

A- Online platform to Order Delicious Food

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A project/report submitted

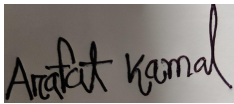
In partial fulfilment of the requirements
For the degree of
Bachelor of Science in Computer Science and Engineering

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DECLARATION

I declare that this report/ project entitled “A- Online platform to Order Delicious Food” is the aftereffect of my own examination besides as referred to in the references. The report/project has not been acknowledged for any degree and isn't simultaneously submitted in candidature of some other degree.

Signature:

A handwritten signature in black ink that reads "Arafat kamal". The signature is written in a cursive style with a horizontal line underneath the name.

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CERTIFICATE OF APPROVAL

The project report/ project entitled “A- Online platform to Order Delicious Food”
” is submitted to the Department of Computer Science and Engineering at University of Liberal Arts Bangladesh (ULAB) in halfway satisfaction of the necessities for the level of Bachelor of Science.

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DEDICATION

exquisite guardians, who gave me interminable love, trust, steady support throughout the long term, and for their supplications.

To my coaches and companions for their understanding, backing, love, and for persevering through the good and bad times during the fulfillment of this theory.

This report/thesis is dedicated to them.

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ABSTRACT

This is a little endeavor for A-online platform to order delicious food. The basic idea is that customers can buy food using the web. The Online food ordering structure engages vendors to course of action online food ordering system, customers to scrutinize the restaurant and a framework boss to help and keep up plans of restaurant groupings. It helps in purchasing the things in the food anywhere through the web by using an android devices trade. But unfortunately, most of the businesses of our country have only offline facilities, especially for small businesses. So, during the coronavirus pandemic, most of the small businesses have shut down because of safety. We have learned that shifting business to online is really a necessity. To solve this problem to some extent, I will build an e-food site which will help to come into play small business online and provide more safety for the customer during this pandemic. This project deals with developing an e-food website for online, you can sell all kinds of food here . This is my final year project. I implemented this project by using front-end execution, I utilized ejs, Scss, JavaScript and React library. For back-end execution, I utilized Express Js, Node js, laravel Mix and MongoDB. For this task I utilized visual studio code with a live worker. There are two types of Features using my project. User action and admin action. IN the user action Client will actually want to add items to the truck. Client will actually want to erase items from the truck. Clients can view the food by perusing the site without login. Clients can see the orders and allotted addresses. Clients can get enlisted to put in a request. In Admin Actions, Admin will actually want to add food to the information base. Administrator will actually want to see food. Administrator will actually want to alter items. Administrator will actually want to erase food from the information base. This is an endeavor with the objective to encourage an essential site where a customer is given a food crate application and to consider the advances used to cultivate such an application. This document will inspect all of the fundamental headways to make and complete a food business webpage for e-food.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

In our country, we use the internet by smartphone and day by day. Nowadays people like to have things done with the touch of their fingertip. During this pandemic, this necessity has increased both for the buyer and the seller. Considering this present trend of the market, I am building an e-food site especially for the small business who have still out of these scopes.

Nowadays, each particular field is endeavoring to calm human existence. For a couple of years there has been tremendous improvement of web diners. It's basically a lone window for mentioning from various series of restaurants. Basically, "Online Food Ordering System" can be portrayed as a clear and favorable way for the customers to purchase food on the web, without going to the restaurant. This structure is incredibly useful to the people who are amazingly involved in work or at home and don't have the chance to head outside or cook the food. Customers don't really must have specific data to work it. Since it is arranged in an extremely unassuming manner. It outfits an absolute dashboard with information about menus, orders, etc This structure can be used in any web based food industry. Along these lines, it's basic, useful, absolutely clear food programming and besides customer very much discarded web mentioning system. The essential web based food mentioning administration, world wide server (presently known as waiter.com) was set up in 1995. The site at first changed just to northern california , later developing to a couple of extra metropolitan regions in the US. The Internet mentioning structure that I am proposing here, hugely enhances the mentioning framework for both the customer and the restaurant. System gives a keen and state of the art menu all available choices in an easy to use way. Customers can pick somewhere around one thing to place in a solicitation which will land in the Cart. Customers can see every one of the mentioned nuances in the truck preceding taking a gander at. At the end, the customer gets demand certification nuances. At the point when the solicitation is put it is entered in the data base and recuperated in stunning a lot of steady. This grants Restaurant Employees to quickly go through the orders as they are gotten likewise, measure all orders capably and enough with irrelevant deferments and disorder

I researched some of the existing e-food sites both from our country and other countries as well. I studied the following website:

- foodpanda.com.bd
- efood.live
- hungrynaki.com
- pathao food.com

- shohozfood.com

It's Fast and Easy :

One of the principle motivations behind why customers request food online is on the grounds that it's simply so advantageous and simple to them. Everything is readily available. Pretty much any individual who has a cell phone can utilize it to arrange food on the web. As indicated by a Harris Poll, Millennials are the main crowd for any business to have, especially an eatery. Nowadays, eatery feasting represents almost half (43%) of the normal family's spending plan distributed for food. What's more, twenty to thirty year olds are one of the main thrusts behind that measurement. Practically all twenty to thirty year olds (97%) utilize their cell phone for pretty much anything, including requesting food.

Better cost:

Buyers can buy food at a cheap rate from online because they find things affordable. It is less unpredictable to research costs and track down unparalleled regulations.

Instant Marketing:

As an eatery proprietor, you are continually attempting to showcase your café to acquire new clients and hold current ones. Solid and effective advertising efforts can set aside bunches of effort to design and execute. Nonetheless, internet requesting frameworks effectively furnish you with moment publicizing. Putting in no time flat putting your internet requesting framework on your site and online media pages makes publicizing for your business without consuming a lot of time or exertion by any means. Your web-based menu will draw in both present and imminent clients and assist you with building your business. All of this should be possible rapidly and helpfully in no time. That is much quicker than attempting to specialize and execute a whole promoting effort.

Better customers data:

Who are your standard customers? What do they like mentioning from your bistro? Which food things are popular? Is it genuine that they are aware of the headways and offers on the site? Do they support mentioning from a site or application? These and various other related requests can be tended to using assessment and encounters given by a fiery web mentioning system for bistros. This data is critical since you can use it to send assigned progressions to your customers and charm them to keep on returning. In-house courses of action grant you to explore mentioning examples and customer tendencies start to finish so you can change your menu, commitments, deal costs, and so on to give an altered understanding to everyone.

1.2 Motivation

Online food ordering system is suitable for everyone and straightforward enough for anyone to utilize on the off chance that they have a relationship with Wi-Fi and PC or cell. Due to this reality,

more customers like to purchase their needs online as opposed to making a beeline for the restaurants and getting it. Electronic shopping saves people a huge load of time and various things online are more affordable and have stacks of headway which could save a lot of money. With all of these benefits, the proportion of people ordering food on the web has extended reliably. The proportion of online clients has immediately extended each year. Web business web page is a rapidly creating stage for associations. Regardless, deplorably, most of the associations of our country have recently disengaged works especially for private endeavors. Subsequently, during Covid pandemic, most of the autonomous endeavors have shut in light of the fact that customers are prospering. To deal with this issue fairly, I will develop an online business page which will help with turning into a vital autonomous endeavor on the web and give more prosperity to the customer during this pandemic. Thus, there will be a difference in various associations separated online which will add to our economy similarly as augmentation of our own compensation. In our country, using the web by wireless and PC are extending bit by bit. Nowadays people like to have things gotten done with the piece at the tip of their finger. During this pandemic, this need has extended both for the buyer and the dealer. Contemplating this current example of the market, I am amassing a web business site especially for the privately owned businesses who have still out of these degrees.

This Inspiration area I will examine my inspirations, the inspirations come to me online commercial center in light of the fact that a couple of days prior I seen not many web based business holders start their business in locally that time I chose to begin my new business through on the web, I consider my profession in the event that I start online business I can lessen tedious for setting new live shop business. Online business is marvelous for everybody you can purchase the item through on the web and I can sell item of the food through online essentially, I'm chipping away at The Fiverr commercial center, and I have seen the greater part of the work are the interest on web-based business some objective arrangement I will make something for me something for my shopper, And presently I'm truly content with my work.

1.3 Objectives

Nowadays, E-food websites have become the most efficient way to buy food . The business which will start to use online media first will get benefited compared to others. Through E-food websites, high customer reach and high sales can be achieved. Customers can choose food from different types of food according to their choice. Considering all types of customers, the site is needed to be user-friendly and simple.

Admin and User will visit site for the following:

- Admin will add the product or deleted the product
- Admin or customer can view foods
- User needs to login to order food and view tracking
- User needs to get registered for payment

1.4 Methodology

The request begins by showing the login or determination structure. On the off chance that the client is referencing strangely, he/she needs to first 'Choose' and some time later they can begin seeing the plans. Else, in case it's not their first time then, at that point, they need to 'Login' with the capacities in general, for example, filling his/her first name, last name, telephone number, Email Id, address and secret word. Right when he/she has effectively embraced in, they will be prepared

for seeing the 'Show page' with a dashboard of menus, orders and food trucks. He/she needs to pick their top choice dishes from the menu, then, at that point, place their primary dishes in the food truck, this food truck will assist them with re-attempting the orders like broadening the total, clearing out the food things, and so on When he/she is finished changing their orders, they can checkout and will be diverted to the last sales page including their own subtleties, their orders, absolute total to be proper installment strategy. Finally, they can simply pay the sum by choosing the installment technique for their decision and just log-out. This above reproduction stream is concerning the client's perspective. Furthermore, the eatery administrator or staff can stay focused on the orders by reviewing the data set or by the notice.

