VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

KARNATAKA

Mini Project Synopsis
on
"Online Cake Ordering System"

Submitted in the partial fulfillment of the requirements for the ***"DATABASE MANAGEMENT SYSTEM Laboratory with Mini Project (18CSL58)"*** *in Computer Science Engineering during the year* ***2021-2022.***

Submitted by

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CERTIFICATE

This is to certify that the Project Work entitled **"Online Cake Ordering System"** is the bonafide work carried out by **Moulya E**(4AD19CS047) in partial fulfillment for the award of degree of Bachelor of Engineering in Computer Science and Engineering from Visvesvaraya Technological University, Belagavi during the year 2020-2021.

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Name of Examiners	**Signature with date**
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2 ……	**2……**

ACKNOWLEDGEMENT

The satisfaction that accompanies that the successful completion of any task would be incomplete without the mention of people whose ceaseless cooperation made it possible, whose constant guidance and encouragement crown all efforts with success. We are very grateful to our project supervisor Mrs Jyothi M Patil for the guidance, inspiration and constructive suggestions that helpful me in the preparation of this project. We won't forget to also mention friends who helped me a lot in finalizing this project within the limited time frame and also for their wonderful and skilful guidance in assisting me with the necessary support to ensure that my project is a success. I also thank my parents and family at large for their moral and financial support in funding the project to ensure successful completion of the project.

ABSTRACT

Database is a collection of inter-related data which helps in efficient retrieval, insertion and deletion of data from database and organizes the data in the form of tables, views, schemas, reports etc. For Example, university database organizes the data about students, faculty, and admin staff etc. which helps in efficient retrieval, insertion and deletion of data from it.

In order to celebrate any occasion, it is very important to have a cake at the moment so that the event can be maintained in a peaceful manner. There are certain locations which appear in a person life for example anniversary, birthday, or any other event which will make the person joyful and this moment will be celebrated with other close people of the person. The system is capable enough to book the cake as per the customer need and event. There are so many varieties along with the flavor of cake available so that the customer can choose the best cake as per his flavor interest. The customer can also give instruction to customize the cake as per his need according to this the cost of cake will be decided by the Bakery. The cake shop will provide the cake on the doorstep of the customer within the time limit provided by him.

There are variety of cakes which are created by the cake shops as per the need and demand of customer, the cakes are created and customized by the description provided by the customers. The cakes also come in various flavor as per the taste of the customer and also they will come in different sizes and shapes. According to the changes in market condition and Trend, the customer taste will also change and he wants unique cake in different styles so that the cake shop owner will create different designs on each cake to distinguish them and provide fresh cakes to the customers. The Entity will maintain different account of cakes including the information related to the ingredients which are needed to create a particular cake flavor and size as per the demand of customers

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INTRODUCTION

People will go to cake shop physically in the nearby area in order to provide the cake order and withal they have to wait till the order will be yare thereafter they will pay in cash to the shop owner.

The system is very hectic because it will require the people to visit the cake shop on their own and this will withal limit the option of take for the people because they have to cull the cake from the available variety in the cake shop of their nearby area

The cake ordering system will help the people to get the cake even in the night as per their order because there are so many times when the people will like to celebrate in the Midnight therefore it is very important to provide cake fresh at the same time.

The customer can also provide detailed version of the ingredients which need to be used while preparing the cake because the people will get taste as per their requirement and also, they will provide the decoration instruction as per their event which they need to be celebrate.

This online application with a simple colourful easy to use interface that enables the end-users first select category of item that you want to order and then the gallery of product images with its description and prices. By just selecting the item that the user wants to order, the customer will land up in check out page. The customer has to enter their personal details like name, address and phone number

The interface will help the customers in booking the order for the cake they want to get for a particular occasion. There are varieties of options provided by the cake shop owner in the interface of the customer so that the customer can get the information of the menu provided by the owner along with the description of each cake through which he can select the cake as per his choice. The interface will book the order of customer in a separate format so that it will be transferred to the Chef of the Bakery and soon he will start to prepare the order cake.

