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Software Requirement Engineering (Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology)

Software Requirements Specification

For

<Italian Pizza shop >

Version 1.0 approved

Prepared by <Esha Amer, Mah Noor Ghaffar>

<Szabist Islamabad>

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Revision History

Name	Date	Reason For Changes	Version
Esha Amer	30 May-22	Added Document conventions	1.2
Mah Noor Ghaffar	30 May-22	Added Intended Audience and Reading Suggestions,	1.3

1. Introduction

Italian Pizza's online ordering system was designed to help restaurant owners sell their products. This is not just a simple online store it has special functions for pizza restaurants to support sales. A pizza delivery system may be a web-based totally software that enables customers to order their pizzas online for home shipping or pickup from the Italian Pizza. Each us has its kind of dishes to supply. But if we detect a meal hat is loved by using all the citizenry on this planet, then pizzas are going to be a transparent winner in it. This SRS is formed to briefly describe the necessities of the assignment of online pizza ordering and the utilization of talking marketers. it'll inform us about all the wants for creating this task. The ventures are going to be supported Web Publishing System. The system presents an interactive and up-to-date menu with all available options in an easy-to-use manner.

1.1 Purpose:

A pizza delivery gadget is a web-based utility that allows clients to order their pizzas online for domestic shipping or choose from Italian pizza. An online ordering and delivery system provides a complete sales channel for the restaurant. It also allows restaurant owners to save on labor costs and restaurant space needed to serve such customers. This SRS is formed to briefly describe the wants of the project of online pizza ordering. it'll inform us approximately all of the necessities for making this project. The challenge could be based totally on Web Publishing System.

1.2 Document Conventions

The entire document has to be justified.

Conventions of the main title:

- Font Face: Times New Roman
- Font style: Bold
- Font Size: 14

Conventions for Subtitle:

- Font Face: Times New Roman
- Font style: Bold
- Font Size: 12

Conventions for the body:

- Font Face: Times New Roman
- Font Size: 12

Conventions for Model and Diagrams:

- Font Face: times
- Font style: Bold
- Font Size: 10

1.3 Intended Audience and Reading Suggestions

The software requirement specification (SRS) is written for an additional widespread market, but this document is meant for people directly concerned with the development of the system. This includes software developers, undertaking specialists, and team managers. This record need not be examined sequentially; customers are advocated to leap to any phase they find applicable.

1.4 Product Scope

The online Italian pizza system is web software that permits new users:
• To location their orders online.
• The retailer's agent had accomplished the identical task when a user calls to them to location an order.
• The sellers can also view complaints & edit orders.
• The management can upload marketers & retailers on the device & can view income reviews of an outlet.
• the knowledge approximately saves and each pizza is additionally furnished.

1.5 References

- **https://italianpizza.com.pk/**
- **https://www.foodpanda.pk/restaurant/s7hx/dominos-pizza-f7/**

2. Overall Description:

This device replaces vintage Pizza Stores wherein plenty of crowd of human beings is there via online Pizza Store. The Online Pizza device utility will use the internet as the only technique In that users can order online Pizza and customize their Pizza or order from offers. Users can pay after delivery of Pizza or through online banking according to their motive of this document is to offer an in-depth description of the Online Pizza shop. This, machine offers a smooth way for the purchaser to buy the Pizza he/she needs without delay through the internet without traveling the shop.

