



Project Name: Dream Cake Wonderland Batch PG-DAC Sep-2021

Documentation On

"Dream Cake Wonderland"

Submitted By

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ACKNOWLEDGEMENT

The successful completion of a project is not an individual's effort. It is an outcome of cumulative efforts of all group members, each having its own importance to the objective.

This section is a value of thanks and gratitude towards all members for contributed in their own special way towards the completion of the project. For their invaluable comments and suggestions, we wish to thank all group members. We owe our gratitude and appreciation to our guide Mrs. Harshita Maheshwari whose suggestions and encouragement helped us to co-ordinate our project. We would also like to express our gratitude towards Infoway faculty and management for their Extended Support. Our thanks and appreciations also go to all project members for developing the project.

Abstract

This Online Dream Cake Wonderland project will basically be an easy-to-use web application that will allow customers to easily purchase and order items for home delivery. It is basically for providing a platform for registering users, categories, products, managing stocks and orders and an end to end system from order-to –delivery-to –payment services.

This project presents a theoretical framework for online cake shop, it discussed about ordering cakes and confectionery items from our store just like from vendors like 'Monginies cakes' and 'winni bakers'. After Ordering the details are processed and a delivery person is assigned for carrying out the delivery available in that region. The Order goes through various stages like "PLACED, PACKING, READY, OUT FOR DELIVERY, DELIVERED, CANCELED".

This project discussed the tool and technology used in developing the proposed system (the system has a front end by REACT to display the content structure and a back end of database using MySQL and Spring Boot I.e. J2EE). A number of development methodologies were discussed and why one of the methodologies was chosen for this project. Methods used to gather the requirement specification was also discussed and how the researchers will use this as a guideline in developing the proposed system.

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1. INTRODUCTION

Dream Cake Wonderland is an online cake shop built with MERN stack. The main objective of this cake-shop is to provide all the services of cakes. This is a completely functional web-app where one can visit, register, purchase and make transaction for order the cake products and Admin can also manage cakes, services, customers, bills, and sell details. Cake shops can manage the product of all category and provide customize cake to the customer.

Here we provided products by category wise that allows customer to choose a particular product easily. The product which are not in stock, customer cannot add that products into cart. If the products are available then the system allows the user to add product into cart.

The system enables the customer to purchase the Products category wise, choose products based on description and add that product into cart The system provides you details about product. If user want to buy product, he must have registered account. The system shows the product that are available or not in stock, The system displays price, quantity, availability of product to customer as well as cake shops of store.

To place order system, ask user to select the address and payment mode. If address is not provided the user cannot place order, customer have to specify the address before placing order. After selecting address and payment mode user can place order and the same updates will be done in database.

The System have admin who can add new employees i. e cakeshop and delivery boy or can remove employees also admin can add or can remove products. also, he can see the availability of products. The System have cakeshops also who can perform tasks like add or remove products also cakeshop can edit product details.

This will provide a platform for small as well as large cake shops to manage their business and get available to the customers through online delivery. Helping customers to celebrate their special moments by delivering fabulous Cakes.

1.1 Problem Statement

An online website for a cake is a very common system that been used by all of the cake out there. Yet, there is some cake which failed to provide a good service for the customers and unable to get home made cakes.

The first reason why a cake fails to satisfy their customers though they have good websites is, due to the difference between received product and displayed item. Many feels like they have been cheated by the cake management because they received items that are totally looks strange and different from what they have ordered. It may happen because of the less expertise people which involved in this baking process. Besides that, the credit card hoax that happens when customer made payment via online also spoils the trustworthy that customer have on that particular cake. This kind of hoax usually happens because of the poor encryption and security of the system. Last, but not the least, customers tend to lose their trust towards the website of a cake because of the delay of the goods delivery service. People lose their patience if they didn't receive their ordered items on time right after payment has made.

This documentation is aimed to create a website which, handle ordering like ready as well as customize cakes and delivering cakes online.

Product Scope -

The scope for this project developing a software that operates as online system that can send and receive information to the cake shops and customers. This system operates through online and will be highly secured as there will be different users with different keys to login into their account.

