INSTITUTE FOR ADVANCED
COMPUTING AND
SOFTWARE DEVELOPMENT AKURDI, PUNE
Documentation On
"Online Cake Shop"
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Table of Contents

List of Figures

Introduction

The Online Cake Shop web application which provides complete solutions for customers through a single get way using the internet. It will enable customer to check for various cakes available at the shop and purchase cake online without having to visit the shop physically. The user interface will be simple and easy to understand even by the common man.

The project consists of list of Cakes displayed in various categories. The user may browse through these items as per categories. If the user likes a product he may add it to his shopping cart. User has also option for ordering custom cakes according to their requirements like cake's flavour, size, shape and weight.

Document Purpose

Now day's people prefer online shopping over conventional shopping. The buyer's decision-making process has changed dramatically in recent years. Buyers are conducting extensive research online before ever speaking to a sales person. Buyers are also making more direct purchases online and via their smartphone, never stepping foot into traditional brick-and-mortar locations. The internet makes doing business much easier and faster. It's led to changes in the way people do business with a rapidly growing world-wide trend towards online shopping.

Problem Description

This project provides the software for online cake shop. The purpose of this project is to provide an easy shopping facility online and easy selling facility to the merchants of all categories.

Scope

The customers register with their details and get authentication for an authorized Login.

The software provides the following facilities to the customers:

- Facilitates easy shopping online.
- Provides information about the products in categories
- Customers are provided with up to date information on the products available

Aim & Objective

The objective of this software is to provide easy assistance to both the customer as well as the merchant with proper database and information.

2. Overall Description

Project Perspective:

The Online Cake Shop activity is based on ordering and selling the cake for each customer. Each customer will be given unique order number. As soon as this the customer's name and contact details are added for reference. The user should enter the date of delivery and also the quantity. A separate bill is produced for the confirmation and the customer can do any advance payment. During day of delivery, the customer will be producing the bill of order. According to it, again a bill is generated for selling purpose and the customer is supposed to pay the balance amount. All the data's are being stored in the database.

Admin has the authority to add cake details, flavor details and rate. And he also has the right to edit and delete those details to/from the list.

Benefits of Online Cake Shop

- This Online Cake Shop is fully functional and flexible.
- It is very easy to use.
- This Online Cake Shop helps customer to order cake easily.
- It saves a lot of time, money.
- Eco-friendly: The shopping application becomes easy and includes the least of paper work.
- The application acts as an office that is open 24/7.
- It provides custom features development and support with the application.

Users and Characteristics:

Phases for Admin:

1. Login Phase:
Admin is allowed to login.

2. Add Product:
Admin is allowed to add new product.

3. Update Product:
Admin is allowed to update product.

4. Delete Product:
Admin is allowed to delete product.

Customer:

1. Login Phase
The registered user is allowed to log in to the Category Selection Phase.

2. Registration Phase:
A new user registers here with Personal.

3. Category Selection Phase:
A category of the Products is chosen in order to Purchase

4. Purchase Phase:
The products list along with Cost and Description are presented. The customer is allowed to make a choice of Products and Shop.

Operating Environment:

- **Server Side:**

  Processor: Intel® Xeon® processor 3500 series
  HDD: Minimum 500GB Disk Space
  RAM: Minimum 8GB

  OS: Windows 8.1, Linux 6

  Database: MySQL

- **Client Side (minimum requirement):**

  Processor: Intel Dual Core
  HDD: Minimum 80GB Disk Space
  RAM: Minimum 2 GB
  OS: Windows 7, Linux

Design and Implementation Constraints:

- The application will use Angular js as main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since online Cake Shop system is a web-based application, internet connection must be established.
- The online Cake Shop system will be used on PCs and will function via internet or intranet in any web browser.

Requirements Specification

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. This page will be home where there will see the login button.
- After clicking the login button they will be redirected to another page where they will be asked to enter credentials.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

OS: Windows 7, Linux

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.

