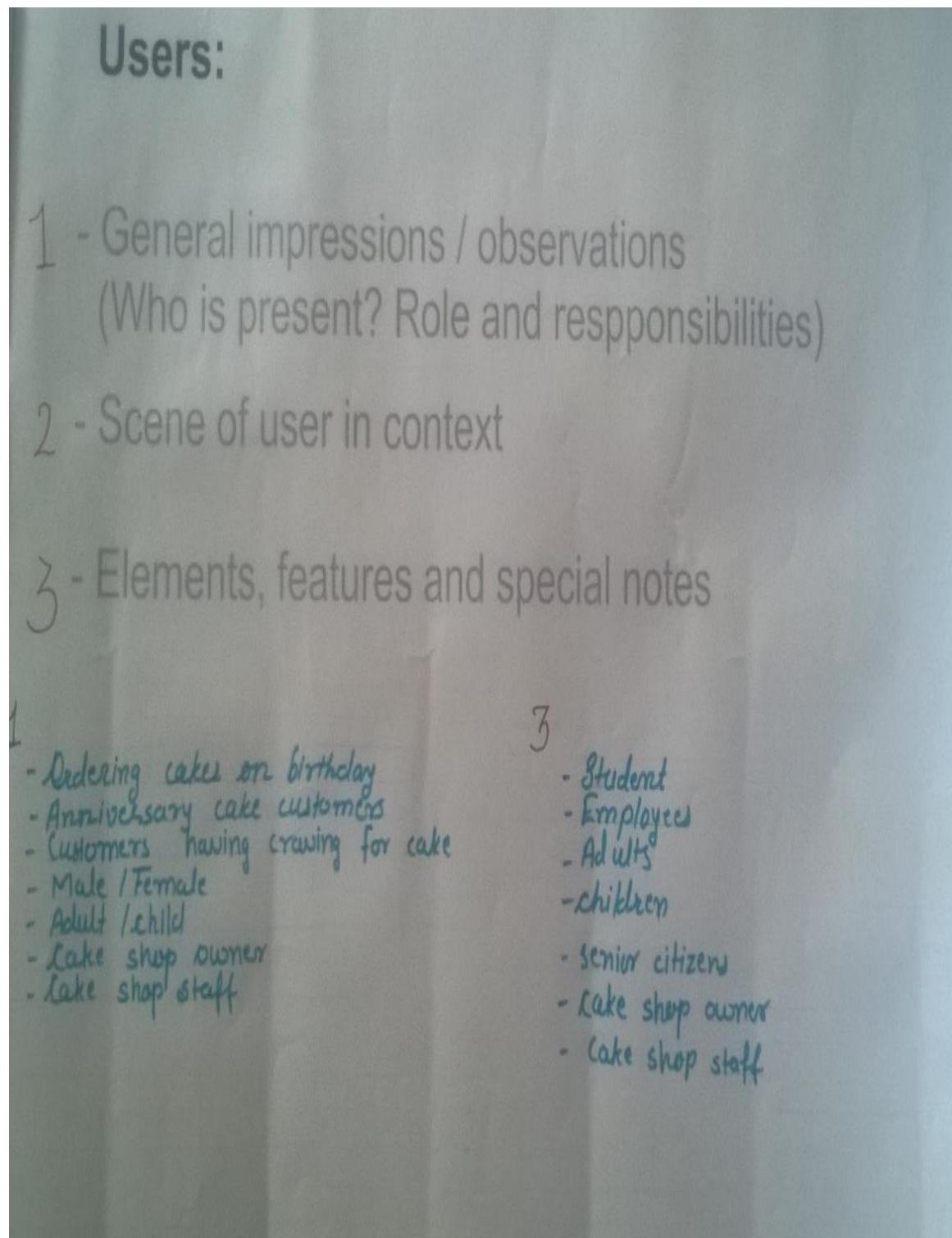


Figure 2.4.1.5 Users

2.5 Empathy Summary



Figure 2.5 Empathy Summary

2.6 Ideation

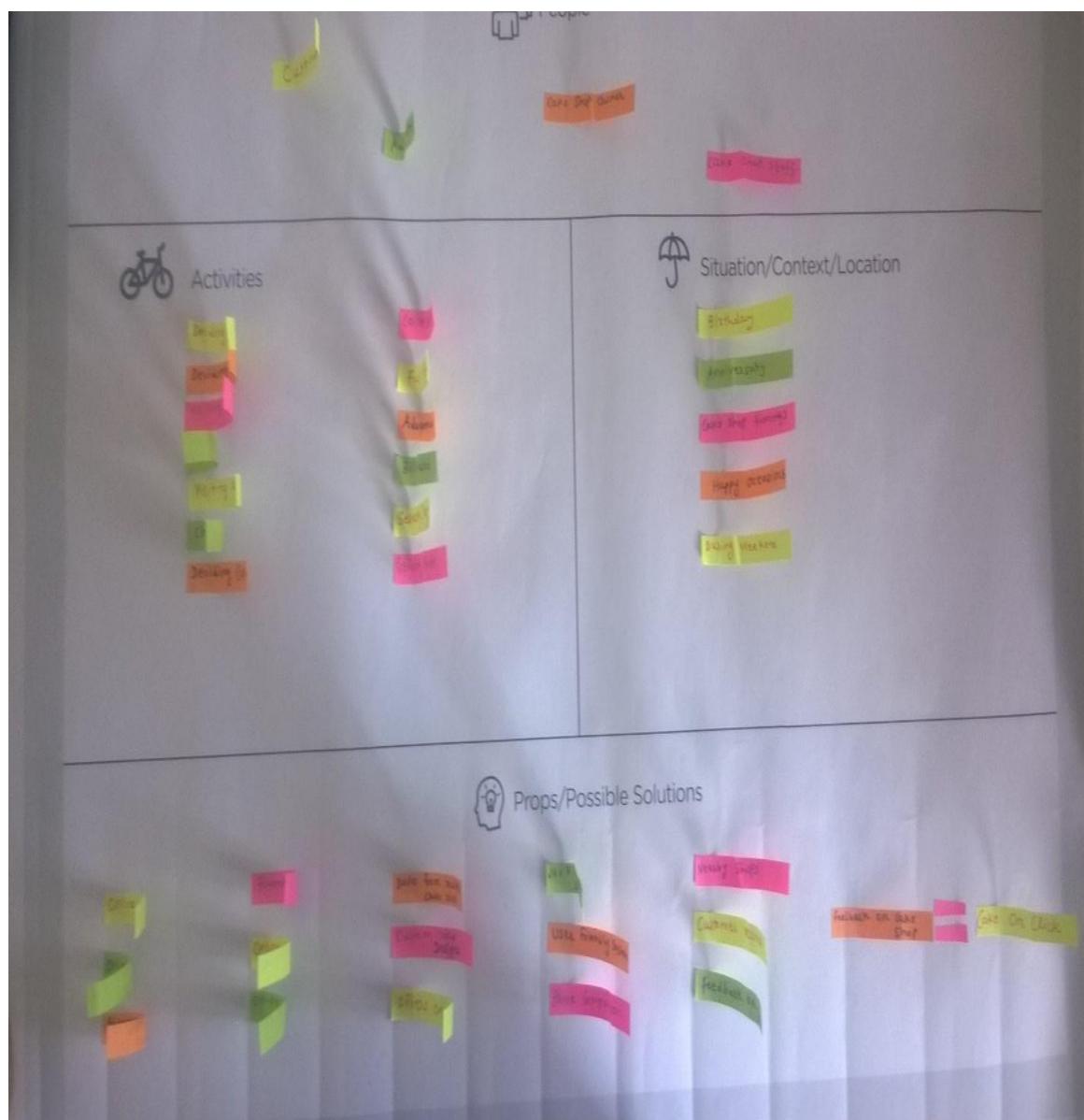


Figure 2.6 Ideation

2.7 Product Development

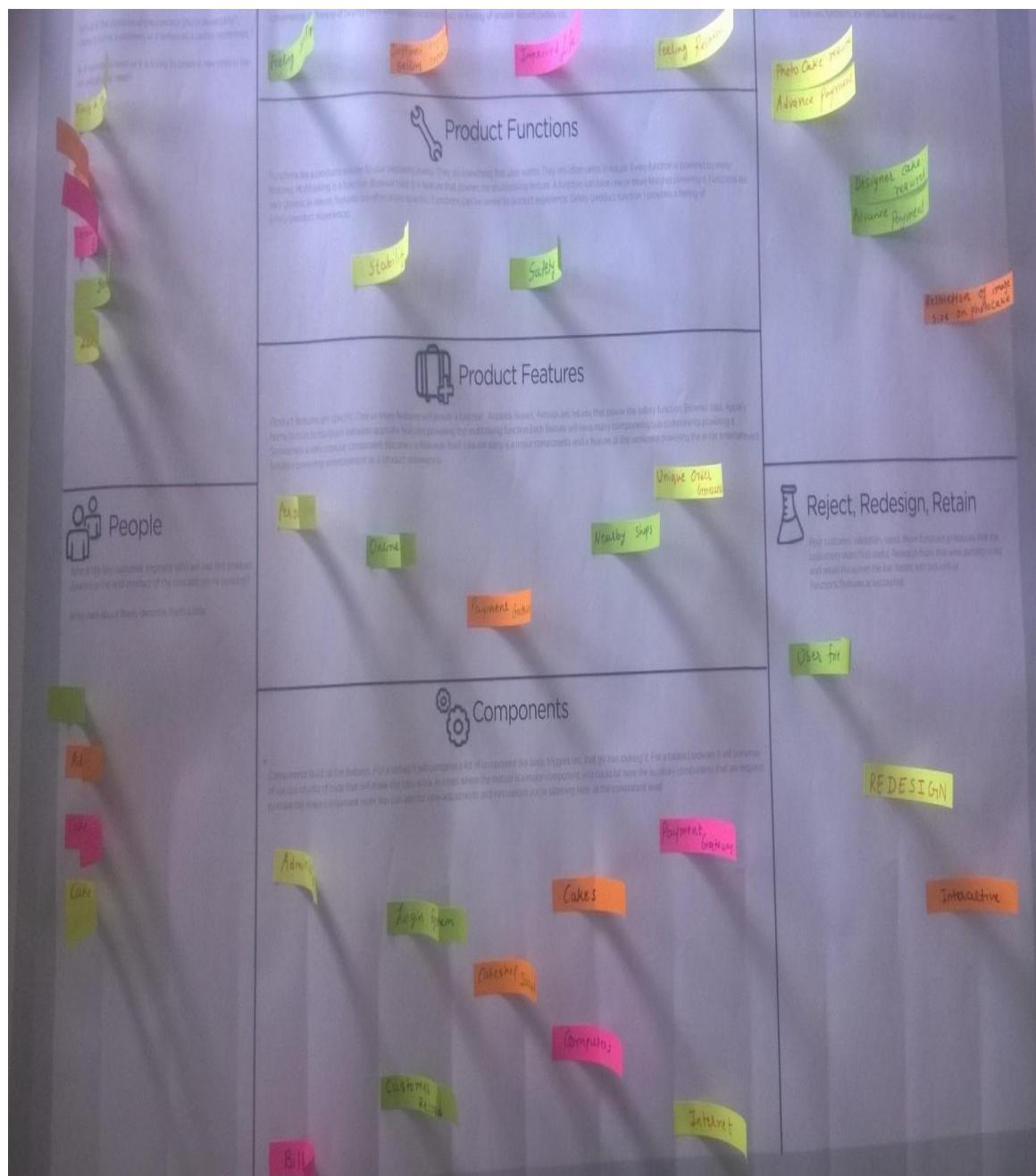


Figure 2.7 Product Development Canvas

3.0 SYSTEM REQUIREMENTS STUDY

3.1. USER CHARACTERISTICS

User can register then login to our website for purchasing cakes and also can update their data. The user can browse through the different cakes offered by the cake shops and select the best cake according to him. The user can select the design for the cake, upload his own design or upload a photo for the photo cake. The cake shops are also the user of our system. The cake shop can register themselves with us, have their cakes offered online and receive orders. They can log in into the system and check their orders, approve/disapprove the orders, generates an excel sheet of their orders, change the prices for the cakes, add/remove the cakes for their shop. The administrator will verify both customers and cake shop.

3.2 SOFTWARE REQUIREMENTS

➤ Software Requirements:

Operating System - Windows 7, Windows 8, Linux(any os)

Programing language- PHP

Front-End Tool- HTML, CSS, Java script

Back-End Tool- MySQL 5.0

Web Server- Wamp

Database- My SQL

➤ Network requirement:

Internet connection is required to access the system.

3.3.SPECIFIC REQUIREMENTS

3.3.1 Functional Requirements:

- The system will have to provide registration facility for three types of user. One for administrator, one for customer and one for cake shop.
- The system will provide login option.
- Separate database of each user, and cake shop.
- Payment gateway for online payment.
- An option to search nearby shops.
- Unique order number generation and sending it through mail and message.
- Showing cakes of different shops on home screen.

3.3.2 Usability

The project is useful to the customers of cake shops as it makes the cake ordering process easy and convenient and also allows way to order a cake even if the cake shop is closed at that time. The project is also helpful to the cake shops as it provides a way to reach wide range of customers and handle the business online ,so it can help them to expand and grow their business . Also customers will be able to find the nearby shops which help the shops and customers both.

3.3.3 Reliability

The system is providing direct communication between the cake shop and the customer so the administrator has no responsibility. The only responsibility of the administrator is to validate the cake shop before the creation of the account of cake shop and providing his cake shop details online .The administrator is also responsible for the creation of the customer account .As the cake shop is validated beforehand the system is immune from fraud by the cake shop .Also the customer has to provide contact details to get the unique order code so the cake shop does not have to worry about fraud from the customer.

3.3.4 Performance

The system is an online system so slow connection and user traffic can affect the performance of the system.

3.3.5 Supportability

The website can be accessed from any computer using a simple browser. The system supports all the browser and all the machines only a steady internet connection is required. The android application will be supported by all the android platforms.

3.4 ASSUMPTIONS AND DEPENDANCIES

The whole system is based on the assumption that the cake shops will agree to work with us and the services like home delivery are based on the cake shops. The offers are also dependant on the cake shops.

4.1 REQUIREMENTS OF NEW SYSTEM

4.1.1 User Requirements

- User needs to have valid and working contact number and e-mail address to register with the system
- In order to access the web site the user needs to have steady internet connection
- In order to use the application the user has to install the application and the device must have at least 512 mb of ram

4.1.2 System Requirements

- The system needs to support registration of all the three type of user and provide login facility for all the users.
- The system needs to handle a large database containing data from all the cake shops and record of all users.
- The system should be scalable to support multiple users and adding new users at any time.
- The system needs to provide generation of excel sheet of sales report for the cake shop.
- The system should provide the customer an option to save some orders for future use and reference.
- The system must have some feedback and rating feature for the cake and cake shops.
- The system should be highly available and fault tolerant and should be able to handle a large number of users.