1.5 Expected Outcome.

This undertaking is generally expected to change the regular importance of food order. Its essential expectation is that the aftereffect of this endeavor conveys comfort to our clamoring life by saving our huge time and energy. Consider the nuances and exact expenses from the office, home and wherever. Buy food anywhere in the world. Viably track down the central food using search. Online portion system helps the buyer and dealers similarly deal with and get the bill. No convincing motivation to the real get-together to sell or buy food.

1.6 Scope of Study

Today E-Commerce is involved more than buying and selling. It is also involved in marketing, developing, servicing and whole online processing. So, the demand for e-food sites is booming in Bangladesh. During the ongoing pandemic, it has become more demanding. Because of the easy access to the internet and secured payment system by the site, people are preferring to buy food from the home more and more. So new start-ups are finding their ground to kick start their business. Availability of excellent mobile technology is facilitating this business as well.

CHAPTER 2

LITERATURE REVIEW

Ventures who fall behind web based requesting frameworks will be abandoned from the cafés who have moved forward. By executing new innovation, it not just advantages the client's life yet in addition affirm the way, a portion of the genuine advantages of internet requesting framework:

- With occupied ways of life, a large portion of us incline towards comfort. At the point when the meals can be requested from their most loved cafés quicker, simpler and at their comfort, they lean more towards the framework since their necessities are met.
- Online food requesting permits the clients to put their request for all intents and purposes, whenever from anyplace. This eventually assists with saving the hour of the clients which can be burned-through positively on voyaging.

- It diminishes the work. By requesting over an application, it can ultimately diminish the staff work since it is supplanted by the machine.

- While the request is being taken over telephones or face to face there may be a few mistaken assumptions and orders probably won't be just exact. However, by setting it on the web, it can be more exact and clients have the controls, they can alter the orders over and over and make their request gem understood.

The accompanying are examines examines, everything being equal, and their connection:

E food-business is the way toward leading business on the Web. Its degree incorporates purchasing and selling as well as administrations, satisfying the necessities of clients and teaming up with colleagues. Business to business online business is savvy business. The chance for business-to-business web-based business is significantly more noteworthy. A distributor may offer items to the retailer. There is progressed internet business programming which support multi-level estimating. This assists with setting up online stores to offer favoured valuing to certain sellers and shared cost to other people. This incorporates web empowered drives of a venture to frame business linkages with another undertaking, seller, stockroom, or food. In this type of online business, e desk work and time-to-showcase get immensely decreased. All through the world, this web-based business mode is the greatest.

E-food has stand-out credits. The setback of real alliance will generally be the essential deterrent in online retail deals followed by the confirmation of individual data and security of monetary exchanges over the Web. It saw accommodation doesn't affect the standard of lead for the current situation to some degree influenced by security and protection issues. No relationship is worked between the client and the online food inside seeing clear online danger whether a client went through hours on the Web.

Inclination and decisions are fluctuating study various parts like the Web rise. In any case, this progress needs some more noteworthy game-plan identified with the purchaser's immediate. Customer direct investigation sees an overall model of purchasing conduct that portrays the cycles utilized by clients in settling on a buy choice those plans are significant to the advertiser as they can clarify and expect buyer buy lead.

Buyer points of view toward E-food normally been composed by two factors; one is trust, and another is seen benefits. Thusly, trust and saw benefits show up, obviously, to be the principal speculations of buyer lead toward online food. Also, data quality, stock restaurant name, web course of action, exchange limit, parcel, security/protection, development, hesitance, perspective, the client's time sense and client care are steadfastly shrewd of online food order fulfilment.

Albeit online business gets various opportunities in Bangladesh, there are various troubles that web business associations are experiencing. One of the huge challenges experienced by web business is development and the movement of inflation inside a comparative business and from business to buyers (Ladan, 2016). Moreover, security issues and moved ought to be highlighted before starting the business since numerous developers are keeping down to take your information especially charge card information (Ladan, 2016). Of course, purchaser unwaveringly ought to be the especially centered around as there are inestimable competitors are out there. To satisfy the solicitations of buyers, web business essentially have the choice to respond to customer needs and perform practices fittingly in a quick, strong, and secure way. Additionally, online business should keep security rules and controls to achieve and hold the customer trust and trust to help watching out (Ladan, 2016). Sufficient rules for security frameworks and organizations for internet business framework are

accessible for engineers to foster online business framework. Nonetheless, various quantities of infection programs are as of now running and new infections are being spread by programmers to get access most of the confirmation and approval of online business framework (Ladan, 2016).

In this paper, distinctive security dangers and difficulties of internet business has been examined with accessible arrangements. Security and trust are essentials for making a climate positive for internet business. Except if guaranteeing purchaser assurance, buyer's information insurance and countering cybercrime online business area isn't satisfied and can't draw in likely shoppers (Online business Strategy Structure for Bangladesh, 2017).

In the US, certain E food business practices are overseen by the Government Exchange Commission (FTC). These activities consolidate yet not confine to the use of business messages, web advancing and buyer insurance. The CAN-SPAM Demonstration of 2003 develops public rules for direct promoting over email. The Government Exchange Commission Act controls a wide range of publicizing, including web advancing, and communicates that advancing ought to be straightforward and non-misleading. Using its situation under Segment 5 of the FTC Act, which blocks ridiculous or interesting practices, the FTC has conveyed different cases to approve the certifications in corporate insurance explanations, including ensures about the security of purchasers' up close and personal data. Consequently, any corporate security system related to online business activity may be subject to approval by the FTC.

In China, the Broadcast correspondences Guidelines of Individuals' Republic of China (declared on 25 September 2000), decided the Service of Industry and Data Innovation (MIIT) as the public position office controlling all transmission exchanges related exercises, including food business. Around a comparable time, The Managerial Measures on Web Data Administrations passed on, is the significant conclusive guideline to address advantage making rehearses passed through the Web and develop the construction for future standards directing electronic business in China. On 28 August 2004, the 11th get-together of the 10th NPC Standing Advisory social affair got The Electronic Mark Law, which controls information message, electronic engraving certification and genuine responsibility issues. It is viewed as the fundamental law in China's online business foundation. It was an achievement all through improving China's electronic business foundation, and in addition implies the entering of China's quick movement stage for electronic trade requests.

Web business is surely not another industry, talking, yet it is making another monetary model. By far most agree that web business will unequivocally influence money related society later on, yet in its starting stages its belongings are difficult to gauge. Some have seen that online business is a sort of profound unrest. Online business appreciates distinctive social advantages: one, the expense of keeping a web business is low when separated and running a real store; two, there is no lease to pay on excessive premises; and three, business allots are smoothed and less expert hours are relied upon to keep a typical business with no issue. In the space of law, tutoring, culture and besides methodology, web business will continue rising in influence. Web business will really carry individuals into the information society. The board Data Frameworks (MIS) the data frameworks office is generally liable for the organization of Web based business. This control covers issues going from framework investigation to framework joining, also arranging, and execution, security, and installment frameworks, among others. 12 Bookkeeping and inspecting the administrative center activities of electronic exchanges are like different exchanges in certain regards, yet extraordinary in others. For instance, evaluating electronic exchanges presents a test for the bookkeeping calling; so, does the advancement of systems for. Money saving advantage defense.

The board's foodtrade endeavors should be overseen appropriately, and because of the interdisciplinary idea of online business, its administration may require new methodologies and hypotheses. Business Law and Morals Legitimate and moral issues are critical in Internet business, particularly in a worldwide market. An enormous number of administrative bills are forthcoming, and numerous moral issues are interrelated with lawful ones, like security and protected innovation. Others a few different orders are engaged with different parts of online business less significantly for instance, semantics (interpretation in global exchanges), advanced mechanics and tactile frameworks, activities research/the executive's science, insights, and public arrangement and organization. Additionally, Internet business is Important to designing medical services.

Koufaris (2002) saw that both shopping joy and saw handiness (site page) decidedly expect the supposition to re-buy over on the web. Despite what is generally expected, Lee and Lin (2005) discovered shopping joy can expand the inspiration driving new clients at any rate doesn't influence clients to return. Truly, the web store which uses respect added instruments in the web search device and giving clients a problematic encounter may manufacture clients' shopping satisfaction. Moreover, if there are generally the more regularly clients back to the web store, their shopping delight by then be compelled by their responsibility with the thing (Marios Koufaris, Kambil, and LaBarbera, 2001)

Nowadays, people use web as an ordinary contraption to get to their messages, do online endeavors, to scrutinize online element, look for certain information and various limits (Bellman, 2001). This regular use of the Web by these people takes them ordinarily to work it as a client's stop also. Additional constituents found which has an impact to the buying behavior of the buyers and their viewpoints consolidate their lifestyle natural variables, explicit prerequisites, obligation of the thing, aura to trust, how much buyers can without a doubt share their own information and their excitement to contribute on web buying (Bellman et al 1999).