Every shop owner will upload his menu in the system in order to attract the customers, they will also provide variety of cake options to the customers and also a display in which the customer can choose the type of ingredients they want in their cake as it will help the customer to get more satisfaction because now, he is using each and every ingredient to prepare the cake for himself. He can also choose the type of bread and flavour of the cake as for his interest along with providing the information regarding the quantity of cake.

Technologies Used

MySQL

MySQL is an open-source relational database management system (RDBMS). "SQL", the abbreviation for **Structured Query Language**. A relational database organizes data into one or more data tables in which data types may be related to each other; these relations help structure the data. SQL is a language programmers use to create, modify and extract data from the relational database, as well as control user access to the database. In addition to relational databases and SQL, an RDBMS like MySQL works with an operating system to implement a relational database in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups. MySQL is free and open-source software under the terms of the GNU General Public License, and is also available under a variety of proprietary licenses.

PHP

PHP is a general-purpose scripting language geared towards web development. PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of an HTTP response. Various web template systems, web content management systems, and web frameworks exist which can be employed to orchestrate or facilitate the generation of that response. Additionally, PHP can be used for many programming tasks outside the web context, such as standalone graphical applications and robotic drone control. PHP code can also be directly executed from the command line.

HTML

The **Hyper Text Markup Language**, or HTML is the standard markup language for documents designed to be displayed in a web browser. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by *tags*, written using angle brackets. Tags such as `<img />` and `<input />` directly introduce content into the page. Other tags such as `<p>` surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.

CSS

Cascading Style Sheets (**CSS**) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colours, and fonts. This separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, which reduces complexity and repetition in the structural content; and enable the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

ER-Diagram

ER Model is used to model the logical view of the system from data perspective which consists of these components:

Entity

An Entity may be an object with a physical existence – a particular person, car, house, or employee – or it may be an object with a conceptual existence – a company, a job, or a university course.

An Entity is an object of Entity Type and set of all entities is called as entity set. e.g.; E1 is an entity having Entity Type Student and set of all students is called Entity Set

Attributes

Attributes are the properties which define the entity type. For example, Roll_No, Name, DOB, Age, Address, Mobile_No are the attributes which defines entity type Student. In ER diagram, attribute is represented by an oval.

Relations

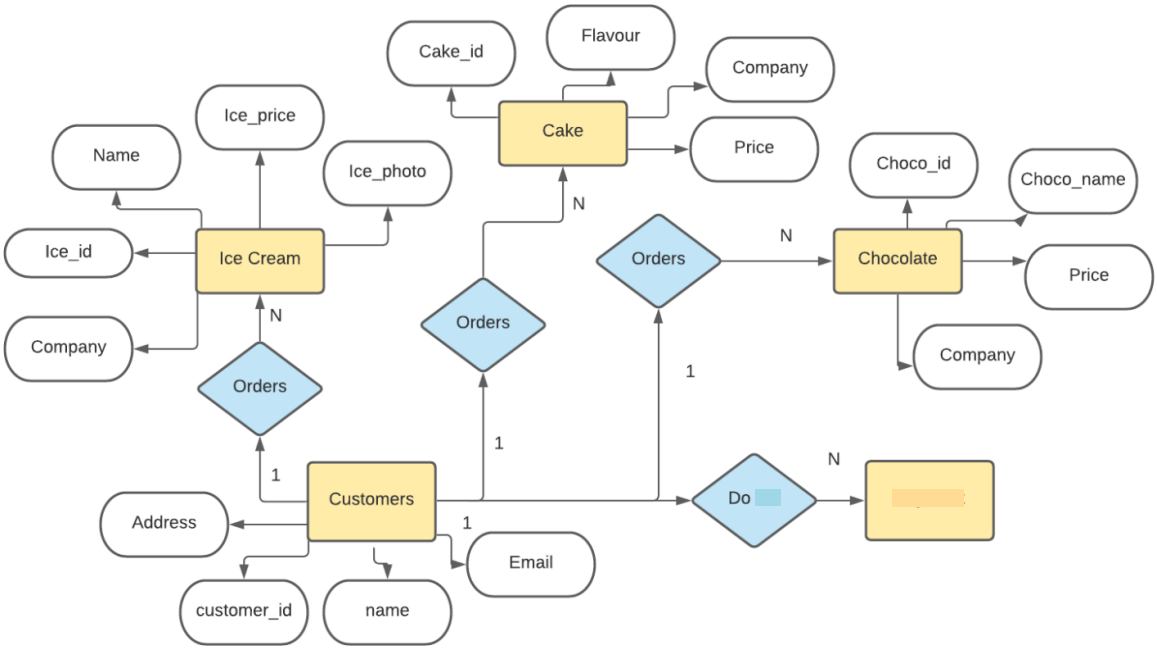
A relationship type represents the association between entity types. For example,' Enrolled in' is a relationship type that exists between entity type Student and Course. In ER diagram, relationship type is represented by a diamond and connecting the entities with lines.