- The system management has to be automated so that administrator has minimum amount of work.

4.2 FEASIBILITY STUDY

4.2.1 Does the system contribute to the overall objectives of the organization?

The system is an independent system which does not belong to any organization. But it contains data from multiple cake shops and allow them to offer their products online and expand their business which is always the main objective of any organization. The system is a user centric system and helps the user to all the task effectively and efficiently.

4.2.2 Can the system be implemented using the current technology and within the given cost and schedule constraints?

Yes the current technology is more than enough to implement the project .As it is a web site it can be developed using PHP programming language and other scripts. It can be tested using freely available servers. For android application there are several tools available using which the application can be easily developed. There is no development cost as all the tools are freely available ,the only cost is of integrating payment gateway, wallet and publishing of the website. So it can easily developed within the cost constraints and as tools are easy to use the web site and application can be developed with a good speed to meet the schedule constraints.

4.2.3. Can the system be integrated with other system which are already in place?

No there are no existing system with which this system can be integrated but there are new systems being developed with which the system can be integrated to provide a better experience to the user.

4.3. REQUIREMENT VALIDATION

- The customer always wants to find the best cake at best price. Our system helps the customer to find such cake by providing data from multiple cake shop and giving an opportunity to compare the prices.
- The customer hates the idea of having to visit the cake shop multiple times, also traffic issues, travelling issues and weather issues also causes inconvenience. Our system tries to solve this problem by providing cake an option to order the cake online.
- The customer always wants some offer on the cake, our system not only has discounted cakes but there is a unique offer system.
- The customer sometimes wants design his/her own cake our system offers the custom design facility.
- The customer may like to order the cake any time for which our system supports 24*7 availability.
- The cake shops would like to have feedback from their customers to improve the quality of their product, the system has the rating and comment facility to fulfil this requirement.
- The rating and comment facility will help other customers to make the best choice.
- The cake shop may require advance payment for the order of personalised cake for which the system has a payment gateway integrated.
- The payment also helps the customer in some cases.
- The wallet system will help to make the payment process more easy.

4.4 FEATURES OF NEW SYSTEM

- The system will have to provide registration facility for three types of user. One for administrator, one for customer and one for cake shop.
- The system will provide login option.
- Separate data table for cake shop.
- An option to search nearby shops.
- Showing cakes of different shops on home screen
- Unique order number generation and sending it through mail and message.
- The cake shop will be able to generate an excel sheet directly from the online database just by clicking on a button.
- Home delivery of cake(depends on cake shop).
- Wallet system and unique offer system.
- sms-gateway for providing confirmation code and information regarding the order status.
- Provide easy navigation and user-friendly interface:

We understand that ‘ease-of-use’ features play a key role in the popularity of any website. We aim at designing a website that is easy to navigate, teamed with a user-friendly interface, all for comfort of your customers. We also make sure that you, as an administrator, find no difficulty in managing the website. Hence, we offer the best possible solutions to make your content management systems easy-to-use.

- Payment Gateway Integration :

Payment Gateway integration offers real-time online transactions. Customers can make on-the-spot purchases with the help of internet banking or credit cards. This ease of payment helps gather more clients online. Our promise is to offer secure and safe payment gateways so as to develop trust of your customers into your products and services.