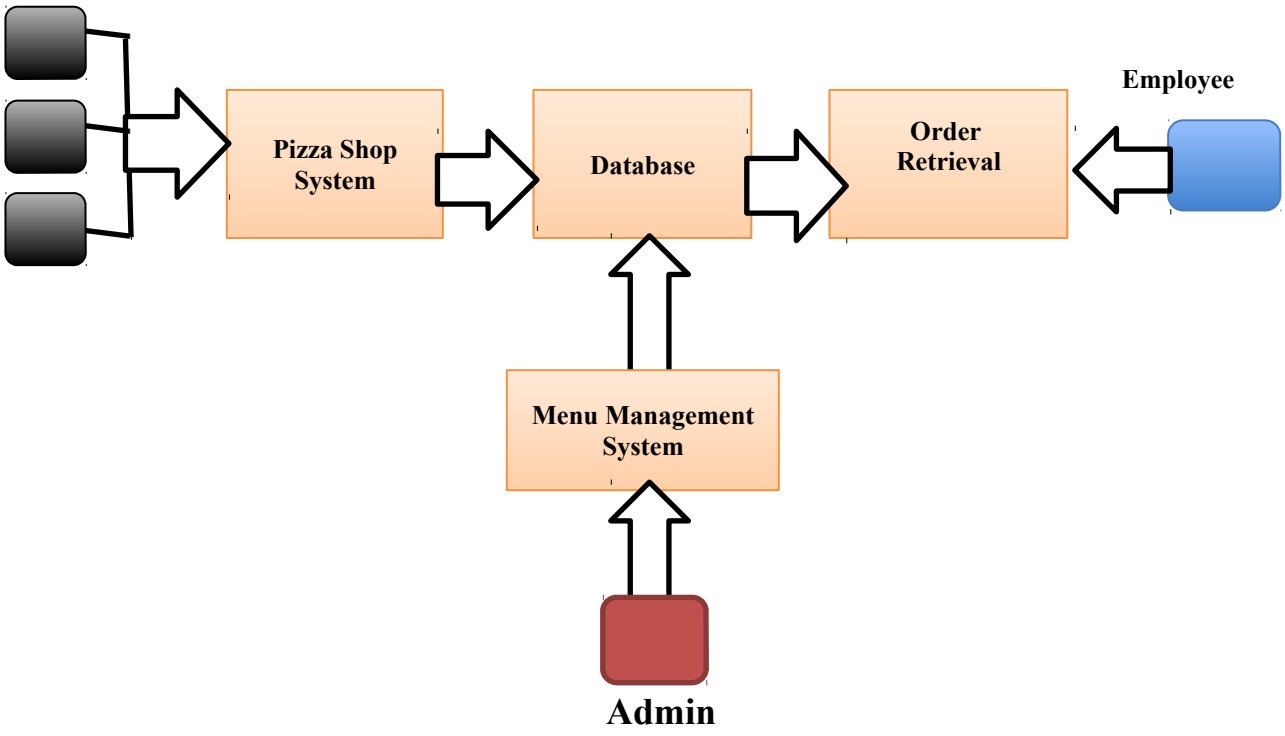
2.1 Product Perspective

This product is intended for those who don't want to go to the store because they don't have time or aren't interested in driving there and dealing with a lot of paperwork. The Online Pizza Shop app is a web-based application. The gadget must be able to deliver the equivalent of 100 watts of power.

Items may be ordered, shopped for, and canceled online. If you want to do an online transaction, you'll need to set aside some time. The buyer wishes to make a credit card payment through the internet. Customers may simply look up information about their items and may be willing to pay for their possessions. They must contact the administrator if any errors are discovered quickly and personally repair the error Firefox and Google Chrome are both capable of accessing it.

2.1.1 System Model:

Customers



The system's model is broken down into three parts:

- The Pizza Shop System: Allows customers to place their orders and provide relevant information.
- Menu management: enables the restaurant to limit what may be ordered with the help of consumers.
- The order retrieval system: helps the restaurant to keep track of all of the orders that have been placed.

This element takes care of order retrieving and displaying order information.

2.2 Product Functions

The main or basic functions of this online Pizza shop system are as follows:

2.2.1 We pizza shop system:

- Navigate the restaurant's menu
- Select their preferred option, such as ordering pizza just or checking out the specials.
- Add their item to their cart
- Review their purchase
- Choose a variant
- Place their order by providing their address, phone number, name, and city.
- Decide on a payment method
- Place your order

Additional Features:

- **Build or build your pizza:**
  This program will assist clients in placing unique pizza orders. As a result, the customer can choose exactly what he or she wants on their pizza. This will enhance the pizzeria's image, and customer pride may increase as a result.
- **Know When Your Order Will Be Delivered:**
  This device will show you when your order will be delivered to the customer. Customers can change the time they can pick up their orders for pick-ups.
- **Reduce paperwork:**
  Because the majority of tasks can be completed online, the pizzeria will use less paper.
- **Comments:**
  The user will have unrestricted access to provide candid feedback about their pizza and application, which will benefit the company.

2.2.2 Menu Management Module:

This module provides functionality for the optimum consumer-administrator combination. Other system users, such as restaurant employees or customers, will not have access to it. It will allow an Admin to control the menu that is displayed to users of the Online Pizza Shop system using a graphical interface, such as:

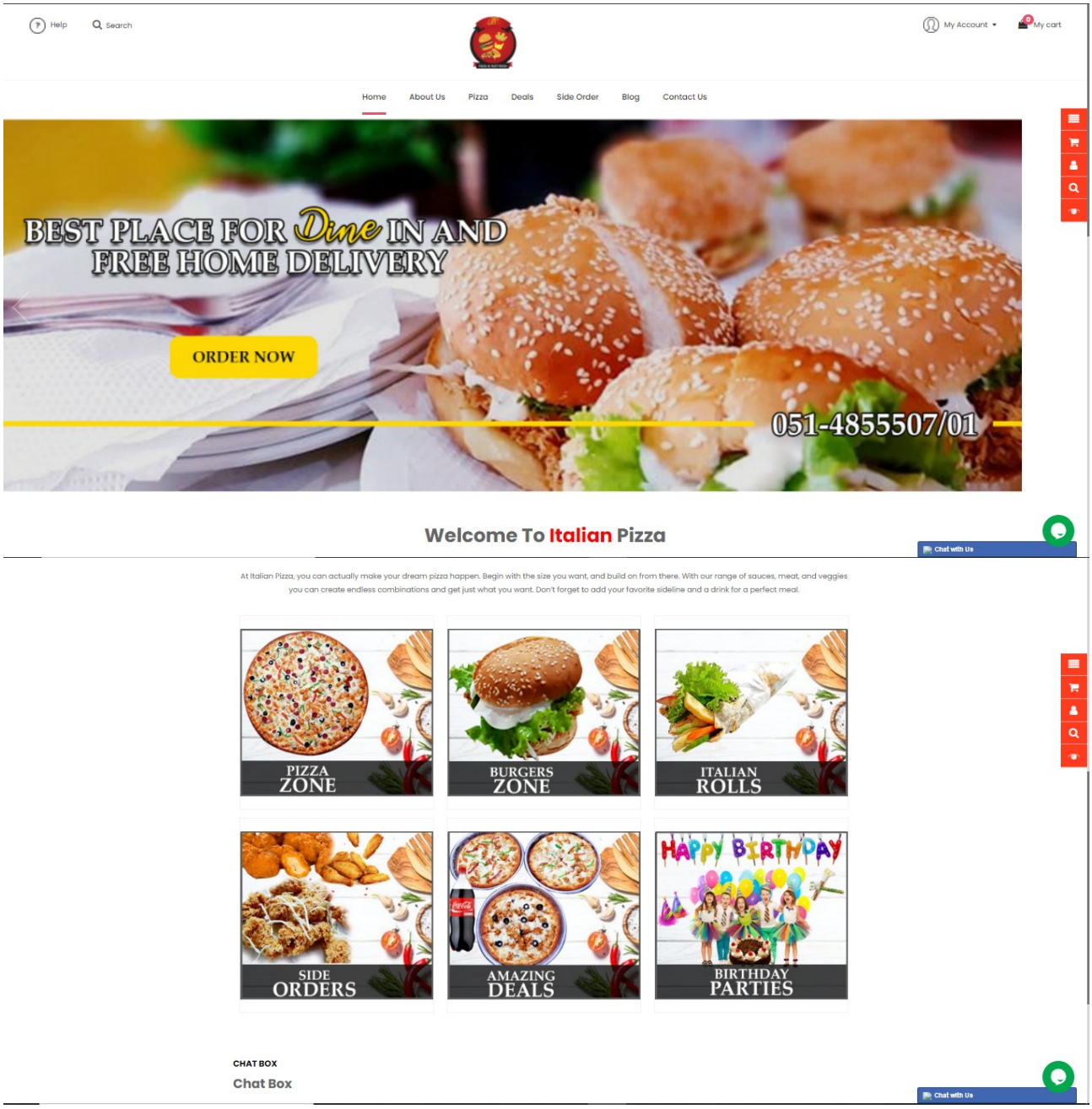
- Add/remove the Pizza category from/to the menu.
- You can add or remove any item from the menu.
- Adjust or update the prices of the items as needed.
- For each item, add or amend any additional information.

2.2.3 Order retrieval module:

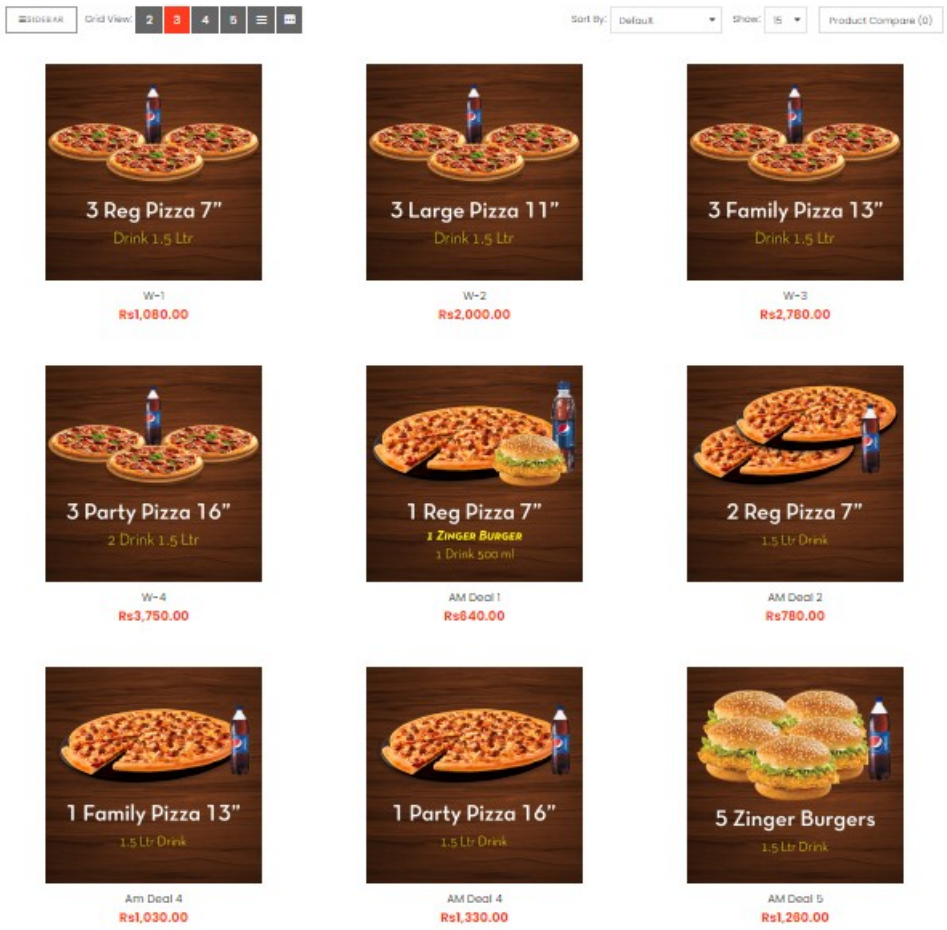
It's just for restaurant personnel to use, and it has the following features:

- Retrieve new orders
- Display orders in an easily accessible format

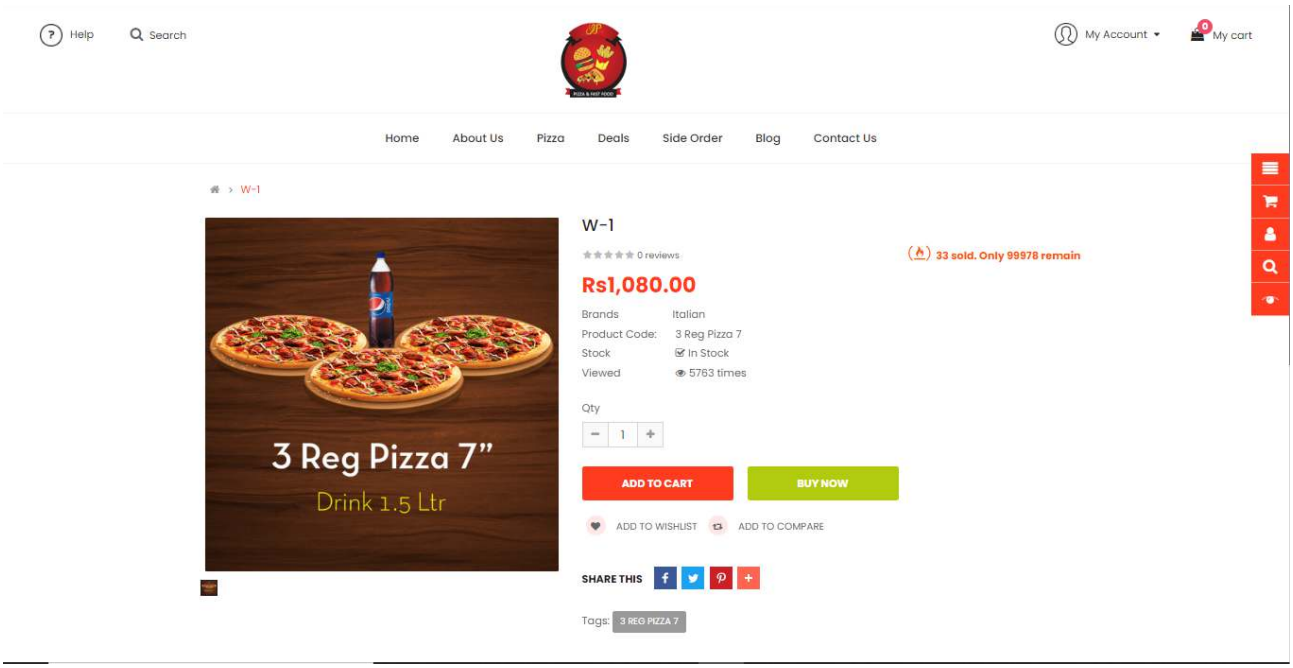
- **The primary or first page of our online Pizza shop system is shown below:**



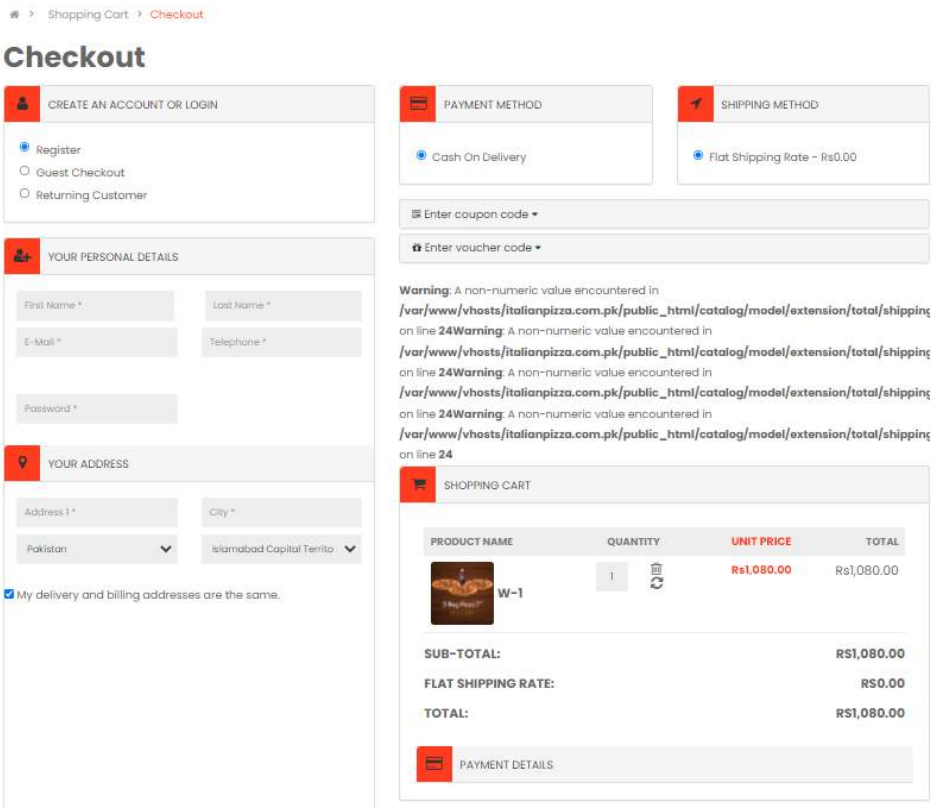
- **The user will pick "let me see the deals" and will be able to browse our menu and add their desired item to their cart.**



