

A Project Report
On

Online Pizza Shopping Portal

Submitted in Partial Fulfilment of
Bachelor of Sciences (Computer Science)
Semester IV

Savitribai Phule Pune University

Under Guidance of
Dr. Mrs. Madhuri Prashant Pant

Submitted By

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Seat No: **17705**

**Suryadatta College of Management Information
Research & Technology**



CERTIFICATE

This is to certify that Mr. Aditya Ajay Chandavale

Student of B.Sc. (CS) Semester IV having Seat No. 17705 at Suryadatta College of Management Information Research & Technology (SCMIRT), Pune has successfully completed the assigned Project titled Online Pizza Shopping Portal as per the norms of University of Pune During the academic year 2019 -20.

Internal Examiner

External Examiner

Project Guide

Principal

Place: Pune

Date:

Acknowledgement

I would like to express my special thanks of gratitude to my Professor **Dr. Madhuri Pant** as well as our Principal **Dr. Abbas Lokhandwala** who gave me the golden opportunity to do this wonderful project on the topic **Online Pizza Shopping Portal**, which also helped me in doing a lot of Research and it was a learning experience for me.

I would also like to thank my Course Coordinator **Professor Ritu Prasad** for providing the support and guidance about the technical issues.

Working on the project was very interesting & challenging. During the project development, I could also acquire extensive knowledge about Java Servlet Pages and Database queries.

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Introduction

A cafeteria or a pizza shop requires constant business for sustenance. The best option for them to generate more sales for a greater capital and increase in business is to sell their products online. The best way is to take the business online by registering on a food ordering website or by creating a personalized website. Creating a personal website with enabled payments gateway helps customers order online and the flexibility of transactions is made easier. The website also helps gather customer reviews and allows customers to view details of the food shop easily and at their leisure.

There are 3 ways for a customer to have his business website created.

First is to build the entire website from scratch by giving the project to a web-developer. This method is not time efficient and is costly.

Second is to build your own websites using online website builder tools. The drawbacks of using these methods is that you have to be computer friendly and must know the concept and applications used while building the website. This takes time as you have to first learn concepts.

The third and the easiest way is to make use of the ready to use template of the website. This project is build using these guidelines. This project is highly customizable and can be easily tailored for use and made ready to deploy in matter of hours. The website built can be easily hosted online using an Apache-Tomcat server.

Abstract Summary

Online Pizza Shopping Portal has many features like

Graphical food-menu chart

Managing the pizza names in the menu

Enabled payments gateway

Generating receipt for online payment

Since the customer wants an application which is Machine independent, this project is designed so that it can run across multiple operating systems which are Linux based as well as Windows based and multi browser support.

The system developed is user friendly and accessible from any device and there is no need to give additional training to the user.

Existing System and Need for New System

Existing System

Today a new start up Pizza Café has to maintain all the data offline and they have no facility of online ordering like popular food chains (Pizza Hut, Dominos etc.). Online Pizza Shopping Portal project is created to maintain all the data and upgrading the café to online business.

Need for the new system

Customer wants an application which will run on any machine, the project is designed so that it can run across multiple operating systems which are Linux based as well as Windows based and multi browser support. That's why the concept of JSP (Java Server Pages), has been implemented during this project. The aim of this project is to monitor and maintain data of a Pizza Cafe.

The purpose of this project is to learn the new technologies like JSP, HTML, CSS and so on. If the client wants to add, modify or change any particular module from his perspective, it is possible due to the portability and easy to customize nature of the project.

Scope of Work

The Scope of the project is as follows:

Client can sell pizzas to their customers through this online website. It provides the customers convenient way to order pizza sitting at their home or from any other convenient place by using their laptops / computers. Clients can use this website to increase sales of their stores. This website makes it easy for user to buy pizza from the store with easy steps.

FEATURE OF WEBSITE:

- Classified Products
- Easy add to cart with one click item
- Manage Orders
- Manage Products
- Enabled payments gateway
- Generating receipt for online payment

Product Requirements

1. Graphical representation of the food products.
2. Online Payment facility.
3. Simple interactive / user friendly system.

Process Requirements

Process requirements are how people interact with the product and how product is responding to the people. This product is user friendly and all of the features developed are GUI interaction friendly therefore there is no need to take the extra efforts to learn to interact with the product.

Requirement Analysis

Software requirement is a functional or non-functional need to be implemented in the system. Functional means providing particular service to the user. Software requirement can also be a non-functional, that is, it can be a performance requirement.

1. Business requirements

Business requirements are the high-level requirements that are taken from the business case from the projects. As the purpose of this project is not from the perspective of business, it is only used for the college requirement. This product is not for sell, it is only useful for college academic purposes.

2. Design requirements

These requirements are more detailed than business requirements. It determines the overall design required to implement the business requirement.