1.2 Aims & Objectives -

- To design a user-friendly website interface for the cake shop or homemade bakers.
- To provide ready as well as homemade cakes.
- To provide home makers logins to sell their home-made cakes through online cake shop.
- To provide other cake shop services like confectionery items, decoration material at one place.
- To provide an online cake shop services with home delivery.

2. Feasibility Study

Feasibility study itself describe as an evaluation of entire operation to help us define current and future goals and needs. So we gather requirement on market analysis how cake shops and home makers situation in this pandemic, chance to grow business of both so need for our application is in pandemic situation many home makers stuck their business so if platform will be provided to them they will also grow their business along with our system, so here is big chance of growth in business. Requirement for that to provide login interface to the system so that they can add their product for sell.

If customization provided then it may be chance to visit more no of people to website and order the product so this was our feasibility study for requirements.

3. Analysis

3.1. Existing System

There is already existing online website for the cake shop but they have big bakery shops as their vendor to provide cakes home makers cannot able to sell their home-made product and customer didn't get customize cake as per image he has provided.

3.2. Proposed System

Our proposed system i.e., Dream cake wonderland modules listed as below.

- 1. Customer Module
- 2 Cake shop module
- 3. Admin Module
- 4.Delivery Man

Customer need to register first and then login to order the product. He can select category for ordering customize cakes according to their requirements like cake's flavour, weight, shape & delivery time or they can upload image of cake. Ready cakes are also available with delicious varieties. Confectionery is also available i.e., Pastries, Muffins, cupcakes, chocolates and many more various Bakery sweets items, chocolate snacks Along with the cake flower-buffets decoration items are available. Cart will provide for selected items. Payment gateway is available for payment. After payment order will be successfully placed.

Cake shops is register by **Admin** then cake shop can handle product management, stock management, add or remove category. When order successfully placed then cake shop assign order and when it is ready then it will assign to the delivery man.

Admin can login to the system and manages all modules like product detail, price, stock manage. add or remove cake shop add delivery boy. See order details.

Delivery Man is added by the admin when cake shops give order status ready then delivery man assign order to himself and out for delivery when it delivers to the customer, he changed status of order to delivered.

3.3. Software Requirement Specification

Hardware:

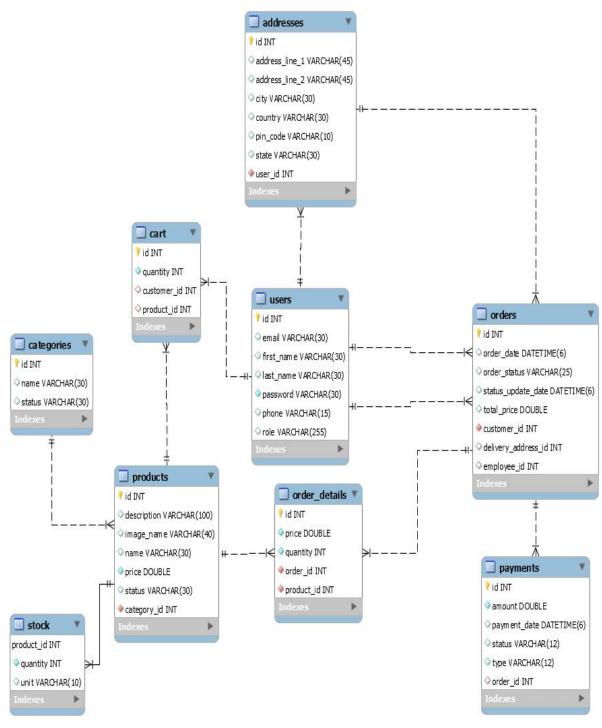
- 1. Intel i3 processor 3rd generation or later generation or later
- 2. 2 GB ddr3 ram.
- 3. Windows 7 Home edition or later.
- 4. 200 GB HDD Space
- 5. Data Connection 200 Kbps

Software:

- 1. Eclipse EE 2020-21
- 2. MySQL 5.7 with Workbench 8.0
- 3. Google Chrome version 79.0
- 4. Apache Tomcat Server 8.5
- 5. Maven Dependencies