- **The customer can select the preferred variety, as well as any particular instructions and quantity.**



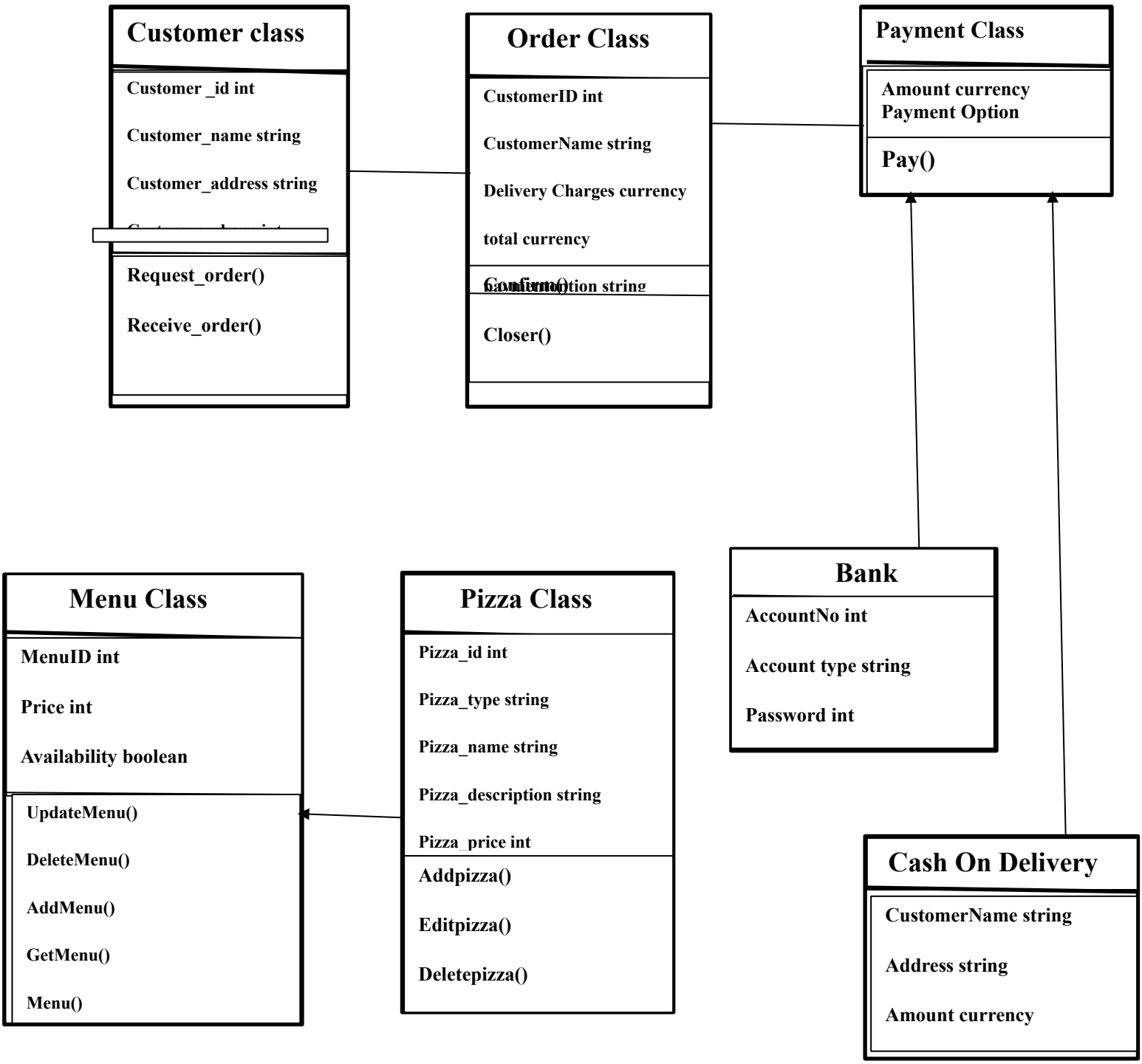
- **After picking an item, the customer must fill out the required information for the order and then click the "Check out" button, and the consumer can evaluate his or her order, check the total amount, and choose the payment method he or she prefers. After that, the user will select "Place order" and his or her order will be scheduled accordingly.**



2.3 User Classes and Characteristics

This software may be used by anyone with a basic understanding of computers. It's crucial to know how to use a mouse or keyboard, as well as a web browser and ordering system. The user interface will be user-friendly enough to guide the user.