Cardinality

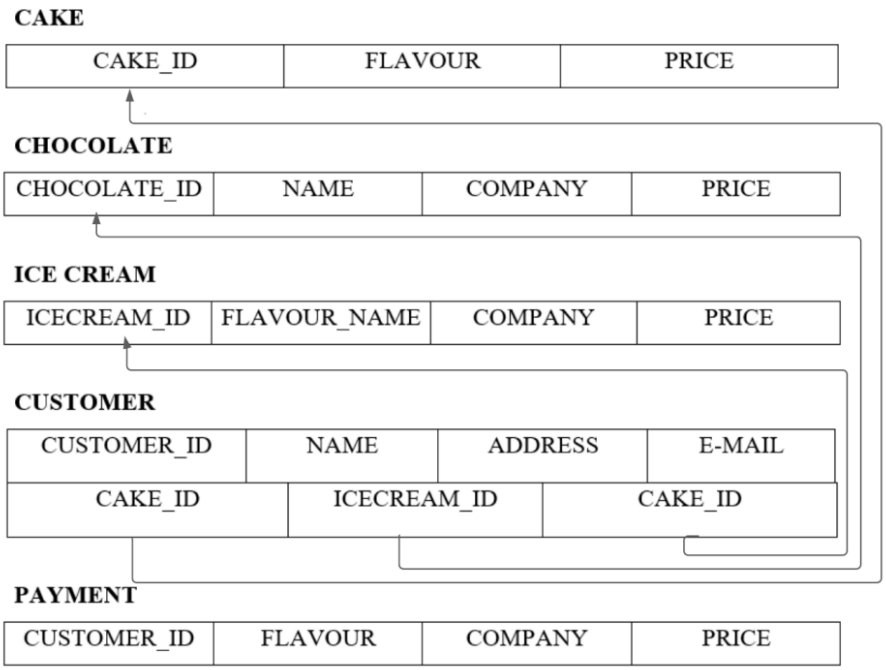
Cardinality defines the number of entities in one entity set, which can be associated with the number of entities of other set via relationship set.

- **One-to-one** − One entity from entity set A can be associated with at most one entity of entity set B and vice versa.
- **One-to-many** − One entity from entity set A can be associated with more than one entities of entity set B however an entity from entity set B, can be associated with at most one entity.
- **Many-to-one** − More than one entities from entity set A can be associated with at most one entity of entity set B, however an entity from entity set B can be associated with more than one entity from entity set A.
- **Many-to-many** − One entity from A can be associated with more than one entity from B and vice versa.

ER-DIAGRAM



Schema Diagram



NAME	PHONE	MESSAGE

TABLE DESCRIPTION

1. CAKE

Attributes	Datatype	Key
cake_id	varchar (255)	Primary Key
name	varchar (255)	
price	int(11)	

2. CHOCOLATE

Attributes	Datatype	Key
choco_Id	varchar (255)	Primary Key
name	varchar (255)	
company	varchar (255)	
price	int(11)	

3. ICECREAM

Attributes	Datatype	Key
ice_cream	varchar (255)	Primary key
name	varchar (255)	
company	varchar (255)	
price	int (11)	

