AN ONLINE BASED WEB APPLICATION FOR FOOD DELIVERY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering.

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APPROVAL

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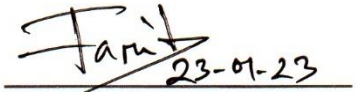

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DECLARATION

We hereby declare that this project has been done by us under the supervision of **Md. Sabab Zulfiker, Sr. Lecturer, Department of CSE,** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for the award of any degree or diploma.

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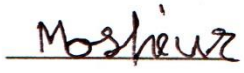

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ABSTRACT

"AN ONLINE BASED WEB APPLICATION FOR FOOD DELIVERY", is a web-grounded operation system. Online food ordering is a point of our suggested system, the purpose of the Online Food Ordering System is to automate the primer system with the help of a computerized device and full-fledged computer software, fulfilling their conditions, so that their precious data information can be stored for a longer period with easy penetrating and manipulation of the same. The needed software and tackle are fluently available and easy to work with.

Our food ordering site, as described over, can lead to an error-free, secure, dependable, and fast operating system. It can help the user to concentrate on their other conditioning rather than concentrate on record keeping. therefore, it'll help associations better application of their property.

The association can maintain computerized records without spare entries, which makes them accessible to users. It eliminates the downsides of the conventional queuing medium. Through this website, customers can fluently order the right quality food by covering an eatery on the website. This website will have the necessary information for making the food menu easy and accessible. Which the customer can fluently understand by viewing or rating. This point will be suitable to review the list of food, including food orders. also, the suggested system can suggest admin grounded on the conditions handed by the customer. The restaurant employee force will also be advised of any quality and enhancement issues. Only online payment styles are available on our website. By giving each customer a unique ID and password, separate accounts are maintained for each customer for further secure ordering. This website will introduce the customer to the restaurant in the country. Customers will more fluently produce an easy way to get order the needed food in lower time.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

We all know that food is a very important element in our life. Post-pandemic, people have understood the gleaming importance of eating healthy, living a sustainable life, and taking care of their immunity. Prior, going to restaurants was ‘normal’. People would go out to enjoy the good food, and the ambiance, and experience the restaurant! However, things changed, and down the line, going out to eat in restaurants and cafes has become a mere ‘get away from the monotonous routine. People are now more inclined towards an online food ordering system. Different types of people like different types of food. That is why we created this web-based food delivery system. On our website, you can easily order different types of nutritious, delicious, and popular food. By selling food on our website restaurant owners also benefit hugely from allowing customers to order food online. Our website creates more business opportunities for restaurant owners. Our website is also a great way to set up a contactless service. If anyone visits our website, he or she easily can get an idea about our food delivery website. Then if anyone register and logs in, they can enjoy the benefits of our website and also comment about the food. We have admin panel, delivery boy, and restaurants. After logging then users can comment about food orders, cancel orders and view food items here. Admin users will be able to observe these. Admin panel will be able to cancel food orders with users' permission. If anyone has smartphones, laptops, PC, and internet access devices they can easily register on our website.

1.2 Motivation

- Food Panda acted as the main motivator in creating our food ordering and delivery website.
- Then when we were housebound during Covid-19, we monitored various "online food order" websites for food. Most of these websites are not easy to use which is why we create this site and our site is easier to use.

- When we realize online food ordering sites will save us precious time then we motivate to create this website.
- On the other hand, When we saw people are not able to come to the restaurants then we decided to create this online food ordering system.
- We have taken the initiative to create this website to make our life easier by establishing contact with the user and restaurant owner. With the help of this website, food can be easily obtained in a very short time and it is also user

1.3 Objectives

- Our project will help the user by delivering fresh food through a delivery boy in a very short time while saving the user significant time.
- Restaurant owners can easily sell their food to users through our website and make a profit by doing business and we will also financially benefit because the restaurant owners will also pay money for us to promote and sell their food on our website.

1.4 Tools and Techniques

- Computer, smartphone, and internet-connected users can use our website.
- After registering, Users profile is automatically created.
- If any users want, they can easily confirm their present location.
- If the super admin wants, he can add more sub-admin.
- Customers can order food and post reviews.
- If the admin wants, he or she can take any action.
- Users and admin both can see the reviews.
- Users can comment about delivery boys' behavior, food quality, etc.
- Admin can post new food and take orders from users.
- Users can search for food easily and also can order food easily in our website.

1.5 Features

In some respects, it's

● Online ordering system.

● By using our websites, Users can easily order food then the delivery boy will deliver users ordered food from the restaurant, and the admin panel control all management system on this website.

1.6 Expected Outcome

● Our website saves any user valuable time

● It will help restaurants owners also sell their food

● Smart searching with Check & out facility

● Food Details

● Payment Gateway

1.7 Project Management and Finance

We were very conscious about the management of our project from the beginning. From the very beginning, we followed specific guidelines in the direction of our project, we used to sit twice every week to analyze the ongoing progress of the project and inform our supervisor, sir, with his valuable feedback and then implement them. We put a lot of effort into the design phase, and we have done a lot of analysis on how to make this food-ordering website more beautiful. When a user visits our website and wants to order food, he or she can easily order food. Next, we bring our delivery boy and restaurant owners to our website, which is why the restaurant owners can sell their food and the delivery boy get the job. And if we talk about finance, we have not paid much money in the overall process because we have endeavored our best to finish the work efficiently by bringing our own time and skill development.

1.8 Project Layout

Currently, we have just 3 types of users on our platform such as –

❖ Users

❖Delivery boy

❖ Administration

The main opportunities available in this Assignment are to Order food, save time, Find online food ordering restaurants, Food Packages, Delivery boy details, Food Review, and Payment gateway.

Following is a synthesis of our project data:

● The first chapter introduces our project and details its background, goals, tools, methodology, features, final product, and project management.

● The scope of the problem, the difficulties encountered while working on this project, and the terms used in the project are all defined in Chapter Two.

● Business process modeling, requirements gathering and research, use case modeling and specification, a logical data model, and a requirement plan are all covered in Chapter 3.

● The implementation requirements for the front end, back end, interaction design, and user experience (UX), are outlined in Chapter Four.

● Database and front-end design implementation, as well as testing and its implementation, test results, and reports are covered in Chapter Five.

● A discussion of the project's societal and environmental effects, as well as its ethical considerations and long-term sustainability strategy, may be found in Chapters Six and in Chapter Seven including the conclusion and scope and further development of this project.

CHAPTER 2

BACKGROUND

2.1 Introduction

Using any online based website to order food is a very easy task. On our site customers ordered food and the delivery boy delivers food to the customer by admin panel instruction to the client online. When we designed our site, we follow some strategies. That is why we can easily present all information on this website for users. Our design is very attractive and easy for the admin and user.

2.2 Related Works

- On our site customers easily can check the food menu
- After completing registration users can easily order food.
- Users can order multiple foods at the same time.
- Admin panel can add food and cancel food easily.
- Admin can manage the orders in his own decision.

2.3 Comparative Studies

Nowadays we can see a lot of food ordering sites online, but all site's main designs are the same. On our website, we have maintained strong security rules which is why no other website cannot collect information about our website. You can order multiple foods on our website. Admin can easily manage our website because our site main menu has been easily created than others website. We will collect users' profit information only and also, we will collect user registration information that is why it will be saved automatically because when users next time use our site they can automatically log in to our site and it will also save them extra time.

2.4 Scope of Problem

- It is very hard to design a website that can place orders for food from restaurant rant via our website.
- Add user ratings and reviews
- Maintain users over- to- date information
- As our website is an open platform so all-time customers may not be interested to sign in with their information.

