

ONLINE CAKE BOOKING SYSTEM DEVAS

**A PROJECT REPORT SUBMITTED IN PARTIAL
FULFILMENT OF REQUIREMENT
FOR THE AWARD OF THE DEGREE
MASTER OF COMPUTER APPLICATION(MCA)
OF
MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

BY

Revathy S

Reg No: 22PMC144



**MARIAN COLLEGE
KUTTIKKANAM**
(AUTONOMOUS)

MAKING COMPLETE

Marian College Kuttikkanam Autonomous

Peermade, Kerala – 685 531

2022

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Under the guidance of

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PG DEPARTMENT OF COMPUTER APPLICATIONS

Marian College Kuttikkanam Autonomous

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

KUTTIKKANAM – 685 531, KERALA.

CERTIFICATE

This is to certify that the project work entitled

ONLINE CAKE BOOKING SYSTEM

is a bonafide record of work done by

REVATHY S

Reg. No 22PMC144

In partial fulfillment of the requirements for the award of Degree of

MASTER OF COMPUTER APPLICATIONS [MCA]

During the academic year 2022-2023

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REVATHY S

ABSTRACT

Deva's Online Homemade Cake Booking website is a user-friendly platform allowing users to register, browse through various homemade cakes, and place orders conveniently. Users can explore cake details, leave reviews, and rate cakes based on their experiences. The website offers categorization for easy cake selection and provides a secure payment system for hassle-free transactions. With features like a shopping cart, order tracking, and enticing cake images, Deva's website aims to provide customers with a seamless and delightful cake-booking experience.

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1. INTRODUCTION

1.1 PROBLEM STATEMENTS

The project aims to address several key problem statements within the context of the Online Homemade Cake Booking System. One of the main issues is the inefficiency and time-consuming nature of current cake-ordering methods. Customers face challenges in accessing a wide variety of homemade cakes and placing orders efficiently. Additionally, home bakers lack a centralized platform to effectively manage their orders and track inventory, leading to potential mismanagement. Another problem is the limited market reach for home bakers, which restricts their opportunities for business growth. To build trust and transparency, the system aims to incorporate features that enable customers to assess the quality and reliability of homemade cake services. Communication and coordination during the ordering process are often inefficient, causing delays and confusion. The project intends to improve the customer experience by creating a platform that effectively showcases homemade cake options and implements automated processes to handle orders, reducing errors and customer dissatisfaction. Furthermore, the system aims to track and organize customer preferences to provide personalized cake options. Lastly, enhancing the system's technological capabilities will enable it to adapt to changing customer demands and market trends.

1.2 PROPOSED PROJECT

In the proposed online cake booking system, The users require only an internet connection to use the website, which requires an account to buy cakes. Nowadays, each shop has got social media management team to manage their shop accounts on the Internet.

1.3 FEATURES OF THE PROPOSED SYSTEM

- Customers can register and performs their bookings
- Customers can read the recipe for the cake
- Customers can add a review
- Customers can track their orders

2.FUNCTIONAL REQUIREMENTS

1. Customer registration

- The system shall allow a non-registered user to create a secure account.
- The system shall ask the user for a username and password.
- The system shall store the information in the database.

2. Customer login

- The system shall allow a registered user to log in to their account.
- The system shall require a username and password from the user.
- The system will verify the username and password, and the user will be considered “logged in”.

3. Cake Details

The system should allow the addition and management of cake details, including name, description, caption, quantity, price, picture, date, time, and type.

4. User Reviews

Users should be able to leave reviews for cakes, including a review description, and cake name.

5. Cake types

The system should enable the classification of cakes by flavor, type, and occasion, with a link to the corresponding cake details.

6. Shopping Cart

Users should be able to add cakes to their shopping cart, view the total amount, and manage the quantity of each cake in the cart.

7. Order Management

- The system should allow the management of orders, including viewing order details, updating the order status, and calculating the total amount.

8. Logout

3. NONFUNCTIONAL REQUIREMENTS

3.1 RELIABILITY

The reliability of the overall project depends on the reliability of the separate components.

The main pillar of reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes, Also the system will be functioning inside a container. Thus, the overall stability of the system depends on the stability of the container and its underlying operating system.

3.2 AVAILABILITY

The system should be available at all times, meaning the user can access it using a web browser, only restricted by the downtime of the server on which the system runs. A customer-friendly system that is accessible to people around the world should work 24 hours. In case of a hardware failure or database corruption, a replacement page will be shown. Also in case of a hardware failure or database corruption, a backup of the database should be retrieved from the server and saved by the Organizer. Then the services will be restarted. It means 24 X 7 availability.