The capacity of the buyers to do food at the restaurant is implied as their objective to shop on the web. As often as possible, this factor is assessed by the capacity of the purchasers to purchase and to return to a comparative site for making further shopping. This by then moreover adds to the buyer's certainty on the particular site. The objective of the customer to make a purchase through web is staggeringly annexed with their attitude heading for buying from web and chooses an impact on their last dynamic and buying conduct (Jarvenpaa et. al., 2000).

CHAPTER 3

Requirements Analysis and Design

3.1 Requirements Analysis

Necessity examination is a colossal and central development after elicitation. We explore, refine, and look at the gathered necessities to make consistent and unambiguous requirements. This development overviews all necessities and may give a graphical point of view overall system. After the completion of the examination, it is generally expected that the understandability of the undertaking might improve basically. Here, we may moreover use the relationship with the customer to clarify points of chaos and to grasp which necessities are a higher need than others.

The different strides of prerequisite investigation are displayed in fig:

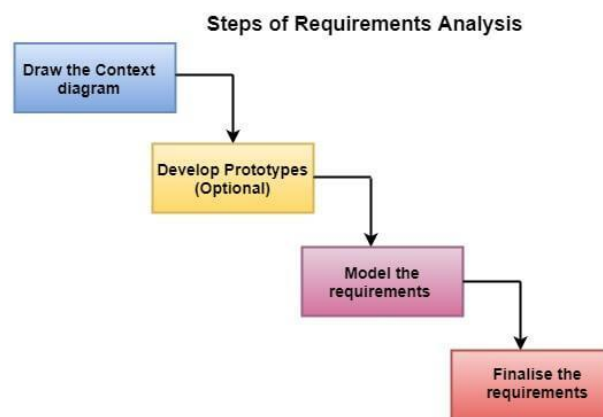


Figure 1: Steps of requirements analysis

(i) Draw the setting graph: It is the setting layout is a fundamental model that describes the cutoff points and interfaces of the proposed systems with the rest of the world. It recognizes the components outside the proposed system that help out the structure.

(ii) Development of a Prototype (optional): One effective way to deal with find what the customer needs is to assemble a model, something that looks and preferably goes probably as a part of the system they say they need. We can use their analysis to change the model until the customer is satisfied industriously. Subsequently, the model helps the client with imagining the proposed structure and additions the understanding of the necessities. Exactly when architects and customers don't think about a part of the parts, a model might help both the social affairs with taking an authority decision.

(iii) Model the necessities: This cycle when in doubt includes diverse graphical depictions of the limits, data components, external components, and the associations between them. The graphical

view might help with finding off base, clashing, missing, and pointless essentials. Such models consolidate the Data Flow diagram, Entity-Relationship layout, Data Dictionaries, State-progress outlines, etc

(iv) Finalize the necessities: After showing the essentials, we will have an unrivaled perception of the structure direct. The anomalies and ambiguities have been perceived and corrected. The movement of data among various modules has been taken apart. Elicitation and inspecting practices have given better comprehension into the structure. By and by we finish up the separated necessities, and the accompanying stage is to record these requirements in an embraced plan.

There are two types of Features using my project. User action and admin action. IN the user action Client will actually want to add items to the truck. Client will actually want to erase items from the truck. Users can see the food by browsing websites without login. Users can see the orders and assigned address. Users can get registered to place orders. In Admin Actions, Admin will have the option to add items to the data set. Administrator will actually want to see food items. Administrator will actually want to alter items. Administrator will actually want to erase items from the information base.

There are four types of requirements in my project. The requirements are User Requirement, Interface requirement, functional requirement, and non-functional requirement. I tried to make the website user-friendly so that users can browse the website easily for their products. User requirements are User will be able to browse the whole website without facing any ambiguity. Users can understand the website with minimum English language knowledge. I will try to implement Bangla language later. Users will be able to place orders and checkout easily and safely. Interface Requirements are the graphical user interface will be easy to understand. The system should be able to navigate the user to the next step. Functional Requirements are the system will enable users to create an account and login. The system will provide facility to the admin to view, edit, add and delete products. Non-Functional Requirements are Fast performance and response time. Easily maintainable. Usable for targeted communities. Possible to upgrade in the future. Data backup will be implemented. Enough bandwidth is ensured. 24 hour's server facility.

3.2 Design:

Software design principles are stressed over offering expectations to manage the unpredictability of the arrangement communication effectively. Reasonably managing the complexity will not simply reduce the effort needed for setup anyway can similarly diminish the degree of introducing goofs during plan.

MVC is an arrangement plan that isolates application into three reliable sections which are model, view, and controller. All of this part performed express endeavors.

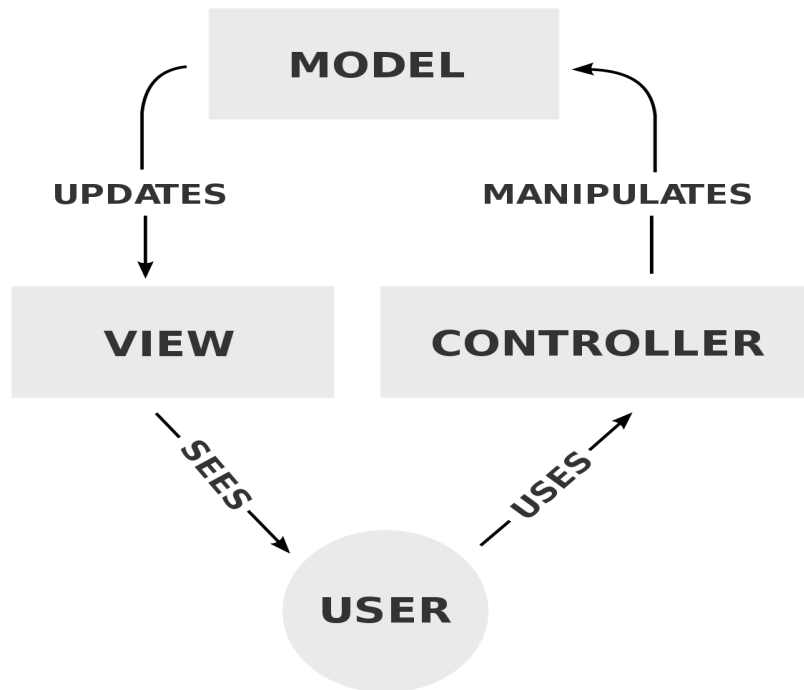


Figure 2: MVC Design Architecture

Model

The model consists of all related logic the user uses. For instance, a client item will recover the client data from the information base and control it.

View

The view is used to represent the UI rationale of the site. For instance, client will see all the UI of site like item, search box and so on

Controller

Controller is the interface among models and views which measure all the rationale and solicitations, control information by model and give yield by see. For instance, the client regulator will take input, measure information and give yield by utilizing model and view.

3.2.1 Diagrams

Customer Activity Diagram

This is a customer activity diagram. There is a condition that if he is Register then he can log-in and if he does not register then he can't log in and also sign up first. Then he can search food, view food, then add to cart and view or edit the cart and he just confirm the order. He/she coz payment method, he/she coz card payment or cash on delivery and the system place the order. This is and of the activity