For this project, the design requirements are GUI based like,

Implementation of menu page

Payment gateway page

Receipt Generation for Online Payment

For example:

- a. Admin registration:* This use case describes how admin can login into web-application.
- b. Dashboards:* In this, it describes about the dashboards of the web application when user uses to our app. In this how the design of the dashboard is to be done and how it is used to make user-friendly.
- c. Graphical food menu pages:* This use case is required to show the pizza menu.

3. Software's & Hardware's requirement (Project setup requirements)

Software requirements:

- a. Tomcat Server* – To run JSP scripts.
- b. Notepad++* - To write codes and scripts.
- c. Browser*– Any browser on which the web application will run.
- d. JDK (1.8)*– Java Development Kit

e. Platform – Windows/Linux

f. PostgreSQL server – To store data securely in a database

Hardware requirements:

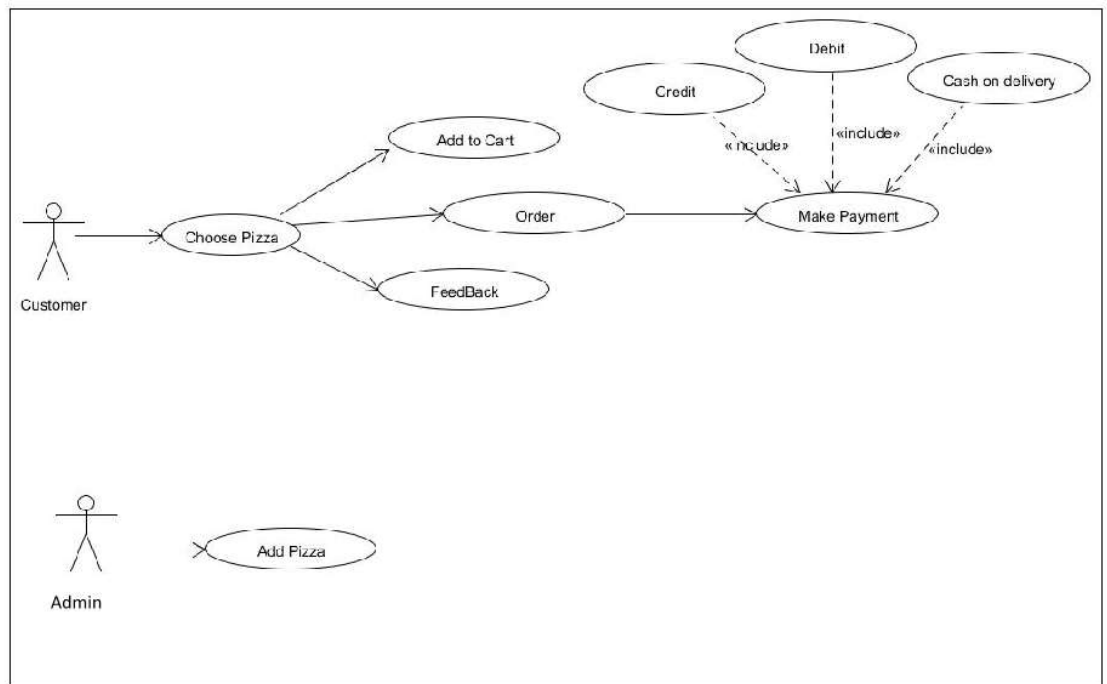
a. Intel Pentium or more

b. 2 GB RAM