3.3 MAINTAINABILITY

A commercial database is used for maintaining the database and the application server takes care of the site. In case of a failure, a re-initialization of the project will be done. Also, the software design is being done with modularity in mind so that maintainability can be done efficiently.

3.4 SUPPORTABILITY

The code and supporting modules of the system will be well-documented and easy to understand. Online documentation and help system requirements

4. FEATURES AND HIGHLIGHTS

User Registration:

The system enables users to create an account by providing their personal details such as first name, last name, contact number, address, pin code, email, and password. This registration process allows users to have their own profile and access the features of the system.

Cake Details:

The Cake Booking System allows the management of cake details. This includes information such as the name of the cake, a description that provides more details about the cake, a caption for additional information or special features, the available quantity of the cake, the price, an image of the cake, the date of creation, and the time the cake was added to the system. The system ensures that all relevant details about the cakes are stored and easily accessible.

User Reviews:

The system provides a platform for users to leave reviews for the cakes they have ordered. Users can write a review description, specify the cake for which the review is intended, link the review to their user ID, and provide a rating. This feature enables users to share their feedback and experiences with others, helping prospective customers make informed decisions.

Cake Classification:

To enhance the browsing experience, the system allows cakes to be classified based on various factors. Cakes can be categorized by flavor, type, and occasion. This categorization makes it easier for users to search for specific types of cakes or explore options based on their preferences or the occasion they are ordering for.

Shopping Cart:

The system incorporates a shopping cart functionality that enables users to add cakes to their cart as they browse. Users can view the total amount in their cart, manage the quantity of each cake, and make adjustments before proceeding to the order placement. This feature provides convenience and flexibility for users to review and finalize their cake selections.

Order Placement:

Users can place their cake orders directly from their shopping cart. They can specify delivery details such as the address, select an order status from options like "order processing," "order on the way," "order completed," "order received," or "order canceled." This step in the process allows users to provide all necessary information for a successful order placement.

Order Management:

The system includes features to manage the orders received. This includes tracking order details, updating the order status based on the progress of the order, calculating the total amount for each order, and maintaining a record of the created date and time. Efficient order management ensures smooth processing and enables effective communication with customers regarding their orders.

Payment Processing:

To facilitate secure online transactions, the system integrates various payment gateways. Users can make payments for their cake orders using different payment methods such as credit cards, debit cards, or other online payment options. The system ensures the security and confidentiality of user payment information throughout the transaction process.

5. TECHNICAL ASPECTS

Architecture of Project

1. Presentation Layer

Templates: HTML templates are used to define the structure and layout of the user interface. Django's template engine allows you to dynamically populate the templates with data.

2. Application Layer

Controllers: In Django, controllers are implemented as views, which handle the request/response flow and control the overall behavior of the application.

3. Business Logic Layer

Models: Django's models define the data structure and business logic of the application. Models represent entities like users, bookings, flights, hotels, etc. They handle database operations, such as querying, inserting, updating, and deleting data. Models can also include methods to perform complex business logic.

4. Jazzmin

Django Jazmin is a customizable and modern admin interface for Django applications. It provides an alternative user interface for the Django admin site with a more visually appealing design and additional features. Jazmin aims to enhance the user experience and improve the productivity of developers working with Django.

By installing and configuring Django-jazzmen in your Django project, you can customize the admin interface by changing themes, layouts, icons, and other visual elements. It offers features such as responsive design, drag-and-drop sorting, inline editing, and support for various third-party Django packages. To use Django Jazzmin, you typically need to install it using a package manager like pip, add it to your Django project's settings, and configure it according to your preferences.

Here's a basic example of how to install Django Jazzmin using pip:

```
pip install django-jazzmin
```

Once installed, you would need to add 'jazzmin' to the `INSTALLED_APPS` list in your Django project's settings.py file:

```
INSTALLED_APPS = [
```

```
... 'Jazzmin',
```

...

]

Afterwards you can customize Django Jazzmin by modifying the settings in your Django project's settings.py file.