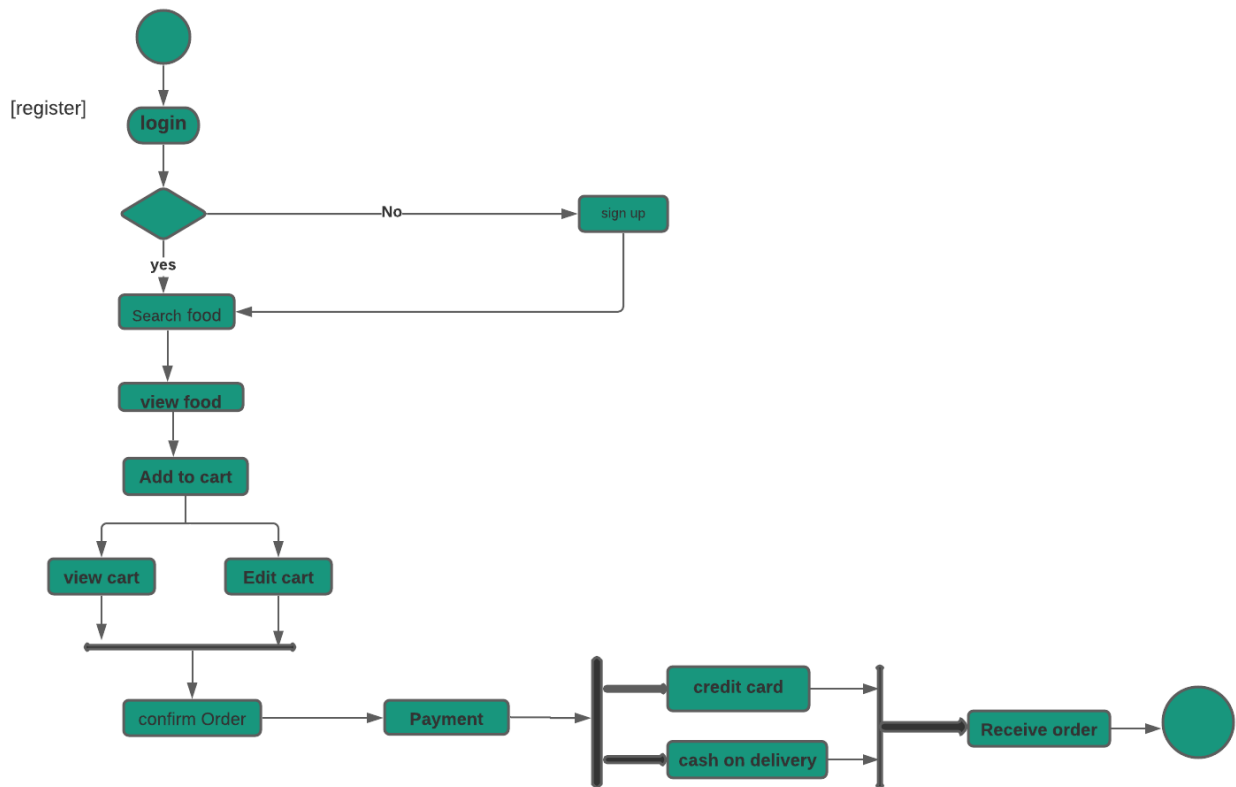


Figure 3: customer activity diagram

Entity-Relationship Diagram:

An ERD shows the legitimate construction of the information base by dint of outline. It portrays the connection between sets of substances.

ERD Symbols and Notations: Entity-Relationship diagram Symbols and Notations basically contains three fundamental images which are square shape, oval, and precious stone to address connections between components, elements, and qualities. There are some sub-components which depend on fundamental components in the ERD Diagram. ERD is a visual portrayal of information that depicts how information is identified with one another utilizing distinctive ERD Symbols and Notations.

This is the ERD of My project. In this diagram there are many entities. Some of the entities are Menu, customer, food, order,manage,card,place etc.name. Email. Address are attributes of customer.name price are the attributes of food.

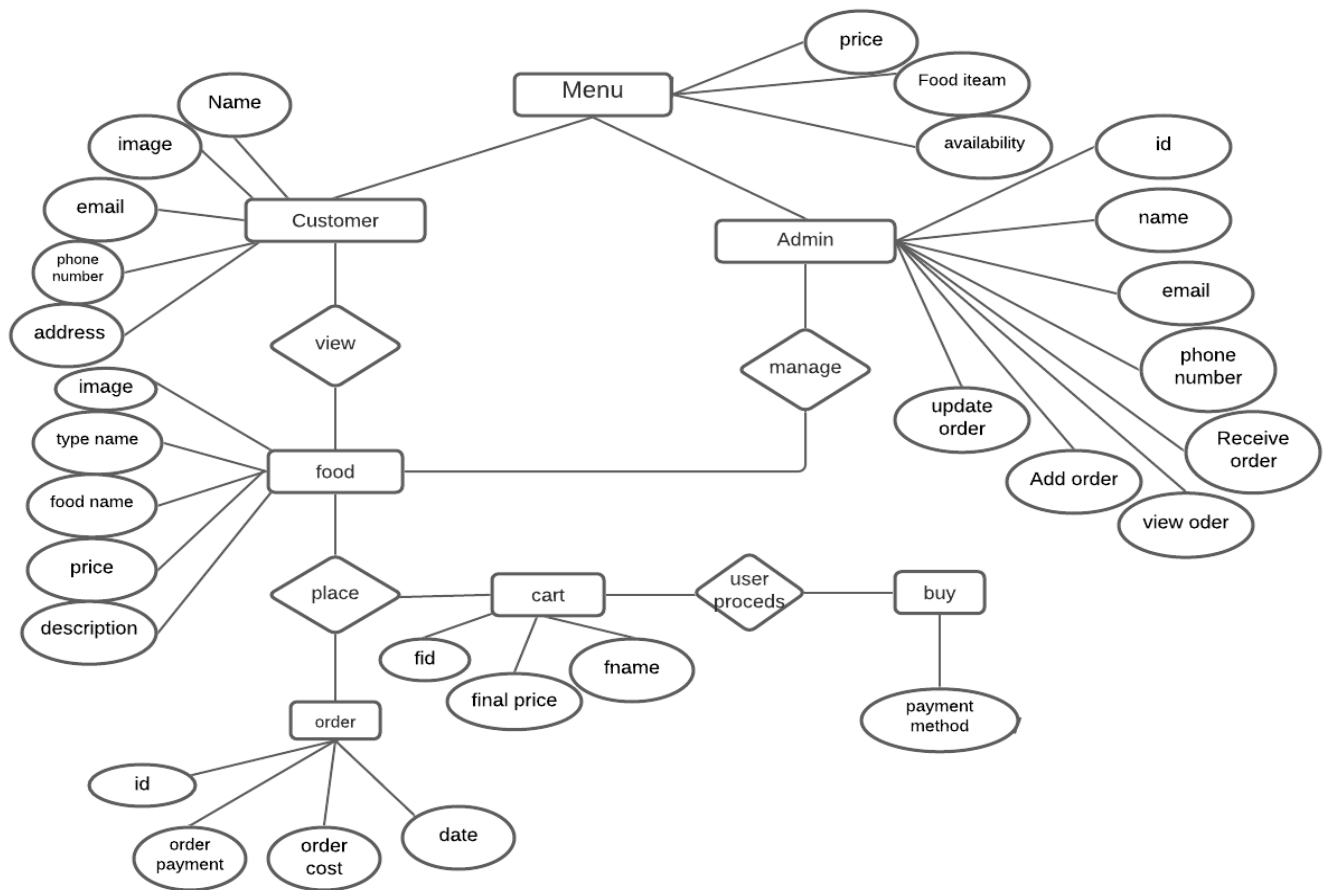


Figure 4 : ER Diagram

Use Case Diagram

A use case outline is the easiest portrayal of connection among clients and use cases. Uniformly shaped ovals that address the different uses that a customer may have. Performers: Stick calculates that address people truly using the usage cases. Affiliations: A line among performers and use cases. This is a use case diagram of my project. In the above use case chart, there are two entertainers named Customer and an Admin. There are a sum of nine use cases that address the particular usefulness of an internet looking for online food order. Each entertainer cooperates with a specific use case. Clients can Sign up, sign in, add to truck, purchase food, eliminate food, audit food, installment, and view requests. The subsequent entertainer named administrator can associate with every one of the functionalities or use instances of the framework. This entertainer views food, sign in, sign up, and add food and review food

Use case diagram

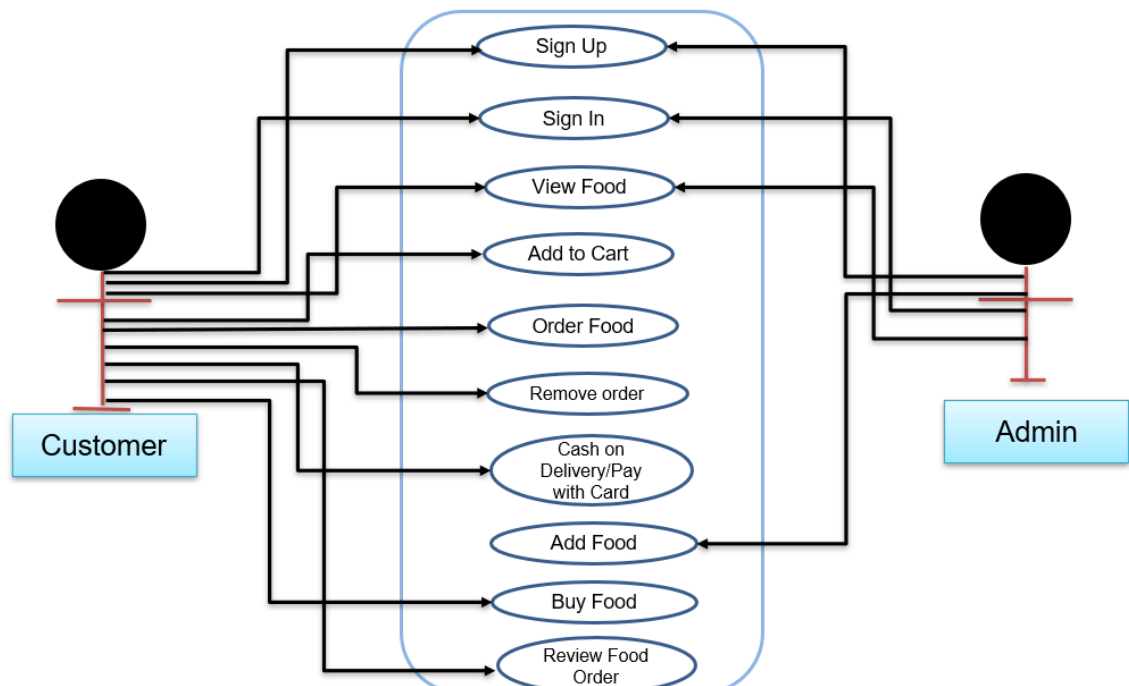


Figure 5: Use Case Diagram

Class Diagram

A class diagram is the object oriented modeling and structure of the application which can be useful for the code implementation. This is a usually determined appearance of the arrangement of the application, and for unquestionable appearance, making an interpretation of the models into programming code. This is the class outline of my task. The name of the class is just required in the graphical portrayal of the class. There are five classes in this diagram. First class name is Customer, second class name is Menu and third-class name is Order.fourt class is Admin and five class is payment. A quality is named property of a class which depicts the article being displayed. In the class chart, this part is set just beneath the name-compartment. In the request class ascribes order ID, product Key, product Quantity, name, email, address, phone number. In the customer class attributes are name, email, and password. In the admin class attributes are name, email, and password. In the order class operation is to order status. In the customer class operations are add to cart, buy Food, remove Food, review Food, payment. In the admin class operations are view order and add Food.