2.3.1 Class Diagrams:



2.3.2 Classes of online Pizza shop:

- Pizza Class: Oversees all aspects of the pizza business.
- Order Class: Oversees all Order functions.
- Customer Class: Oversees all customer activities.
- Payment Class: Oversees all payment operations
- Menu Class: Oversees all menu operations

2.3.3 Classes and their Attributes:

- Pizza Attributes: Pizza_Id, Pizza_type, Pizza_name, Pizza_description, Pizza_price
- Order Attributes: Customer_Id, Customer_name, Delivery_charges, Total, Payment Option.
- Customer Attributes: Customer_id, Customer_name, Customer_address, Customer_phone.
- Payment Attributes: Amount, payment option
- Menu Class: Menu_id, Menu_price, availability

2.3.4 Classes and their Methods:

- Pizza Methods: AddPizza(), EditPizza(), DeletePizza()
- Order methods: Confirm(), Close()
- Customer Methods: RequestOrder(), ReceiveOrder()
- Payment Methods: Pay()
- Menu Methods: UpdateMenu(), DeleteMenu(), AddMenu(), GetMenu(), Menu()

2.4 Operating Environment

The software system's server-side components must work under a Linux operating system environment.

- Apple Safari 7+
- Google Chrome 44+
- Microsoft Internet Explorer 10+
- Mozilla Firefox 40+

are the minimum browsers that must be supported.

2.5 Design and Implementation Constraints

- Computers with Internet access are necessary.
- To place an order, customers will need to have access to the internet.
- The memory use of the program will be limited by the devices on which it will run. Android phones may have restricted memory because most tablets do.

- Safety and security
- English language, as it is the most widely spoken and understood language.
- The application should be written in Java and JavaScript, and it should be available through the Eclipse IDE at first, before being deployed on a server.

2.6 User Documentation

The following components of user documentation should be provided:

- Short tutorial video for customers and brands.
- User guides for food brands.
- For consumers, a user guide brochure

2.7 Assumptions and Dependencies

The following are the underlying assumptions:
It is expected that the user is familiar with both an internet browser and a computer figuring out how to use the keyboard and mouse Because the system is essentially an internet-based service. There is a requirement for a web browser. It is reasonable to presume that the users will be well-informed access to the internet.

3. External Interface Requirements:

The external interface requirements are one of the forms of functional requirements of an organization. Embedded systems rely on them. These requirements include user interfaces (interaction logic between software and user), screen layouts, buttons, functions on every screen, hardware interfaces (here a team describes what devices the software is created for), and other relevant particularities.

3.1 User Interface:

The application GUI provides menus, toolbars, buttons, and grids allowing for easy control by a keyboard and a mouse.

3.2 Hardware Interface:

Hardware interfaces for the system are as follows:
• Pentium Processor
• 60 MB of free hard-drive space
• 128 MB of RAM

3.3 Software Interfaces

• **Operating System:** Windows 7 or above which supports networking.
• **Web Browser:** IE 10 or above, Mozilla FF 31 and above, or Google Chrome
• **Drivers:** Java Runtime Environment

3.4 Communications Interfaces

• The Online Pizza Shop System will send an email message to the Patron to affirm acknowledgment of a request, cost, and conveyance directions.

• The two gatherings ought to be associated by LAN or WAN for correspondence reasons either through text or online entertainment.
• The System will send an email message to the Patron to report any issues with the dinner request or conveyance after the request is acknowledged.
• Conventions would be expected for secure correspondence and message encryption.

4.System Features:

Following are the major features of the system. A detailed description of each feature is given below:

4.1 System feature 1 – Order Meal:

4.1.1 Description:

The feature will allow customers to order Pizza from the website.

4.1.2 Response sequence:

• The system will show the user a menu. If any bargains are available, the system will display them.
• By selecting the "Add to cart" option, the user will select the meal he or she wants to order.
• The system places the meal in the user's cart and prompts them to "Continue order" or "Add another." meal.
• When you click Continue, the system will ask for your user information and payment method.
• The user clicks "Submit" after entering all of the information.
• After the order is placed, the system displays a confirmation message.
• The system navigates back to the main page.

4.1.3 Functional Requirement:

1. Cannot Order:

• System terminates the order.
• User cancels the order

2. Meal is not available:

• System sends a message for order delay due to no availability of meal.
• Order is not possible.

4.2 System feature 2 – Payment

4.2.1 Description:

The feature will allow the user to select a payment method i.e., credit card or cash.