5. Data Access Layer

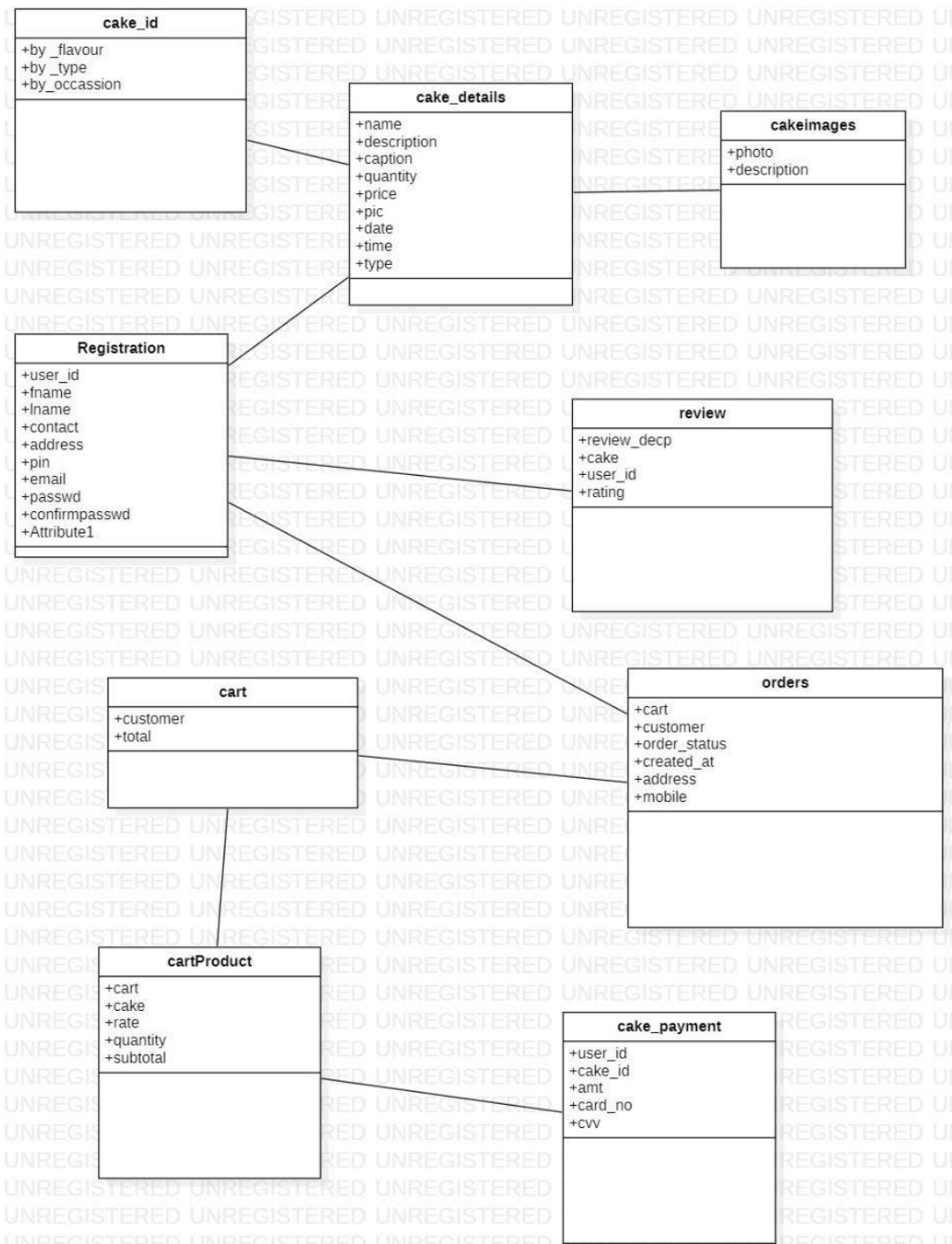
Database: Django integrates with various databases, allowing you to define and manage the application's data schema. You can use Django's Object-Relational Mapping(ORM) to interact with the database and perform CRUD operations.

6. Database Models

Django's models serve as both business logic entities and database models. They define the structure of the database tables and provide an abstraction layer for interacting with the database

DATABASE

CLASS DIAGRAM



6. CHALLENGES

Technical Knowledge Gap:

Developing a cake booking system may require expertise in various technologies, frameworks, and programming languages. Dealing with unfamiliar concepts or technologies can be challenging and may require additional learning and research.

Time Management:

Managing time effectively during the project can be a challenge, especially when dealing with multiple tasks, deadlines, and dependencies. Balancing different project components and allocating sufficient time to each can be crucial for timely project completion.