2.5 Challenges

- When we created our website, the main challenge was to collect all data and information.
- When we designed our site we visited the same types of websites and also followed their website's benefits and problem side and we tried to fix that problems for users.
- We have designed a separate part to maintain the relationship between the user and the admin panel.
- Our website's main challenge is achieving user satisfaction such as concentrating on maintaining food taste.
- Delivering food to users on time is also another main challenge.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Use Case Model

In this use case diagram, the user, admin, and delivery boy have been described. In the below diagram, we try to describe how our website will work and what the position of any actor in it is.

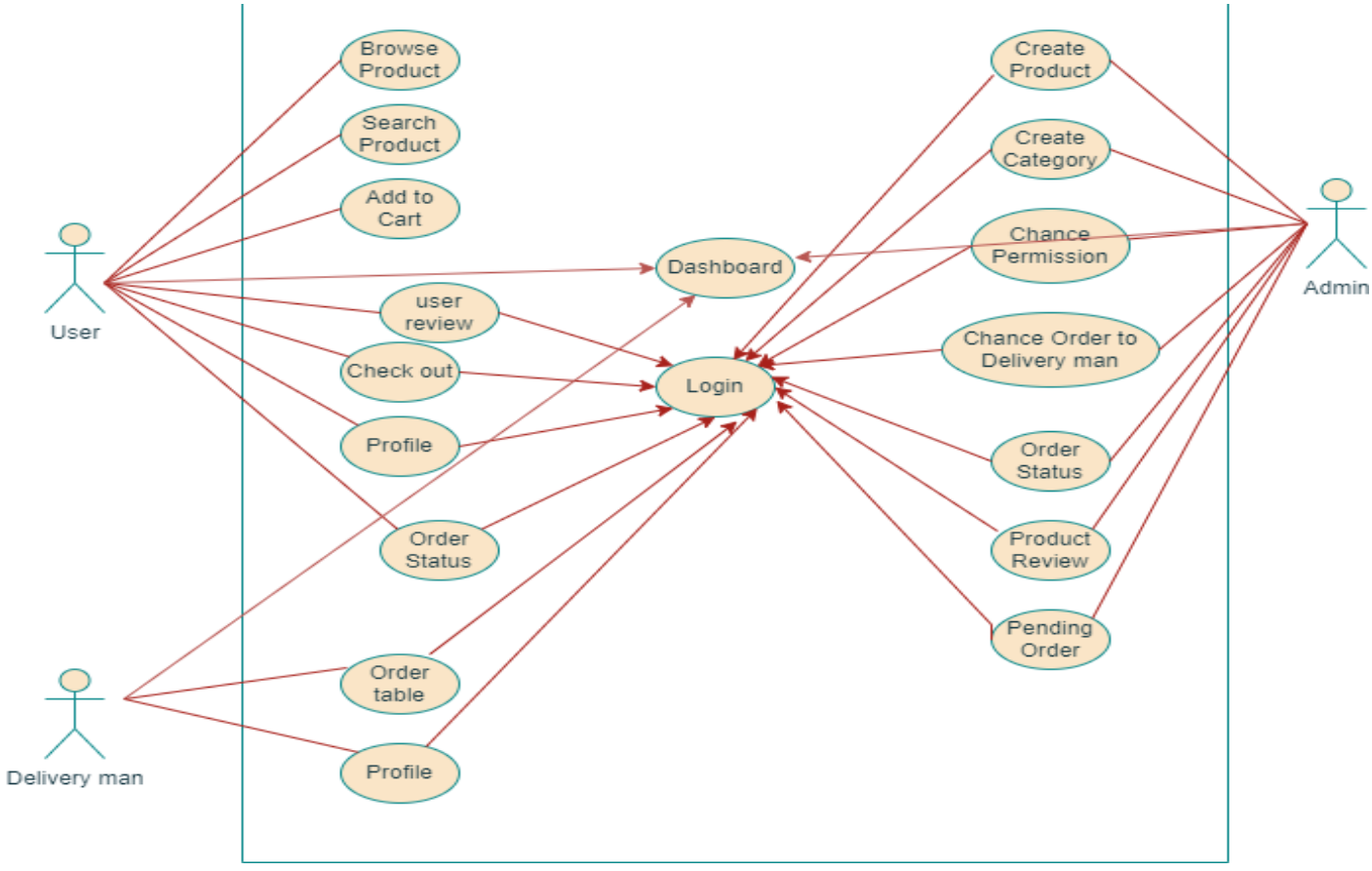

Figure: 3.1: Use Case Diagram

Use Case Explanation

The explanation of the use case model of 3.1(Figure 3.1) is shown below. Each characteristic will be described with a table have “principal performer”, “minor performer”, “before agreement”, and “after agreement”. That is why it is accessible to everyone.

Table 6.1.1: Registration Explanation (USE CASE)

use case	**register**
principle performer	admin, user, delivery boy
minor performer	empty
before agreement	empty
Schema	o email o password
after agreement	registration successful / registration unsuccessful

Table 6.1.2: Log-in Explanation (USE CASE)

use case	login
principle performer	admin, user, delivery boy
minor performer	empty
before agreement	empty
Schema	o email o password
after agreement	registration successful / registration unsuccessful

Table 6.1.3: Post-Review Explanation (USE CASE)

use case	post review
principle performer	users
minor performer	empty
before agreement	registration, log-in

Schema	o rating o profile picture o review
after agreement	review post successfully / unsuccessful

Table 6.1.4: View order Explanation (USE CASE)

use case	order
principle performer	user
minor performer	empty
before agreement	registration and log-in
schema	order food easily
after agreement	can order food with success / unsuccessful

Table 6.1.5: Manage Account Explanation (USE CASE)

Use case	Manage Account
principle performer	admin
minor performer	empty

before agreement	log-in
schema	verify account
after agreement	The account will easily interrupt with success

Table 6.1.6: Manage Post Explanation (USE CASE)

use case	**manage review**
principle performer	admin
minor performer	empty
before agreement	log in
Schema	o monitor food item o remove the food item
after agreement	the post was removed with success

Table 6.1.7: Updated Profile Explanation (USE CASE)

use case	**update profile**
principle performer	admin, user, delivery boy.

minor performer	empty
before agreement	log in.
Schema	upgrade image upgrade all person name upgrade data
after agreement	account upgrade with success / unsuccessful

use case	**manage post**
principle performer	admin
minor performer	empty
before agreement	log in.
Schema	remove data
after agreement	profile was removed with success

Table 6.1.8: Use Case Description of Log-Out

use case	**log-out**
principle performer	admin, user, delivery boy
minor performer	empty

before agreement	log in
Schema	log-out
after agreement	log-out with success / unsuccess