4. Design

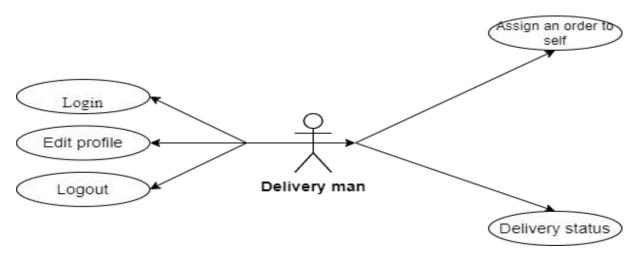
4.1. UML diagrams



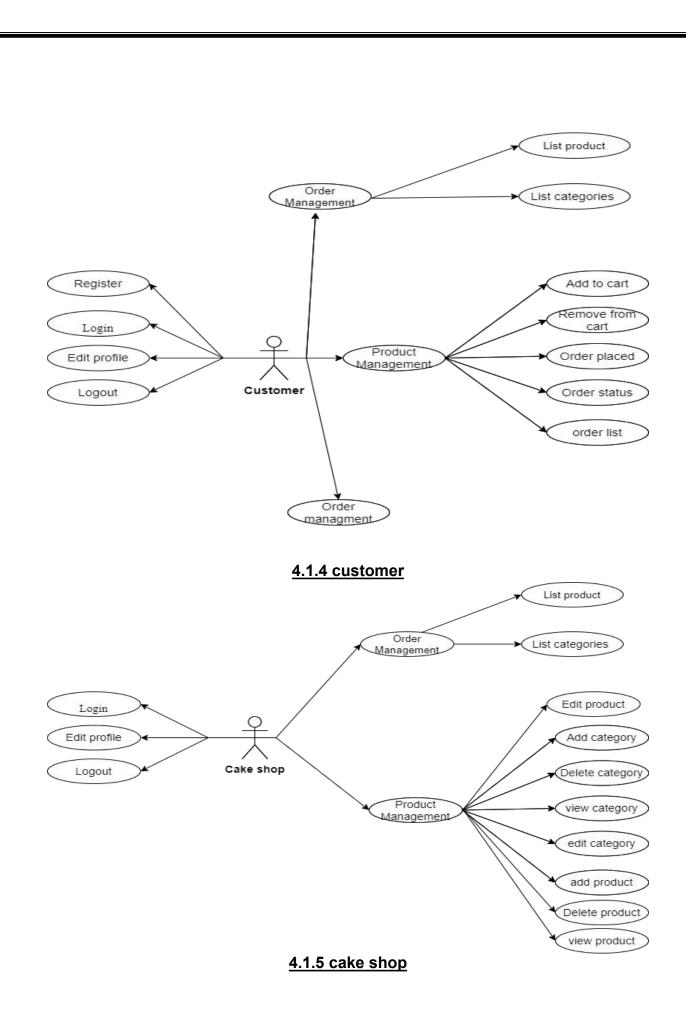
4.1.1 ER diagram

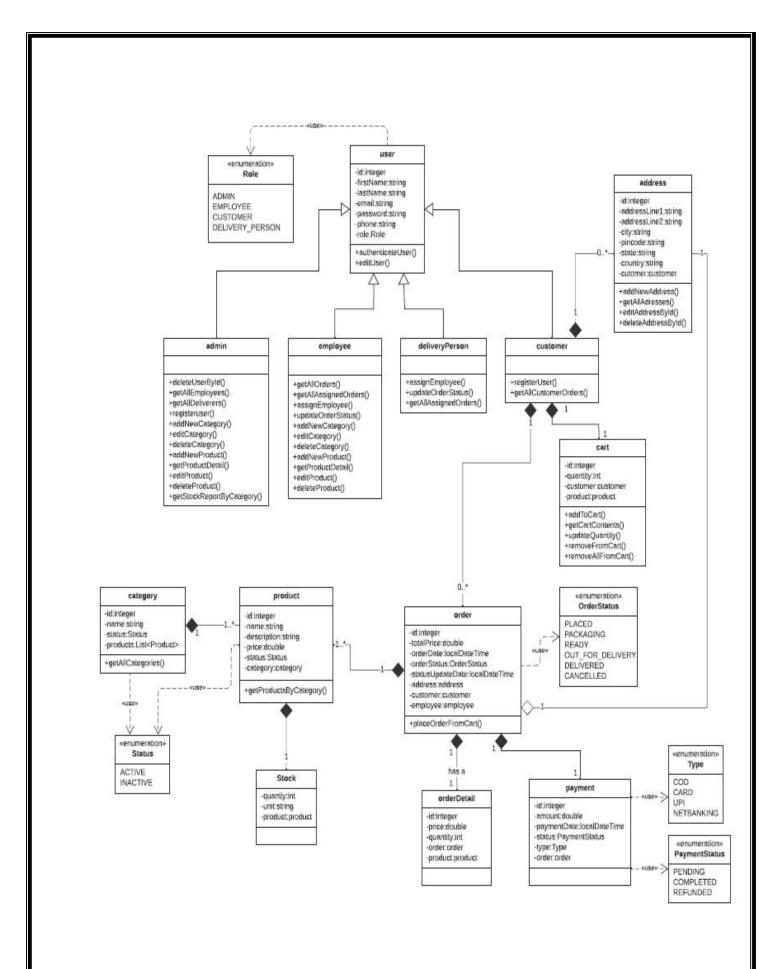


4.1.2 Admin

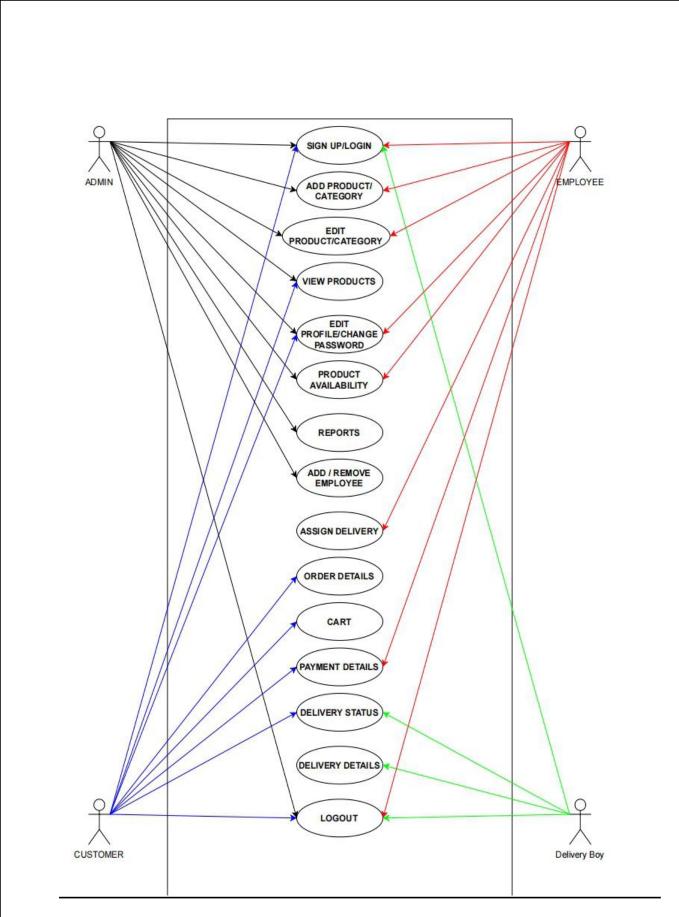


4.1.3 Delivery Man

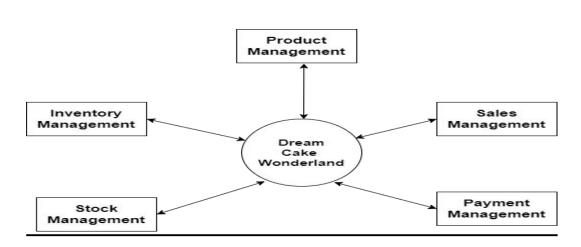




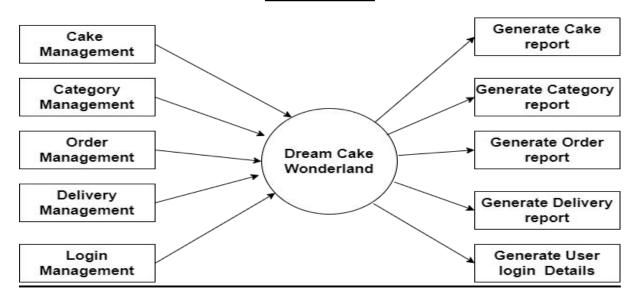
4.1.6 class diagram



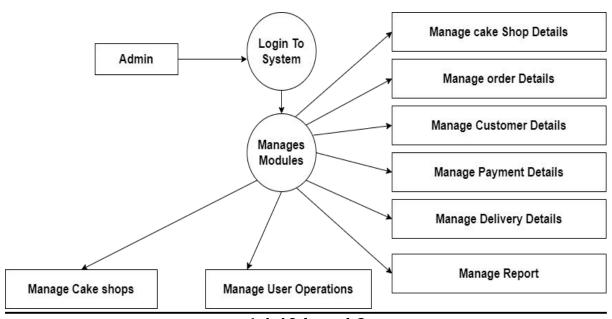
4.1.7 Collaboration Diagram



4.1.8 Level 0



4.1.9 Level 1



4.1.10 Level 2

5. Implementation

5.1. Modules

Our proposed system i.e., Dream cake wonderland consists of four modules listed as below.

- 1. Customer Module
- 2. Cake shop module
- 3.Delivery man module
- 3. Admin Module

5.2. Module description

5.2.1 Customer Module

- Customer can login or register.
- select product category wise.
- Add products to cart.
- Customer can select address mode of payment.
- customer can able to see order status after successfully placed order..

5.2.2 Cake shop Module

- Cake shop can login or create his own account.
- Cake shop can add products for sell.
- add product to the category

5.2.3 Delivery man Module

- pick up order
- Deliver order

5.2.4 Admin Module

- · Admin can login.
- Admin can add cake shop and delivery man
- add remove category
- check stock report

5.3. Introduction of technologies used

5.3.1 Spring Boot Framework:

Spring Boot provides a good platform for Java developers to develop a stand-alone and production-grade spring application that you can **just run**. You can get started with minimum configurations without the need for an entire Spring configuration setup.