4. CUSTOMERS

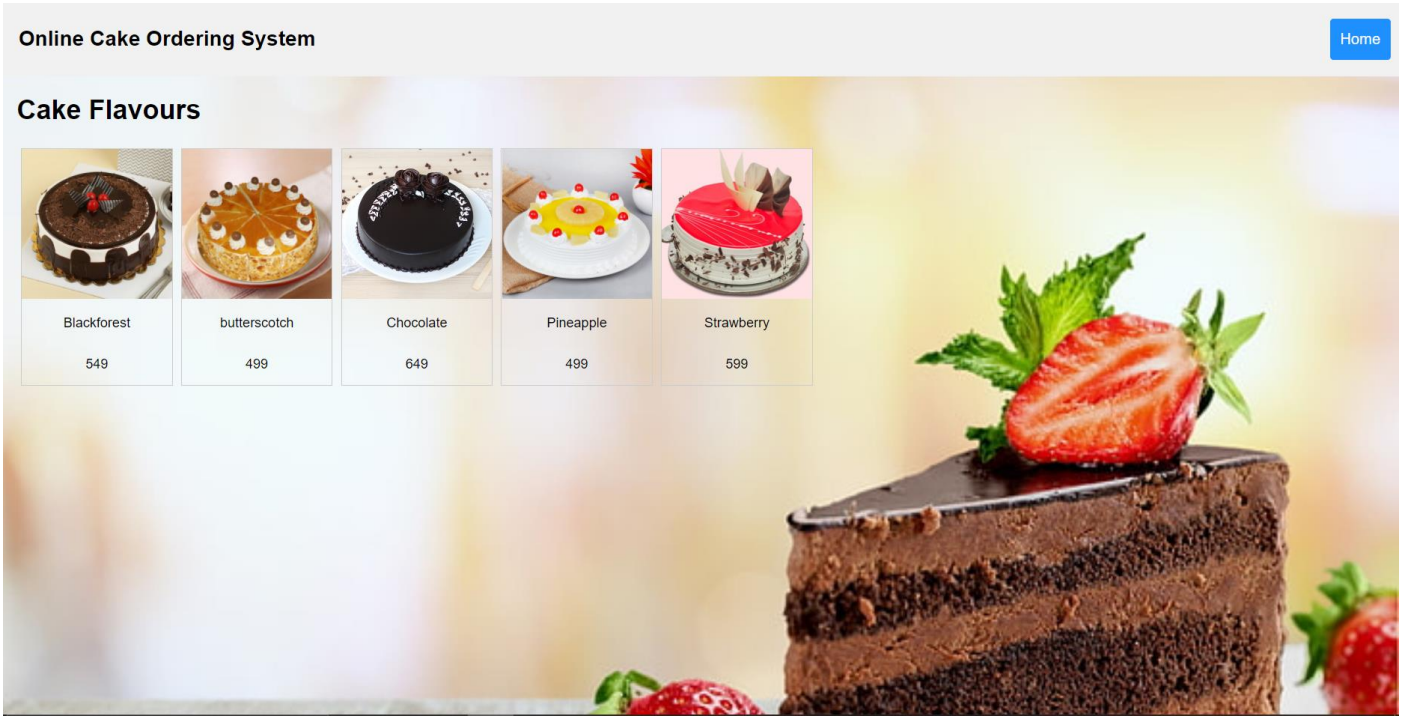
Attributes	Datatype	Key
customer_id	varchar (255)	Primary Key
name	varchar (255)	
phone	bigint(10)	
address	varchar (255)	
pincode	int(6)	
item_id	varchar (255)	Foreign Key
custom	varchar (255)	
payment	varchar(255)	