4.5 CONVENTIONAL APPROACH

4.5.1 Process Flow Diagrams

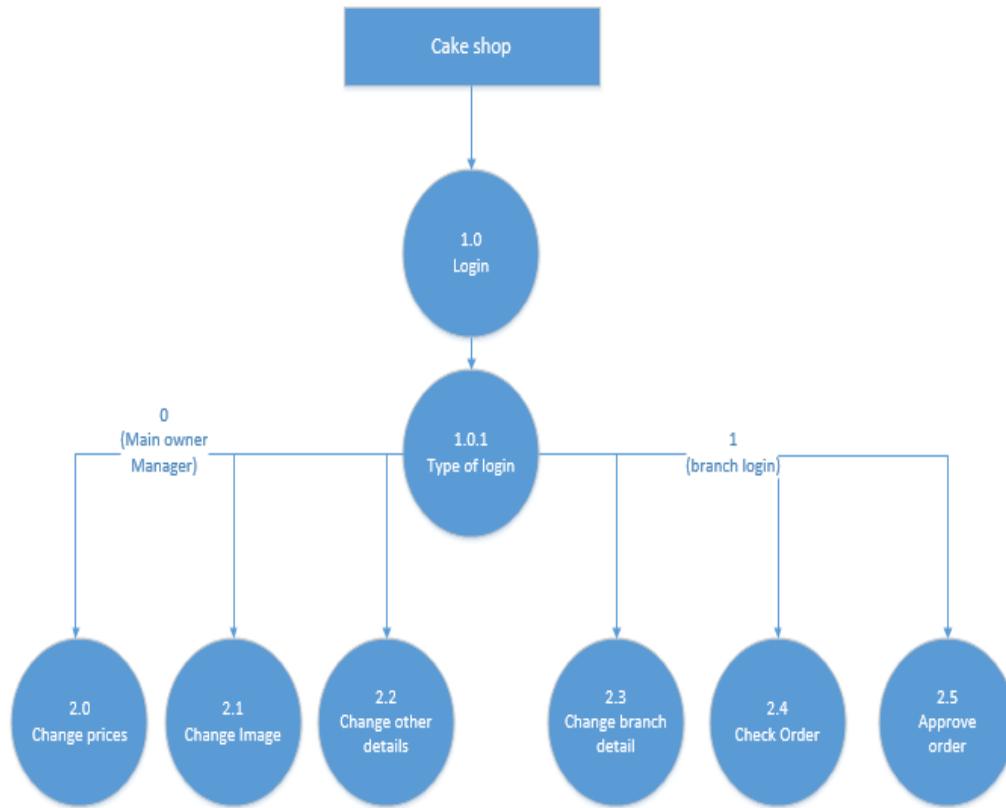


Figure 4.5.1.1 PFD Cake Shop

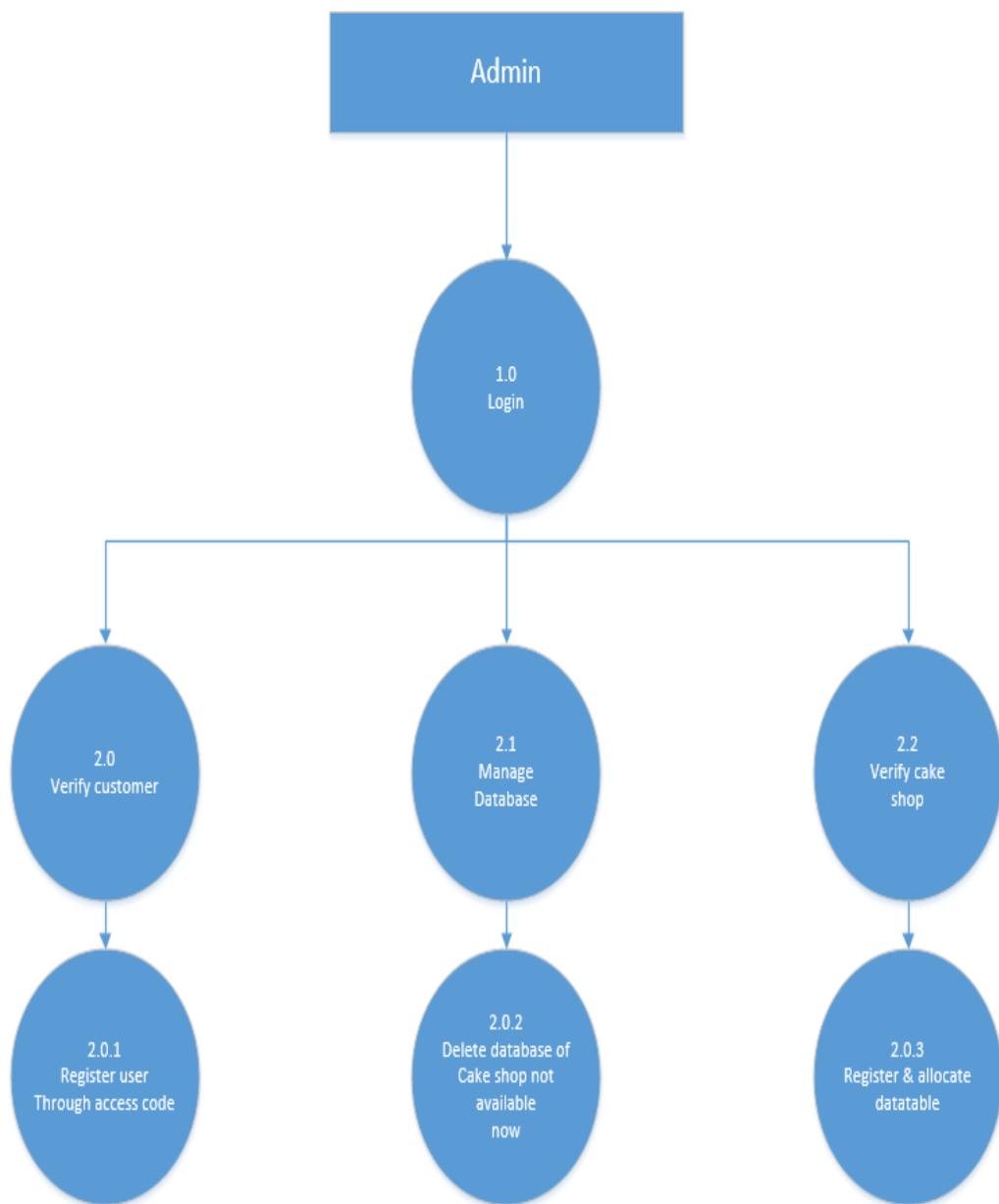


Figure 4.5.1.2 PFD Admin

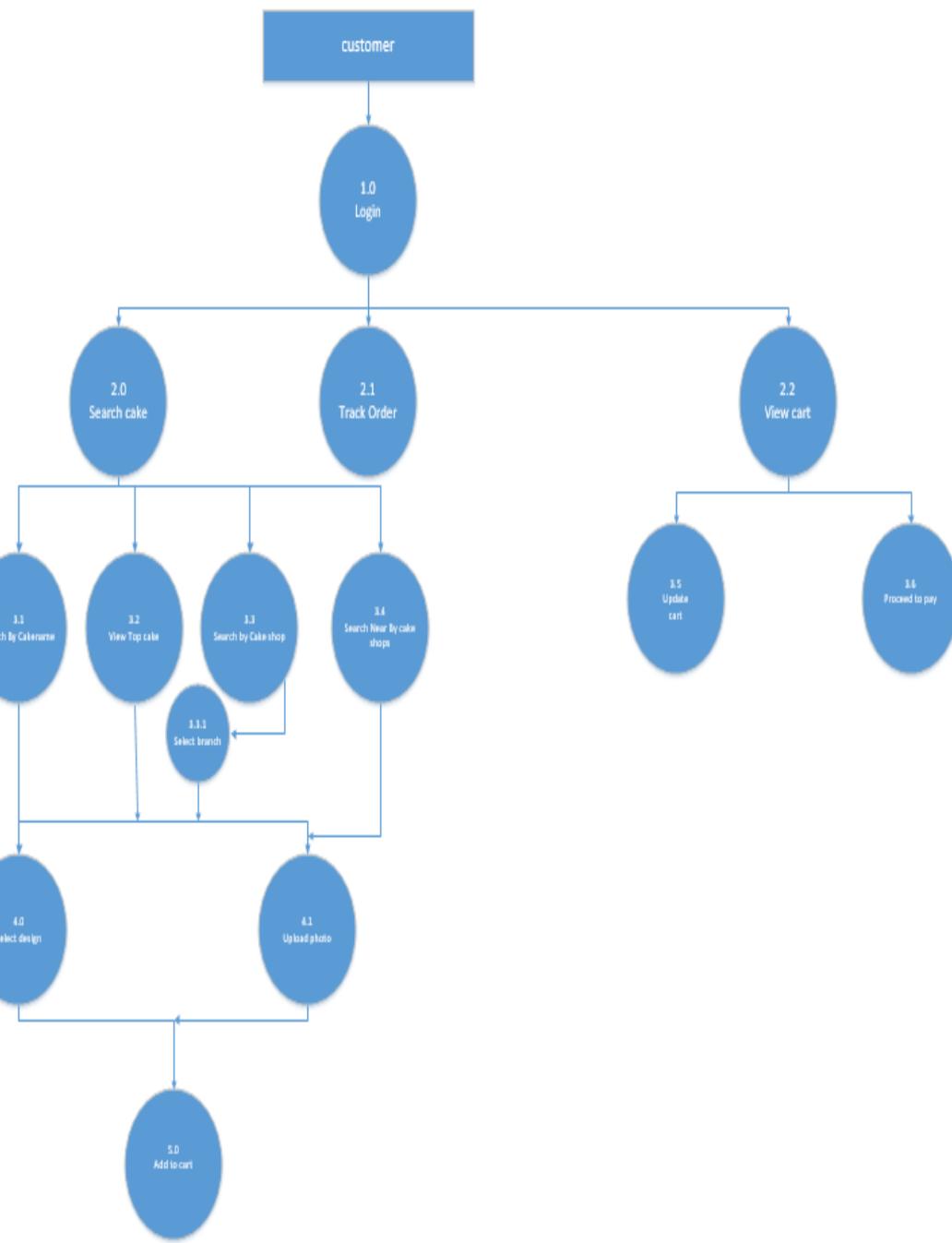


Figure 4.5.1.3 PFD Customer

4.5.2 Context Flow Diagram

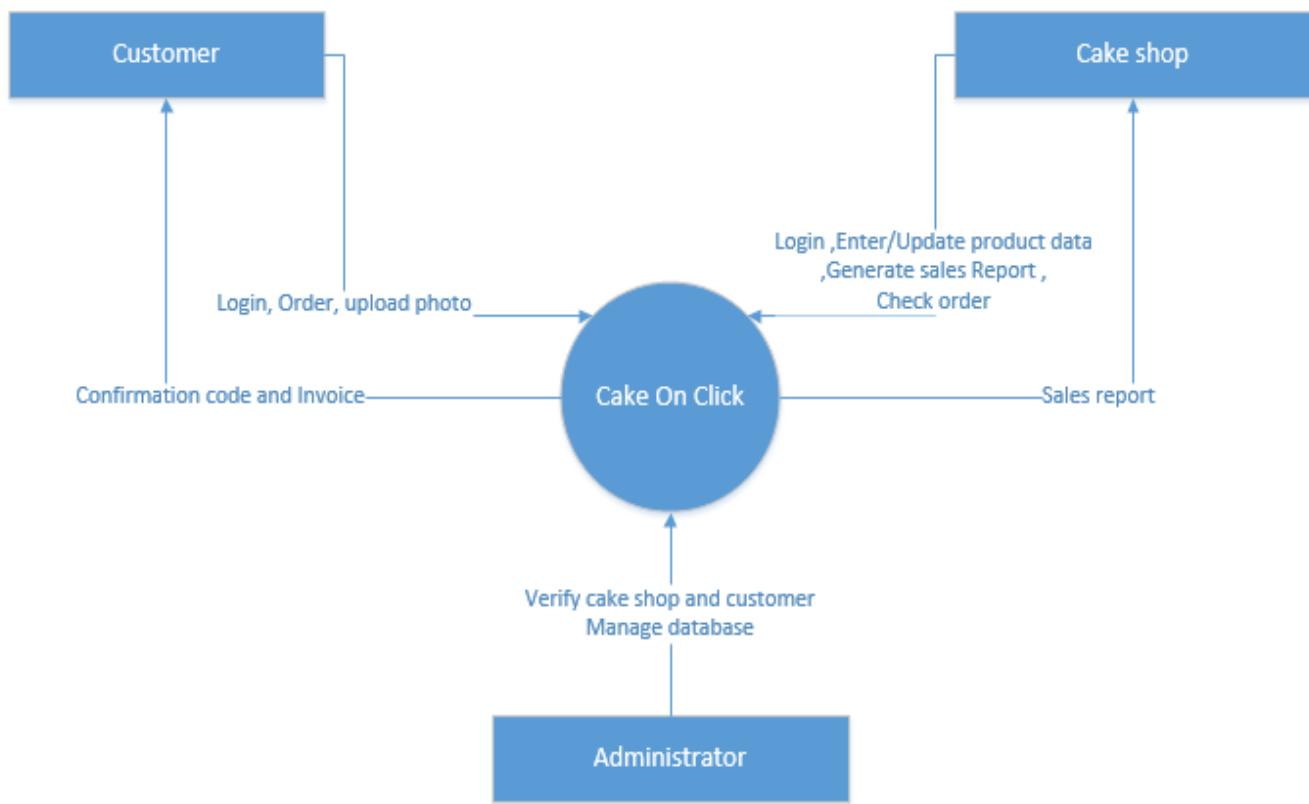


Figure 4.5.2.1 CFD

4.5.3 Data Flow Diagram

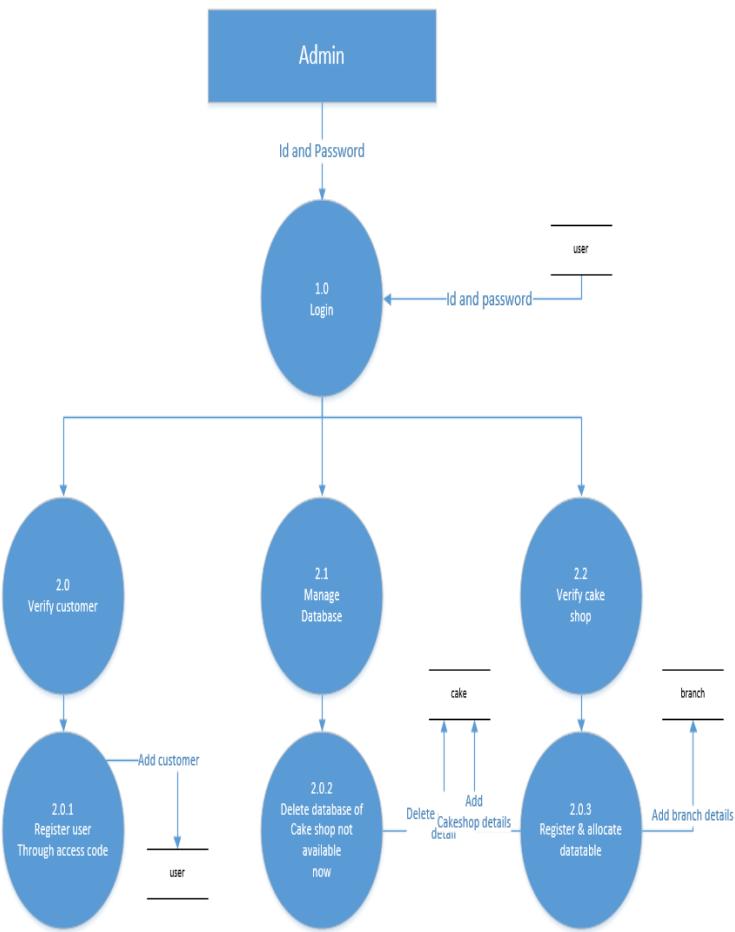


Figure 4.5.3.1 DFD Admin

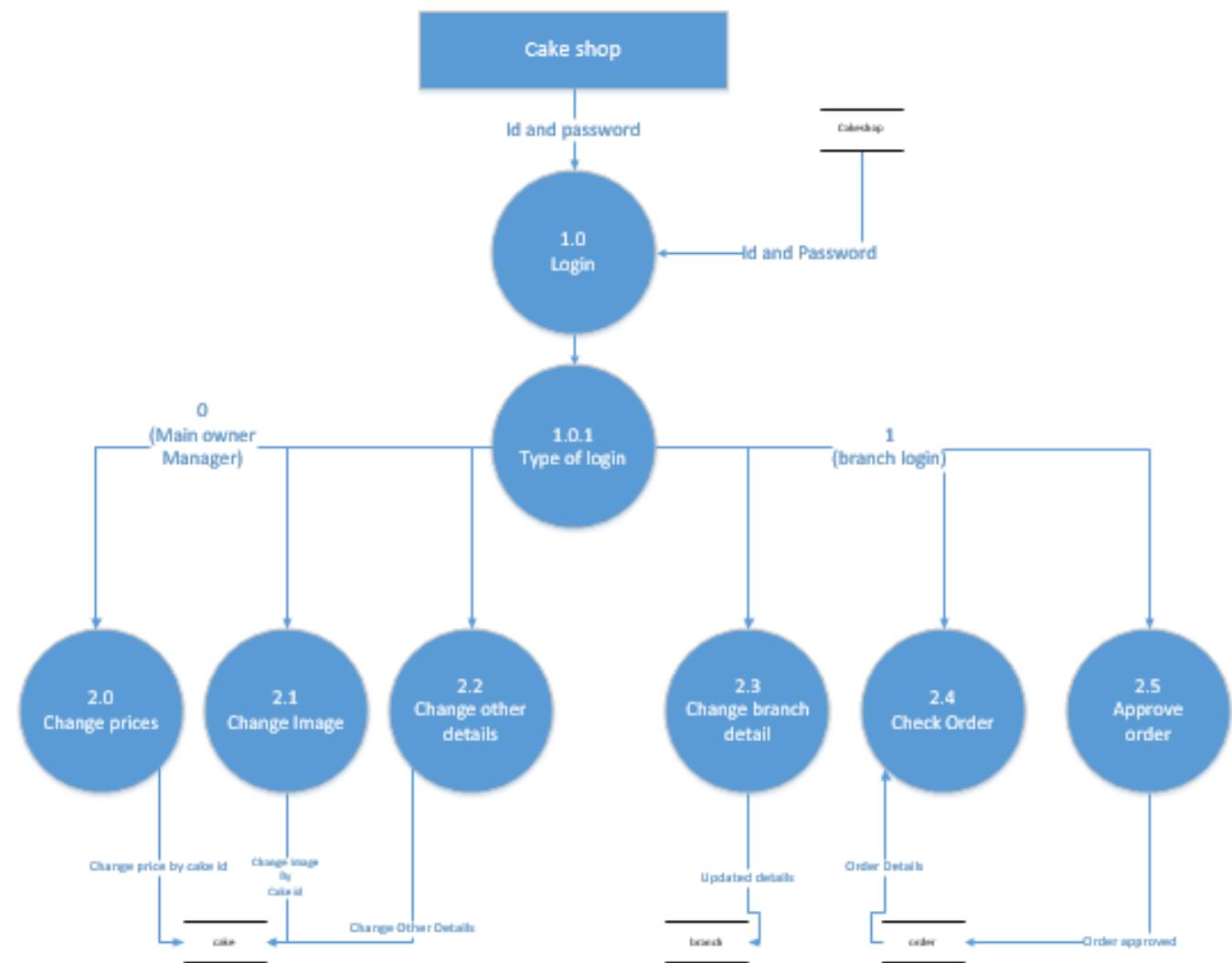


Figure 4.5.3.2 DFD Cake Shop

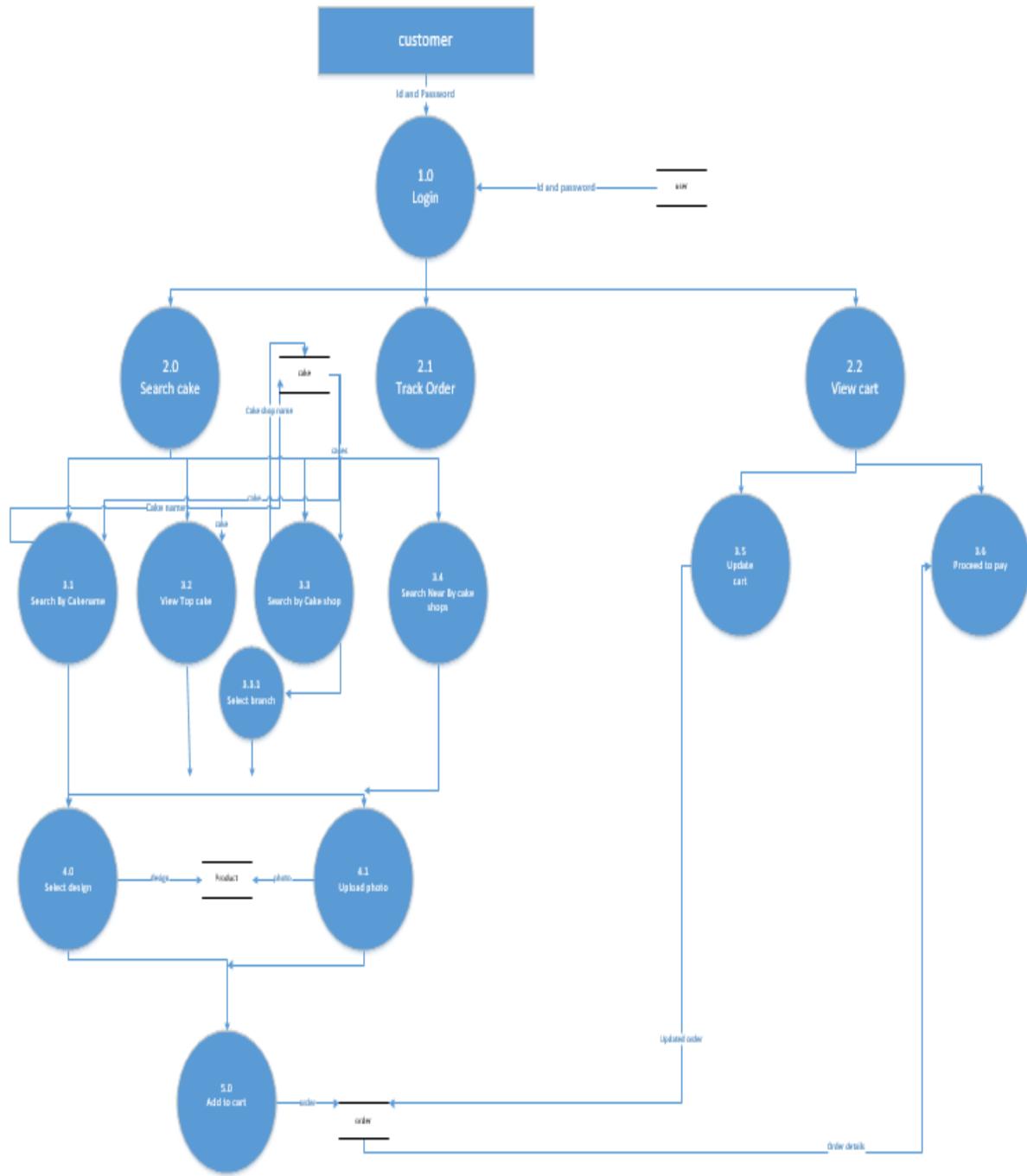


Figure 4.5.3.3 DFD Customer

4.5.4 ER Diagram



Figure 4.5.4.1 ER Diagram

5.0 SYSTEM DESIGN

5.1 DATABASE DESIGN

User:

//a table for maintaining account of customer and admin.

Field Name	Data Type (With Size)	Constraint	Description
User_id	Int(auto_increment)	Primary key,not null	Unique for every user,used as foreign key in other table
Username	Varchar	not null	Unique for every user
Firstname	Varchar	Not null	Name of the user
Lastname	Varchar		Last name of user
Mobile	Number	Not null	Mobile num used for verification
Email	Varchar	Not null	Email id of user
Password	Varchar	Not null	Password for the user
Type	Number	Only entry:1 or 2	1: Admin 2: customer
Status	Number	Only enter:0 or 1	1: not verified 0: disabled 2:varified

Cakeshop

//table for maintaining cake shop account

Field Name	Data Type (With Size)	Constraint	Description
Shop_id	Int(auto_increament)	Primary key,not null	Unique for each cakeshop
Cakeshop_id	Varchar	Not null,primary	Unique for each

		key	cakeshop
Name	Varchar	Not null	Name of cake shop
Status	Boolean	Only enter:0 and 1	1: enabled 0: disabled
Type	Boolean	Only enter:0 and 1	0:main manager 1.branch login
Branch_id	Varchar	Only required if branch login	Foreign key of branch table

Branch

//table for maintaining branch data

Field Name	Data Type (With Size)	Constraint	Description
Branch_id	Varchar	Not null,primary key	Unique id,used as foreign key in other table
Cakeshop_id	Varchar	Not null	Unique,used as foreign key
Address	Varchar	Not null	Address of branch
Status	Boolean	Value:0 or 1	1: enabled 0: disabled

Cake :

//Table containing data of each cake offered by every cake shop.