Spring enables you to build applications from "plain old Java objects" (POJOs) and to apply enterprise services non-invasively to POJOs. This capability applies to the Java SE programming model and to full and partial Java EE.

5.3.1.1 Features of Spring boot Framework:

Web Development

It is well suited Spring module for web application development. We can easily create a self-contained HTTP server using embedded Tomcat, Jetty or Undertow. We can use the spring-boot- starter-web module to start and running application quickly.

Spring Application

It is a class which provides the convenient way to bootstrap a spring application which can be started from main method. You can call start your application just by calling a static run () method.

Admin Support

Spring Boot provides the facility to enable admin related features for the application. It is used to access and manage application remotely. We can enable it by simply using spring.application.admin. enabled property.

Logging

Spring Boot uses Common logging for all internal logging. Logging dependencies are managed by default. We should not change logging dependencies, if there is no required customization is needed.

Security

Spring Boot applications are spring bases web applications. So, it is secure by default with basic authentication on all HTTP endpoints. A rich

set of Endpoints are available for develop a secure Spring Boot application.

Advantages of a Spring Boot application

- Fast and easy development of Spring-based applications;
- No need for the deployment of war files;
- The ability to create standalone applications;
- Helping to directly embed Tomcat, Jetty, or Undertow into an application;
- No need for XML configuration;
- Reduced amounts of source code;

1. The JDBC Template

The central class of the Spring JDBC abstraction framework is the **Jdbc Template** class that includes the most common logic in using the JDBC API to access data, such as handling the creation of connection, statement creation, statement execution, and release of resource. The **Jdbc-Template** class can be found in the **org.springframework.jdbc.core** package.

The **Jdbc Template** class instances are thread-safe once configured. A single **Jdbc Template** can be configured and injected into multiple DAOs.We can use the **Jdbc Template** to execute the different types of SQL statements. **Data Manipulation Language** (**DML**) is used for inserting, retrieving, updating, and deleting the data in the database such as **SELECT**, **INSERT**, or **UPDATE** statements

2.1 MySQL

MySQL, the most popular Open-Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.

Features of MySQL:

A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or the vast amounts of information in a corporate network. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play a central role in computing, as standalone utilities, or as parts of other applications.

MySQL databases are relational.

A relational database stores data in separate tables rather than putting all the data in one big storeroom. The database structures are organized into physical files optimized for speed. The logical model, with objects such as databases, tables, views, rows, and columns, offers a flexible programming environment.