5. CONTACT US

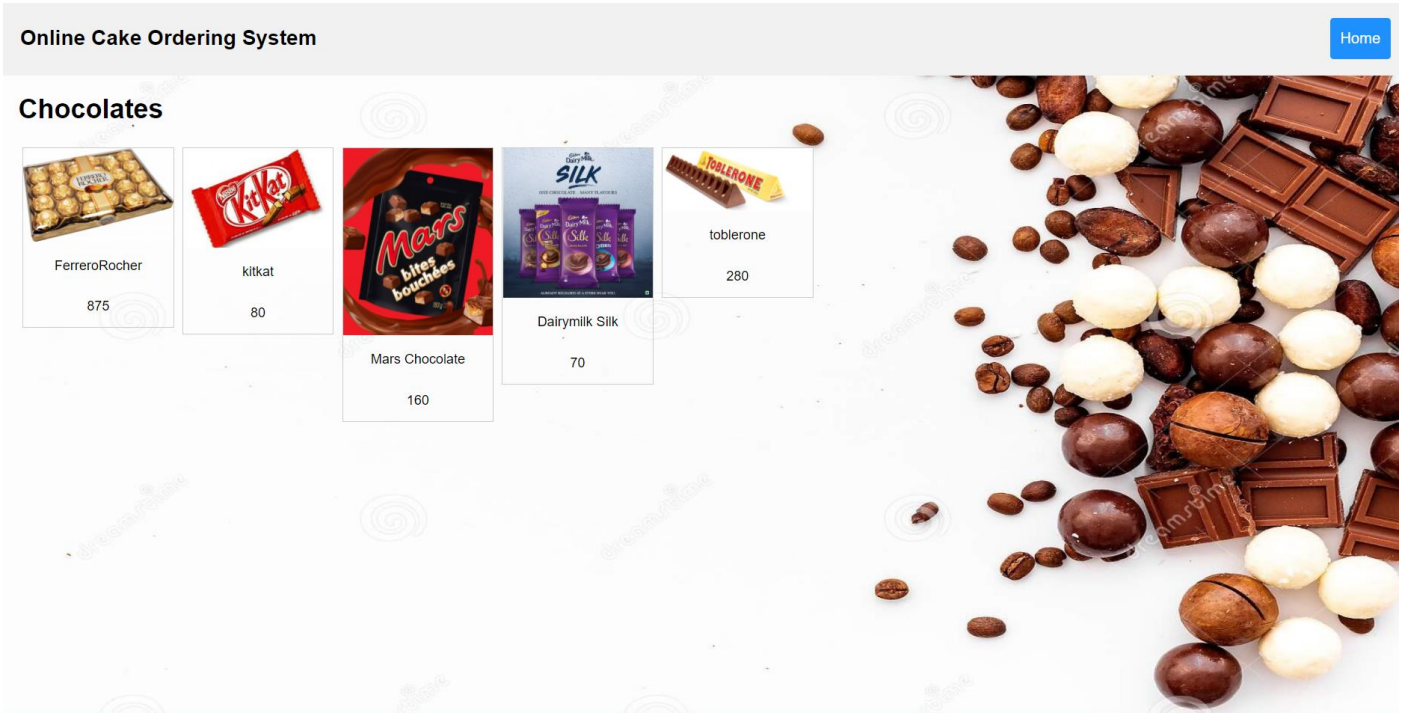
Attributes	Datatype	Key
name	varchar (255)	
phone	bigint(10)	
message	varchar (255)	