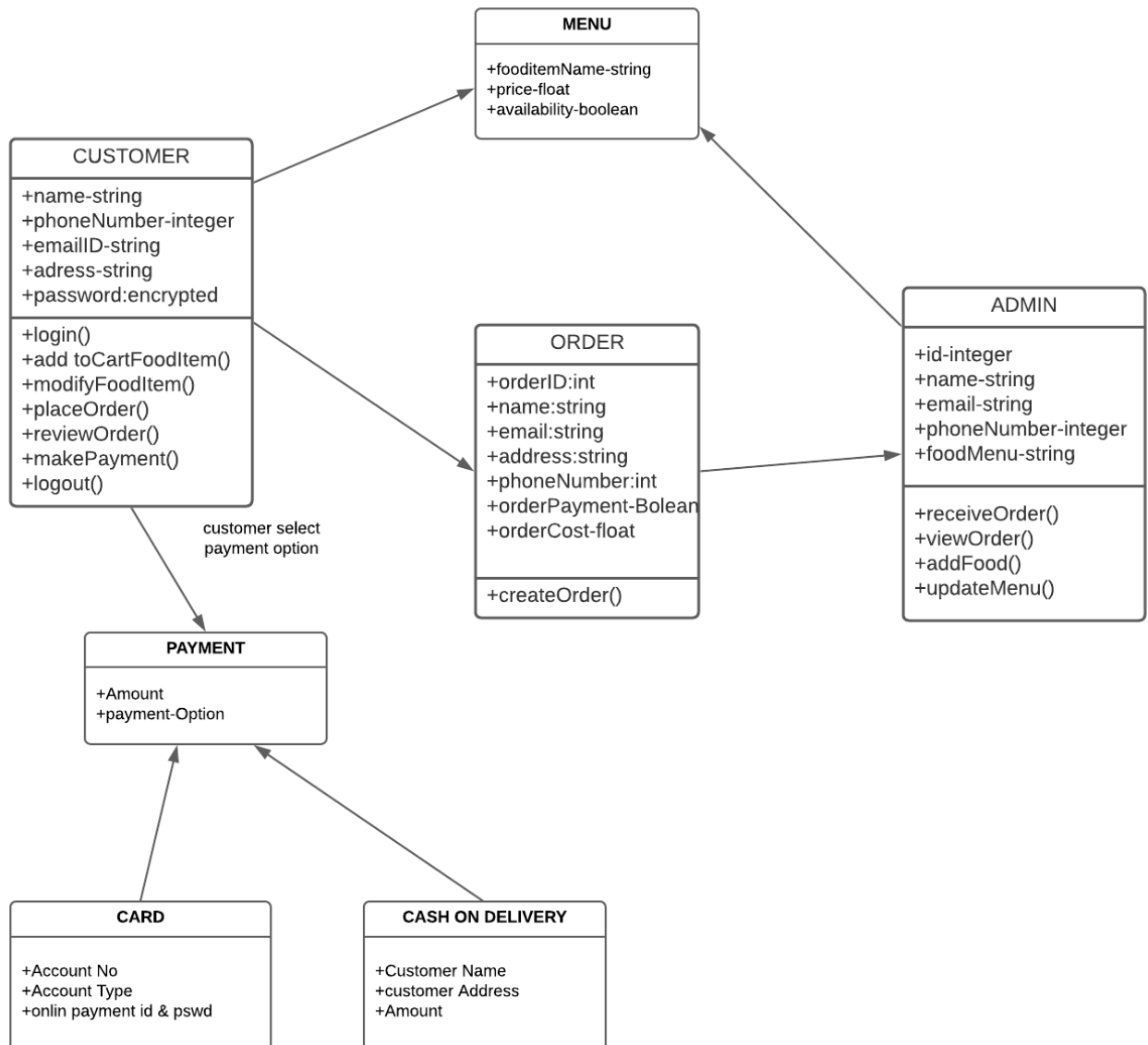


Figure 6: Class Diagram

Chapter 4

IMPLEMENTATION AND DISCUS

Development Model

The software development are the various cycles or methods of reasoning that are being picked for the headway of the endeavor depending upon the errand's focuses and goals. There are various progression life cycle models that have been made to achieve different required objections. The models demonstrate the various periods of the cycle and the solicitation wherein they are finished. Here are distinctive Software headway models or methods. There are so many models, for example, cascade model, Incremental model, Waterfall model, facilitated model, RAD model, and Spiral model.

I choose waterfall model for my project for the following reason:

Works fine when the requirements are well defined.

This model works for such a small project.

This model has the facility to arrange tasks easily.

Due to the rigidity of this model, there are deliverables for each phase and option for review.

In this model, the milestones are shown clearly.

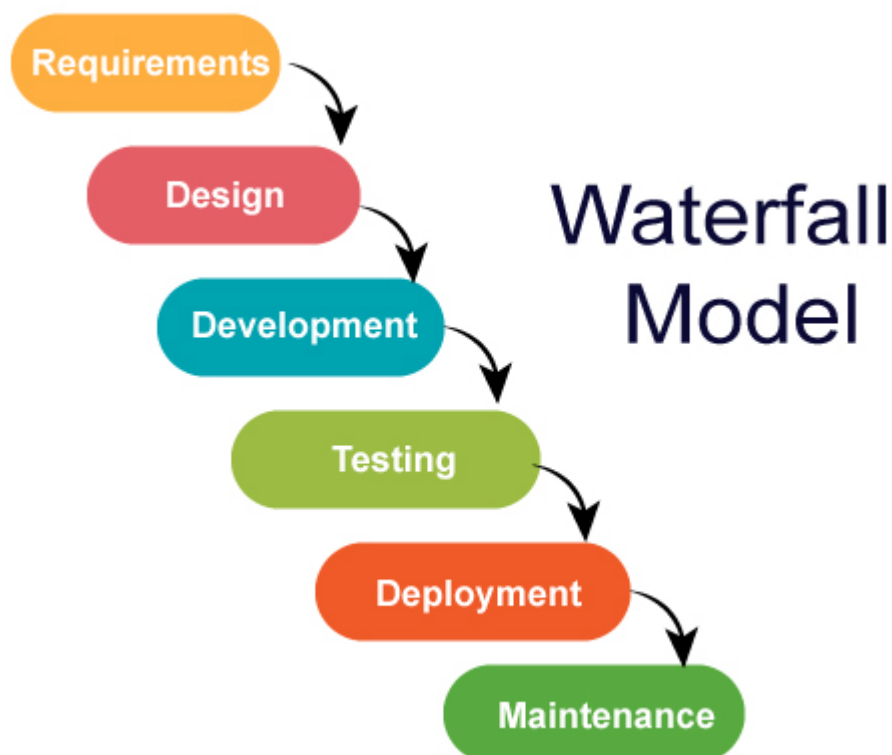


Figure 7: Waterfall Model

Fundamentally, there are two sides to execution. One is the user side; another is the administrator side. The view will be as follows.

User View: The front-end part, including pages which customers can see, is made by using formats so it can work with plan and stacking measures. This part, in the appearance, the guideline menu is dependable, along these lines it is not difficult to utilize. Considered as the most of the time access when contrasting and different pieces of the site, front end pages should utilize format, and thus, saving transmission capacity and number of information base gets to. Those inquiries consist of jointed MongoDB and Firebase proclamations, which ask simply primary data from the data set. The essential view and the carried out part will be given beneath. Clients can peruse sites without signing in. They can add and erase food items at their own will. At the point when they will arrange for something, they need to relegate their addresses. They should go through an enlistment for setting requests.

Admin View: This part offers an office to every vendor to adjust and change information in his own store. Giving endorsement check to part, store ID and future assumption the back-end system can securely guarantee customer's prohibitive information. Likewise, all site hits use meeting components to debilitate truly portrayed elements by customers. Applying straightforward methodology and focusing on the web. Administrator will actually want to add food items to the information base. Administrator will actually want to see items. Administrator will actually want to alter items. Administrator will actually want to erase items from the information base. In this cutting edge age, innovation is changing each day. Thus, working with cutting edge innovation is a must for consumer loyalty.