Dealing with Codes and Errors:

Working with complex codebases and troubleshooting errors can be challenging. Debugging and resolving issues requires strong problem-solving skills and a deep understanding of the code structure.

Integrating Third-Party Libraries:

Integrating third-party libraries or APIs into the project can be challenging due to compatibility issues, version conflicts, and documentation gaps. Proper integration and ensuring smooth communication between different components can be time-consuming.

Scalability:

Designing a system that can handle a growing number of users, increase data volumes, and expand functionality requires careful consideration of scalability. Ensuring the system can handle future growth without compromising performance can be a challenge.

Learning Curve:

Familiarizing oneself with new frameworks, tools, or programming languages can have a steep learning curve. Overcoming this learning curve and becoming proficient in new technologies can be time-consuming but crucial for successful project development.

7. FUTURE ENHANCEMENT

1. Improved User Experience:

Enhance the user interface and experience by adding interactive features such as search functionality, filters, sorting options, and pagination. Implement client-side validation to provide instant feedback to users when filling out forms.

2. Order Tracking:

Allow users to track the status of their orders in real-time. Provide updates on order processing, shipping, and delivery through email notifications or a dedicated order tracking page.

3. Payment Integration:

Integrate a secure payment gateway to enable users to make online payments for their orders. Implement features like order confirmation emails, invoice generation, and handling payment errors.

4. Image Gallery:

Create an image gallery feature where users can view images of cakes, filter them by type or occasion, and view detailed descriptions. Add options for users to upload their cake images.

5. Improved User Experience:

Enhance the user interface and experience by adding interactive features such as search functionality, filters, sorting options, and pagination. Implement client-side validation to provide instant feedback to users when filling out forms

8. CONCLUSION

The Online Homemade Cake Booking System offers a convenient platform for customers to order homemade cakes online. With user registration, cake details management, user reviews, cake classification, shopping cart functionality, and secure payment processing, the system streamlines the entire cake ordering process. Users can easily browse cake options, add them to their cart, and place orders, while home bakers benefit from centralized order management. The system enhances customer satisfaction by providing transparency, personalized options, and efficient communication. Overall, this online cake booking system bridges the gap between customers and home bakers, improving the cake ordering experience for all parties involved.

9.REFERENCES

REFERENCES

<https://www.floweraura.com/cake-delivery/trivandrum>

<https://youtu.be/qdNhWIITZ0c>

Django Jazzmin Documentation:

<https://django-jazzmin.readthedocs.io/>

ANNEXURE

FIGURE 1 : Home page

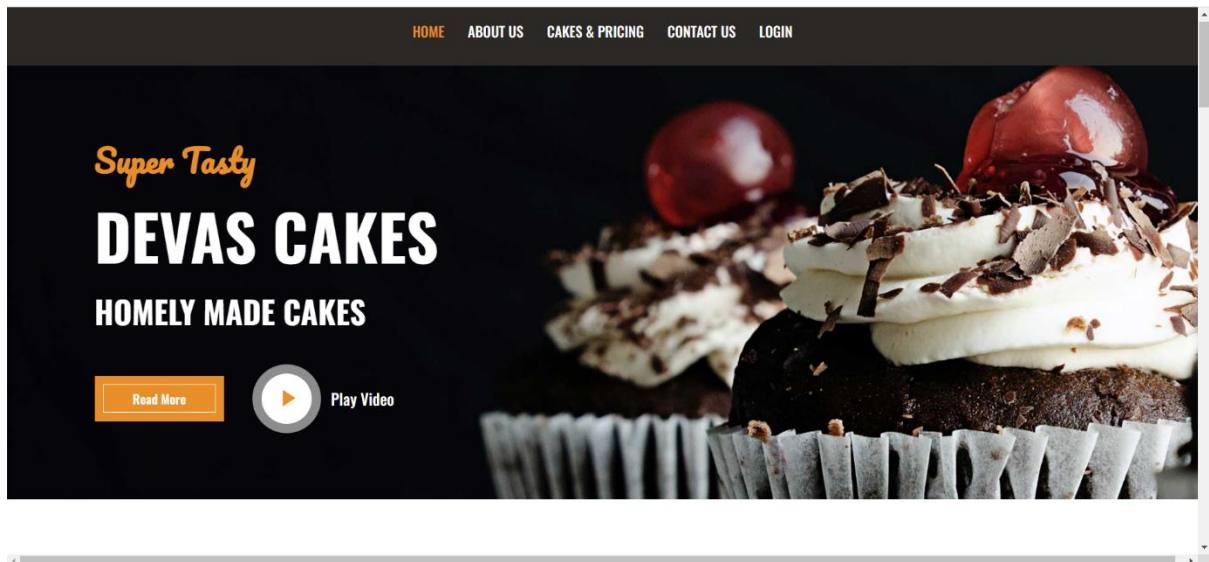


FIGURE 2:

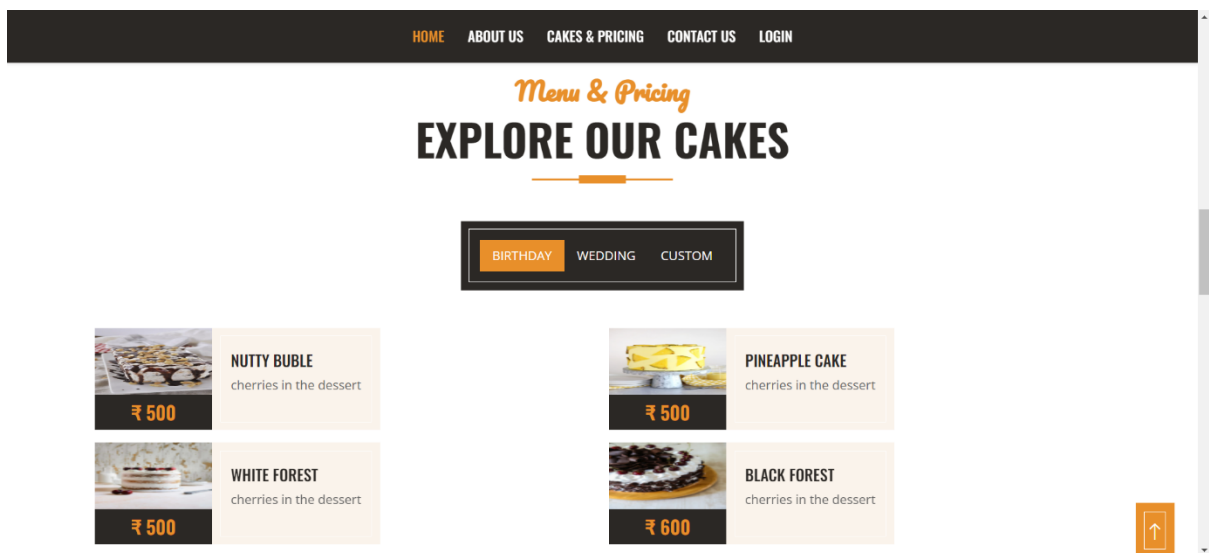


FIGURE-3

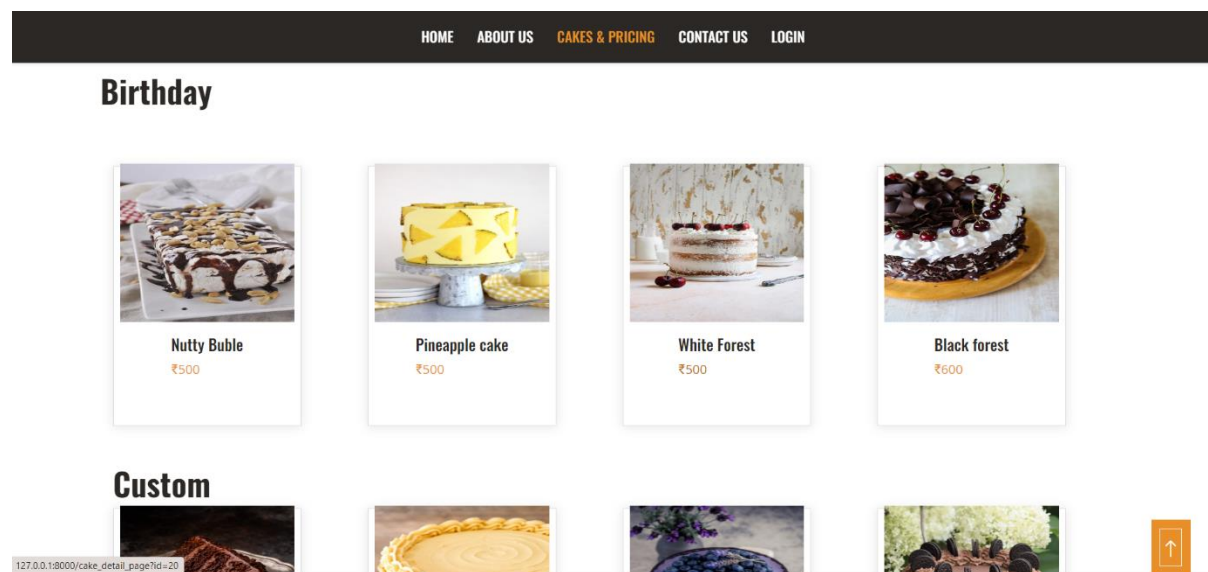


FIGURE-4

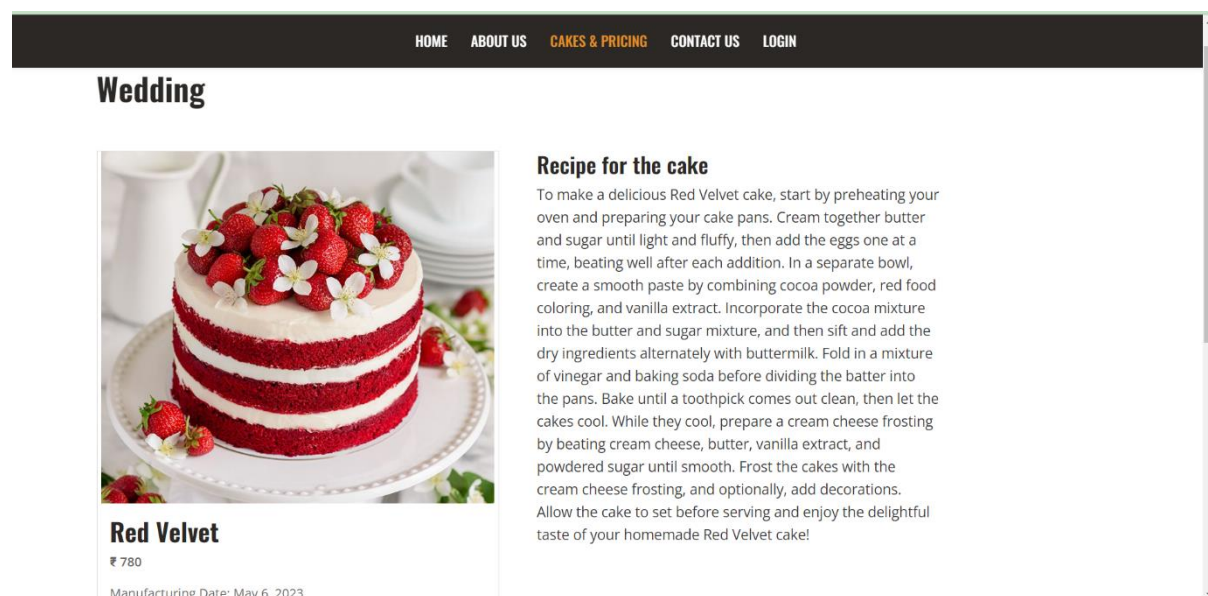


FIGURE-5 User login