4. System Diagram

4.1 Activity Diagram

Admin

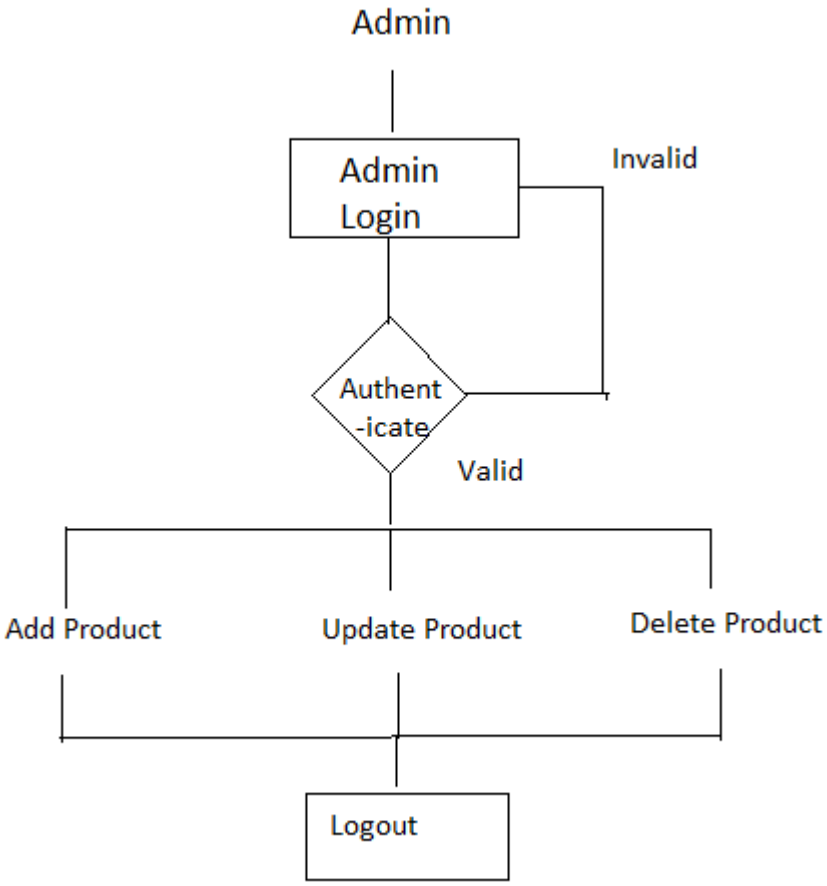

Figure 1: Admin Activity Diagram

Customer

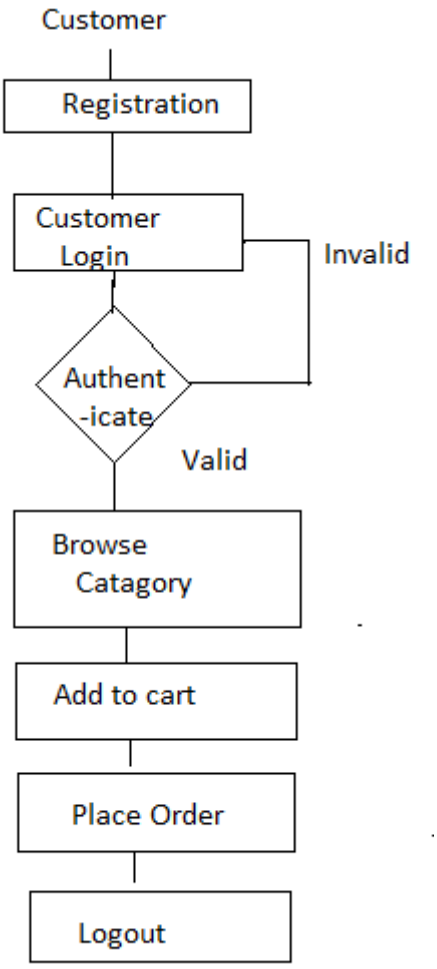

Figure 2: Customer Activity Diagram

4.2 Data Diagram Flow

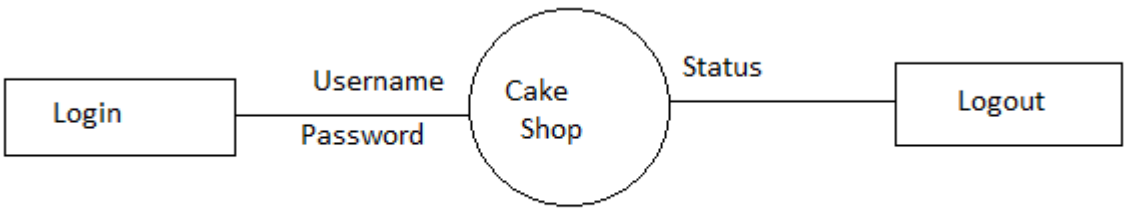

Figure 3: Data Flow Diagram

4.3Use Case Diagram:

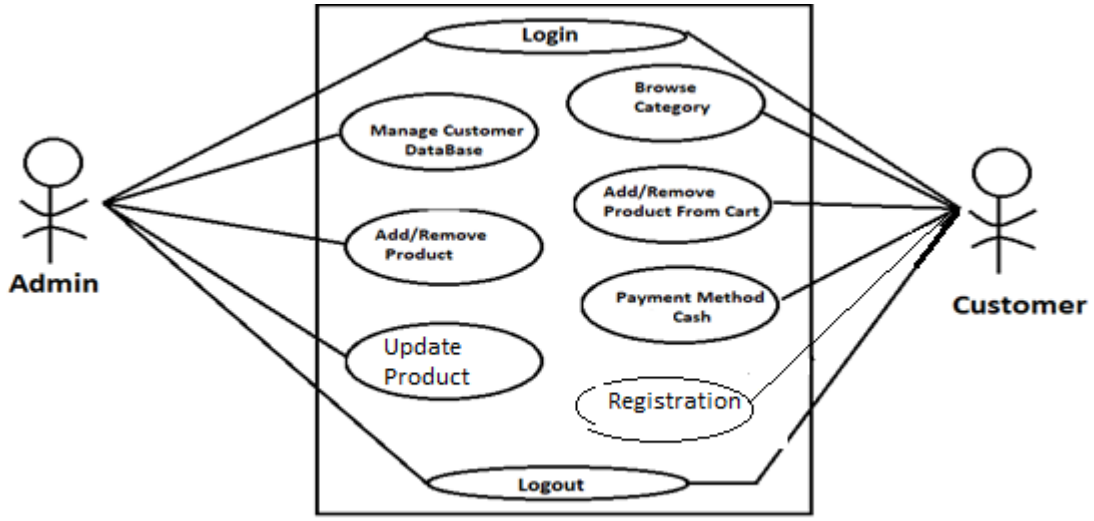

Figure 4: Use Case Diagram

4.3 ER Diagram:

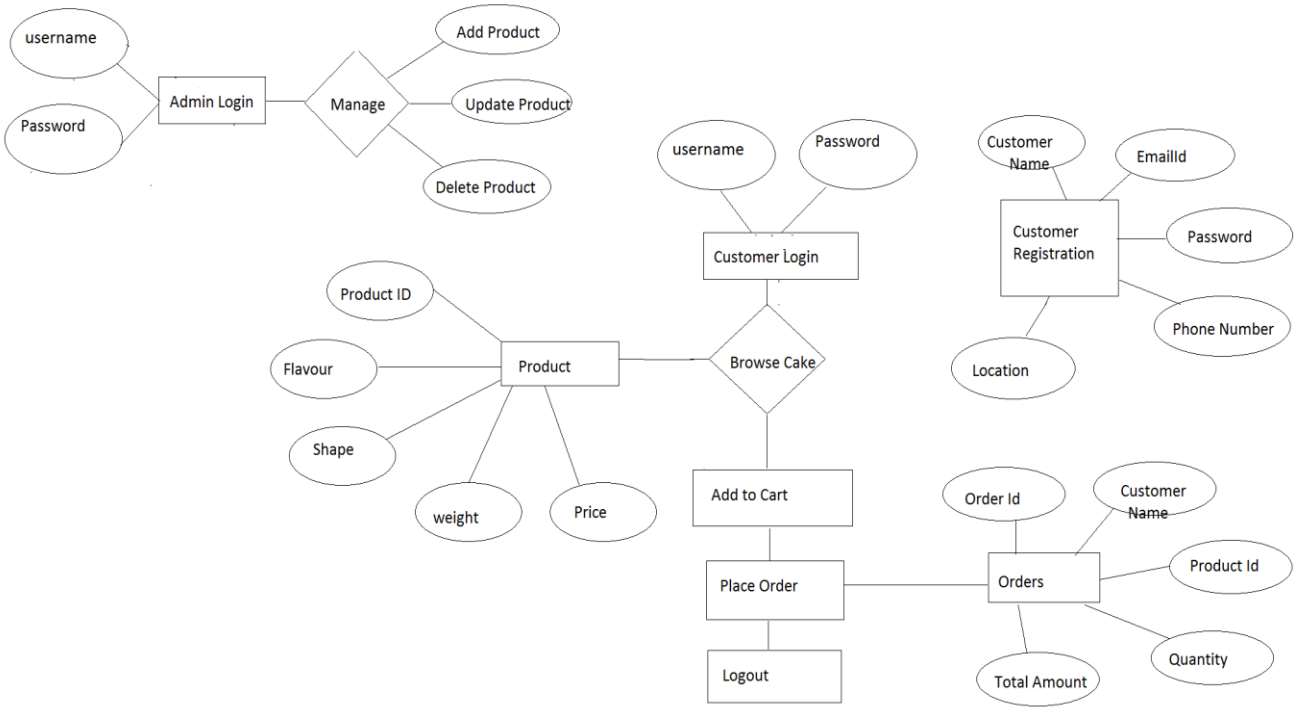

Figure 5: ER Diagram

5. Table Structure

Admin

Field	Type	Null	Key	Default	Extra
admin_id	int	NO	PRI	NULL	auto_increment
email_id	varchar(50	YES	UNI	NULL	
password	varchar(20)	YES		NULL	

Customer

Field	Type	Null	Key	Default	Extra
customer_id	int	NO	PRI	NULL	auto_increment
customer_name	varchar(60)	YES		NULL	
email_id	varchar(60)	YES	UNI	NULL	
location	varchar(60)	YES		NULL	
password	varchar(60)	YES		NULL	
phone_number	bigint	YES	UNI	NULL	

Cake Details

Field	Type	Null	Key	Default	Extra
cake_id	int	NO	PRI	NULL	auto_increment
flavour	varchar(20)	YES		NULL	
no_of_cakes	int	YES		NULL	
price	double	YES		NULL	
shape	varchar(20)	YES		NULL	
size	int	YES		NULL	

Cart Item

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
quantity	int	YES		NULL	
cake_id	int	No	MUL	NULL	
customer_id	int	No	MUL	NULL	

Orders

Field	Type	Null	Key	Default	Extra
orderid	int	NO	PRI	NULL	auto_increment
price	double	YES		NULL	
quantity	int	YES		NULL	
totalbill	double	YES		NULL	
cake_id	int	NO	MUL	NULL	
customer_id	int	NO	MUL	NULL	

6. Conclusion

These are the most of the points I can think right now. I will add more, if I think of more lately. I can customize the online cake ordering system for you as per customer need.

Future Scope

This project can be enhanced further by adding online payment facility for the order payment. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user–friendly website to college students and faculty. Email alerts for various happenings in the college can be added to the system so that users do not miss the updates and happenings of the process.

7. References

https://www.researchgate.net/publication/323194738_Cakelicious_Web_App_for_Designing_a_Customised_Wedding_Cakes

(2017) DQ Cakes website [Online].
Available: http://www.dqcakes.com