MySQL software is Open Source.

Open-Source means that it is possible for anyone to use and modify the software. Anybody can download the MySQL software from the Internet and use it without paying anything. The MySQL Database Server is very fast, reliable, scalable, and easy to use.

MySQL Server works in client/server or embedded systems.

The MySQL Database Software is a client/server system that consists of a multithreaded SQL server that supports different back ends, several different client programs and libraries, administrative tools, and a wide range of application programming interfaces (APIs).

3.React JS

React JS is JavaScript library used for building reusable UI components. According to React official documentation, following is the definition –

React is a library for building composable user interfaces. It encourages the creation of reusable UI components, which present data that changes over time. Lots of people use React as the V in MVC. React abstracts away the DOM from you, offering a simpler programming model and better performance. React can also render on the server using Node, and it can power native apps using React Native. React implements one-way reactive data flow, which reduces the boilerplate and is easier to reason about than traditional data binding.

React Features

- **JSX** JSX is JavaScript syntax extension. It isn't necessary to use JSX in React development, but it is recommended.
- **Components** React is all about components. You need to think of everything as a component. This will help you maintain the code when working on larger scale projects.
- **Unidirectional data flow and Flux** React implements one-way data flow which makes it easy to reason about your app. Flux is a pattern that helps keeping your data unidirectional.
- License React is licensed under the Facebook Inc.
 Documentation is licensed under CC BY 4.0.

React Advantages

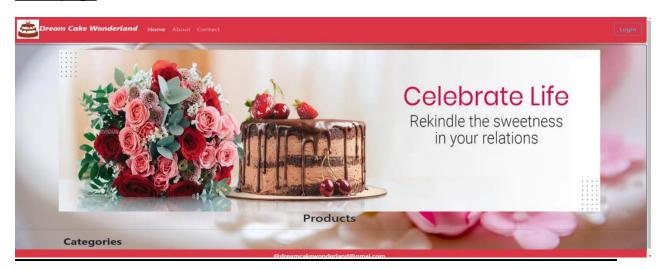
- Uses virtual DOM which is a JavaScript object. This will improve apps performance, since JavaScript virtual DOM is faster than the regular DOM.
- Can be used on client and server side as well as with other frameworks.
- Component and data patterns improve readability, which helps to maintain larger apps.

6. Test cases

Test case id	Test case Name	Test case description	Expected Result	Actual result	status
1	Admin Login	Admin needs to enter his id and password for login	Admin can see his homepage	Admin is on his home page	successful
2	customer Login	customer need to register first and then enter his customer id and password for login.	Customer can see his homepage	customer is on his home page	successful
4	New cake shop and delivery man login	Admin needs to register both of these with their information then only both can login	Cake shop and delivery boy can see their homepage	Cake shop & delivery man is on his home page	successful
5	Confirm orders	Customer can select product and then select shipping address make payment then only his order will confirm	Order will confirm and customer see order status is placed	Customer can see order status placed	successful
5	Delivered order	When cake shops order is ready then only delivery man can pick up and deliver to the customer	delivery man mark remark as delivered; customer order status will change to delivered	After successful delivery of product status of customer order is delivered	successful