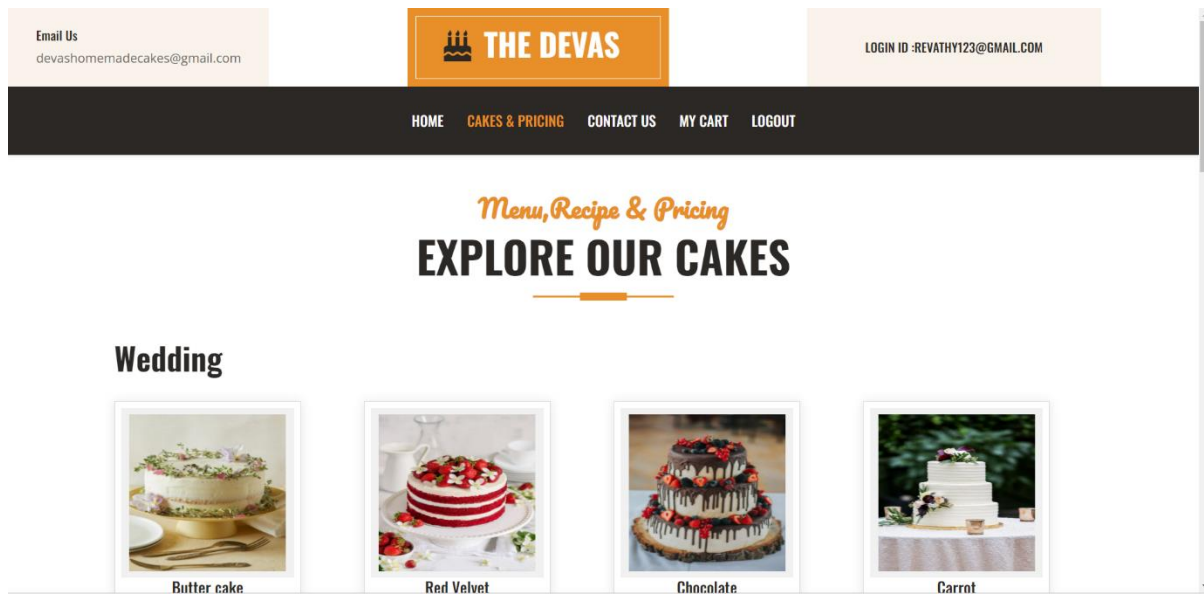


FIGURE-5 User Feedback

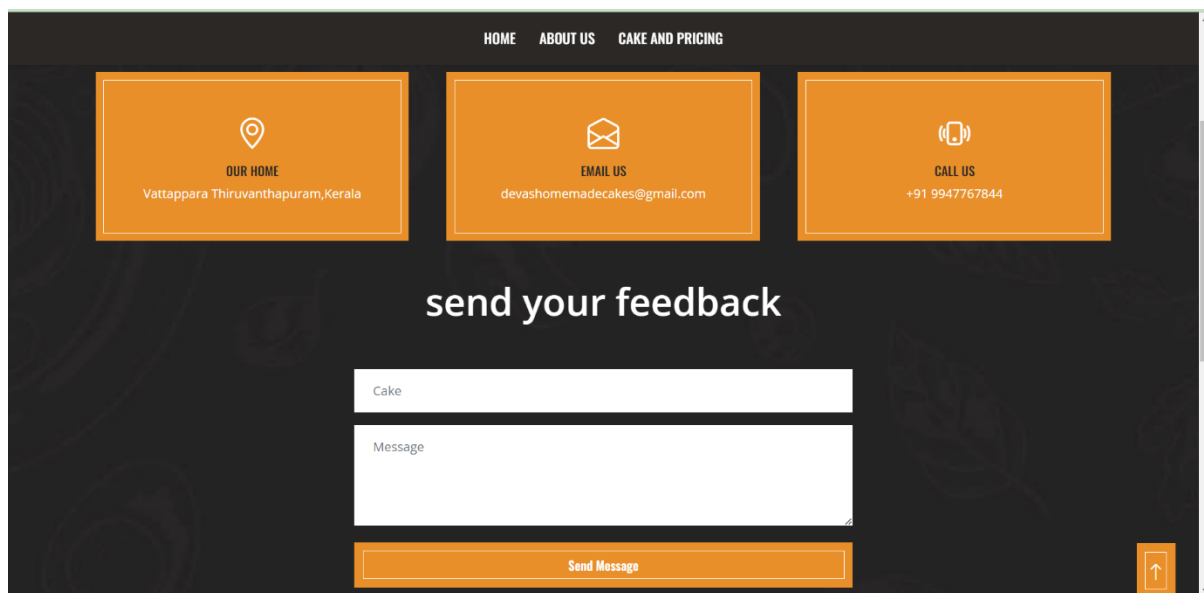


FIGURE -6 Shopping cart

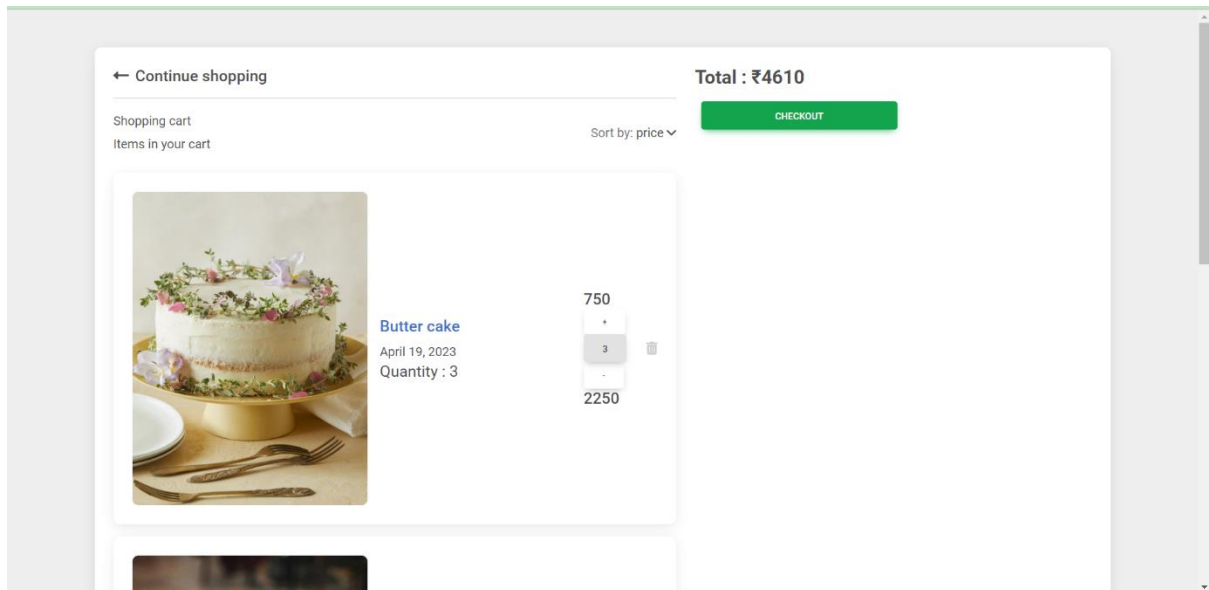


FIGURE -7 Order Summary