4.2.2 Response sequence:

• After the order has been confirmed, the system prompts the user to choose a payment option.
• If the user chooses cash, the order is completed and the user is returned to the home page.
• If the user chooses to pay online with a credit card, the system displays various credit card possibilities.
• The user chooses the appropriate credit card.

• The credit card information is provided by the user.
• An OTP confirmation is sent by the system.
• The user enters the code and the app and bank send a confirmation message.

4.2.3 Functional Requirements:

1. Wrong Card No:

• The system displays an error notification indicating that the card number is incorrect.
• The system cancels the order.

2. Wrong OTP code:

• The system gives the consumer three chances to enter the right OTP code.
Italian Pizza Software Requirements Specification
• The system cancels the order.

4.3 System feature 3 - Track Order

4.3.1 Description:

The feature allows users to track their orders.

4.3.2 Response sequence:

• The system displays a "Track your Order" link once the order is confirmed and payment is completed.
• The order status and remaining time are displayed on the screen.

4.4 System feature 4 – Feedback/Rating

4.4.1 Description:

After the order is delivered, the system prompts the user to rate and comment on the service.

4.4.2 Response sequence:

• The system provides a rating screen when the order is delivered.
• The user can rate the service and food quality on a scale of 1 to 5 (lowest to highest).
• The user can also provide feedback by sharing his remarks with others.
• The user can choose "Help/Complaint" and the system will link them to customer support.

4.5 System feature 5 – Create/Update/Delete Menu

4.5.1 Description:

The admin or the food brand will have the ability to add new menus, edit existing menus, or delete existing menus.

4.5.2 Response sequence:

• If the profile does not already have a menu, the system will prompt you to "build your menu."
• At the top of the menu, the system displays an "edit or delete" button.
• All recent modifications are kept.

4.6 System feature 6 – Take Order

4.6.1 Description
Customers' orders will be taken by the food companies or the admin.

4.6.2 Response sequence:
Italian's Pizza Software Requirements Specification
• The system displays the "order received" dialogue with the description and amount, just like any other client order.
• The food brand selects "Accept order," and the system sends the consumer a confirmation message. If the brand is unable to accept the order due to an issue, it selects "reject order" and sends a message to the customer.

4.6.3 Functional Requirements:
1. Cannot take order (Restaurant is closed):
• The system cancels the order.
• The order is canceled by the food company.

2. Meal not available:
• The system delivers an order delay notice due to a lack of meal availability.
• No order can be established.

4.7 System feature 7 – Receive Feedback

4.7.1 Description
This feature allows the food brand to observe and respond to client feedback.

4.7.2 Response sequence:
• After the order is delivered, the food brand receives comments and ratings from the customers.
• In the event of a problem or complaint, the food brand can respond to the customer via comments, phone calls, or text messages.

5. Other Nonfunctional Requirement

5.1 Performance Requirements:
- The website should provide enhanced performance rather than a deterrent.
- Performance should be excellent, and queries with few "join" statements are desirable for better and faster results.
- Having too many tables in a database can result in slower query performance. Having an impact on the entire system
- The server will be able to assist with an unlimited number of active meals/orders; that is, there will be no limit to how many active meals/orders the server can assist with. Under no circumstances will meals/orders be misplaced.

- The server must be capable of assisting an arbitrary amount of active patron payments, i.e. Under no circumstances will any funds be misplaced.
- Approximately 92 percent of inquiries should be handled in 3.5-4 seconds. There should be no exceptions. Communication between customers and the brand is delayed by more than 0.5–0.8 second.
- As soon as the user enters any inputs, the system will send suitable messages to the user.
- Because any number of users can access the system at any time, it is necessary to maintain an acceptable speed at the maximum number of uploads allowed from a single client.
- The photos should be displayed alongside the full-length pages.
- In addition, connections to the servers will be dependent on the user's attributes, such as his location, and the servers will be available 24 hours a day, seven days a week.

5.2 Safety Requirements:

- In the event of a failure, the system must be able to restore itself to its former condition (e.g., a system crash or power loss).
- Should the need arise, the system should be able to display a menu at all times to assist manual order taking.
- To avoid data loss that could have a negative impact on the business, the system must be properly specified.
- Because it delivers analysis on the basis of client data, the system cannot afford to lose it.
- Controlling access to the system and information is essential.
- Human users must not be harmed by the system.

5.3 Security Requirements:

- Assuming that any client utilizes his Master card for installment, OTP is sent by means of message or call for affirmation.

- The client will get an instant message by bank on fruitful exchange.

- Protection prerequisites i.e., secret key ought to be view in encoded structure.

- Criticality of information requires the requirement for exceptional dealing with (reinforcement).

- The server-side security is expected to shield the framework from programmers.

5.4 Software quality attributes:

The system should follow recognition rather than recall i.e., it is simple and easy to use and learn.

- The system should be scalable and manages the data load accordingly.