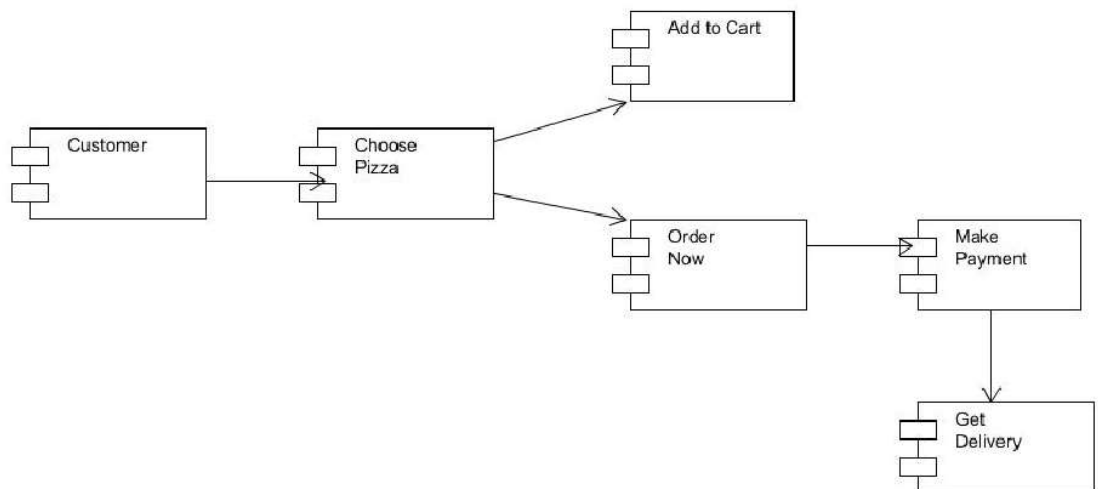
c. PC with 80 GB ROM

System Design

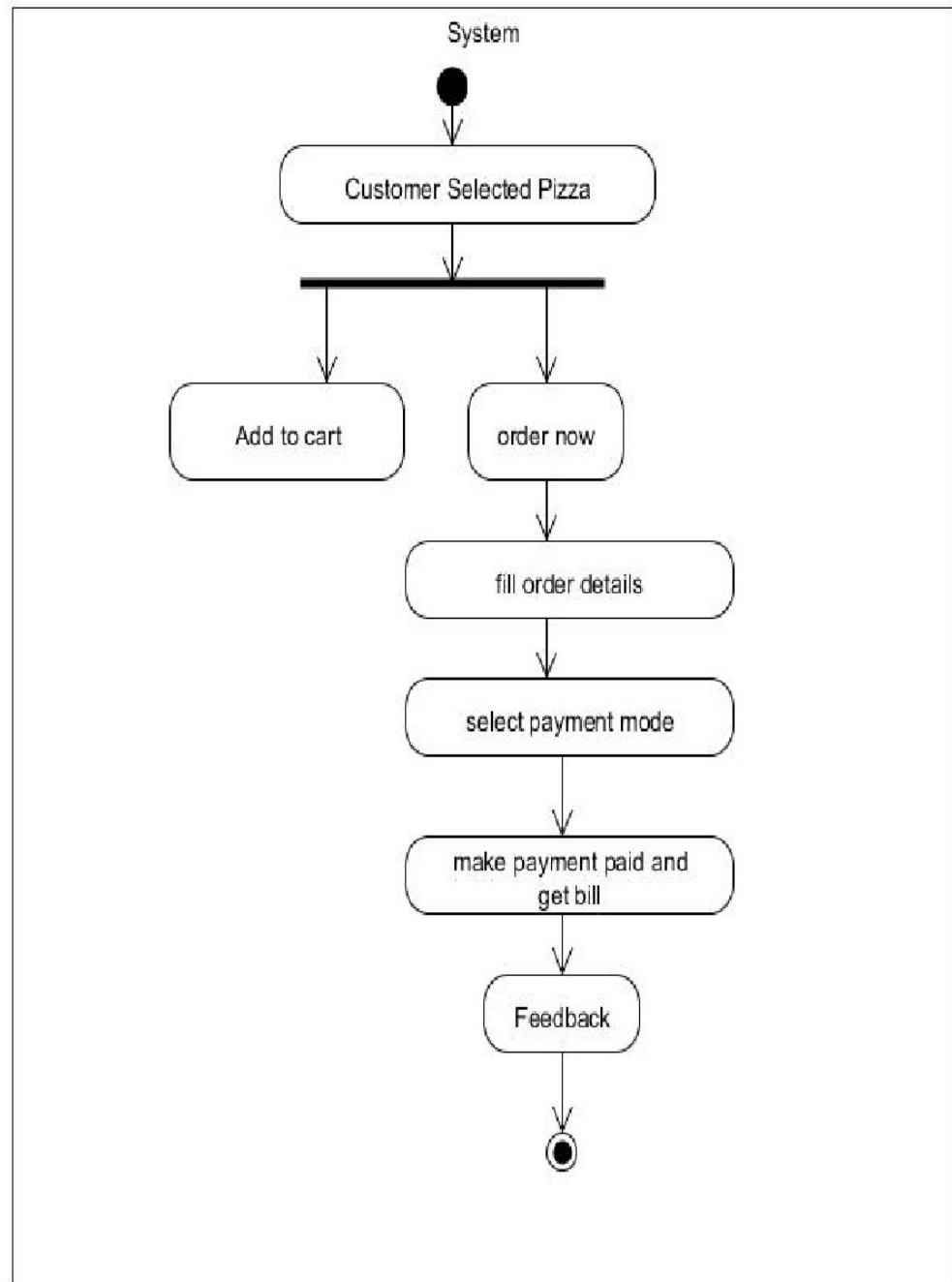
Use Case Diagram



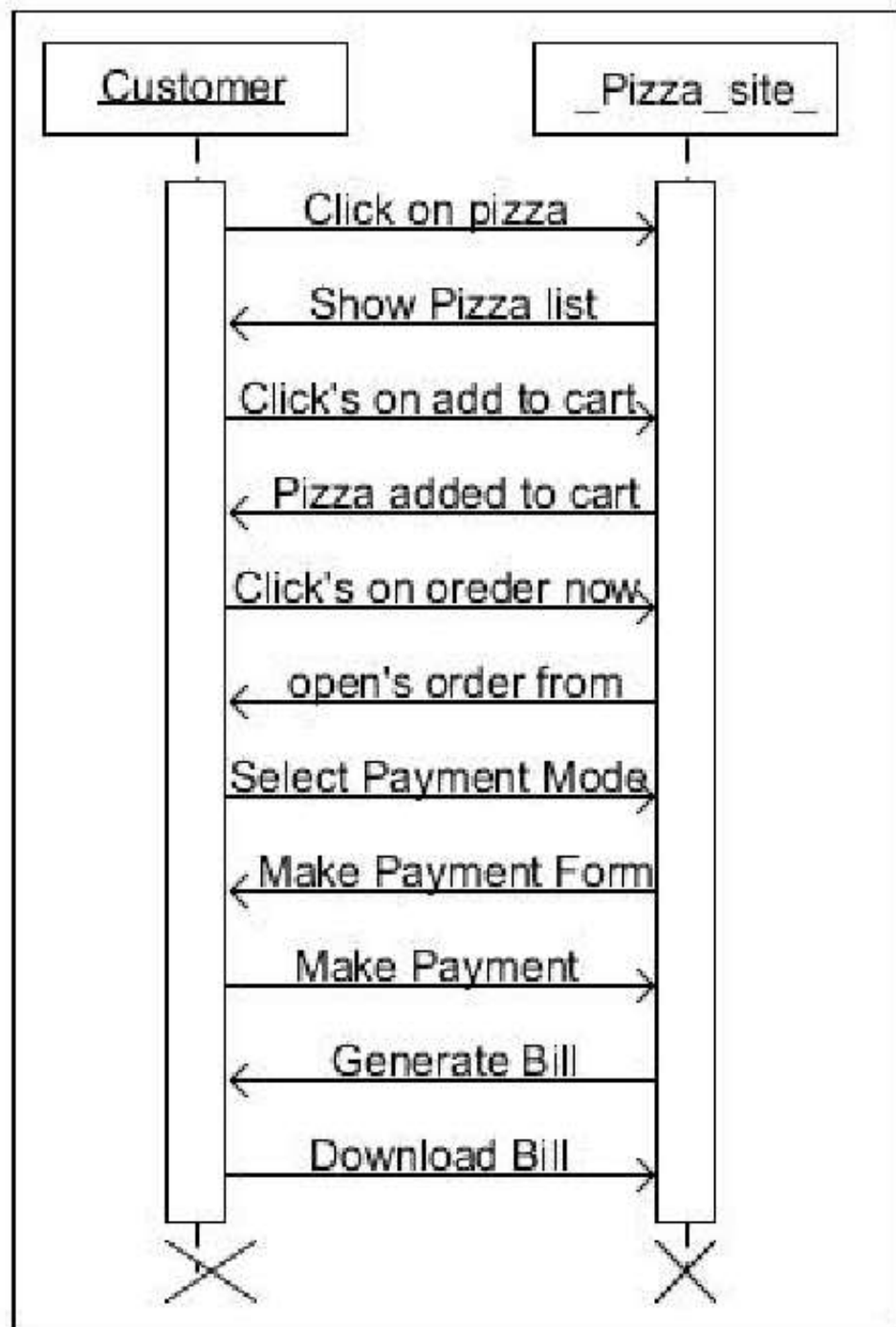
Component Diagram



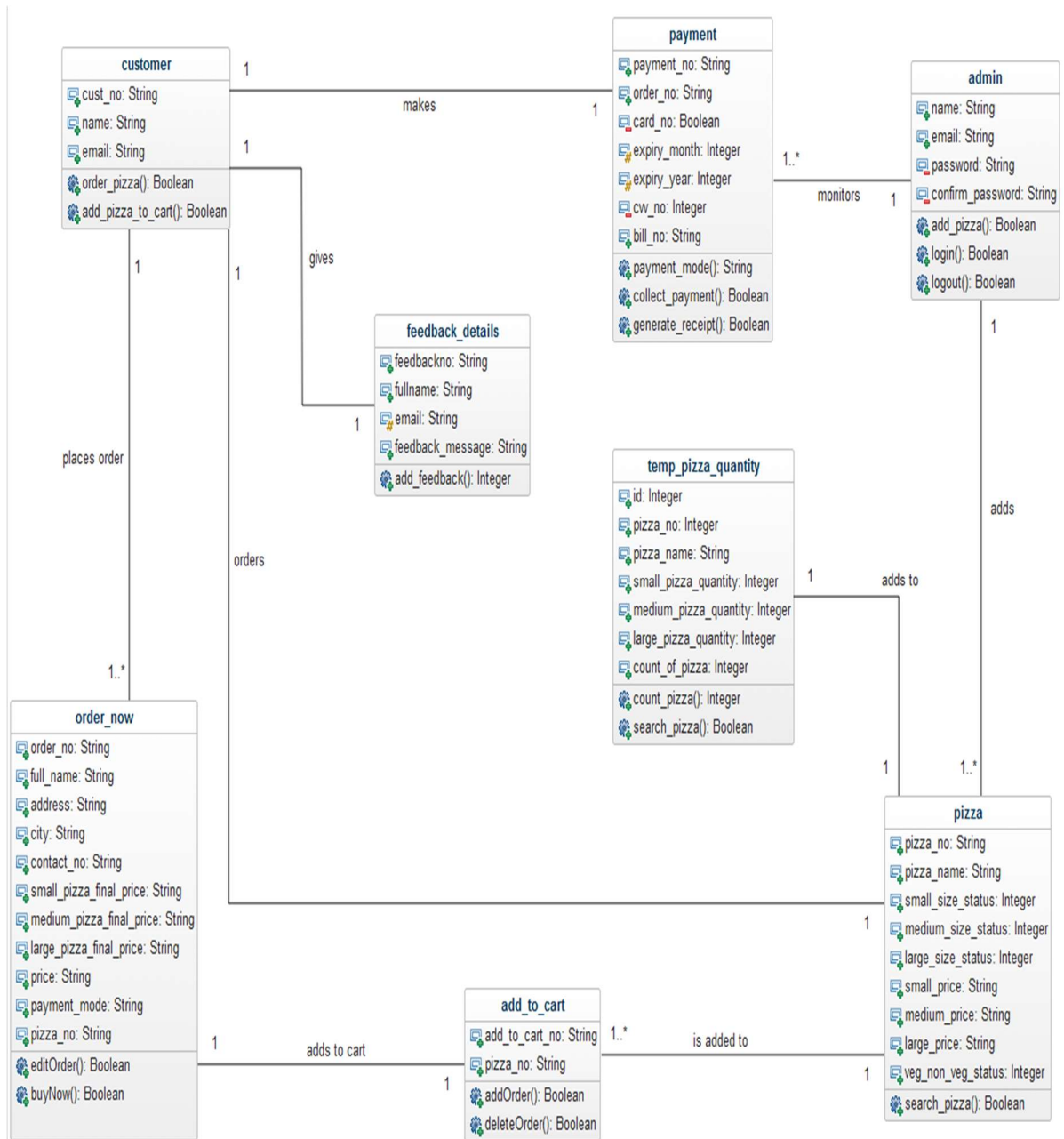
ActivityDiagram



Sequence Diagram



Class Diagram



Database Design

List of relations

```
online_pizza_shopping=# \d
```

List of relations			
Schema	Name	Type	Owner
public	add_to_cart	table	postgres
public	admin	table	postgres
public	customer	table	postgres
public	feedback_details	table	postgres
public	order_now	table	postgres
public	payment	table	postgres
public	pizza	table	postgres
public	temp_pizza_quantity	table	postgres
public	temp_pizza_quantity_id_seq	sequence	postgres

(9 rows)

```

online_pizza_shopping=# \d add_to_cart
               Table "public.add_to_cart"
   Column      |      Type      | Modifiers
-----+-----+-----
 add_to_cart_no | character varying(10) | not null
   pizza_no     | character varying(10) |
Indexes:
    "add_to_cart_pkey" PRIMARY KEY, btree (add_to_cart_no)