Field Name	Data Type (With Size)	Constraint	Description
Cake_id	Int(auto_increament)	Not null,primary key	Unique id
Cakeshop_id	Varchar	Not null	Used as foreign key
Cakename	Varchar	Not null	The name of cake

Price	Float	Not null	Price of the cake
Picture	Varchar		Path of picture of cake
Design	Varchar		Flavour of cake
Details	Varchar		Details of cake

Order :

//Table for each order by customer

Field Name	Data Type (With Size)	Constraint	Description
Order_id	Varchar	Not null,primary key	Unique order id
User_id	varchar	Not null	
Cakeshop_id	Varchar	Not null	Unique customer id,used as foreign key
Branch_id	Varchar	Not null	Unique branch_id ,used as forign key
Billing_address	Varchar	Not null	Billing adress of customer
Home delivery	Boolean	Only enter 0 or 1	0:no 1:yes
Shipping_address	Varchar	Only required if home delivery required	Used in case the home delivery is provided
Payment_method	Boolean	Only enter 0 or 1	0:online payment 1:cash on delivery

			or take away
Price	Float	Sum total of product price	Total payable amount
Confirmation_number	Number	Not null	Confirms the order to avoid fraud
Order_datetime	Date & time	Not null	Date & time of order placed
Delivery_datetime	Date & time	Not null	Date & time of delivery of cake
Comments	Varchar		Comment about order
Status	Number		1:Pending 2: Processing 3: Delievered 4: Canceled
Cake_id	int	Not null	Specifies the cake
Inscription	varchar		Specifies the text to be written on cake
Quantity	int	Not null	Quantity of cake
Photo	varchar	Not null	Path of photo if it's a photo cake
candles	Boolean	Not null	0:no candles 1:candles

5.2 INPUT-OUTPUT DESIGN

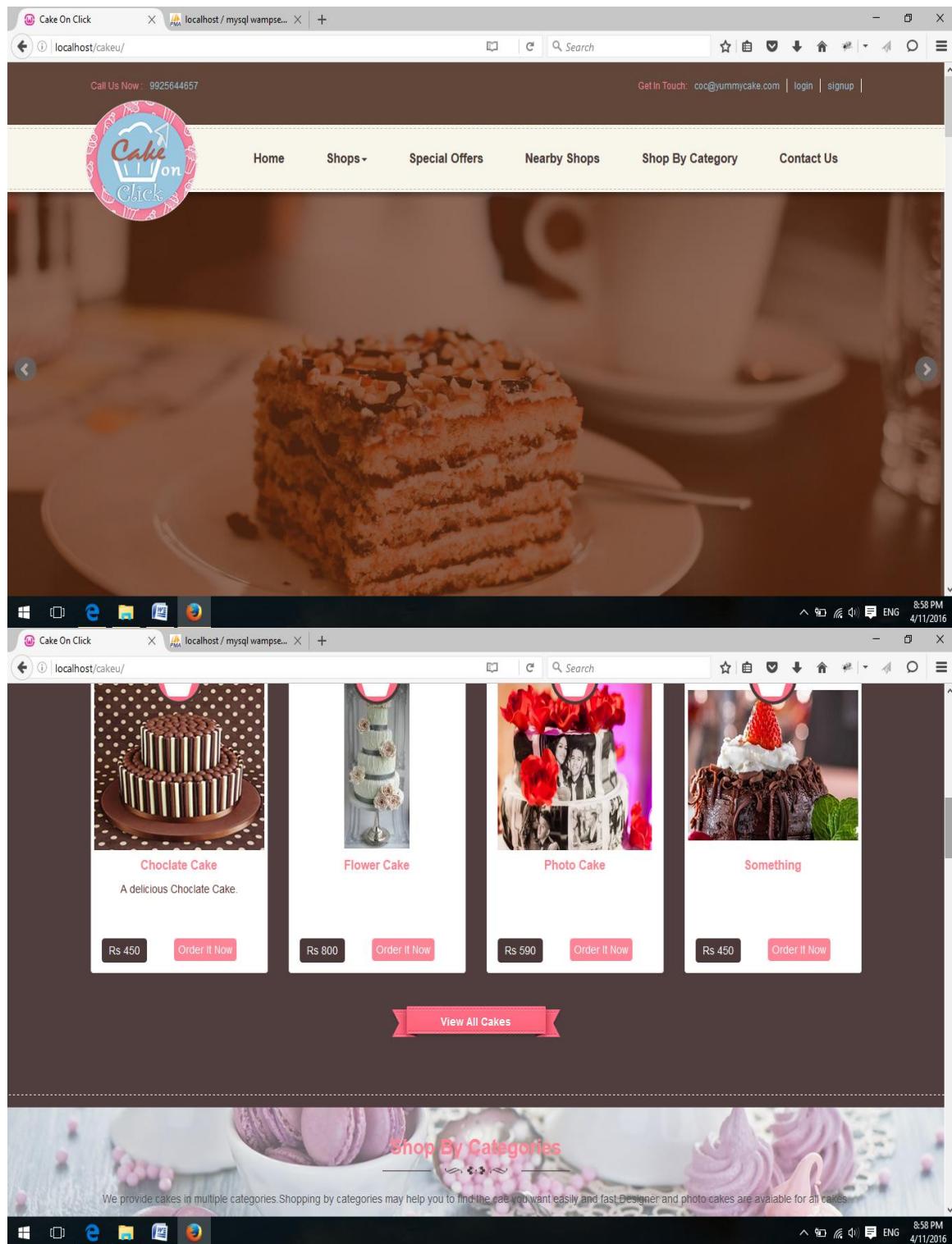


Figure 5.2.1 index.php

The screenshot displays a web browser window showing the 'listing-page.php?shop_id=1' page for the 'Dangee Dums' shop on the 'Cake On Click' website. The page features a header with the GTU PMMS logo, a search bar, and navigation links. Below the header is a breadcrumb trail: Home / shops / Dangee Dums. A navigation menu includes 'Categories' (selected), 'All', and a dropdown for 'Bootstrap Responsive'. The main content area shows three cake categories with images and links: 'Flower Cake' (800), 'Cake' (450), and 'Peacock Cake' (700). Each category card includes an 'Order It Now' button. The footer contains a slogan: 'You Can't Buy HAPPINESS But You Can Buy CAKE & That's Kind Of The Same Thing'.

Figure 5.2.2 listing-page.php

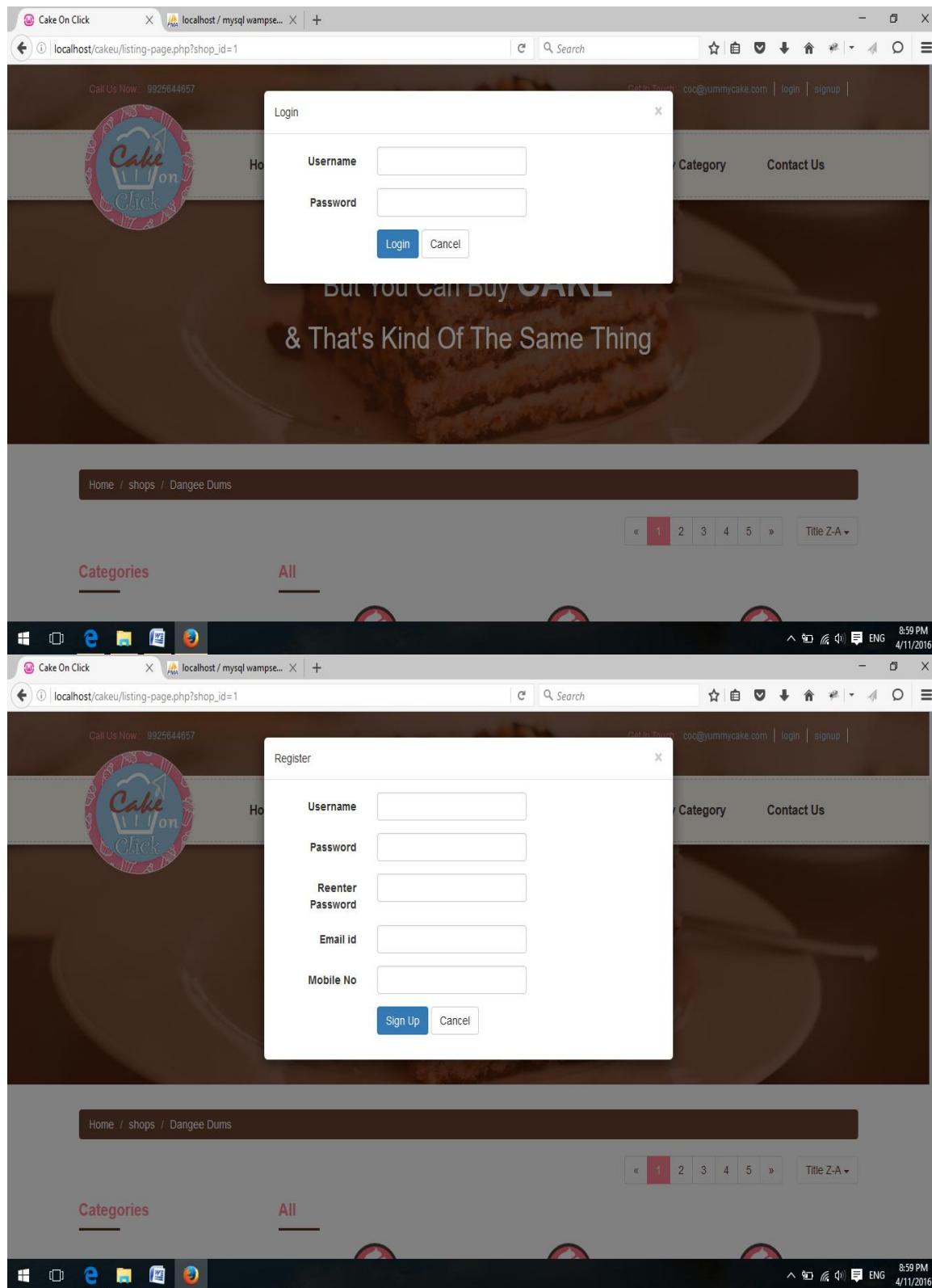


Figure 5.2.3 Login & Sign Up

The image displays two screenshots of a web application interface for 'Cake On Click'.

Screenshot 1: super_admin/index.php

This screenshot shows the main administrative dashboard. The header includes the 'Cake On Click' logo, navigation links for 'Shops', 'Stats', and 'Add A Shop', and a search bar. The main content area is titled 'Shops' and displays four cards, each featuring a cupcake icon and a different shop logo: 'Nestle's Dangdut', 'TGB', 'Yummy', and 'XAROL BAKE'. Below the cards, there is a message: 'The Shops currently affiliated.'

Screenshot 2: super_admin/addshop.php

This screenshot shows the 'Add Shop To The System' form. The form fields are:

- Shop Name *: An input field.
- Cakeshop_id *: An input field.
- Password *: An input field.
- Photo: A file upload field with a 'Browse...' button and the message 'No file selected.'
- ADD SHOP: A submit button.

The background of the entire interface is light green.

Figure 5.2.4 super_admin/index.php & super_admin/addshop.php

The image displays two screenshots of a web application named "Cake On Click".

Top Screenshot (localhost/cakeu/admin/menu.php):

This screenshot shows the "Menu" page. The title is "Menu" and the subtitle is "The cakes Your shop is currently offering.". There are four cake items listed:

- flower cake**: Price Rs 800, Remove button.
- cake**: Price Rs 450, Remove button.
- peacock cake**: Price Rs 700, Remove button.
- moose cake**: Price Rs 450, Remove button.

Bottom Screenshot (localhost/cakeu/admin/addcake.php):

This screenshot shows the "Add Cake To Menu" form. It features a large logo in the background with the text "DANGERZONE" around the top and bottom edges and a cartoon face in the center.

The form fields include:

- Cake Name ***: Input field.
- Price ***: Input field with placeholder "ex: 23".
- Photo**: Input field with "Browse..." button.
- Details**: Input field.