7. Screenshots of Webpages

Homepage



Log in page for all users



Sign up page for all users



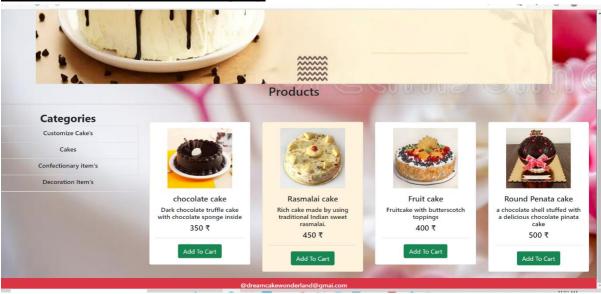
All users profile update form



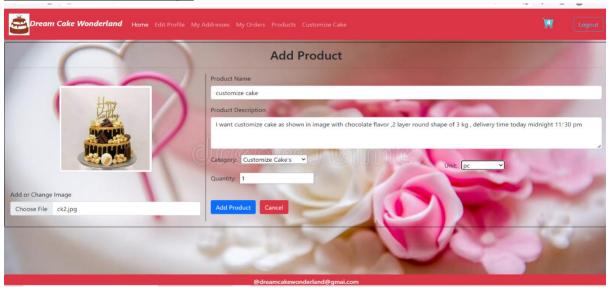
Customer category view



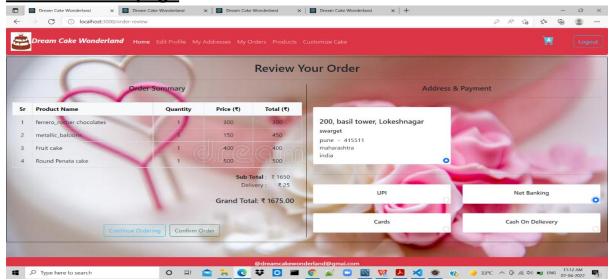
Customer view of all category



Customize cake page



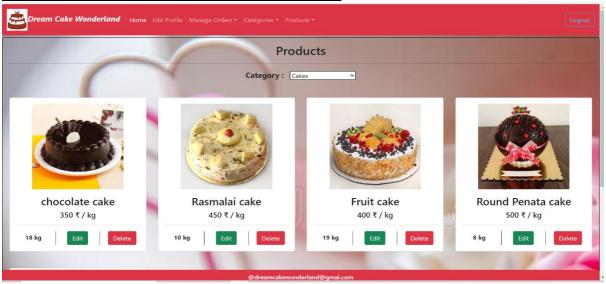
Confirm order page

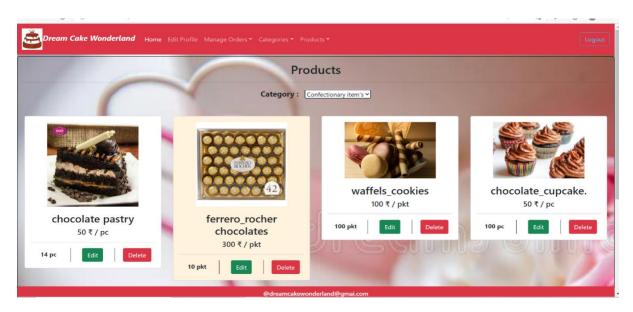


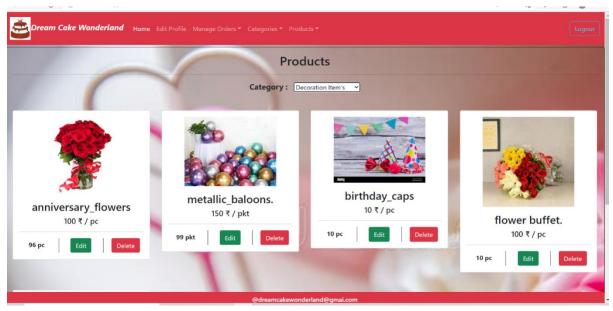
Order history of customer where status is placed