3.2 ER-Diagram

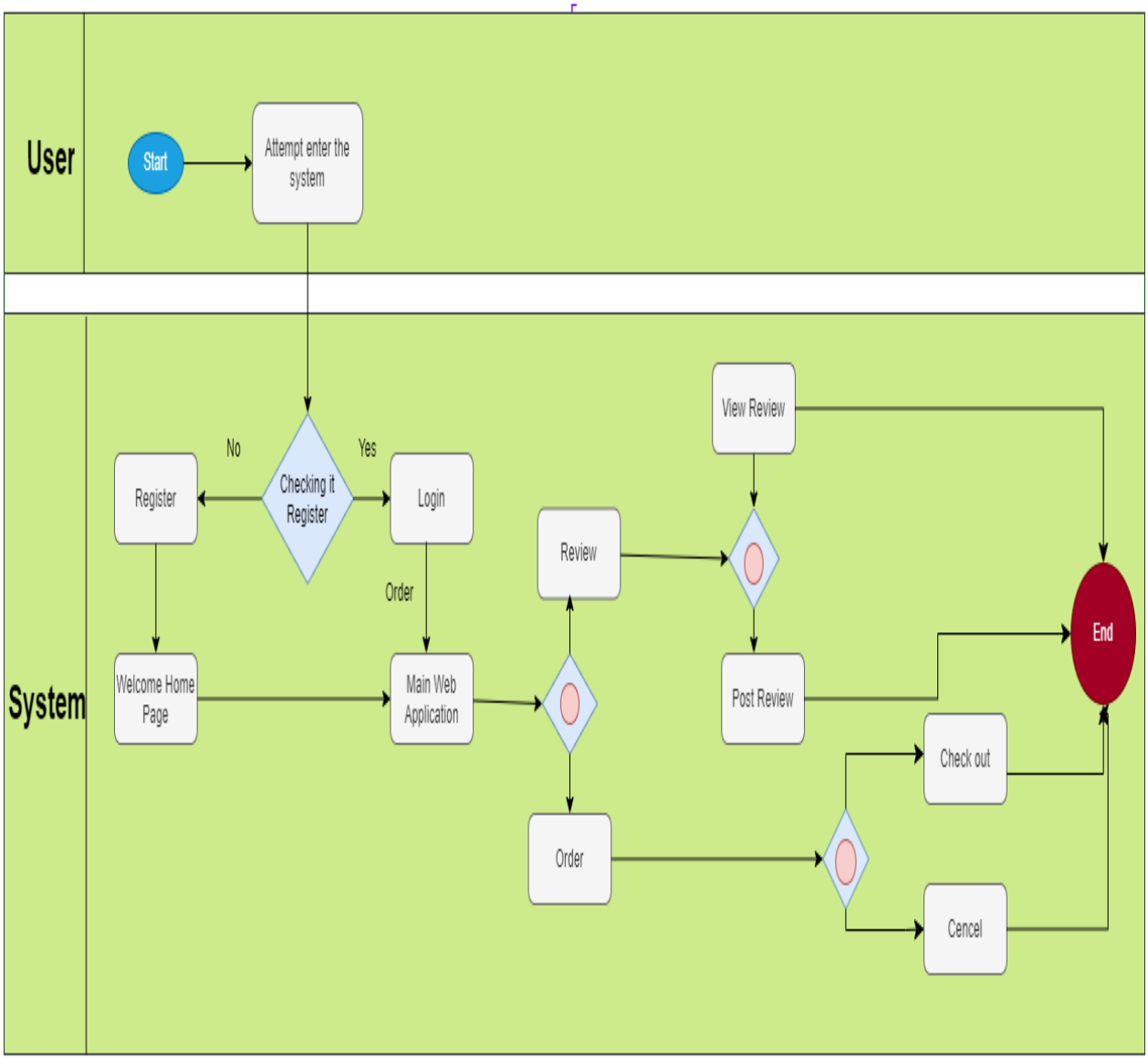

Figure: 3.2 ER-Diagram

3.3 DFD Diagram

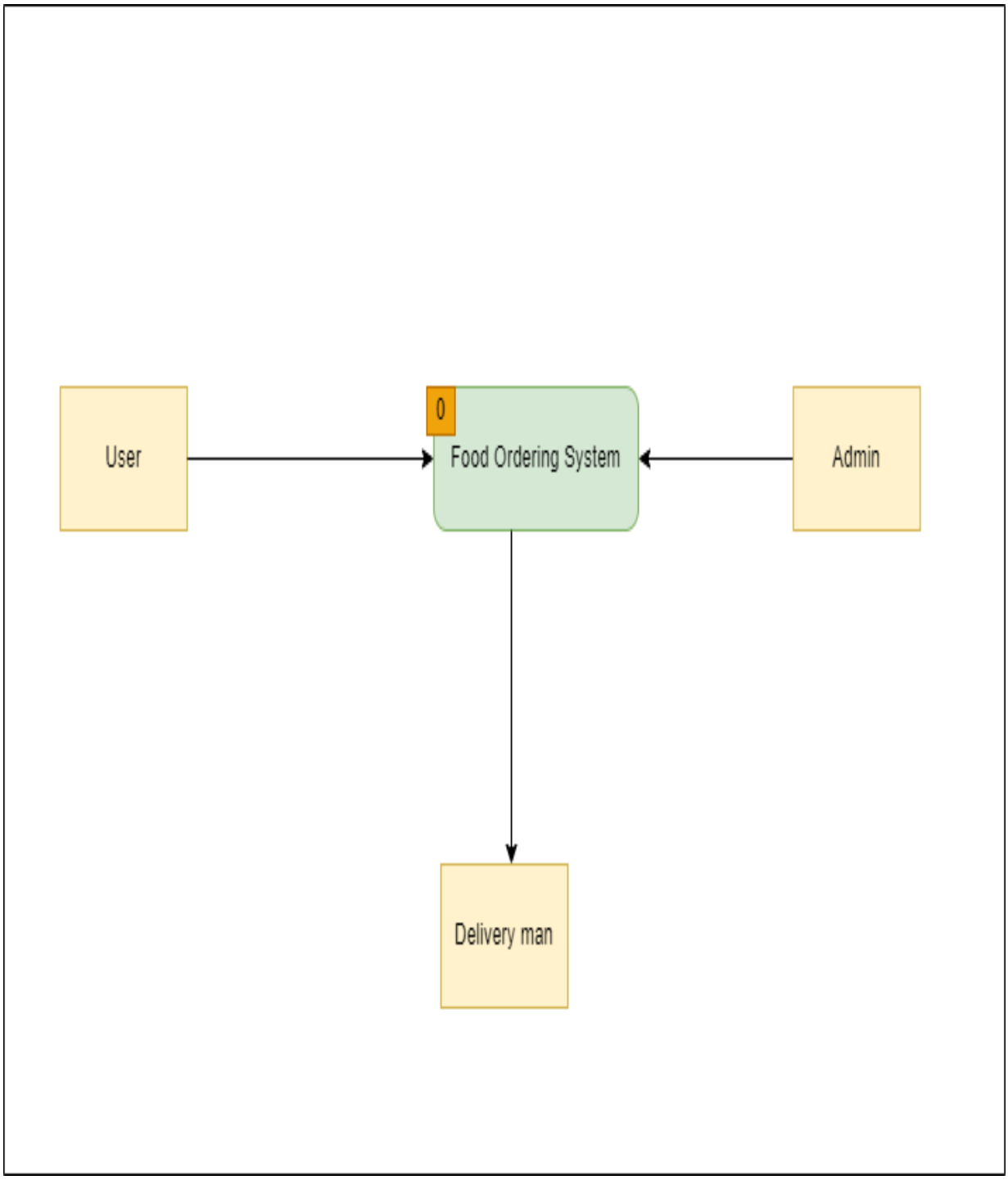

Figure: 3.3 Context DFD Diagram

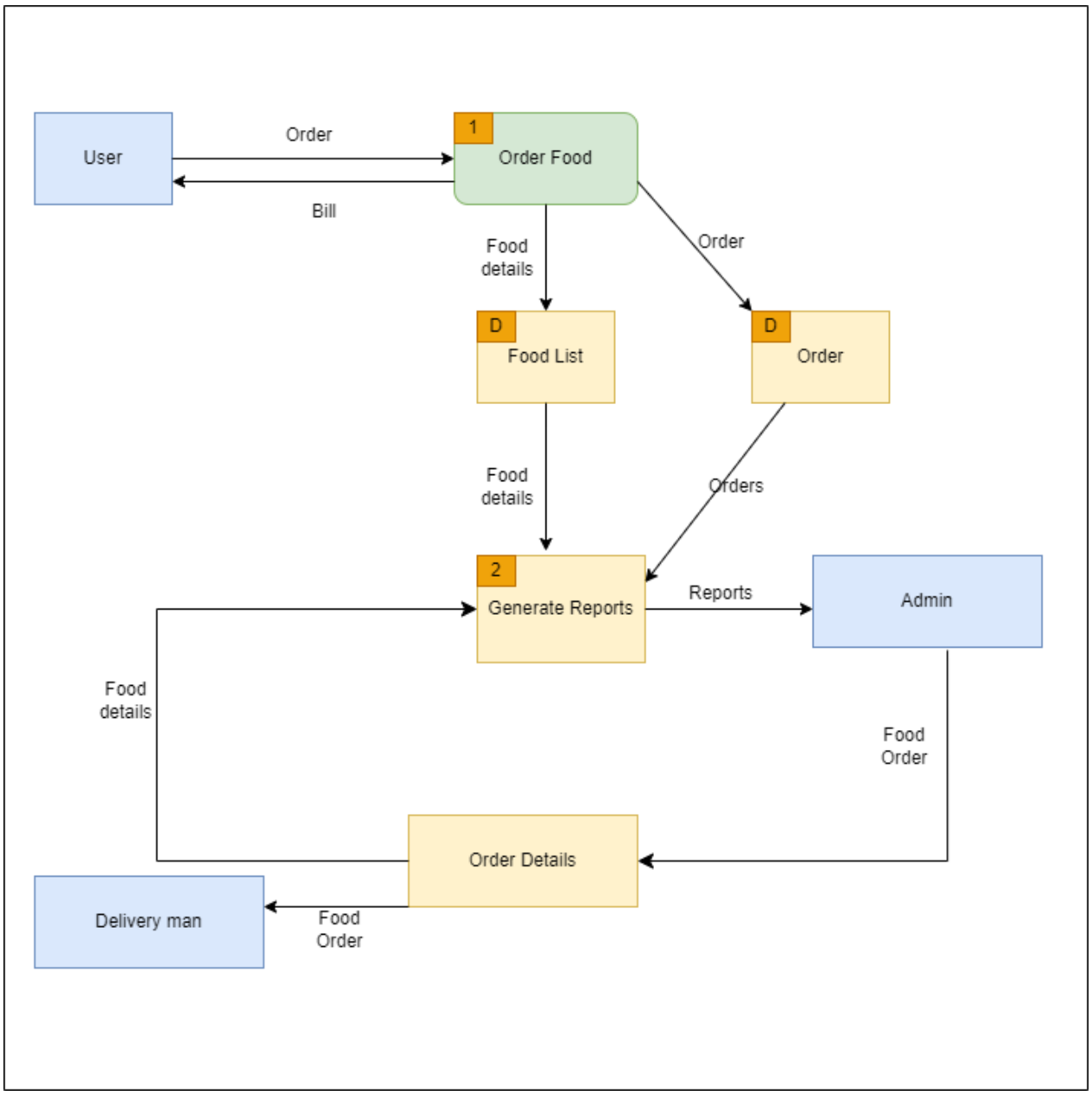

Figure: 3.3 DFD-Diagram

3.4 Requirement Collection Analysis

For designing elements our website we have used some elements which are shown below:-

- Hardware Site:
    - computer or laptop.
    - server.
- Software site:
    - windows operating system
    - browser
- Programming Language and Framework:
    - Frontend design:
        - Html
        - CSS
        - Bootstrap
        - Java-Script
        - React
    - Backend:
        - Python
        - Django
    - Database:
        - PostgreSQL

3.5 Design Requirements:

Website:

- This system has two types of users for example admin and user.
- Add to Cart
- Order placement
- User reviews (rating & comments)
- User Profile
- Order

Dashboard:

- customer login and registration
- Customer rules (admin, delivery boy, user)
- Change customer permission
- Update the food category
- Product
- Show user customer (pending, on the way, delivered, paid, stolen)
- Show user reviews

Delivery man: -

- Profile
- Show user order (on the way, delivered)

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

We know that website front-end design is the representation of any website. This is the medium of commerce way between the user and the admin panel. Front-end design is designed for customers. It is the most important part of any website design. Front-end designed for the customers to cooperate with the website fluently.

Front-end design is the last step of design for the user's side. For web development, the front end is the most important part. When users enter any site they get an easy idea when they see the website's front-end design. It is a part of the graphical user interface development.

.

4.1.1 Home Page

On the main page, there's a menu bar, website name & website logo, food type, sign-in, etc. the full website is trying to make it as responsive as it can be to view numerous devices.

Home page Example:

- Menu bar
- Websites Name
- Logo
- Food Category
- Footer
- Sign in etc.