Figure 5.2.5 admin/menu.php & admin/addcake.php

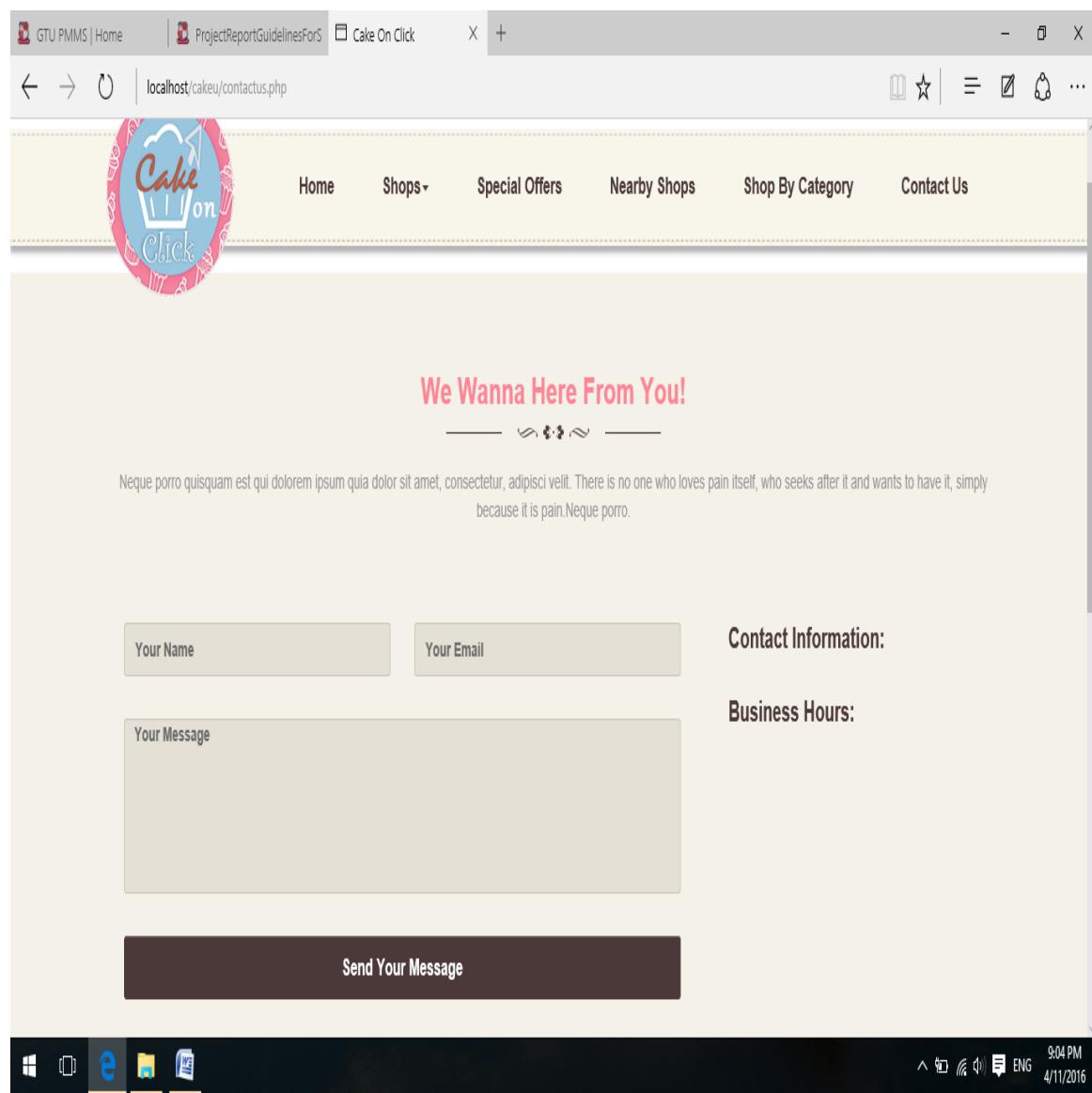
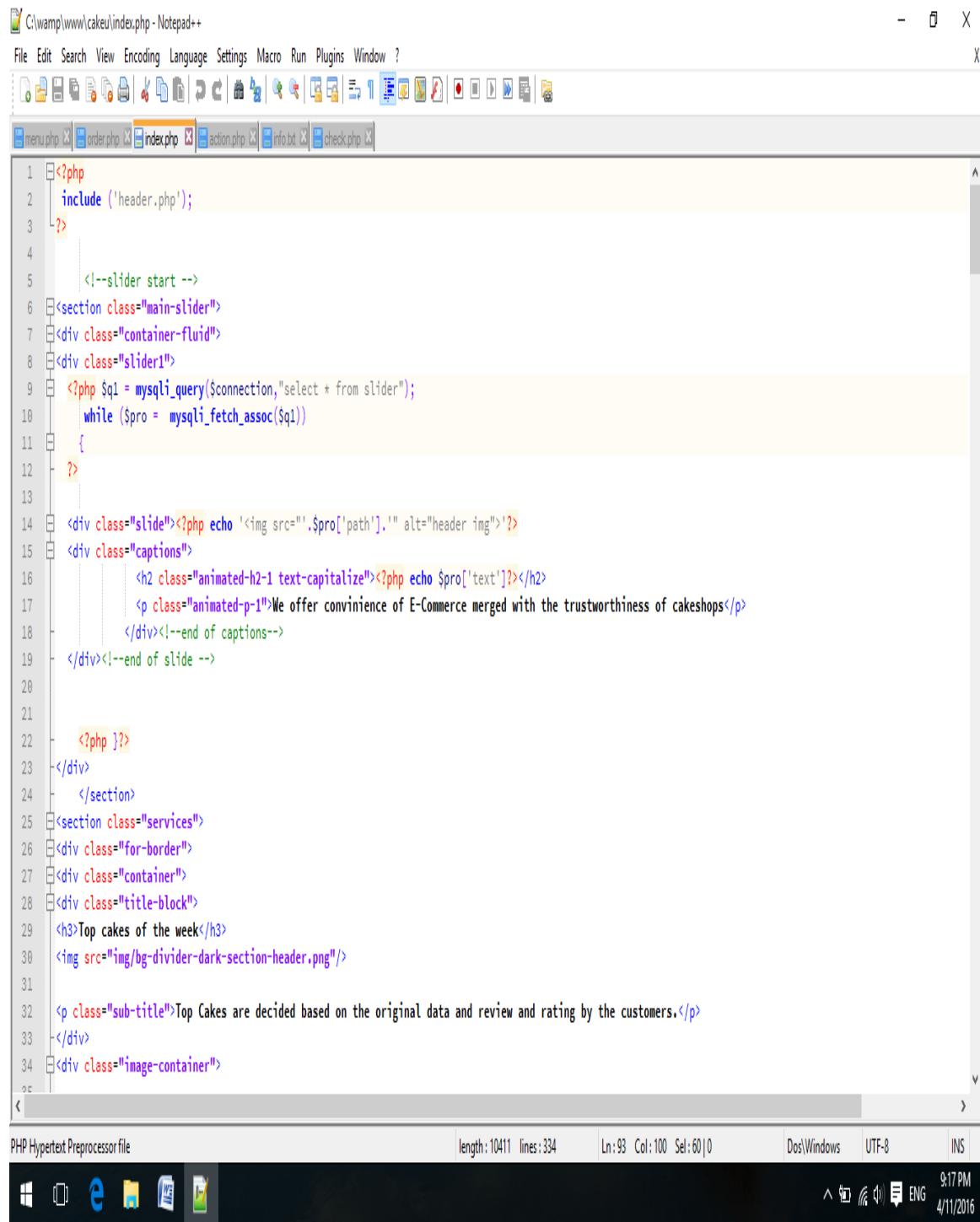


Figure 5.2.6 contactus.php

5.3 CODING STANDARD

Coding done in the core php.



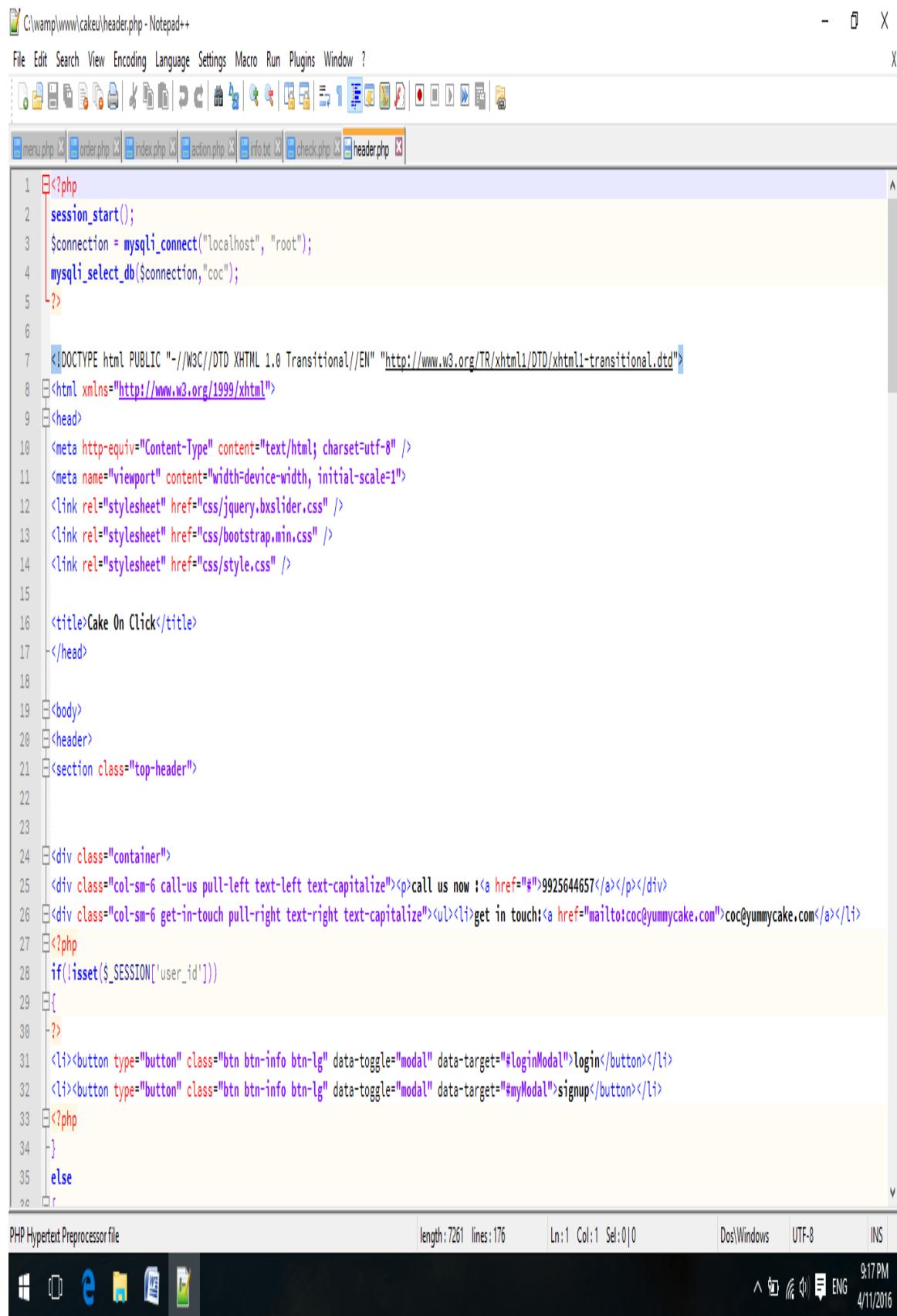
The screenshot shows the Notepad++ application window displaying the contents of the file C:\wamp\www\cakeu\index.php. The code is written in PHP and HTML, structured with various sections like slider, services, and top cakes. It includes database queries to fetch data from a MySQL database named \$connection. The code uses CSS classes for styling elements such as .main-slider, .container-fluid, .slide, .captions, .services, .for-border, .title-block, and .image-container. The Notepad++ interface shows tabs for other files like menu.php, order.php, action.php, info.txt, and check.php. The status bar at the bottom provides information about the file length (10411), lines (334), current line (Ln: 93), column (Col: 100), selection (Sel: 60|0), encoding (UTF-8), and system details (Dos/Windows). The taskbar at the bottom right shows the date and time (4/11/2016, 9:17 PM) and system icons.

```

1 <?php
2     include ('header.php');
3 ?>
4
5     <!--slider start -->
6     <section class="main-slider">
7         <div class="container-fluid">
8             <div class="slider1">
9                 <?php $q1 = mysqli_query($connection,"select * from slider");?
10                while ($pro = mysqli_fetch_assoc($q1))
11                {
12                ?>
13
14                 <div class="slide"><?php echo '
15                 <div class="captions">
16                     <h2 class="animated-h2-1 text-capitalize"><?php echo $pro['text']?></h2>
17                     <p class="animated-p-1">We offer convinience of E-Commerce merged with the trustworthiness of cakesshops</p>
18                 </div><!--end of captions-->
19             </div><!--end of slide -->
20
21
22             <?php }?>
23         </div>
24     </section>
25     <section class="services">
26         <div class="for-border">
27             <div class="container">
28                 <div class="title-block">
29                     <h3>Top cakes of the week</h3>
30                     
31
32                     <p class="sub-title">Top Cakes are decided based on the original data and review and rating by the customers.</p>
33                 </div>
34             <div class="image-container">

```

Figure 5.3.1 index.php(code)



The screenshot shows the Notepad++ application window displaying the code for `header.php`. The file path is `C:\wamp\www\cake\header.php`. The code includes PHP session start, database connection, and HTML/CSS/JavaScript for a header section. It features conditional logic for user login status and links to contact information.

```
1 <?php
2 session_start();
3 $connection = mysqli_connect("localhost", "root");
4 mysqli_select_db($connection, "coc");
5 ?>
6
7 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
8 <html xmlns="http://www.w3.org/1999/xhtml">
9 <head>
10 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
11 <meta name="viewport" content="width=device-width, initial-scale=1" />
12 <link rel="stylesheet" href="css/jquery.bxslider.css" />
13 <link rel="stylesheet" href="css/bootstrap.min.css" />
14 <link rel="stylesheet" href="css/style.css" />
15
16 <title>Cake On Click</title>
17 </head>
18
19 <body>
20 <header>
21 <section class="top-header">
22
23
24 <div class="container">
25 <div class="col-sm-6 call-us pull-left text-left text-capitalize"><p>call us now :<a href="#">9925644657</a></p></div>
26 <div class="col-sm-6 get-in-touch pull-right text-right text-capitalize"><ul><li>get in touch:<a href="mailto:coc@yummycake.com">coc@yummycake.com</a></li>
27 <?php
28 if(!isset($_SESSION['user_id'])) {
29
30 ?>
31 <li><button type="button" class="btn btn-info btn-lg" data-toggle="modal" data-target="#loginModal">login</button></li>
32 <li><button type="button" class="btn btn-info btn-lg" data-toggle="modal" data-target="#myModal">signup</button></li>
33 <?php
34 }
35 else
36 ?>
```

PHP Hypertext Preprocessor file length: 7261 lines: 176 Ln:1 Col:1 Sel:0|0 DosWindows UTF-8 INS

9:17 PM ENG 4/11/2016

Figure 5.3.2 header.php(code)

6.0 TESTING

6.1 TESTING STRATEGY

A strategy for software testing integrates the design of software test cases into a well-planned series of steps that result in successful development of the software. The strategy provides a road map that describes the steps to be taken, when, and how much effort, time, and resources will be required. The strategy used for testing our project is as follows

6.1.1 Unit Testing

6.1.1.1 Module Interface

The entry module for every user of our system is index page for a simple user. The flow from that page to every other page is tested by us. From that page the simple user login, cake shop login and admin login are working fine. The flow from the index page to shops page, product page order form and every other page is tested and is giving proper display without any error. Also the login of cake shop leads to index page for cake shops and from that page flow to every other page is tested and working well. The admin index page and flow from that page is also working well. All the information coming from the database are getting well displayed and the information sent to the database is also getting properly handled and database is getting modified as needed.

6.1.1.2 Local Data Structure

The data displayed on each page is coming from local data base and is working properly. No Steps in the algorithm is damaging integrity of any data.

6.1.1.3 Boundary Conditions

There is a predefined maximum size for the photos that cake shops upload and the photos that users upload, if the photo exceeds that size or does not match with the predefined formats for photo.

6.1.1.4 Independent Paths

All the modules of every page have been tested by using different values. Each module is working fine.

6.1.1.5 Error Handling Paths

In case of error in any path taken the script leads you to the error page or stops the functioning. For example if the image upload fails or adding a cake to the system fails the system will display appropriate error message and stops functioning or display an error page. Also if someone tries to visit a page that he does not have permission for the system restricts him and redirects to the previous page.

6.1.2 Integration Testing

6.1.2.1 Top Down Integration Testing

All the individually tested modules are working fine when integrated with each other without any problem.

6.1.2.2 Regression Testing

After integrating all the modules adding the data and new functions do not lead to any kind of errors.

6.1.3 Validation Testing

All the user requirements are met. Some of the previously mentioned functionalities have not yet been implemented and we are working on it. All functional requirements are met and system performance is up to date.

6.1.4 System Testing

6.1.4.1 Recovery Testing

The system is recoverable from errors. Most of the time errors leads to error pages designed by us from where recovery is very convenient otherwise system can is recoverable just by refreshing the page without lose of any data filled.

6.1.4.2 Security Testing

To simple user can order a cake without logging in but will not be able to access some of the restricted functionalities. The logged in simple users can not access the cake shop's pages and functionalities and no one can access the admin functionalities without admin username and password. Also the system is secure from any kind of fraud and inappropriate access.

6.1.4.3 Stress Testing

The system is tested in extreme conditions where multiple users are logged in carrying out different functionalities. Executing voluminous functions or adding heavy data and the system is working well.

6.1.4.4 Performance Testing

The system performance is not degraded even in worst situation.