I used the following technology for my project. I am doing Framework in my project to react to the full functionality of the website. Node and Express for running web server and API. Languages are HTML and CSS with flexbox for responsive design (Front-end), Also used BOOTSTRAP. JavaScript for Data Manipulation and making the website dynamic. JSON token for user authentication and user http request. The databases are MongoDB and Firebase. I used this project software name: Visual Studio Code for coding easily, Google Chrome Browser for running websites.

HTML: HTML implies (Hypertext Markup Language).HTML is the vital construction square of pages: finally the aggregate of the advances we talk about in this course of action twirl around the turn of events and control of HTML. HTML takes after the wood from which we foster a thing: we can pretty much do nothing and not need to know a ton, yet in case we need to create a house or an insane ride, we ought to find a touch more with regards to its weight, thickness, strength.

CSS:CSS represents falling templates. So, CSS is a plain language that makes a site look more engaging than outright or unacceptable bits of text. Though HTML to a great extent decides literary substance, CSS decides visual design, format, and feel.

JAVASCRIPT: JavaScript is a lightweight, unraveled programming language. It is proposed for making network-driven applications. It is free to and joined with Java. JavaScript is incredibly easy to execute on the grounds that it is joined with HTML. It is open and cross-stage.

REACTJS: React.js is open source JavaScript library that is utilized for developing UIs especially for single-page applications. Respond licenses manufacturers to make monstrous web

works that can substitute information notwithstanding reloading the page. The significant justification for React is to be quick, adaptable, and basic.

Firebase: Firebase Real-time Information base - The Firebase Real-time Data set permits you to store and request customer data and makes it available among customers and helps you with affirming and directing customers who access your application.

MongoDB: MongoDB is a record information base, which stores information in JSON-like documents. We recognize this is the best brand name approach to manage pondering information and is widely more expressive and astonishing than the standard line/segment model.

Visual studio Code: Visual Studio Code joins the straightforwardness of a source code chief with dumbfounding organizer tooling, as IntelliSense code acknowledgment and exploring. Visual Studio Code is a lightweight in any case impossible source code head which runs on your work district and is accessible for Windows, Macintosh OS and Linux. It goes with assistance for JavaScript, Typescript and Node.js.

HTTP POST, GET: The application utilizes HTTP POST, HTTP GET to remove html code of the necessary pages. The HTTP POST is utilized for embedding information to the data set while the HTTP GET is utilized for recovering the source code from explicit pages.

Home Page:

This is the home page of the project. There are four buttons: the first button is log-in, log out. 2nd one register button, 3rd one search button and 4th one react button. In the shop section display all the products. In the manage Inventory section admin can add the food. If a customer wants, he or she can remove the order in the right-side display order summary. In the order summer means detailed orders such as Items ordered, products price, . This is the home page. I have made a folder of products in the homepage with fake data, using JSON. There is a connection in the database named product. I have posted the product in the database by post method. Writing a method, I have inserted. I have used many methods so that I can post all products at a time. For the display purpose of the product, I used the get method.