Foreign-key constraints:
    "add_to_cart_pizza_no_fkey" FOREIGN KEY (pizza_no) REFERENCES pizza(pizza_no) ON UPDATE CASCADE ON DELETE CASCADE

```

```

online_pizza_shopping=# \d admin
               Table "public.admin"
   Column      |      Type      | Modifiers
-----+-----+-----
   name        | character varying(50) |
  email        | character varying(50) |
 password      | character varying(50) |
 confirmpassword | character varying(50) |

```

```

online_pizza_shopping=# \d customer
               Table "public.customer"
   Column      |      Type      | Modifiers
-----+-----+-----
  cust_no      | character varying(10) | not null
   name        | character varying(50) |
  email        | character varying(50) |
 password      | character varying(50) |
 confirmpassword | character varying(50) |
Indexes:
    "customer_pkey" PRIMARY KEY, btree (cust_no)

```

```
online_pizza_shopping=# \d feedback_details
```

```
Table "public.feedback_details"
```

Column	Type	Modifiers
feedbackno	character varying(10)	not null
fullname	character varying(100)	
email	character varying(30)	
feedback_message	character varying(400)	

```
Indexes:
```

```
"feedback_details_pkey" PRIMARY KEY, btree (feedbackno)
```

```
online_pizza_shopping=# \d order_now
```

```
Table "public.order_now"
```

Column	Type	Modifiers
order_no	character varying(10)	not null
full_name	character varying(60)	
address	character varying(100)	
city	character varying(40)	
contact_no	character varying(10)	
small_pizza_final_price	character varying(100)	
medium_pizza_final_price	character varying(100)	
large_pizza_final_price	character varying(100)	
price	character varying(100)	
payment_mode	character varying(20)	
pizza_no	character varying(100)	

```
Indexes:
```

```
"order_now_pkey" PRIMARY KEY, btree (order_no)
```

```
Referenced by:
```

```
TABLE "payment" CONSTRAINT "payment_order_no_fkey" FOREIGN KEY (order_no) REFERENCES order_now(order_no) ON UPDATE CASCADE ON DELETE CASCADE
```

```
online_pizza_shopping=# \d payment
```

```
Table "public.payment"
```