6.2 TEST CASE

3.2.1 Login Case

User Name	Password	Result
aakash		Error:password is focused Msg("please fill out this field")
	aakash	Error:username is focused Msg("please fill out this field")
aakash	aakash	super_admin/index.php
birvashah	password	index.php
shop1	shop1	admin/index.php

3.2.2 Signup Case

Username	Password	Reenter Password	Email id	Mobile No	Result
something			something@something.com	9558300026	Error:password is focused Msg("please fill out this field")
	else	else	something@something.com	9558300026	Error:username is focused Msg("please fill out this field")
something	else	else	something@something.com		Error:mobile is focused Msg("please fill out this field")
something	else	else		9558300026	Error:email is focused Msg("please fill out this field")
someting	else	elsel	something@s	9558300026	error:

			omething.co m		password and repassword does not match
somthing	else	else	something@s ome	9558300026	error:pleas e enter valid email id
somethin g	else	else	something@s omething.co m	955956565655	error:pleas e enter valid phone number
somethin g	else	else	something@somethin...com	9558300026	index.php

3.2.3 Order Form

3.2.3.1 Not Logged In And Pickup Selected

Size Of Cake	Name	Email	Phone	Result
2 kg	Aakash	aakash@gmail.com	9558300026	success.php
	Aakash	aakash@gmail.com	9558300026	error
2 kg		aakash@gmail.com	9558300026	success.php
2 kg	Aakash		9558300026	error
2 kg	Aakash	aakash@gmail.com		error
2 kg	Aakash	aakash@gmail.com	955830002646	error
2 kg	Aakash	aakash@	9558300026	error

3.2.3.2 Not Logged In And Home Delivery Selected

Size Of Cake	Name	Email	Phone	Shipping Address	Result
2 kg	Aakash	aakash@gmail.com	9558300026	something something	success.php
	Aakash	aakash@gmail.com	9558300026	something something	error
2 kg		aakash@gmail.com	9558300026	something something	success.php
2 kg	Aakash		9558300026	something something	error
2 kg	Aakash	aakash@gmail.com		something something	error
2 kg	Aakash	aakash@gmail.com	955830002646	something something	error
2 kg	Aakash	aakash@	9558300026	something something	error

3.2.3.3 Logged In And Pickup Selected

Size Of Cake	Result
2kg	success.php
	error

3.2.3.4 Logged In And Home Delivery Selected

Size Of Cake	Shipping Address	Result
2kg	something something	success.php
1 kg		error
	something something	error

6.2.4 Add Cake

Cake Name	Price	Photo	Details	Initial rating	Category	Result
abc	500	abc.jpg	abc abc a	5	Chocolate Cake	admin/success.php
	500	abc.jpg	abc abc a	5	Chocolate Cake	error
abc	500	abc.jpg	abc abc a	5		error
abc	500	abc.jpg	abc abc a		Chocolate Cake	admin/success.php
abc	500		abc abc a	5	Chocolate Cake	admin/success.php
abc	500	abc.jpg		5	Chocolate Cake	admin/success.php
abc		abc.jpg	abc abc a	4	Chocolate Cake	admin/success.php

7.0 LIMITATION AND FUTURE ENHANCEMENT

7.1 LIMITATION

The limitation of the web site is that customer needs to have internet connection to access it. The website may not be able to handle heavy loads and won't work appropriately if the connection is too slow. Our system may not allow ordering cake of more than 4 kg because of security reasons.

7.2 FUTURE ENHANCEMENT

The development of the android application can be considered as the future enhancement and also application for windows and ios can be developed.

8.0 CONCLUSION AND DISCUSSION

8.1 SELF ANALYSIS OF PROJECT VIABILITIES

According to us cake ordering process of today is quite tedious and annoying which is not acceptable. It is a big market and has great scope of growth. Systems like ours can easily attract the customers as it provides great convenience to them . Also the local cake shops can use this platform to expand their business and reach wide range of customers. So it is a win-win situation for everybody hence the system has great potential.

8.2 PROBLEM ENCOUNTERED AND POSSIBLE SOLUTIONS

The system aims at solving various customer problems

- The problem of visiting the cake shop multiple time, traffic and weather problems are solved by providing online ordering service.
- The problem of payment is solved by providing payment gateway.
- The problem of fraud solved by the security features like pre-validation and unique order number generation.

8.3 SUMMARY OF PROJECT WORK

In the first phase we studied about the feasibility of the project and checked whether the project will help to improve the current scenario or not.

After deciding to go through with the project, the second phase was the analysis phase where we studied the requirements of the market. We visited several cake shops and asked about their working pattern and learned about how to manage their business. We also analyzed some of the problems that customers face during the ordering of bakery products and made of list of requirements our project needs to fulfill.

Now as all the requirements were gathered the coding process started with the front end designing and back-end coding being done simultaneously.

The initial database design was prepared. The initially designed pages were redesigned for better luck. The redesigning was carried out multiple times. The database was also modified as per requirement and as new requirements emerged. The back-end coding is going on was modified several times.

The project tries to merge the convenience of e-commerce with trustworthiness of local cake shops by offering the products of multiple cake shops online and allowing to order them online.

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- [20] <http://www.php.net>
- [21] <http://www.tizag.com/phpT>
- [22] www.phptherightway.com

Appendix 1: Periodic Progress Report

Enrollment No :	120320107020	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Shah Aakash Deveshbhai	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : -

Periodic Progress Report : First PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

redesigned the pages and made alteration to some tables of database.

2. What challenge you have faced ?

redesigning the pages and giving appropriate look to the pages

3. What support you need ?

technical support regarding how to integrate payment gateway and how to generate bill.

4. Which literature you have referred ?

several sites like stackoverflow.com , php.net

Document : [No document uploaded](#)

t

Enrollment No :	120320107020	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Shah Aakash Deveshbhai	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : 1 days, 5 hours, 21 minutes, 16 seconds

Periodic Progress Report : Second PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

Designing complete of few pages which were decided to be redesigned, improved the coding for better performance and made it concise.

2. What challenge you have faced ?

Managing the order of products and managing blob fields.

3. What support you need ?

Technical guidance to handle the blob field and integrating payment gateway.

4. Which literature you have referred ?

www.jotforms.com, www.php.net, www.w3schools.com

Document : [No document uploaded](#)

Enrollment No :	120320107020	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Shah Aakash Deveshbhai	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : 0 days, 17 hours, 47 minutes, 15 seconds

Periodic Progress Report : Third PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

front end redesigned, back-end coding done for most of the pages and previously done code improved

2. What challenge you have faced ?

improving the code and handling blob data type.

3. What support you need ?

technical support for implementing dynamic location detection using google maps and finding near by shops.

4. Which literature you have referred ?

www.stackoverflow.com , www.w3schools.com ,www.php.net

Document : [Download](#)

Enrollment No :	120320107020	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Shah Aakash Deveshbhai	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : 1 days, 8 hours, 5 minutes, 32 seconds

Periodic Progress Report : Forth PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

admin panel work almost done, super admin pages almost done, changed login style.

2. What challenge you have faced ?

how the super admin part be accessed

3. What support you need ?

technical support regarding order management, payment and sms gateway integration

4. Which literature you have referred ?

www.w3schools.com , www.php.net,www.stackoverflow.com

Document : [Download](#)

Enrollment No :	120320107025	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Shah Utsavi Birenhai	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : -

Periodic Progress Report : First PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

I redesigned all the pages of our project.

2. What challenge you have faced ?

Transition effect using css was a bit tricky.

3. What support you need ?

How to integrate sms gateway in our project.

4. Which literature you have referred ?

I have referred W3schools .

Document : [Download](#)

Enrollment No :	120320107025	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Shah Utsavi Birenhai	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : 0 days, 0 hours, 20 minutes, 16 seconds

Periodic Progress Report : Second PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

Added some transition effects using css to make page look nice without affecting page load speed much.

2. What challenge you have faced ?

Transition effects using css & css3 was a bit tricky concept.. how to use proper transition was a challenge.

3. What support you need ?

Payment Gateway integration .

4. Which literature you have referred ?

I referred w3schools css3 tutorials.

Document : [No document uploaded](#)

Enrollment No :	120320107025	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Shah Utsavi Birenhai	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : 0 days, 0 hours, 3 minutes, 22 seconds

Periodic Progress Report : Third PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

Added some scrolling effect & animation effects of sliders using jquery.

2. What challenge you have faced ?

Learning Jquery itself was a challenge that i have faced.

3. What support you need ?

Some guidelines about advance concepts of jquery .

4. Which literature you have referred ?

i have referred w3schools for jquery tutorials, jquery UI .

Document : No document uploaded

Enrollment No :	120320107025	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Shah Utsavi Birenhai	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : 0 days, 0 hours, 5 minutes, 26 seconds

Periodic Progress Report : Forth PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

finalized the design after making improvements in previous designs & added form validations.

2. What challenge you have faced ?

Form validations using javascript in modal of bootstrap for login & signup was a challenge .

3. What support you need ?

Support related few queries like How to send an email wen user clicks on forgot password.

4. Which literature you have referred ?

i have referred tutorials point for Javascript concepts.

Document : [No document uploaded](#)

Enrollment No :	120320107058	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Soni Riddhibaben Harendrakumar	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : -

Periodic Progress Report : First PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

Redesign the pages and made alteration to some tables of database.

2. What challenge you have faced ?

redesigning the pages and giving appropriate look to the pages.

3. What support you need ?

Technical support regarding how to integrate payment gateway and how to generate bill.

4. Which literature you have referred ?

several sites like stackoverflow.com , php.net

Document : [Download](#)

Enrollment No :	120320107058	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Soni Riddhibaben Harendrakumar	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : 0 days, 0 hours, 10 minutes, 59 seconds

Periodic Progress Report : Second PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

Designing complete of few pages which were decided to be redesigned, improved the coding for better performance and made it concise.

2. What challenge you have faced ?

Managing the order of product and managing blob fields.

3. What support you need ?

Technical guidance to handle the blob field and integrating payment gateway.

4. Which literature you have referred ?

www.jotforms.com, www.php.net ,www.w3schools.com

Document : [Download](#)

Enrollment No :	120320107058	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Soni Riddhibaben Harendrakumar	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : 0 days, 0 hours, 8 minutes, 39 seconds

Periodic Progress Report : Third PPR

Project : Cake On Click

Status : Reviewed (Freeze)

1. What Progress you have made in the Project ?

Front-end redesigned, back-end coding done for most of the pages and previously done code improved.

2. What challenge you have faced ?

Improving the code and handling blob data type.

3. What support you need ?

Technical support for implementing dynamic location detection using google maps and finding near by shops.

4. Which literature you have referred ?

www.stackoverflow.com , www.w3school.com , www.php.net

Document : [Download](#)

Enrollment No :	120320107058	College :	L. J. Institute Of Engineering And Technology, Ahmedabad
Student Name :	Soni Riddhiben Harendrakumar	Department :	Computer Engineering
Mobile No :		Discipline :	BE
Email :		Semester :	Semester 8

PPR Details

Time Interval : 1 days, 0 hours, 10 minutes, 52 seconds

Periodic Progress Report : Forth PPR

Project : Cake On Click

Status : Submitted (Freeze)

1. What Progress you have made in the Project ?

The system design finalised, the back end code modified and validations applied

2. What challenge you have faced ?

integrating modules, working with blob data types

3. What support you need ?

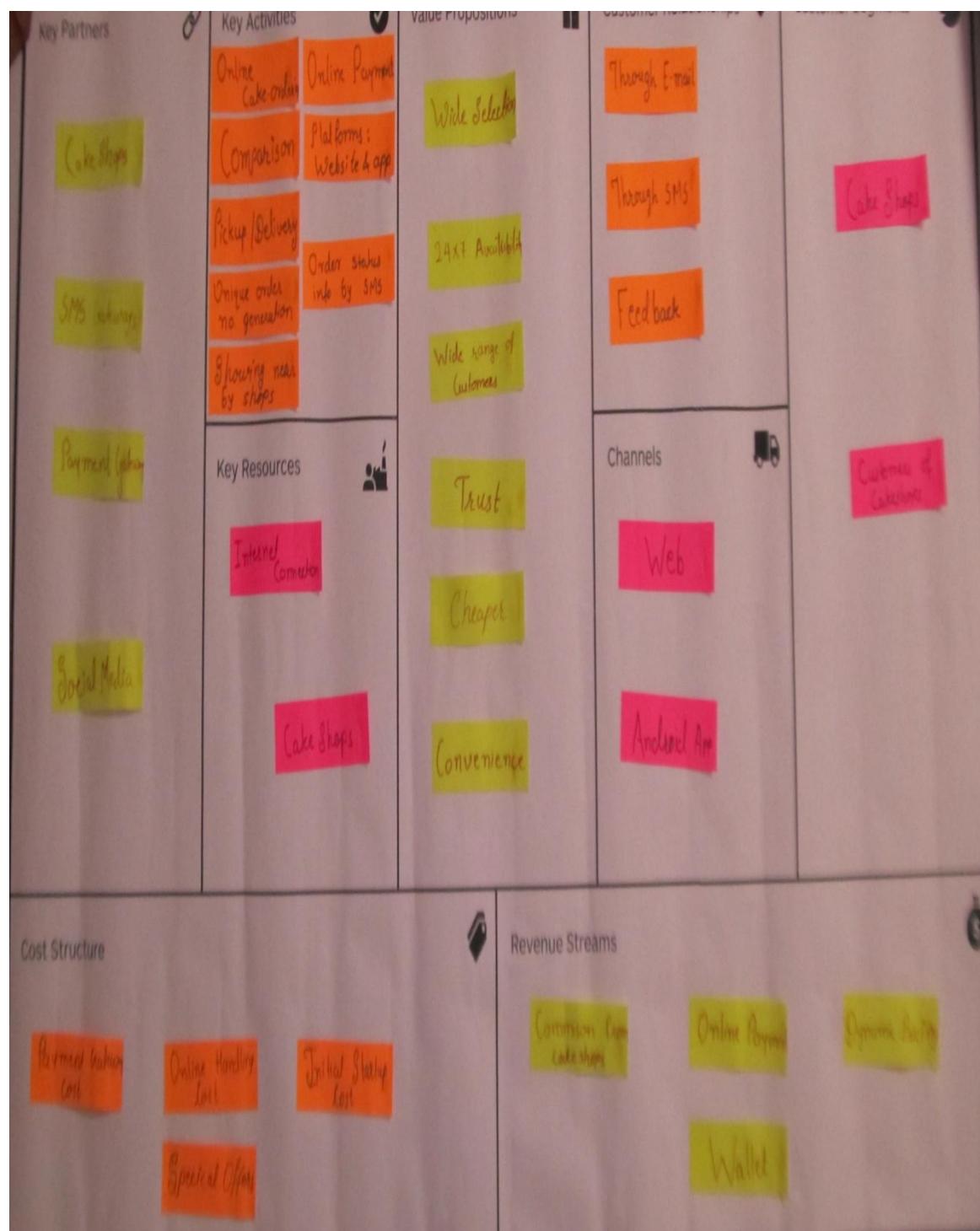
technical help in integrating payment gateway and sms gateway

4. Which literature you have referred ?

www.stackoverflow.com, www.php.net, www.w3schools.com, www.jotforms.com

Document : [Download](#)

Appendix 2: BMC Canvas



Appendix 3: BMC Report

1.0 INTRODUCTION

Cake On Click is a web based application for which an android application will also be developed. The aim of the application is to make the cake ordering process online which will make it more easy and convenient for the customers.