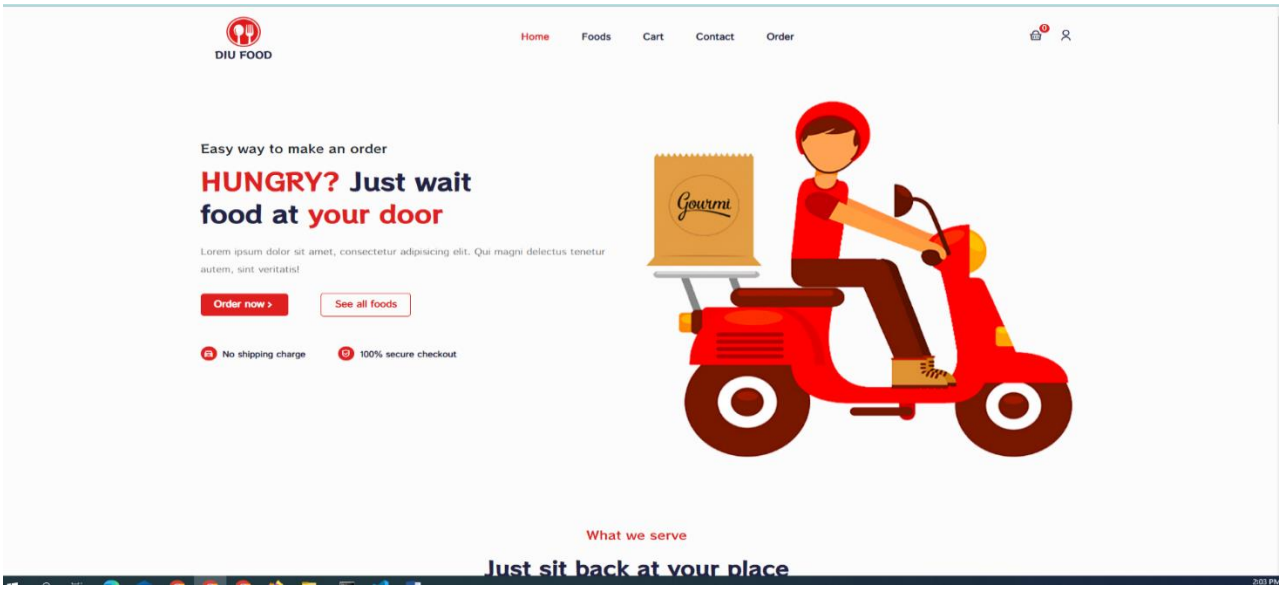

Figure 4.1.1 Home Page

4.1.2 Food Page

- ALL Food Shows
- Search bar

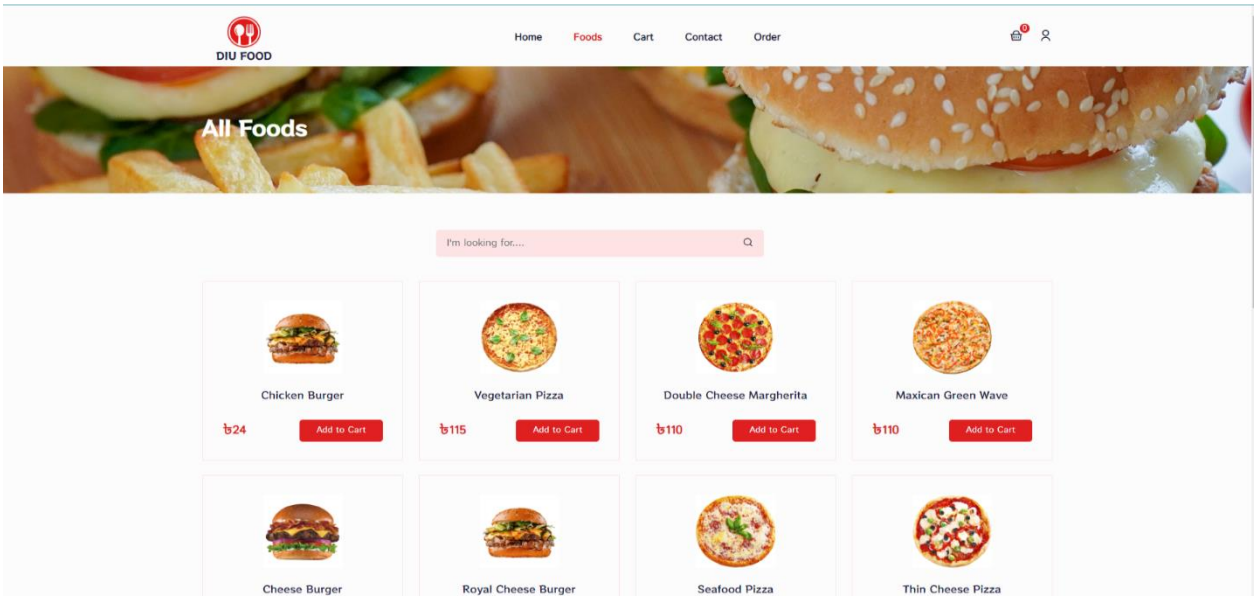

Figure 4.1.2 Food Page

4.1.3 Log-in Page

Users can log in through the login page –

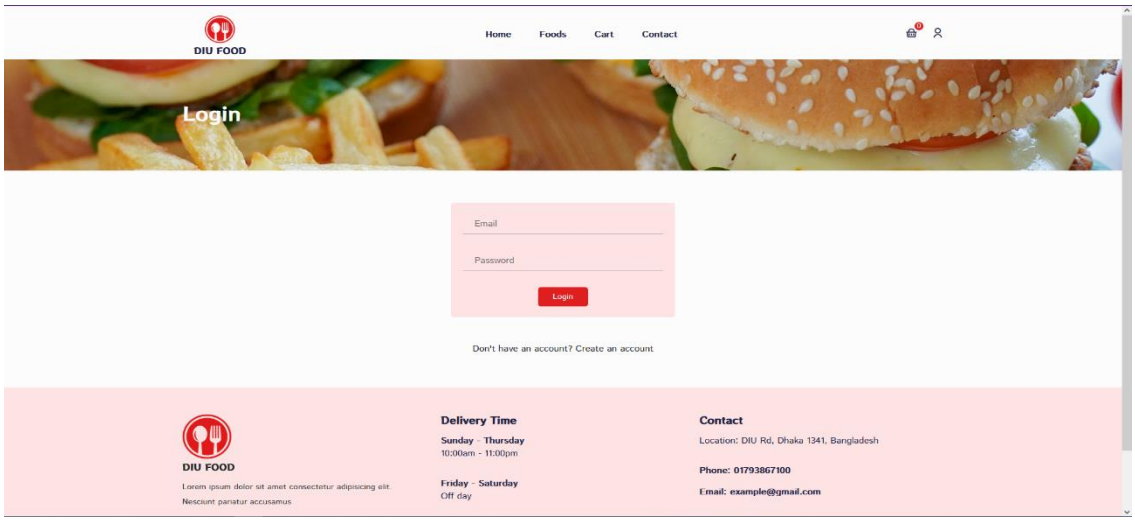

Figure 4.1.3 Log-in Page

4.1.4 Sign-Up Page

Users have to register first to use the website

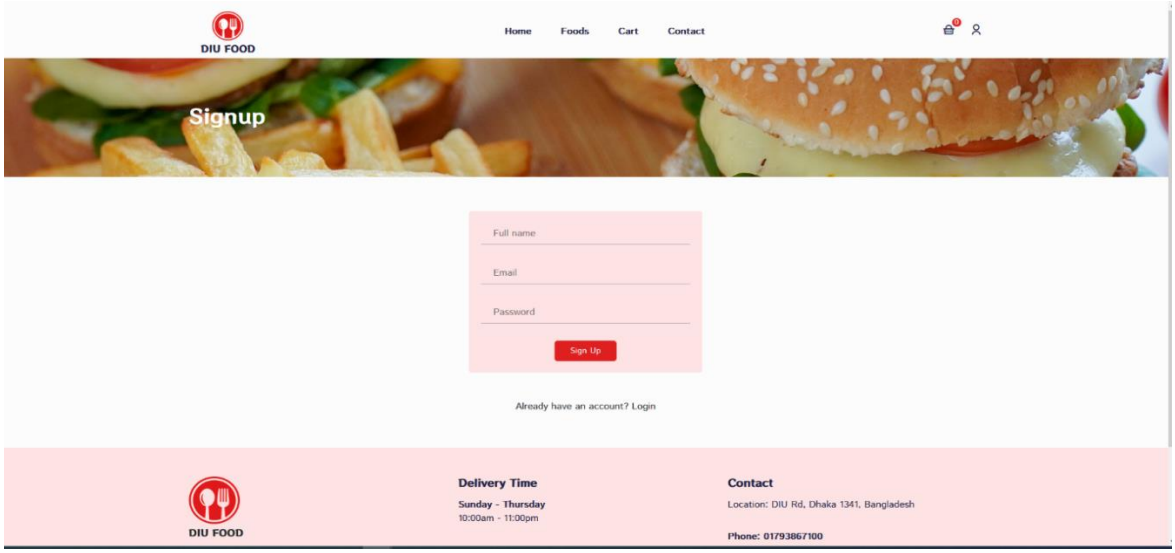

Figure 4.1.4 Sign-Up Page

4.1.5 Admin Log-in Page

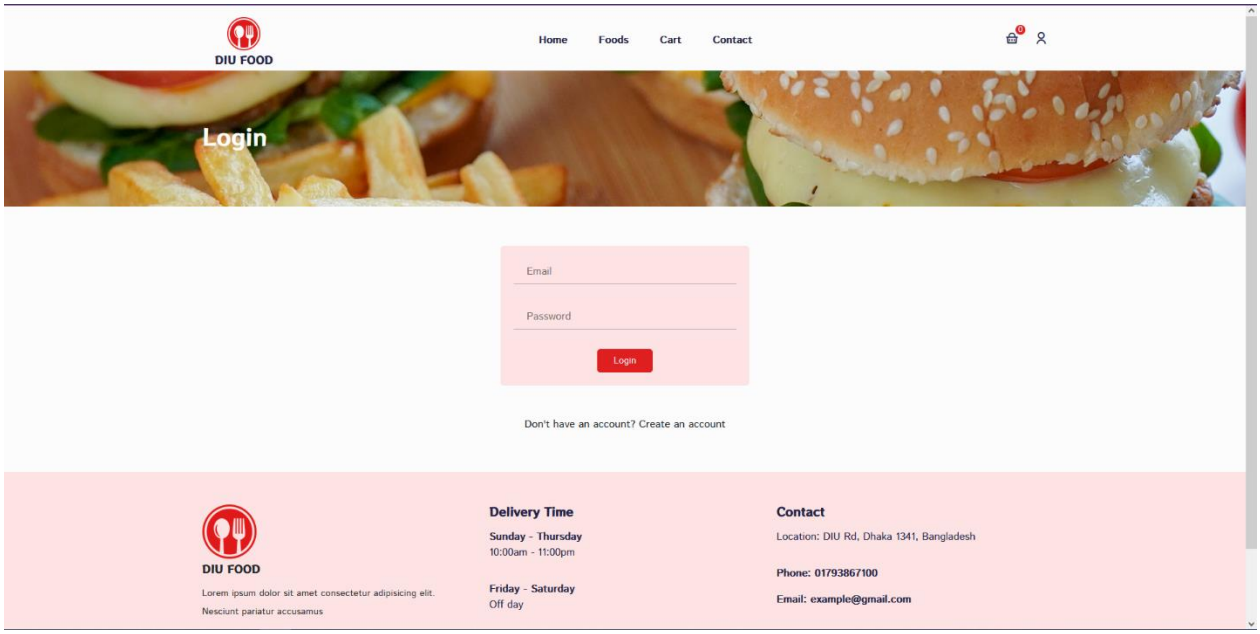

Figure 4.1.5 Admin Log-in Page

4.1.6 Admin Panel

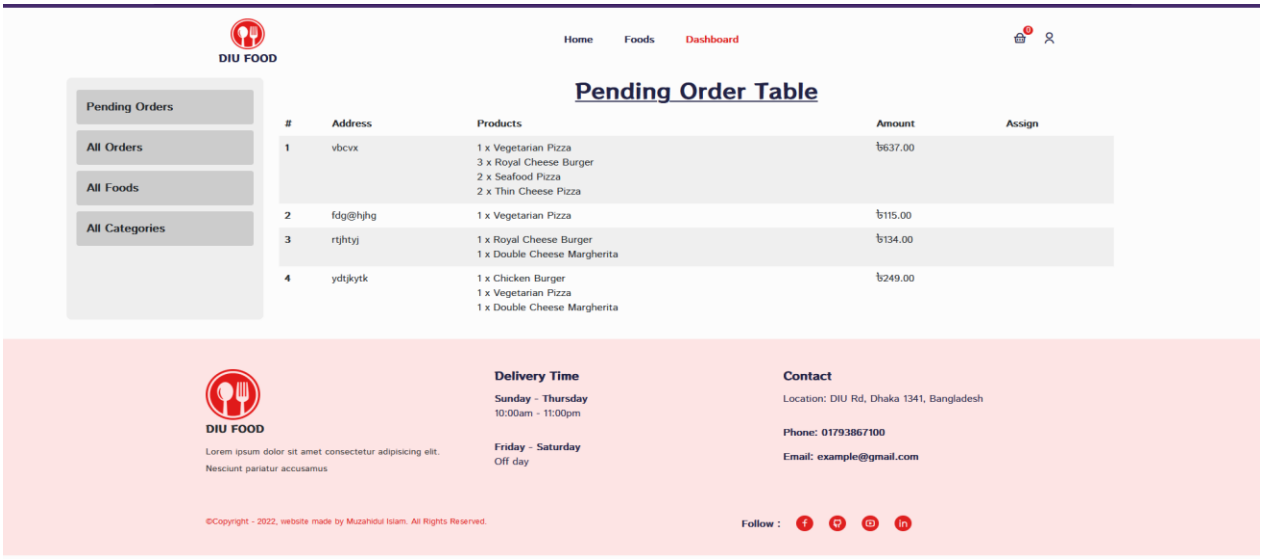

Figure 4.1.6 Admin Panel

4.1.7 Food Cart

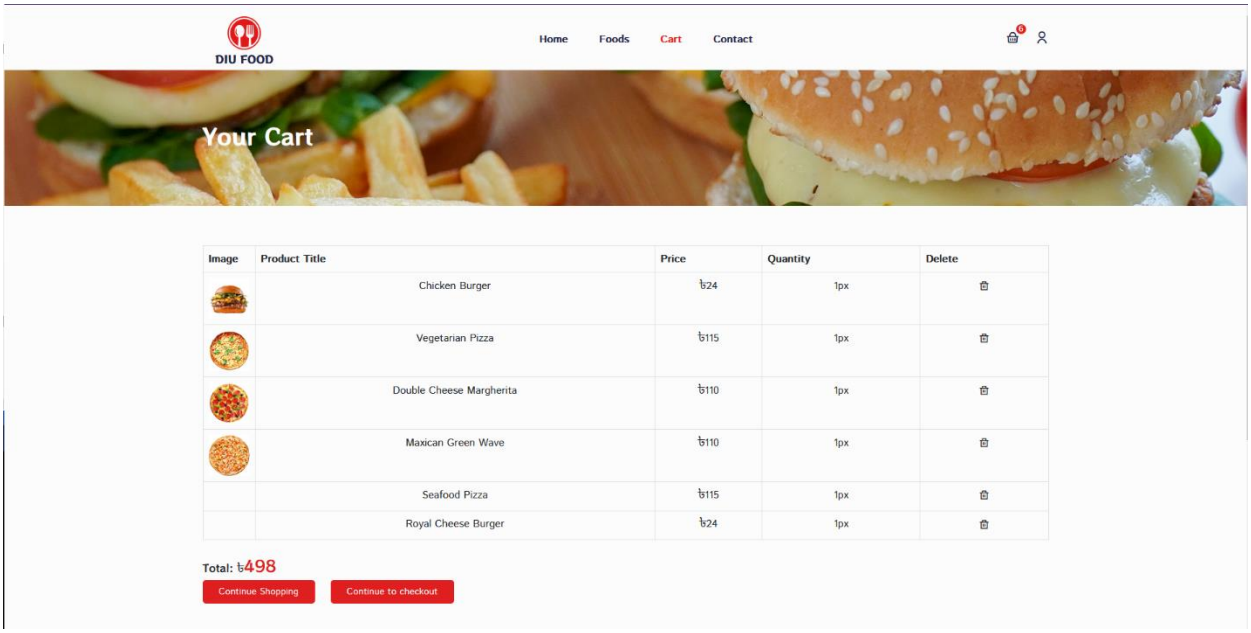

Figure 4.1.7 Food Cart

4.2 Back-end

We know that website's main logical part occurs at end of the website. The most critical part of a website is the back-end part. The website's total system functionality depends on it. Back-ends related to the garçon point. On the back- end, there are multitudinous issues to attack analogous to the form speech or the server point speech, database operation system, safety, evidence, concurrence, data parsing, data evidence, data collection, etc. We try to display the restaurant review using the Python Django framework containing all the aspects that are mooted over and also PostgreSQL provides us the logical goods and hosting.