Column	Type	Modifiers
payment_no	character varying(10)	not null
card_no	character varying(16)	
expiry_month	integer	
expiry_year	integer	
cvv_code	integer	
order_no	character varying(10)	

```
Indexes:
```

```
"payment_pkey" PRIMARY KEY, btree (payment_no)
```

```
Foreign-key constraints:
```

```
"payment_order_no_fkey" FOREIGN KEY (order_no) REFERENCES order_now(order_no) ON UPDATE CASCADE ON DELETE CASCADE
```

```

online_pizza_shopping=# \d pizza
               Table "public.pizza"
   Column   |      Type      | Modifiers
-----+-----+-----
pizza_no    | character varying(10) | not null
pizza_name  | character varying(30) |
small_size_status | integer          |
medium_size_status | integer          |
large_size_status | integer          |
small_price  | double precision  |
medium_price | double precision  |
large_price  | double precision  |
veg_non_veg_status | integer          |
Indexes:
    "pizza_pkey" PRIMARY KEY, btree (pizza_no)
Referenced by:
    TABLE "add_to_cart" CONSTRAINT "add_to_cart_pizza_no_fkey" FOREIGN KEY (pizza_no) REFERENCES pizza(pizza_no) ON UPDATE CASCADE ON DELETE CASCADE

```

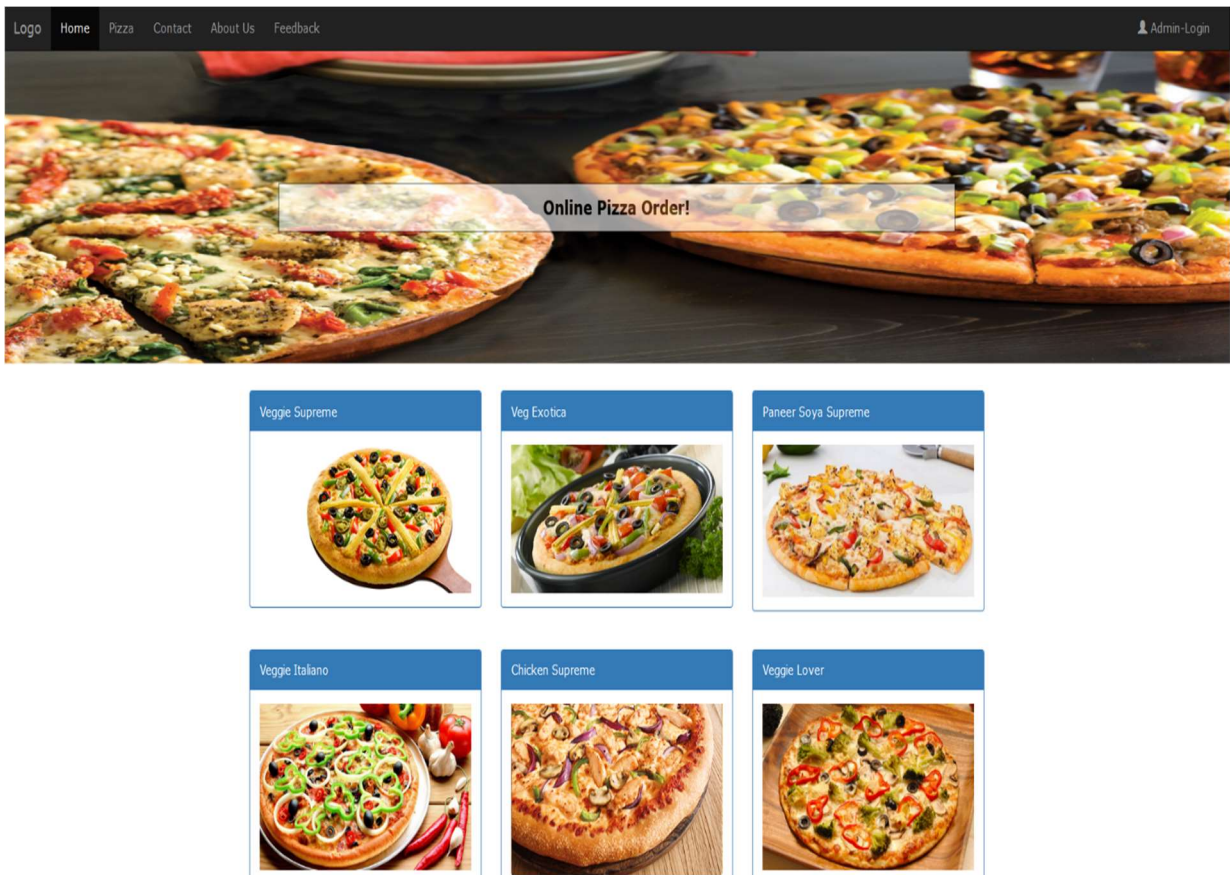
```

online_pizza_shopping=# \d temp_pizza_quantity
               Table "public.temp_pizza_quantity"
   Column   |      Type      | Modifiers
-----+-----+-----
id          | integer        | not null default nextval('temp_pizza_quantity_id_seq'::regclass)
pizza_no    | character varying(10) |
pizza_name  | character varying(100) |
small_pizza_quantity | integer          |
medium_pizza_quantity | integer          |
large_pizza_quantity | integer          |
count_of_pizza | integer          |