There will be three types of user in the system. First is administrator who will be responsible for creation of the customer and cake shop's accounts and verifying both the user and cake shops authenticity. The second type of account is of cake shops ,who will register them selves to the administrator to have their shop listed on the website and sale the cakes online. The cake shops can modify their database without any interference from administrator so cake shops can change their price lists, cake names, photos etc. The third type of user is the customer who will order the cake online. The customer may or may not have an account.

The cake ordering process will be as follows. First the Customer will visit the site or application. He will browse through cakes offered by many cake shops, check their prices, he will also be able to find the nearby cake shops just by clicking on a simple gui option. After browsing through the cakes the customer selects a cake or decides to order a personalised cake (photo cake, designer cakes),the user will also be able to design his own cake. Then he proceeds to the next step where he will give other details like his name, phone number, email address these fields are necessary fields but if the user has logged in through an account he will not have to fill such details, then he will have to provide expected delivery date and time, then he will be able to pay in advance or choose to pay on the cake shop after which the order will be submitted if the customer has logged in through he is account the ordering process is over and the cake shop will send a confirmation email and text to the customer with the time when cake will be ready, bill amount and order number. If the user has not logged in through a valid account after submitting the order he will have to wait for a order number sent to his mobile number through text message, the ordering will only be completed only after attaching the order number with the order details. The order number is important the customer will have to show the order number at the time of picking up the cake.

The cake shop will be able to generate an excel sheet directly from the online database just by clicking on a button.

We are developing a website for online cake ordering and also are planning to develop an android application for it. Our website will offer cake from different local cake shops associated with us. The customer will be able to browse through the cakes, compare the prices of the cakes and select the best cake according to his choice , he will be able to order the cake online with specified delivery date and time. The website will provide payment gateway for advance payment but customer will also be able to opt for paying the amount at the time of delivery. Home delivery service depends on particular cake-shop. The system will contain some offers. Also the customer can order designer and personalised cake.

2.0 CANVAS ELEMENTS:

2.1WHAT:

2.1.1Value Proposition:

- Wide Selection: The Customers get the option to select a cake from wide range of cake from multiple cake shops available on our web portal.
- 24*7 Availability: As it is an online portal it will be available to customers all the time. So the ordering process can be carried out at any time even though the cake shops are closed at that time providing great flexibility.
- Wide Range Of Customers: Not only the customers but the cake shops are also our user and they get benefited from our portal. The cake shops can reach a wide range of customers through our portal.
- Trust: The greatest issue with e-commerce is that people don't trust the manufacturer or seller selling the product online, but as our system offers the products from the local shops it becomes easy for the customer to trust the product being sold online. Also the cake shops can trust the customers as they are pre-verified or they will be paying in advance.

- Cheaper: As we are providing many offers and man competitive shops will be selling cakes online , the customer will be able to choose the best cake at cheapest price by comparing.
- Convenience: It is convenient to the customers as they will be able to browse through cakes from multiple cake shops and place order online avoiding the need to visit the shop saving time and effort. This arrangement is also convenient to cake shops.

2.2 WHO:

2.2 WHO:

2.2.1 Customer Segments:

- Cake Shops: The local shops of the city are our customers. Their products will be offered online on our portal which will help them to reach out to wide range of customers and expand their business.
- Customers Of Cake Shop: The customers of cake shop that are the people who wants to buy a cake will visit our web portal in order to check out wide range of cakes from multiple shops and place order online.

2.2.2 Customer Relationship:

- Through Email: The communication to customers is maintained through email. The customer can mail us to give feedback or raise any concerns. The customers are given information related to their orders through mail.
- Through Sms : The customers also get information related to their order through sms.
- Feedback: The customers can send us a mail to give feedback for our system or to report complaint against some cake shops or regarding any issue. Also they can give ratings to the cake shops as their feedback.

2.2.3 Channels:

- Web: Primarily the portal will be available through a website. Users of the system visits the website through any web browser to use our services.
- Android App: Android app for the system will also be created giving some extra benefits related to apps.

2.3 HOW:

2.3.1 Key Partners:

- Cake Shops: The local cake shops of the city are our most important partner. The system is useless without them as the products of the cake shops are offered online.
- Sms Gateways: In order to give customers information related to their orders sms gateways are necessary.
- Payment Gateways: Payment gateways are necessary for advance payment.

2.3.2 Key Activities:

- Online Cake Ordering: The most important activity is to allow the customers to order the cake online. All the acitivities can be considered as the child of this activity.
- Comparison: Providing comparison between cakes offered from different cake shops so as to help the customer to select the best cake.
- Pickup/Delivery: Allow the customer to choose whether he wants the cake to be delivered at his home or is he going to pick up the cake from the shop. (availability of home delivery is subject to each cake shop)
- Unique Order Number Generation: A unique order number is generated for each customer order and it is used as an security option for both customer and cake shop.
- Showing Nearby Shops: It is a unique feature which tracks the location of the customer on the google map and gives a list of shops that are nearest to the customer's current location.
- Online Payment: The customer can pay online as the advance payment to the order.
- Platform: Website & Android App : Website and android app are the platforms on which our service will be made available.
- Order Status Info By Sms : The customer gets the information related to his order on the phone through sms.

2.3.3 Key Resources:

- Internet Connection: Internet connection is necessary to use the system.
- Cake Shops: Cake shops provide us our key resource that is the cakes.

2.4 HOW MUCH:

2.4.1 Revenue Streams:

- Commission From Cake Shops: The only source of income for us is the commission from the cake shops for each order they receive from customers through our system .
- Wallet: A third party wallet system will be included. Which will also be used for giving special offers to customers.
- Dynamic Pricing: The prices of the cakes can be dynamically changed by cake shops at any time.
- Online Payment: The customers can pay online through payment gateway.

2.4.2 Cost Structure:

- Payment Gateway Cost: Inclusion of payment gateway requires expenditure.
- Online Handling Cost: Making the portal online generates costs that are to be paid by us.
- Special Offers: We are offering some special offers which will require us to cut down on our profits which is a kind of expenditure on our side.
- Initial Startup Cost: Initially we are not charging anything to the cake shops to offer their products on our portal so the startup cost is to handled by us.

3.0 CONCLUSIONS:

To conclude we can say that our business model proves that our system is highly commercializable and it is quite feasible to implement. Our business model identifies the risk factors involved but the risk factors are minimum and they can be easily take care of. So we are able to provide a system that we are promising it will surely generate profit.

Appendix 4: PDE Form

GTU Innovation Council

Patent Drafting Exercise (PDE)

FORM 1 THE PATENTS ACT 1970 (38 OF 1970) & THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT	(FOR OFFICE USE ONLY) Application No: Filing Date: Amount of Fee paid: CBR No: _____
---	---

1. Applicant(s) :

ID	Name	Nationality	Address	Mobile No.	Email
1	Shah Aakash Deveshbhai	Indian	Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.	9558300026	aakash.shah94@gmail.com
2	Soni Riddhbaben Harendrakumar	Indian	Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.	9426663803	soniriddhi44@yahoo.com
3	Shah Utsavi Birenbai	Indian	Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.	9925644657	utsavishah3595@gmail.com

2. Inventor(s):

ID	Name	Nationality	Address	Mobile No.	Email
1	Shah Aakash Deveshbhai	Indian	Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.	9558300026	aakash.shah94@gmail.com
2	Soni Riddhbaben Harendrakumar	Indian	Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.	9426663803	soniriddhi44@yahoo.com
3	Shah Utsavi Birenbai	Indian	Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.	9925644657	utsavishah3595@gmail.com

3. Title of Invention/Project:

Note : This is just a mock Patent Drafting Exercise (PDE) for semester 8, BE students of GTU. These documents are not to be submitted with any patent office.

Page 1

Cake On Click

4. Address for correspondence of applicant/authorized patent agent in India

Name: Shah Aakash Deveshbhai
Address: Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad . Gujarat Technological University.
Mobile: 9558300026
Email ID: aakash.shah94@gmail.com

5. Priority particulars of the application(s) filed in convention country

Country	Application No.	Filing Date	Name of the Applicant	Title of the Invention
N/A	N/A	N/A	N/A	N/A

6. Particulars for filing patent co-operation treaty (pat) national phase Application

International application number	International filing date as allotted by the receiving office
N/A	N/A

7. Particulars for filing divisional application

Original(First) Application Number	Date of filing of Original (first) application
N/A	N/A

8. Particulars for filing patent of addition

Original(First) Application Number	Date of filing of Original (first) application
N/A	N/A

B. DECLARATION &:**(I) Declaration by the Inventor(s)**

I/We, the above named Inventor(s) is/are true & first Inventor(s) for this invention and declare that the applicant(s), herein is/are my/our assignee or legal representative.

Date : 12 - April - 2016

Name _____ Signature & Date _____

1 Shah Aakash Deveshbhai _____

2 Soni Riddhiben Harendrakumar _____

3 Shah Utsavi Birenbhai _____

(II) Declaration by the applicant(s) in the convention country

I/We, the applicant (s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative applicant(s).

(III) Declaration by the applicant(s)

Note : This is just a mock Patent Drafting Exercise (PDE) for semester 8, BE students of GTU. These documents are not to be submitted with any patent office.

Page 1

I/We, the applicant(s) hereby declare(s) that:-

- I am/We in possession of the above mentioned invention.
- The provisional/complete specification relating to the invention is filed with this application.
- The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
- There is no lawful ground of objection to the grant of the patent to me/us.
- I am/we are the assignee or the legal representative of true & first inventors.
- The application or each of the application/particulars of each are given in the para 5 was the first application in the convention country/countries in respect of my/our invention.
- I/we claim the priority from the above mentioned application(s) filed in the convention country/countries & state that no application for protection in respect of invention had been made in a convention country before that date by me/us or by any person.
- My/Our application in India is based on International application under Patent Cooperation Treaty (PCT) as mentioned in para 6.
- The application is divided out of my/our application(s) particulars of which are given in para 7 and pray that this application may be treated as deemed to have been filed on _____ under section 16 of the Act.
- The said invention is an improvement in or modification of the invention particulars of which are given in para 8.

10. Following are the attachments with the application:

- (a) Provisional specification/Complete specification
- (b) Complete specification(in confirmation with the international application) / as amended before the International Preliminary Examination Authority (IPEA) as applicable(2 copies), No. of pages..... No. of claims.....
- (c) Drawings (in confirmation with the international application) as amended before the International Preliminary Examination Authority(IPEA) as applicable(2 copies), No. of sheets.....
- (d) Priority documents
- (e) Translations of priority documents/specification/international search reports
- (f) Statement and undertaking on Form 3
- (g) Power of Authority
- (h) Declaration of inventorship on Form 5
- (i) Sequence listing in electronic Form
- (j) Fees Rs.XXX in Cash /Cheque/Bank Draft bearing No.XXX Date: XXX on XXX Bank.

I/We hereby declare that to the best of my/our knowledge, information and belief the facts and matters stated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 12 day of April , 2016

Name

Signature & Date

- | | | |
|---|--------------------------------|-------|
| 1 | Shah Aakash Deveshbhai | _____ |
| 2 | Soni Riddhibaben Harendrakumar | _____ |
| 3 | Shah Utsavi Birenbhai | _____ |



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Page 4

GIC Patent Drafting Exercise

Team ID: 46306

FORM 2
THE PATENTS ACT, 1970
(38 OF 1970)
&
THE PATENTS RULES, 2003
PROVISIONAL SPECIFICATION

1. Title of the project/invention :
 Cake On Click

2. Applicant(s) :

Shah Aakash Devechbhai (Indian)
 Address : Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat
 Technological University.

Boni Riddhiben Harendrakumar (Indian)
 Address : Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat
 Technological University.

Shah Utkarsh Birenbhai (Indian)
 Address : Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat
 Technological University.

3. Preamble to the description :
 The following specification describes the invention.

4. Description :

a. Field of Application / Project / Invention :
 E-commerce for bakery products

b. Prior Art / Background of the Invention / References :
 Conventional system of bakery product ordering which requires the person to visit the shop for ordering and collecting product.

c. Summary of the Invention/Project:

In the first phase we studied about the feasibility of the project and checked whether the project will help to improve the current scenario or not.
 After deciding to go through with the project, the second phase was the analysis phase where we studied the requirements of the market. We visited several cake shops and asked about their working pattern and learned about how to manage their business. We also analysed some of the problems that customers face during the ordering of bakery products and made a list of requirements our project needs to fulfill.
 Now as all the requirements were gathered the coding process started with the front end designing and back-end coding being done simultaneously. The initial database design was prepared. The initially designed pages were redesigned for better luck. The redesigning was carried out multiple times. The database was also modified as per requirement and as new requirements emerged. The back-end coding is going on was modified several times.
 The project tries to merge the convenience of e-commerce with trustworthiness of local cake shops by offering the products of multiple cake shops online and allowing to order them online.

d. Objects of the Invention/Project :
 The purpose of the project is to make the ordering process easy, fast and convenient for the customers and help the cake-shops to reach a wide range of customers and expand their business. The system will be available 24*7 so it takes away the time constraint that cake shops have to order a cake. The customer will be able to find the best cake for him by comparing prices and cakes from different cake shops.

e. Drawing(s) :
 46306_1_Screenshot (11)

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Page 1

45306_2_Screenshot (21)
 45306_3_Screenshot (39)
 45306_4_Screenshot (77)
 45306_5_Screenshot (40)

f. Description of the Invention :

We are developing a website for online cake ordering and also are planning to develop an android application for it. Our website will offer cakes from different local cake shops associated with us. The customer will be able to browse through the cakes, compare the prices of the cakes and select the best cake according to his choice , he will be able to order the cake online with specified delivery date and time. The website will provide payment gateway for advance payment but customer will also be able to opt for paying the amount at the time of delivery. Home delivery service depends on particular cake-shop. The system will contain some offers. Also the customer can order designer and personalised cake.

- The system is useful to every customer who wants to order a cake.
- They can use this website to search the cakes.
- The system is also useful to all the cake shops who want to expand their business.
- They can use the system to reach wide range of customers.
- The system is an e-commerce system targeting a large segment of market.

The project will be developed using the conventional procedural approach and using PHP as the programming language for website development. The system needs to handle large amount of data from multiple shops and user data. Data hiding and method binding is not required so procedural approach is best. The reason for choosing PHP is that it supports databases and we are familiar with the language as we have done a project in past using this language. Also procedural approach will help us to understand the flow of the system well.