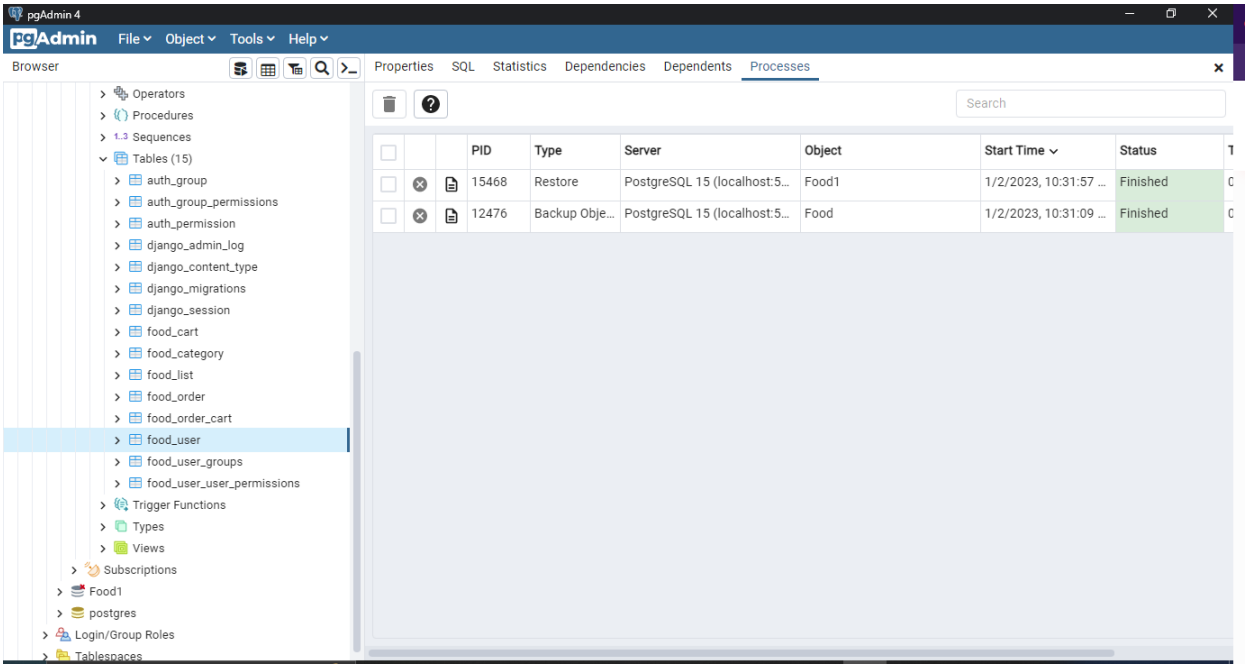

Figure 4.2: - Database Tables in PostgreSQL

4.3 Interaction Design & UX

React, and Bootstrap Framework has been used on our website front-end. That is why our website looks well and affordable. If any restaurant owners work with the user through this website, it is easy to get the satisfaction of the user in any business. So the customer experience day by day improves better due to the process of enhancing user satisfaction with the website and the pleasure handed in commerce with the website.

4.4 Implementation Requirements

- UI design is related to Django
- PostgreSQL is used for creating a database
- A server backup is from schedule-wise.
- For successful results input valid data & if we input invalid data it shows an error result.
- For the Structure of the design React is needed.
- By using Bootstrap and React front-end design will be increased.
- React and Bootstrap makes all website more attractive.

CHAPTER 5

IMPLEMENTATION & TESTING

5.1 Implementation of Database

With the implementation of the database structure on this website, we have used pgAdmin to create local servers. on the pgAdmin local server, all database information will be saved. You will get an information-meaning notification code if you log in through any mail address.

Admin: Admin details.

Admin_panel: Admin manages table.

Users: The user's whole information is saved.

Delivery Boy: Delivery Boy's whole information is saved.

Order: Order manage table

Food List: The food List manages the table

Food Category: The food Category manages the table

Review: Review manage table

Review post: Review posting manage table

5.2 Implementation of interaction

React and Bootstrap have been used for designing our website. React & Bootstrap has customized and made the pages of the website custom and smart. Bootstrap has been used to open the browser. For cyber security customize we have used JavaScript. When any customer orders, it runs in HTML through the host.

The database design of our project is as follows:

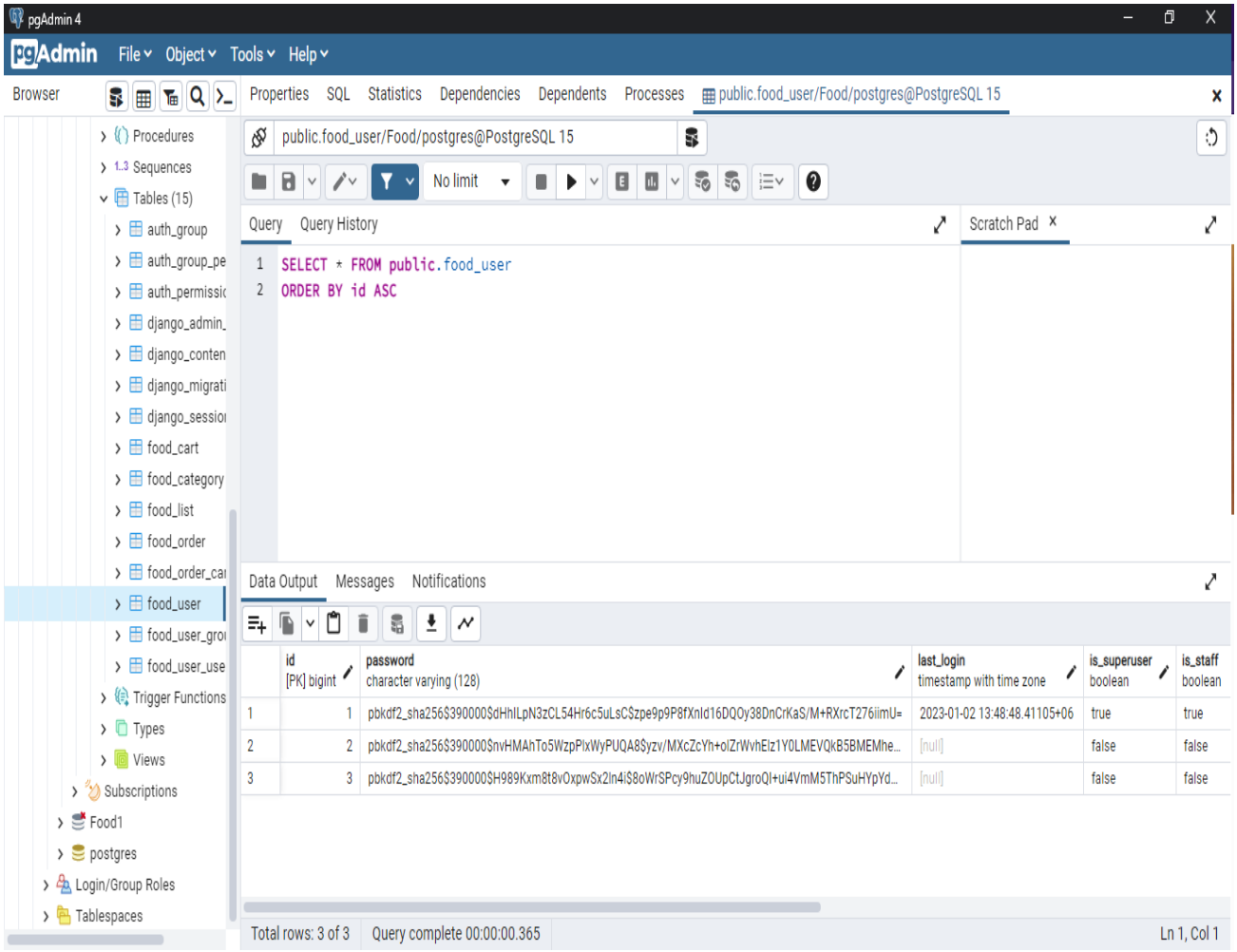

Figure 5.1: - User sign up Database

5.3 Implementation Test

Various browsers and tools have been used to test our website. Various users and Admin have also been used.