Home Page

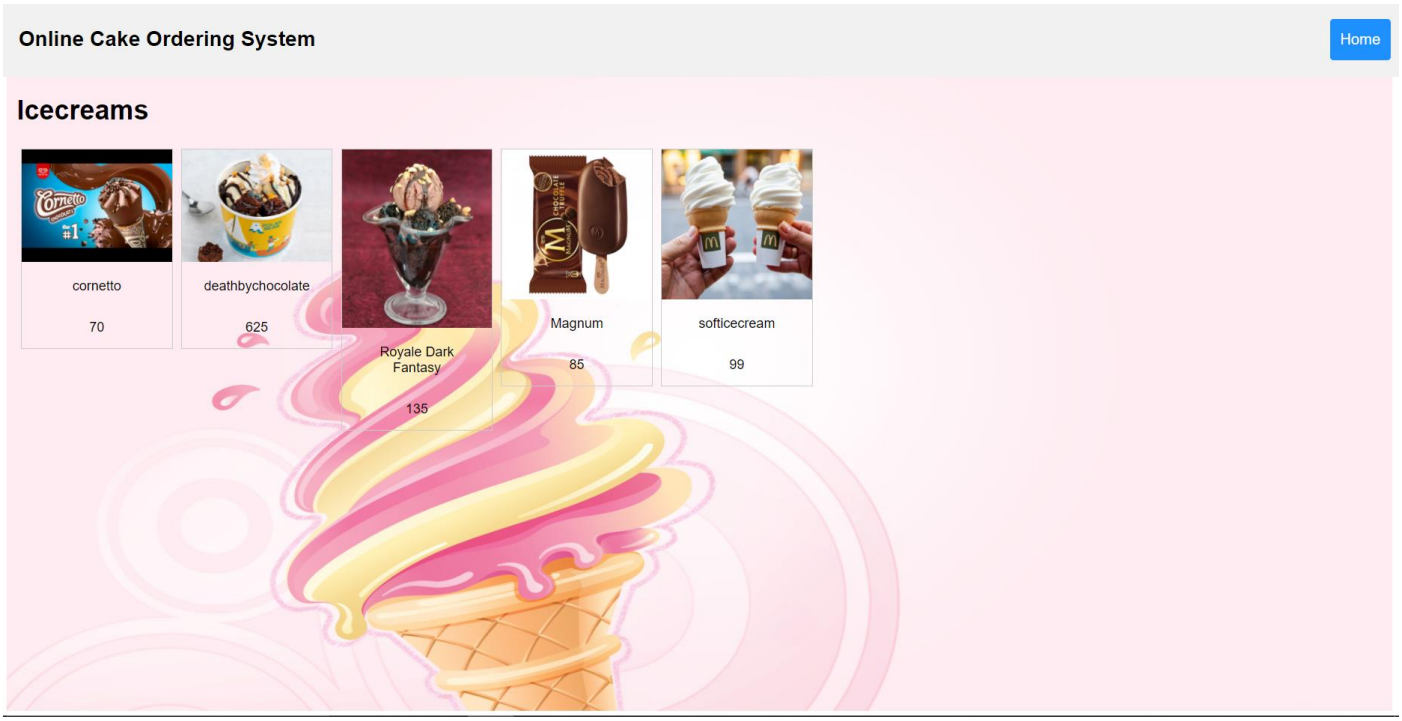
Cake Homepage



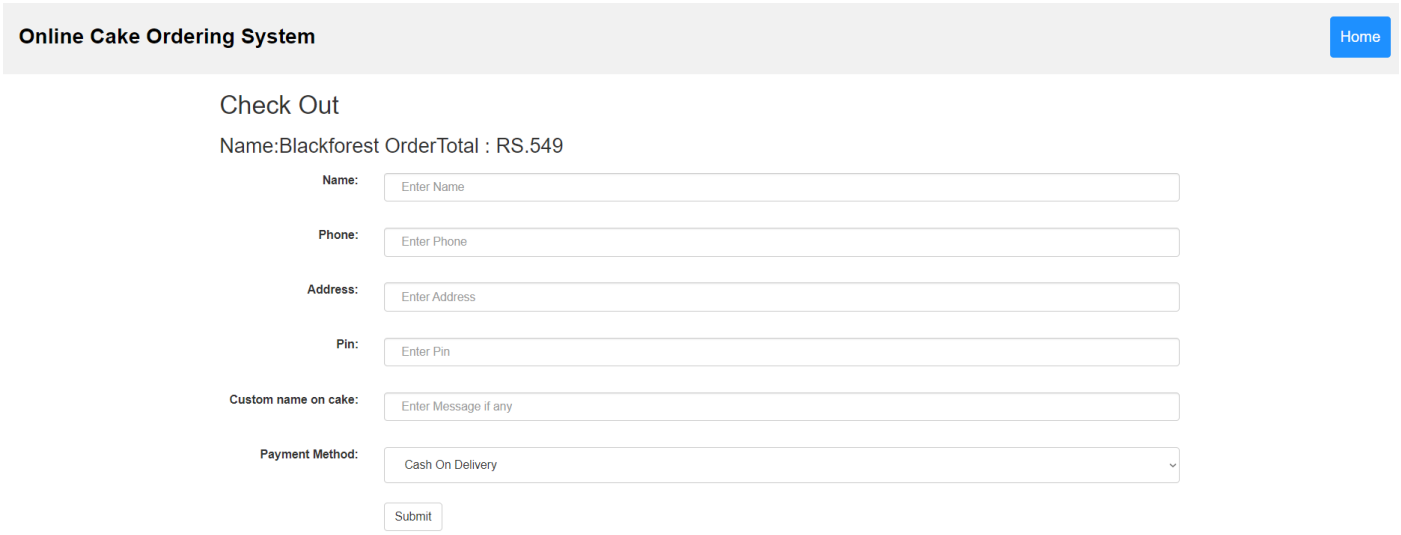
Chocolate Homepage



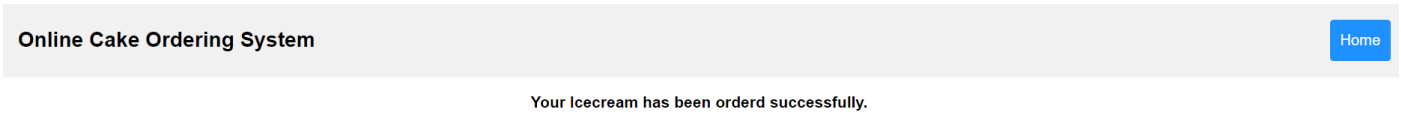
Ice cream Homepage



Check Out



After checkout, the order will be stored in database



Contact Us page

Customer can contact us by providing their name phone number with querry

List of tables

	Table	Action	Rows	Type	Collation	Size	Overhead
☐	cakes	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐	chocolate	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐	contact	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐	customers	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐	icecream	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
	5 tables	Sum	19	InnoDB	utf8mb4_general_ci	80.0 KiB	0 B

Cake Description

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	cake_id	varchar(255)	utf8mb4_general_ci		No	*None*			Change Drop More
☐	2	name	varchar(255)	utf8mb4_general_ci		Yes	*NULL*			Change Drop More
☐	3	price	int(11)			Yes	*NULL*			Change Drop More

Chocolate Description

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	choco_id	varchar(255)	utf8mb4_general_ci		No	*None*			Change Drop More
☐	2	name	varchar(255)	utf8mb4_general_ci		Yes	*NULL*			Change Drop More
☐	3	price	int(11)			Yes	*NULL*			Change Drop More
☐	4	company	varchar(255)	utf8mb4_general_ci		Yes	*NULL*			Change Drop More

Ice Cream Description

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	ice_id	varchar(255)	utf8mb4_general_ci		No	*None*			Change Drop More
☐	2	name	varchar(255)	utf8mb4_general_ci		Yes	*NULL*			Change Drop More
☐	3	price	int(11)			Yes	*NULL*			Change Drop More
☐	4	company	varchar(255)	utf8mb4_general_ci		Yes	*NULL*			Change Drop More

Customer Description

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	customer_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	name	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	phone	bigint(20)			Yes	NULL			Change Drop More
4	address	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
5	pincode	int(6)			Yes	NULL			Change Drop More