User can register then login to our website for purchasing cakes and also can update their data. The user can browse through the different cakes offered by the cake shops and select the best cake according to him. The user can select the design for he cake, upload his own design or upload a photo for the photo cake. The cake shops are also the user of our system. The cake shop can register themselves with us, have their cakes offered online and receive orders. They can log in into the system and check their orders, approve/disapprove the orders, generates an excel sheet of their orders, change the prices for the cakes, add/remove the cakes for their shop. The administrator will verify both customers and cake shop.

g. Examples :

- 1> Grofers
- 2>Cakehunt

h. Unique Features of the Project :

- 1>Option to search the nearby shops based on your current location.
- 2>Unique offer system.
- 3>Option to upload your own design for a designer cake.
- 4>Option to upload the photo for a photo cake.
- 5>Unique order confirmation number sent to mobile for security reasons.
- 6>Facility to check order status.
- 7A message is sent when the order is ready.

5. Date & Signature :

Date :12 - April - 2016

Sign and Date
 Shah Aakash Deveshbhai

Sign and Date
 Soni Riddhiben
 Harendrakumar

Sign and Date
 Shah Utsavi Birenbhai

6. Abstract of the project / invention :

Note : This is just a mock Patent Drafting Exercise (PDE) for semester 8, BE students of GTU. These documents are not to be submitted with any patent office.

Page 2

Cake On Click is a web based application for which an android application will also be developed. The aim of the application is to make the cake ordering process online which will make it more easy and convenient for the customers.

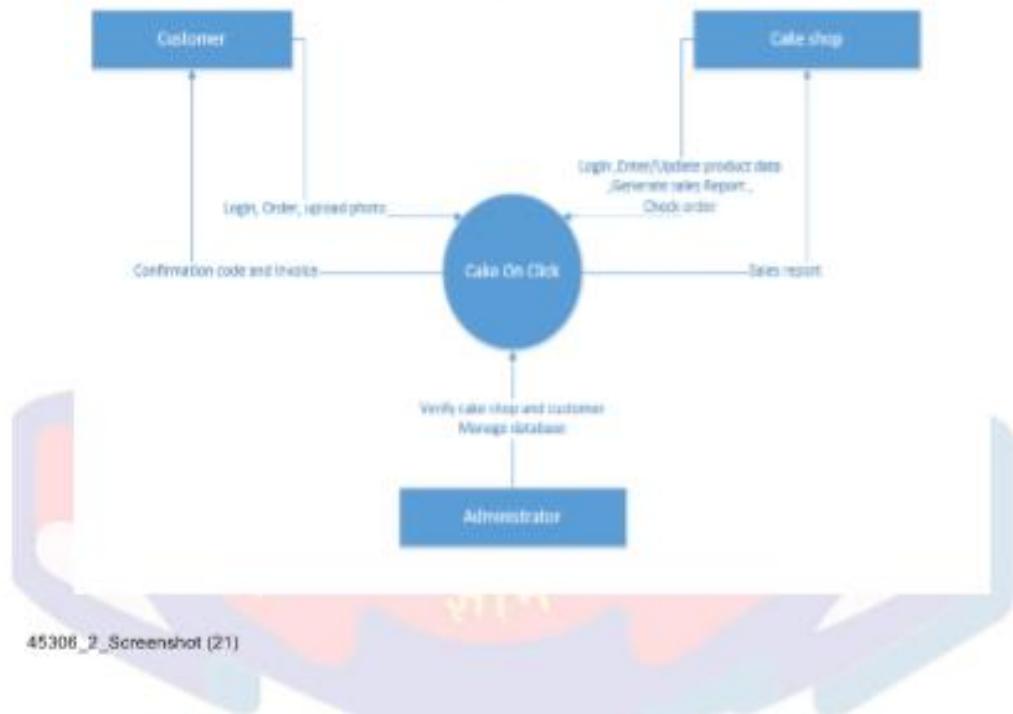
There will be three types of user in the system. First is administrator who will be responsible for creation of the customer and cake shop's accounts and verifying both the user and cake shops authenticity. The second type of account is of cake shops, who will register themselves to the administrator to have their shop listed on the website and sell the cakes online. The cake shops can modify their database without any interference from administrator so cake shops can change their price lists, cake names, photos etc. The third type of user is the customer who will order the cake online. The customer may or may not have an account.

The cake ordering process will be as follows. First the Customer will visit the site or application. He will browse through cakes offered by many cake shops, check their prices, he will also be able to find the nearby cake shops just by clicking on a simple GUI option. After browsing through the cakes the customer selects a cake or decides to order a personalised cake (photo cake, designer cakes). The user will also be able to design his own cake. Then he proceeds to the next step where he will give other details like his name, phone number, email address these fields are necessary fields but if the user has logged in through an account he will not have to fill such details, then he will have to provide expected delivery date and time, then he will be able to pay in advance or choose to pay on the cake shop after which the order will be submitted if the customer has logged in through his account the ordering process is over and the cake shop will send a confirmation email and text to the customer with the time when cake will be ready, bill amount and order number. If the user has not logged in through a valid account after submitting the order he will have to wait for a order number sent to his mobile number through text message, the ordering will only be completed only after attaching the order number with the order details. The order number is important the customer will have to show the order number at the time of picking up the cake.

The cake shop will be able to generate an excel sheet directly from the online database just by clicking on a button.

Drawing Attachments :

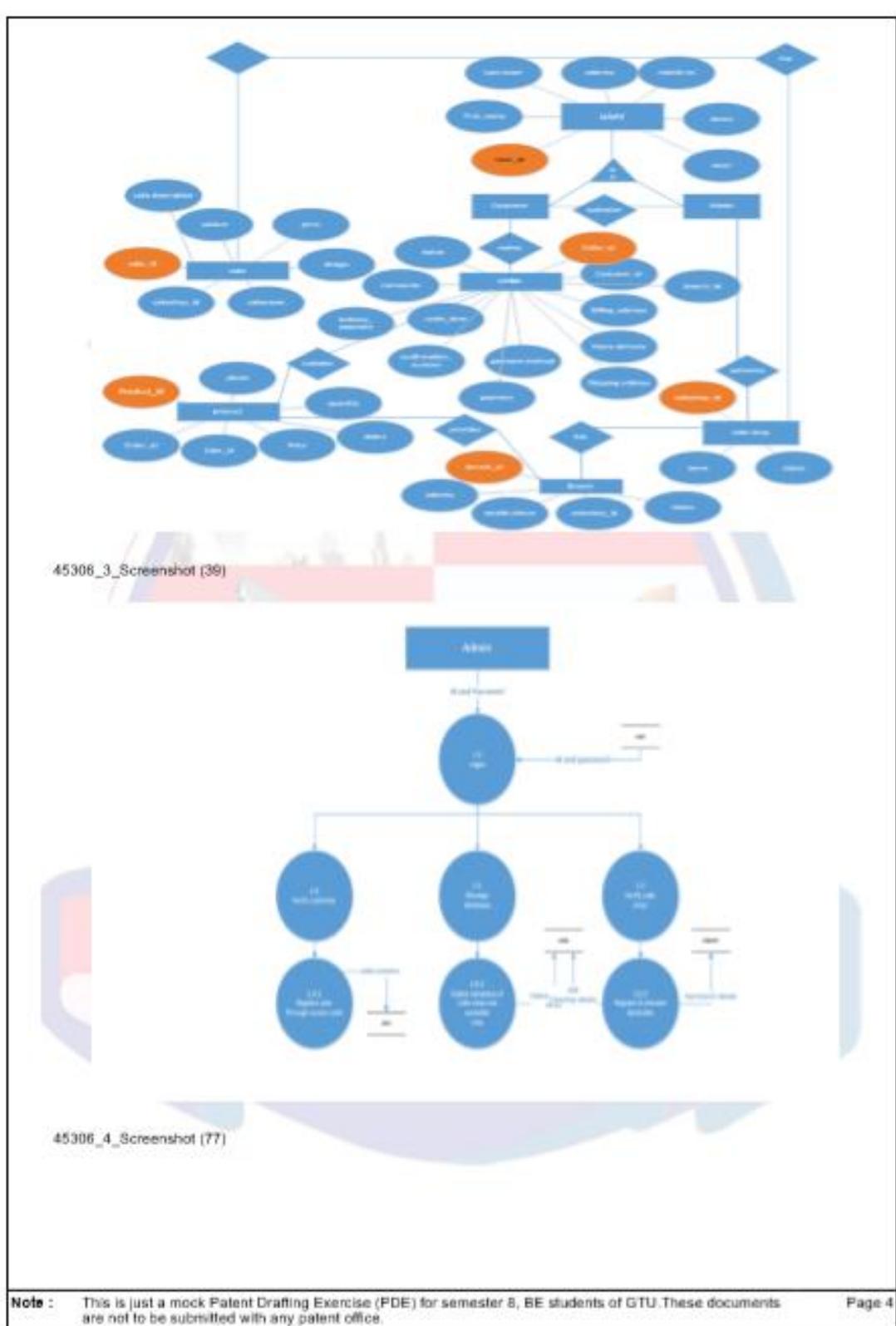
45306_1_Screenshot (11)

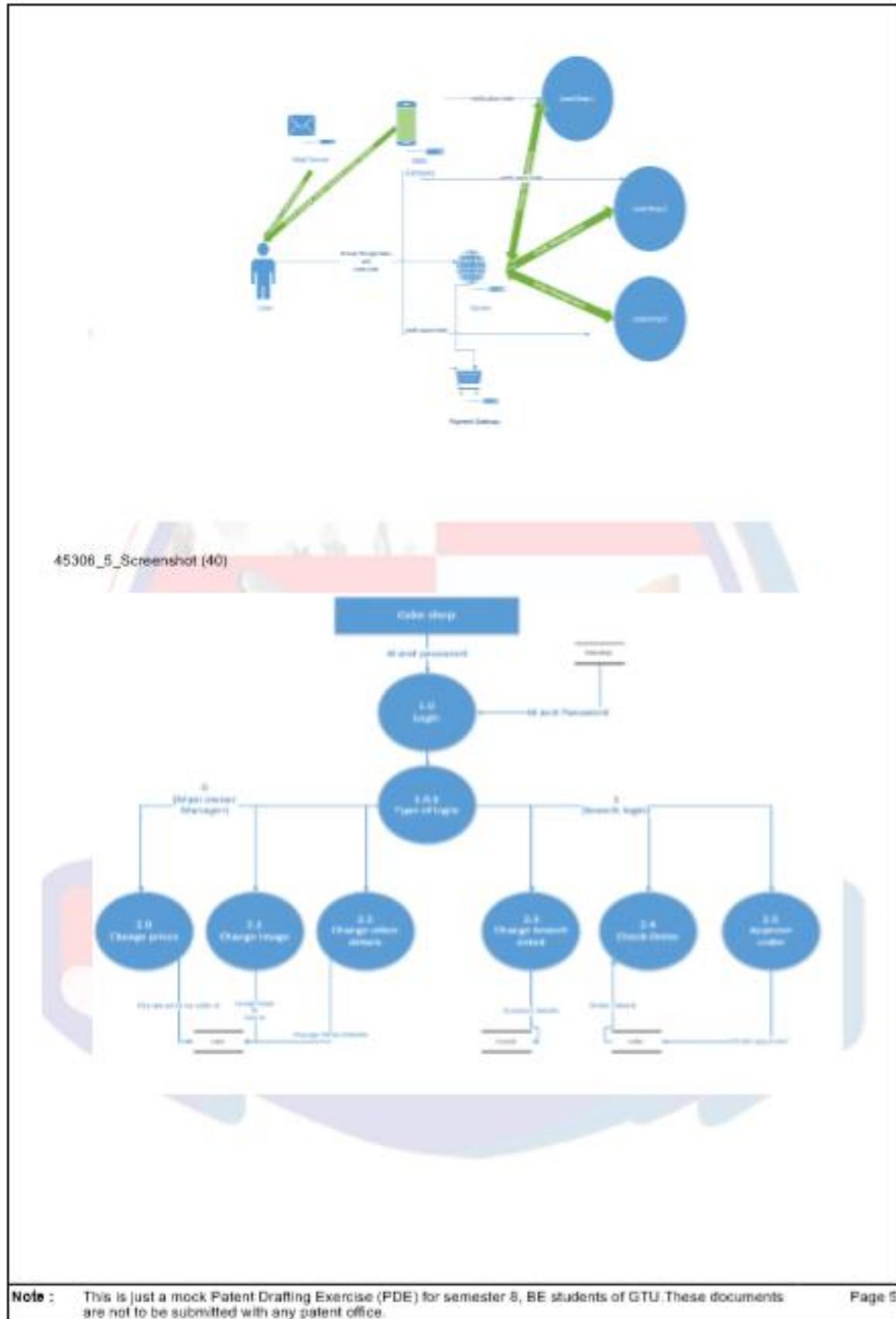


45306_2_Screenshot (21)

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GIC Patent Drafting Exercise		Team ID: 46308												
<p style="text-align: center;">FORM 3 THE PATENT 3 ACT, 1870 (38 OF 1870) & THE PATENT 3 RULE 3, 2003 STATEMENT AND UNDERTAKING UNDER SECTION 3</p>														
<p>1. Declaration :</p> <p>I/We, Shah Akash Deveshbhai, Soni Riddhiben Harendrakumar, Shah Utsavi Birenbhali</p> <p>2. Name, Address and Nationality of the Joint Applicant:</p> <p>Shah Akash Deveshbhai (Indian) Address : Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.</p> <p>Soni Riddhiben Harendrakumar (Indian) Address : Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.</p> <p>Shah Utsavi Birenbhali (Indian) Address : Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.</p> <p>Here by declare :</p> <p>(i) that I/We have not made any application for the same/substantially the same invention outside India. (ii) that the right in the application(s) has/have been assigned to,</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Name of the Country</th> <th>Date of Application</th> <th>Application Number</th> <th>Status of the Application</th> <th>Date of Publication</th> <th>Date of Grant</th> </tr> </thead> <tbody> <tr> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>(iii) that I/We undertake that up to the date of grant of patent by the Controller , I/We would keep him inform in writing the details regarding corresponding application(s) for patents filed outside India within 3 months from the date of filing of such application.</p> <p>Dated this 12 day of April, 2018</p> <p>3. Signature of Applicants :</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <p>Sign and Date</p> <p>Shah Akash Deveshbhai</p> </div> <div style="text-align: center;"> <p>Sign and Date</p> <p>Soni Riddhiben Harendrakumar</p> </div> <div style="text-align: center;"> <p>Sign and Date</p> <p>Shah Utsavi Birenbhali</p> </div> </div>			Name of the Country	Date of Application	Application Number	Status of the Application	Date of Publication	Date of Grant	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A									
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To
The Controller of Patent
The Patent Office, at Mumbai.



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