```

Input And Output Screens

Home Screen




Pizza List Screen

Order Now							
Sr. No.	Select	Pizza Name	Small	Medium	Large	Veg/Non-Veg	Add to Cart
1	<input type="checkbox"/>	Margherita	₹99	₹195	₹395	Veg	 Add
2	<input type="checkbox"/>	Double Cheese Margherita	₹155	₹295	₹445	Veg	 Add
3	<input type="checkbox"/>	Cheese n Corn	₹155	₹295	₹445	Veg	 Add
4	<input type="checkbox"/>	Paneer Makhani	₹155	₹295	₹445	Veg	 Add
5	<input type="checkbox"/>	Fresh Veggie	₹155	₹295	₹445	Veg	 Add
6	<input type="checkbox"/>	Peppy Paneer	₹195	₹365	₹545	Veg	 Add
7	<input type="checkbox"/>	Framhouse	₹195	₹365	₹545	Veg	 Add
8	<input type="checkbox"/>	Veggie Paradise	₹195	₹365	₹545	Veg	 Add
9	<input type="checkbox"/>	Pepper	₹230	₹440	₹655	Veg	 Add
10	<input type="checkbox"/>	Veg Extravaganza	₹230	₹440	₹655	Veg	 Add
11	<input type="checkbox"/>	Delux Veggie	₹230	₹440	₹655	Veg	 Add
12	<input type="checkbox"/>	Regular Medium	₹155	₹295	₹455	Non-Veg	 Add
13	<input type="checkbox"/>	Pepper Barbecue	₹155	₹295	₹455	Non-Veg	 Add
14	<input type="checkbox"/>	Chicken Sausage	₹155	₹295	₹455	Non-Veg	 Add
15	<input type="checkbox"/>	Chiken Tikka	₹195	₹365	₹545	Non-Veg	 Add
16	<input type="checkbox"/>	Peri Peri Chicken	₹195	₹365	₹545	Non-Veg	 Add
17	<input type="checkbox"/>	Chicken Fiesta	₹230	₹440	₹655	Non-Veg	 Add

Customer Details Screen

[Logo](#) [Home](#) [Pizza](#) [Order Now](#) [Admin-Login](#)



Order Now

Full name: First Middle Last

Address: Address with pincode

City: City

Contact No: Contact No

Pizza Size

Pizza Name	Small Quantity	Medium Quantity	Large Quantity
------------	----------------	-----------------	----------------

Save

Payment Mode

☐ Credit/Debit Card

☐ Cash on Delivery

Order Now

Invoice Screen

INVOICE

Pizza Bill

From: Aditya Chandavale

Address: Pune, Maharashtra, India

City: Pune


Sr. No.	Pizza Name	Total
1	Margherita	395.0

Final Total Amount: 395.0

* Total amount is inclusive of all taxes

Logout

Payment Screen



Payment Details

Remember

CARD NUMBER

1234123412341234

ENTER EXPIRY DATE

12

12

CV CODE

...