6	item_id	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
7	custom	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
8	payment	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Contact us

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	name	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
2	phone	bigint(10)			No	None			Change Drop More
3	message	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More

REQUIREMENT SPECIFICATION

To perform this project, certain hardware and software requirements are required by the system. Those hardware and software requirements are listed below:

Hardware Requirements

- Processor – 1.5GHz or above.
- Memory – 512 kB RAM, 40GB hard disk
- Input Device – Keyboard, 2 or 3 button mouse
- Output Device – 1024 x 768 display resolution Monitor

Software requirements

- Operating system – Windows/Ubuntu.
- MySQL (XAMPP APACHE SERVER)
- Language – HTML CSS with PHP

References

1. **https://www.w3schools.com/**
2. **https://www.tutorialspoint.com/index.htm**
3. **https://www.wikipedia.org/**

CONCLUSION

The main aspect behind OVS is that it enabled us to bring out the new ideas that were sustained within us for many for many days. This project offers the voters to cast easily through internet. Vote counting is also made easy by the OVS since it‟s just a matter of querying the database. OVS is used by a number of countries today. Developing a good system is critical to the success of the system to prevent system failures and to gain wide acceptance as the best method available. A good OVS system requires ten characteristics which this system already has. These are: Accuracy Convenience Reliability Verifiability Flexibility Consistency Democracy Mobility Social Acceptance Privacy In analysing, designing, implementing, and maintaining standards, we considered these characteristics as the foundation. These standards were made national. OVS will be an inexpensive, and less time-consuming method once a system exhibiting national standards and the above-mentioned characteristics is implemented

Signature of Guide

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