Table 6.1.9: Assessment

Test- case	**Test-inputs**	**Expected-outcome**	**Obtained-outcome**	**Success or unsuccess**	Date of Taste
1. login	log-in by using a different instrument	successful log-in	successful log-in	success	20-04-2022
2. registration	customer name & passwords	view limitation to fill up all field	place need to be fulfilled with information	success	20-04-2022
3. passwords	Wrong passwords / null filed	notify the incorrect password / field is null	Show warring	success	20-04-2022
4. profile setting	see profile & upgrade profile	show upgrade profile & data.	show and upgrade data successfully	success	20-04-2022
7. order	all order information	the order confirmed	order confirmed successfully	success	20-03-2022

8. review	review information	review posted successfully	post successfully	success	20-05-2022

5.4 Test Report:

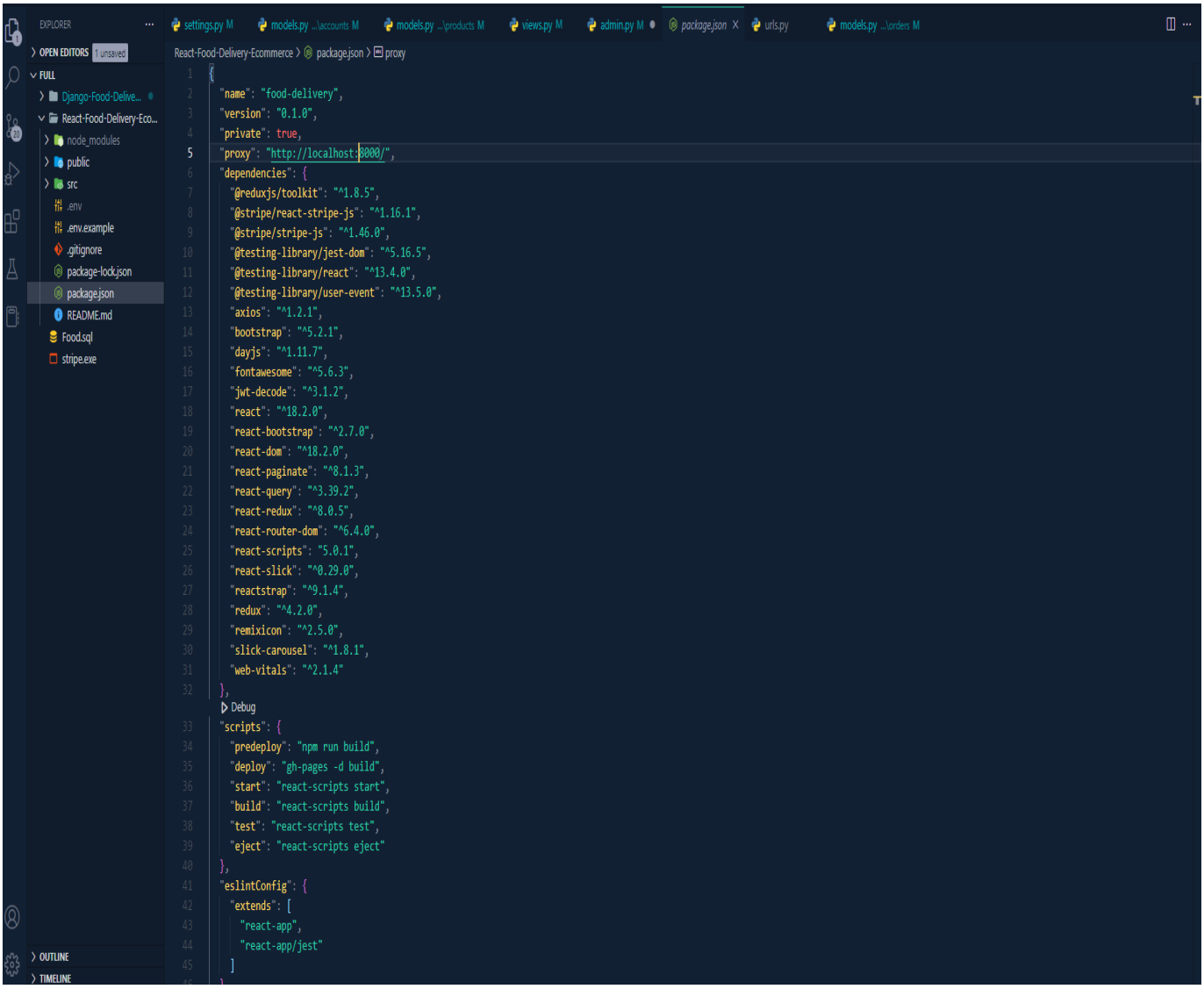

Figure: 5.2: Test Report

CHAPTER 6

Impact on Society, Environment and Sustainability

6.1 Impact on Society

If you think that our online platform would not be able to deliver people such fresh, delicious food in a timely. After using it, your opinion will be proved wrong. This dynamic online platform helps to further illustrate how a society that has received widespread praise for facilitating communication, collaboration, innovation, and comprehensive guidance has developed. At present Online Food order websites have a remarkable impact on society. It is a more profitable business and helps users save their precious time also. These businesses must make sure they cater to a new generation of representatives by providing them with a flexible and considerable opportunity for instruction and by understanding the value of sophisticated fresh and delicious food. This web application may help society in the following five believable ways, proving that there is a greater need than ever to adopt this cutting-edge teaching method.

6.2 Impact on Environment

People's lives today are stressful and busy due to their work commitments. Every moment is very precious to anybody. Therefore, If anyone uses our online website and orders food by using it then he or she can easily save some important time. Only our food ordering site can ensure you fresh food and also deliver food timely. At this time students from our university can use our online platform to access our food ordering site and enjoy our fresh and delicious food easily.

6.3 Ethical Aspects

Food is a very important element in our life and time is also very precious. Fresh and delicious food makes a man healthy and also a genius. Food helps a chance to open one's mind to the hope and assurance of creating something new. A period for curiosity and self-discovery. Food ensures to make any trip enjoyable that is why we have also set up this online food ordering platform. With the help of this web platform, we are assisting users how can save time and ordering fresh, delicious food and highlighting the advantages of fresh food for them. In a discussion on the honor and well-being of users, we emphasize moral questions linked to worth and diversity, observation and permission, and identification and secrecy. We ask questions to encourage additional research on the topics brought up in this dialogue rather than attempting to settle them.

6.4 Sustainability Plan

Who doesn't want to eat fresh and delicious food? And if this food can be easily ordered at home using a website without going to a restaurant, then the fun is different. At present, lots of people have adequate money, but it is frequently seen that they do have not enough time. Therefore, we help them by delivering our fresh and delicious food which is why they can get fresh food and also save their precious time also. We are using this platform to help these people to save time and achieve their unmet aspirations. Any users may quickly and affordably secure their safety by using this application. Our platform's offerings of all foods are easily accessible to any user. A user will have a clear understanding of any food beforehand, ensuring that his time and money are well-spent. The users can contact or report the admin easily by using our platform at any available moment when our online delivery is on.

CHAPTER 7

CONCLUSION AND FUTURE

7.1 Discussion and Conclusion

Order food by using a phone or computer we can easily get food. We have used React, CSS, Bootstrap, Python, Django, Django Jwt (auth), and PostgreSQL for creating this website. We think our website will be very user-friendly and secure which is why users will use it very comfortably and sincerely. Finally, we were able to create a user friendly website in collaboration with our teachers.

7.2 Future Development in Scope

- Send announcements to both callers and restaurant owners.
- We will add an advanced mapping system to our project.
- In the future, we will add multiple restaurants and restaurant owners to our project.
- Users will be updated according to the admin response.
- In the future, we will add artificial intelligence to our website.
- Users, Restaurant Owners, Delivery boy & Admin can map each other in a corner.

References

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3. “Food panda”, visual Design:[available at]<<https://www.crunchbase.com/organization/foodpanda>> Last accessed 29.10.2022

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APPENDIX

PROJECT REFLECTION:

In the summer 2021 semester, we started our journey to make a system where users can easily find their favorite foods and restaurant owners can promote their food by saving precious time. We followed the model to apply and cover our system, and with all our hard work and spending a lot of time, we eventually reached our goal finally. So, we believe that our completed design project "An Online Based Web Application for Food Delivery" will be a positive and effective thing for both the users and the restaurant owners. And we will be continuously upgrading our system as early as possible.

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