Product view for Admin and cakeshop



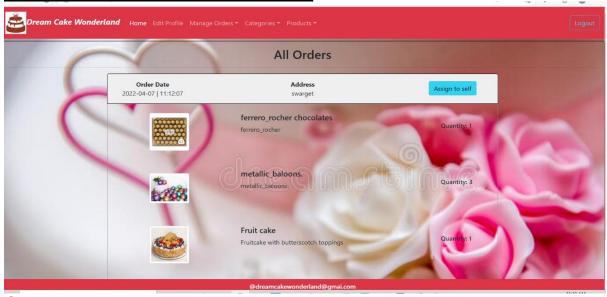




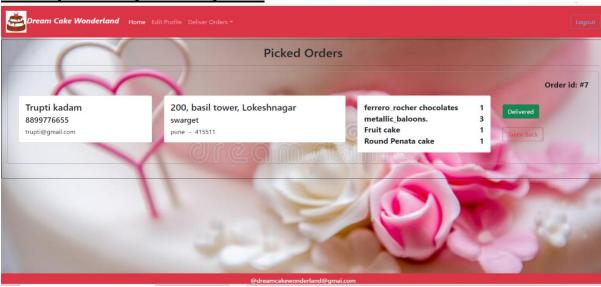
Category view for Admin and cake shop



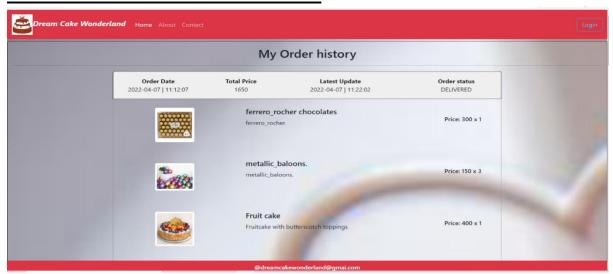
Cake shop can assign order to self



Order picked by Delivery man



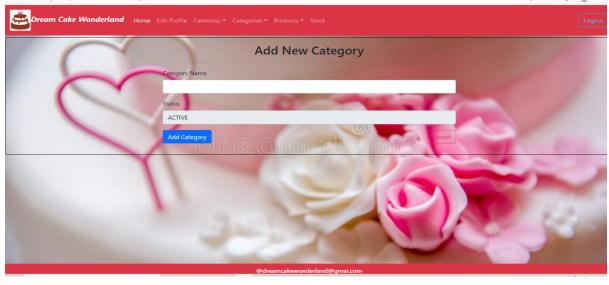
Delivered status of customer order



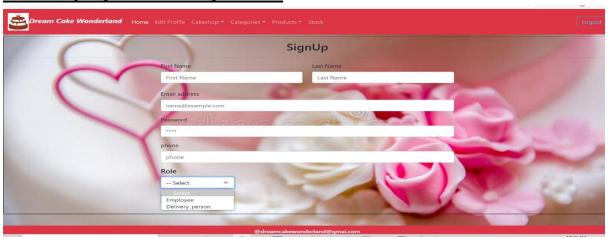
All employee view for Admin



New category added by admin and cake shop



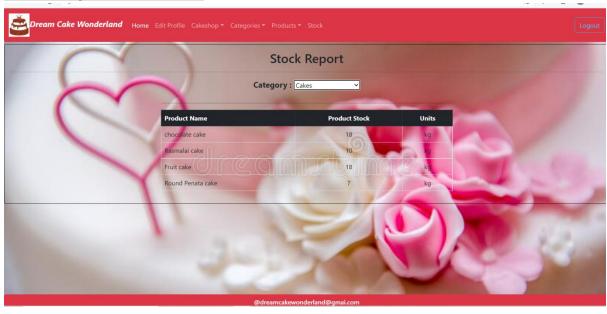
New employee added by Admin



Admin can delete employee



Stock report for admin



TESTING

To build up our project we used software testing process for executing a program with the intent of finding error that is uncovering errors in a program makes it a feasible task and also typing to find the errors (whose presence is assumed) in a program. As it is a destructive process.

Types of testing we use in our project

Here we just mentioned that how the testing is related to this software and in which way we have test the software? In our project we have used five types of testing this are listed below –

UNIT TESTING -

Unit testing where individual program units or object class are tested here by using this testing, we have focus on testing functionality of the methods.

MODULE TESTING-

Where this is the combination of unit program is called module. Here we tested unit program is where the module program have dependency.

SUB SYSTEM TESTING -

Then we combined some module for the preliminary system testing in out project.

SYSTEM TESTING -

Where it is combination of two or more sub system and then it is tested here we tested the entire system a per requirement.

ACEEPTANCE TESTING -

Normally this type of testing is done to verify if system meets the customer specified requirements. After submitting this project to the user then they tested and to determine whether to accept the application. It is the system of testing performed by the customer to determine where they should accept the delivery of system.

8. Conclusion

Dream Cake Wonderland cake shop provides a verified platform for online shopping of customize and ready-made cakes and confectionery. A single platform to sell products by cake shops such as home makers and to buy by customers.

Our System provides a very user-friendly platform where Customers can buy various types of cakes ready made as well as customized cakes as per image or description provided by them which are added by approved cake shops by admin. Admin have overall control over the website such as customer, cake shop and order details.

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9.Future Enhancement

The further development in the project is to provide Party Decorations sets with various type of gifts. Give virtual assessment to talk directly with cake shops regarding any help or any issues..

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