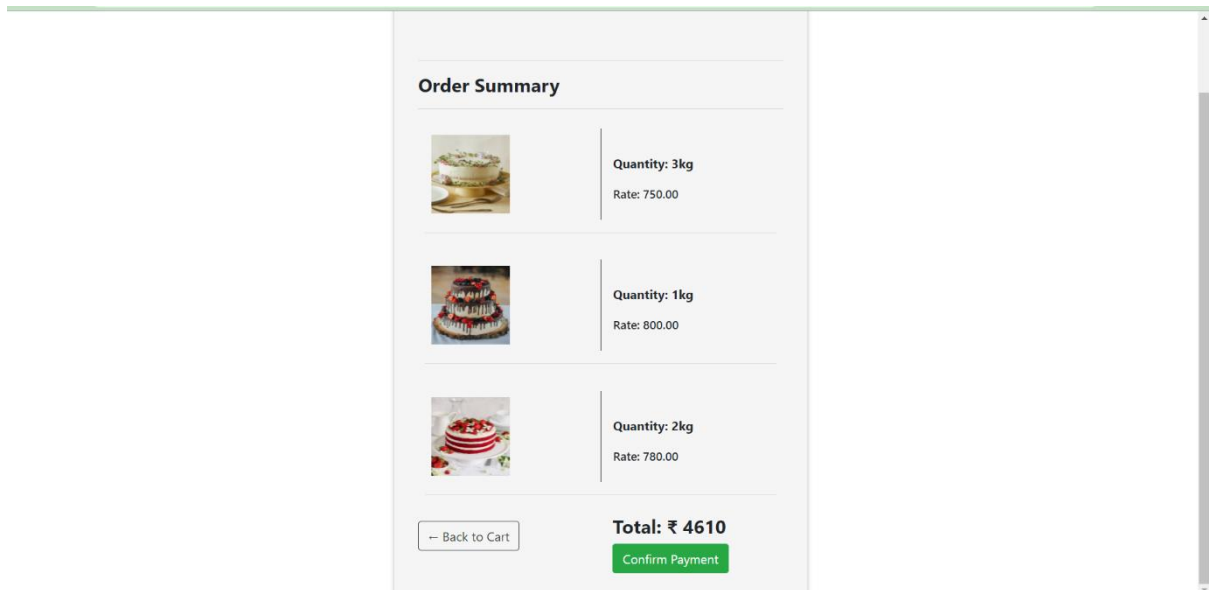


FIGURE-8 Order Form

Order Form

Name

Email

Address


Contact

Pin code

Total

[Submit](#)

FIGURE-9 Payment

←  **TEST MODE**

Revathy


₹4,330.00


Powered by [stripe](#) | [Terms](#) [Privacy](#)

Pay with card

Email

Card information





Name on card

Country or region


[Pay](#) 

FIGURE-10 Order Tracking