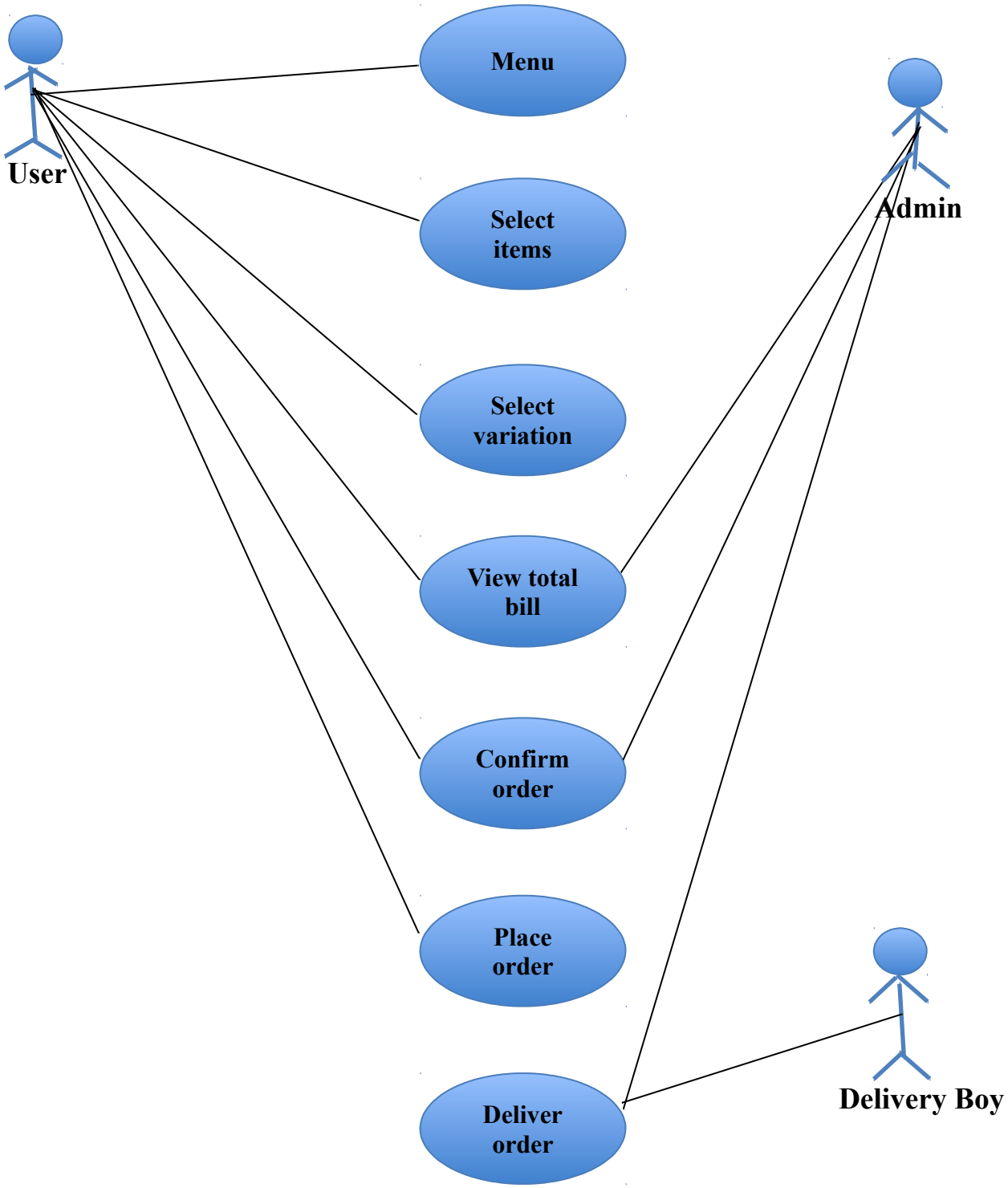
- **Availability:** If the internet service gets disrupted while sending information to the server, the information can be sent again for verification.
- **Reliability:** The system should be highly reliable and it should generate all the updated information in correct order.

- **Availability:** The system should be available 24*7.
- **Maintainability:** The system should be maintainable in such a manner that if any new requirement occurs then it should be easily incorporated in an individual module.
- **Reusability:** The system would be usable as long as people want to use it.

5.5 Business Rules:

- The customer must supply a local telephone number number for web orders.
- A valid credit/debit card must be available for web order confirmation.
- The web order must be confirmed by the head waitress via return phone call.
- Preparation of the web order is not started until after the confirmation call.
- The credit/debit card number is held for web orders if the customer chooses to pay with cash or personal check.
- Payment for a web order is not processed until (failure of) customer pick-up.

Use case Diagram:



Conclusion:

This system has not only minimized mistakes while placing an order, it also provides maximum satisfaction for customers during the selection of food. Joey's Pizzeria delivery system allow customers to place an order via internet today and request for delivery on another day. "Pizza Service Tracker" provides customers an up-to-date status from the moment customers place orders to the moment the pizza leaves the store. Its geo-location feature is eye-catching for all the customers and will help a lot to customers. It’s easy to use navigation and simple.

*************The End************