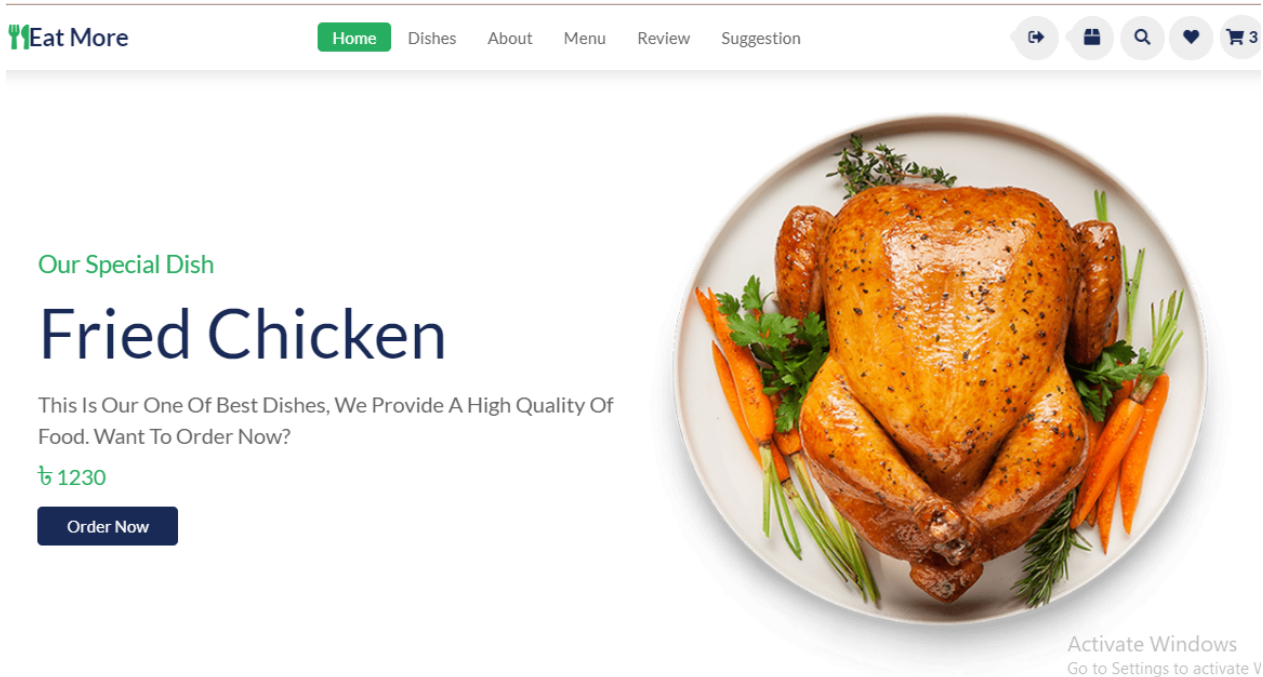


Figure 8: Home page

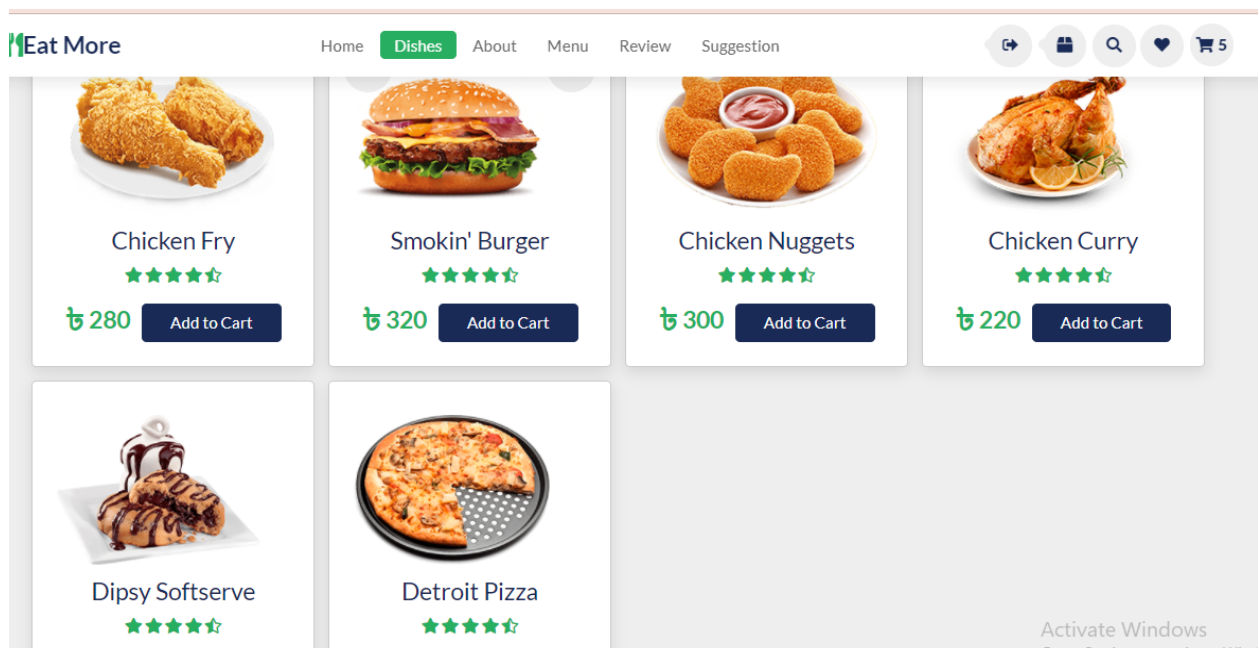


Figure 9: Dishes page

This Dishes is so much popular

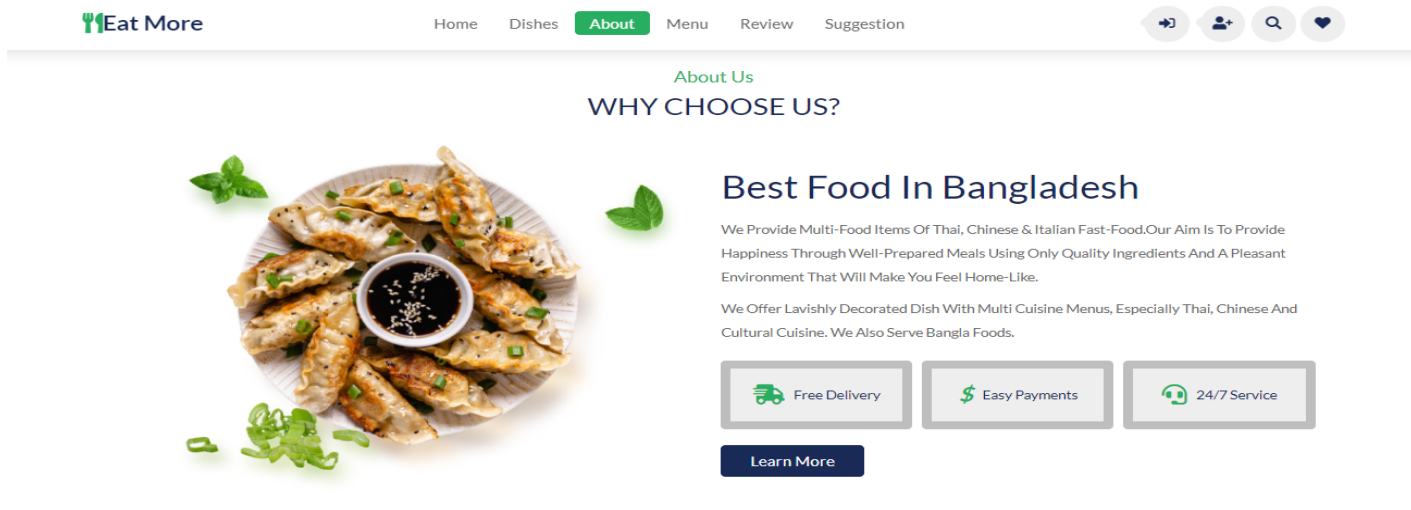


Figure 10: About page

We provide Multi-food items of Thai, Chinese & Italian fast-food. our Aim to provide happiness through well -prepared meals

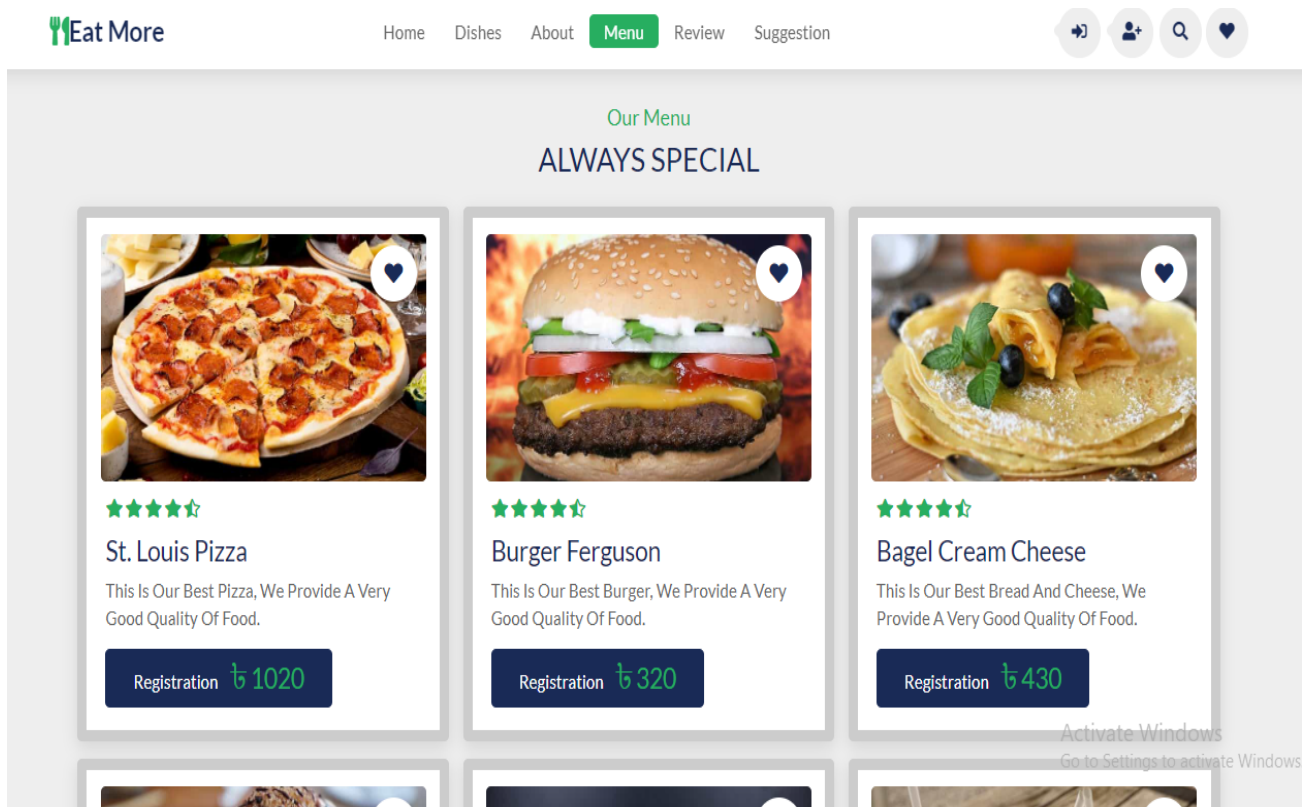


Figure11: Menu page

This Menu Always Special

Customer's Review

WHAT THEY SAY



Tazwar Faiaz

★★★★☆



Lorem Ipsum Dolor Sit Amet Consectetur Adipiscing
Elit. Sit Fugiat Consequuntur Repellendus Aperiam
Deserunt Nihil, Corporis Fugit Voluptatibus Voluptate
Totam Neque Illo Placeat Eius Quis Laborum
Aspernatur Quibusdam. Ipsum, Magni.



Arafat Kamal

★★★★☆



Lorem Ipsum Dolor Sit Amet Consectetur Adipiscing
Elit. Sit Fugiat Consequuntur Repellendus Aperiam
Deserunt Nihil, Corporis Fugit Voluptatibus Voluptate
Totam Neque Illo Placeat Eius Quis Laborum
Aspernatur Quibusdam. Ipsum, Magni.



Abdul Kamrun

★★★★☆



Lorem Ipsum Dolor Sit Amet Consectetur Adipiscing
Elit. Sit Fugiat Consequuntur Repellendus Aperiam
Deserunt Nihil, Corporis Fugit Voluptatibus Voluptate
Totam Neque Illo Placeat Eius Quis Laborum
Aspernatur Quibusdam. Ipsum, Magni.

Figure 12: Customer Review

The customer can easily wear his ordered food review

Help Us

ANY SUGGESTIONS?

Your Name

enter your name

Your Number

enter your number

Your Email

enter your email

Your Topic

food delivery system

Your Address

enter your address

Your Message

enter your messege

[Click Here](#)**Figure 13 :Any suggestions**

You can easily give any types of suggestions

Register Page

DO YOUR REGISTER

Your Name kamalrahman	Your Email kamalrahman120@gmail.com
Your Contact Number 01712090626	Your Address HOUSE#121 EAST KAZIPARA 4/A MIRPUR KAFRUL D
Upload Your Recent Picture Choose File IMG_0049.JPG	Your Password
Registration Already Have Account?	

Figure:14 Register page

When a customer or user comes to a website, he will return a view that he has not registered 1st of all registration first. you write your name, your email, contact number, address coz a picture, to take a customer profile picture

Eat More

Home Dishes About Menu Review Suggestion

Login Page

LOGIN FOR ORDER

Your Email rahmanarafat@gmail.com	Your Password
Login Don't Have Account?	

Locations Mirpur Mohammadpur Banani Dhanmondi Gulshan Gazipur	Quick Links Home Dishes About Menu Reivew Suggestion	Contact Info +880 1780 139086 +880 1537 220691 Arafat.Kamal.Cse@Ulab.Edu.Bd Arafat.Kamal@Gmail.Com Mirpur - 10, Dhaka - 1216, Bangladesh	Follow Us Facebook Twitter Instagram LinkedIn Activate Windows Go to Settings to activate Windows.
--	---	--	---

Figure15: Login page

login page A login page is a page or a segment page to a site that requires customer ID and check, regularly performed by entering a username and mystery word mix. Logins may offer permission to an entire site page or part of a site. Customers have to login if they want to order anything.