Final Payment Amount

704.0

Pay

Admin Login Screen

Admin Login

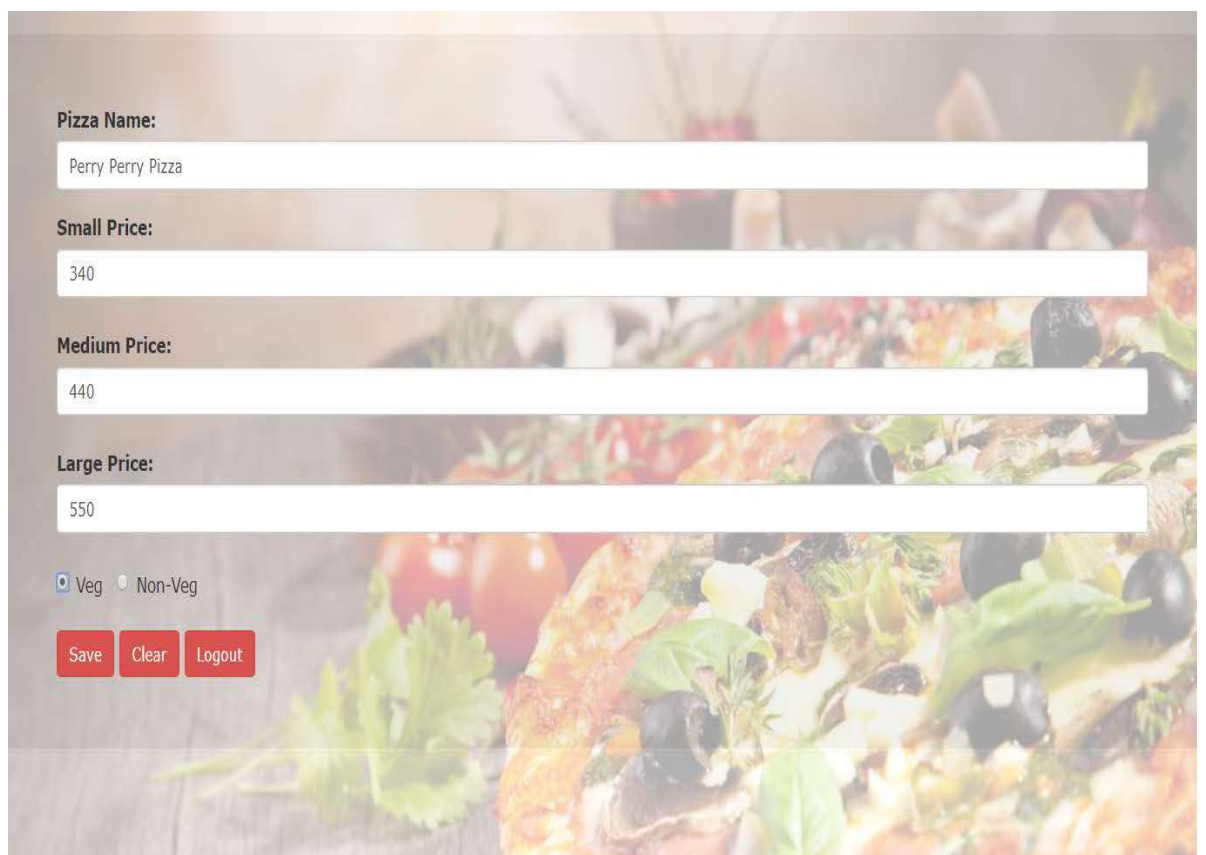


Admin Login

Email:

Password:

New Pizza Add Screen



Pizza Name:

Small Price:

Medium Price:

Large Price:

☒ Veg ☐ Non-Veg

Customer Feedback Form Screen

[Logo](#) [Home](#) [Pizza](#) [Contact](#) [About Us](#) [Feedback](#) [Admin-Login](#)

Feedback

Please take a moment to tell us what you think about our website, our products, our organization, or anything else that comes to mind. We welcome all of your comments and suggestions that will help us serve you better. And...please visit us often!

Full Name:

Email:

Feedback Message:

Write something...

Submit Feedback

Reset

About Us Display Screen

[Logo](#)[Home](#)[Pizza](#)[Contact](#)[About Us](#)[Feedback](#)[Admin-Login](#)

About Us

"Unless you are a pizza, the answer is 'Yes', I can live without you!"

Living alone from our families in a distant city, Pizza has been our 'go to' friend for all occasions and also for no occasions. And more we eat it, more we love it. For us it is our Pizza. This love for pizza took us to various pizza places and we tried a number of authentic and exotic preparations. While we always enjoy the experience but more we went about it, more we realized that there was something missing. We could not point it out but the experience was not complete, was not wholesome. Only after visiting a lot of places and discussing with more pizza lovers did we realize that what had been haunting us for long was 'lack of toppings' in a pizza. True flavour of pizza lies in its delicious toppings and there is no bigger crime than holding back toppings from a Pizza! We tried searching for reason but it led us nowhere. But we wanted more of those lovely toppings in our pizza. So, we decided to take it upon ourselves to create what we want the way it is supposed to be. We spoke to some of the best Pizza chefs around, sourced the highest quality ingredients from different places round the country, and after months of research, and then innumerable trials, were we able to craft a Pizza that we would love to eat. And we called it Pizza. We now bring to you a pizza hand rolled with precision, overflowing with cheese and loaded with your favourite toppings! So, get your Pizza delivered to your doorstep and enjoy a warm box of goodness.

Contact Details Screen

Contact Us

✉ Email - hello@mojopizza.in

☎ Call - 022-33252828

Kasarwadi

No. 548, 22nd Cross 14th Main Road HSR Layout Sector - 3
Kasarwadi, Pune - 411008

Sadashiv Peth

Bajirao road, Near Yewale Amrutatulya. Sadashiv Peth, Pune -
411022

Bibliography

References

1. <https://www.w3schools.com>
2. <https://www.studytonight.com>
3. <https://www.journaldev.com>
4. Java The Complete Reference – Herbert Schildt
5. Java a Primer – E Balagurusamy

Future Enhancements

1. Live food delivery tracking.
2. Generate daily sales reports.