Add to cart and Payment method:

Eat More Home Dishes About Menu Review Suggestion

	Hot Pizza Eat More	normal	normal	1 Pcs	₹ 940
	Chicken Nuggets Eat More	normal	normal	2 Pcs	₹ 600
	Smokin' Burger Eat More	normal	normal	2 Pcs	₹ 640

Total Amount: ₹ 2180

Cash on delivery

01712090626

Mirpur - 10, Dhaka - 1217

Order Now

Figure16: Add to cart and choice cash on delivery

Eat More Home Dishes About Menu Review Suggestion

ORDER SUMMARY

	Chicken Nuggets Eat More	normal	normal	1 Pcs	₹ 300
	Smokin' Burger Eat More	normal	normal	1 Pcs	₹ 320
	Chicken Curry Eat More	normal	normal	1 Pcs	₹ 220

Total Amount: ₹ 840

Pay with card

01712090626

Kafrul1216

4242 4242 4242 4242 09 / 21 123

Order Now

Figure17: Add to cart and choice pay with card

The above snapshot is of the pay with card

After logging into the page, they will see a payment option and that must be fulfilled. After the procedure they will see the display payment proceed successfully. After completing this step successfully this information of the customer will be stored in the database

Customer order:

MY ORDERS

Orders	Status	Admin Email	Admin Contact	Placed Time	Placed Date	Payment Status
61513ae22ea2a200f0678d6b Spicy Noodles - 1 Pcs Chicken Curry - 2 Pcs Chicken Nuggets - 1 Pcs	Order_placed	Arafatkamal210@Gmail.Com	+8801780139086	09:30AM	27:09:2021	Paid
615139a42ea2a200f0678d2a Hot Pizza - 1 Pcs Chicken Nuggets - 2 Pcs Smokin' Burger - 2 Pcs	Order_placed	Arafatkamal210@Gmail.Com	+8801780139086	09:25AM	27:09:2021	Not Paid

Figure18:My order

The above snapshot is of customer place order successfully

Payment Document:

New Business

Activate account

Search

Create

Help

Home

Payments

Balances

Customers

Products

Reports

Connect

More

Developers

Test mode

TEST DATA

Payments

All payments

Disputes

All transactions

Invoices

Subscriptions

Quotes

Payment links

Payments

All

Succeeded

Refunded

Uncaptured

Filter

Export

Create payment

	AMOUNT		DESCRIPTION	CUSTOMER	DATE	
	₹1,060.00	INR	Succeeded	Food order: 61513ae22ea2a200f0678d6b	Sep 27, 9:30 AM	
	₹2,900.00	INR	Succeeded	Food order: 613ccbc6d386b063ca742c3	Sep 11, 9:35 PM	
	₹710.00	INR	Succeeded	Food order: 6133896838e7172a04329107	Sep 4, 8:57 PM	
	₹900.00	INR	Succeeded	Food order: 6133210a183c8332201fb0a0	Sep 4, 1:32 PM	
	₹900.00	INR	Refunded	Food order: 61332108183c8332201fb09c	Sep 4, 1:32 PM	
	₹1,200.00	INR	Succeeded	Food order: 61331c70131335127ccbc456	Sep 4, 1:12 PM	
	₹3,500.00	INR	Succeeded	Food order: 61331a83131335127ccbc3e4	Sep 4, 1:04 PM	

7 results

Previous

Next

Figure19: payment status

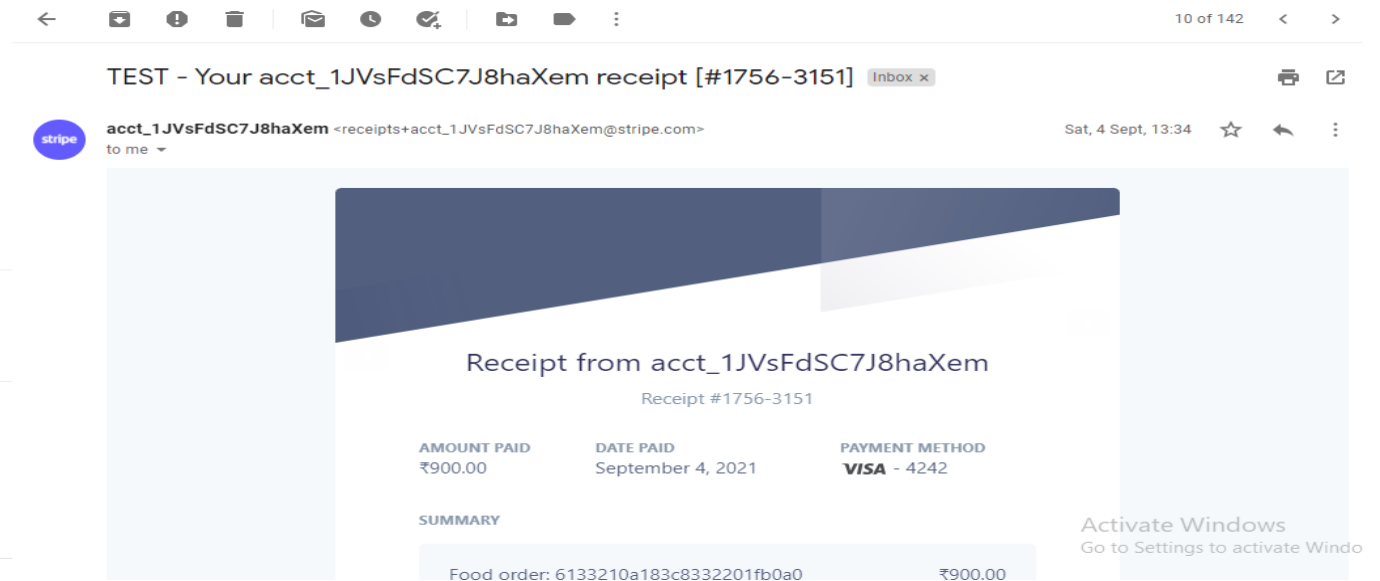


Figure 20: payment done successfully

Admin Panel:

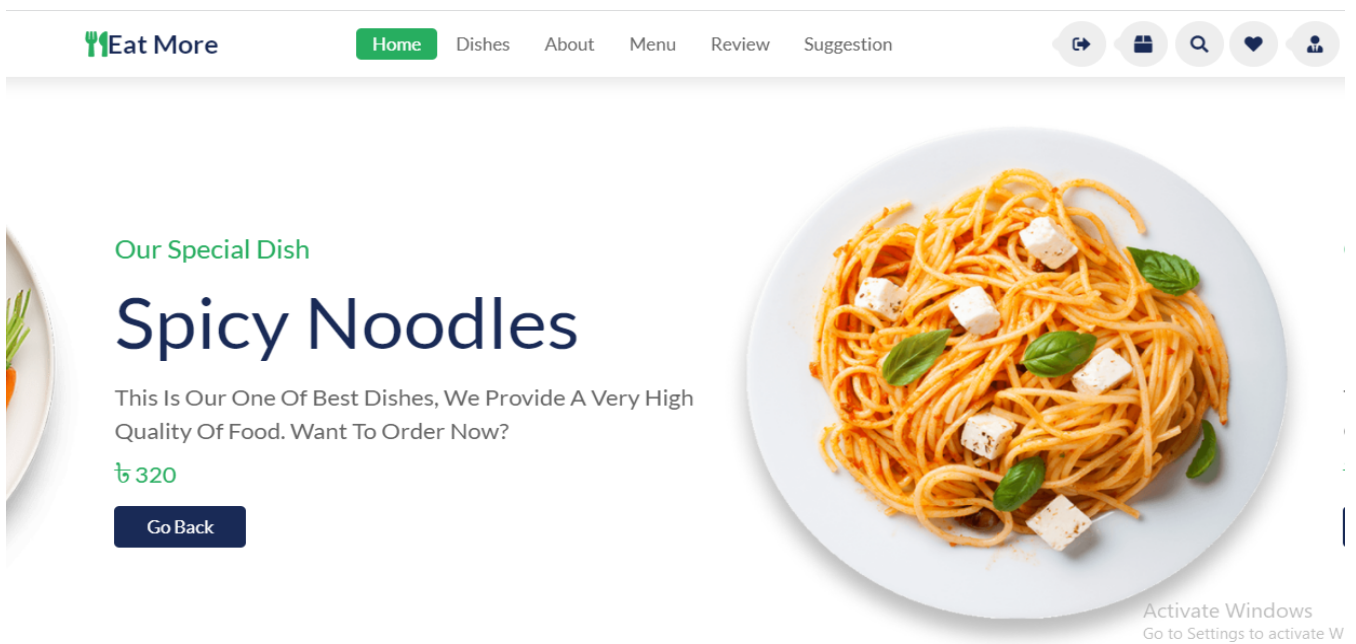


Figure21: Admin home page

CUSTOMERS ORDER

Image	Orders	Customers Contact	Customers Email	Customers Address	Order Status	Placed Time	Placed Date	Payment Status
	61513ae22ea2a200f0678d6b Spicy Noodles - 1 Pcs Chicken Curry - 2 Pcs Chicken Nuggets - 1 Pcs	01712090626	Rahmanarafat@Gmail.Com	Mirpur 10	Placed	09:30AM	27:09:2021	Paid
	615139a42ea2a200f0678d2a Hot Pizza - 1 Pcs Chicken Nuggets - 2 Pcs Smokin' Burger - 2 Pcs	01712090626	Rahmanarafat@Gmail.Com	Mirpur - 10, Dhaka - 1217	Placed	09:25AM	27:09:2021	Not Paid

Figure22: customer order

The above snapshot is of the customer order

MY ORDERS

Image	Customers Name	Customers Email	Customers Contact	Customers Address	Registration Date
	Arafat	Arafat.Kamal@Gmail.Com	01798146072	Gaibandha, Bangladesh	27:09:2021
	Test One	Test.Two@Gmail.Com	01780149086	Mirpur - 10, Dhaka - 1217	27:09:2021
	Sami	Sami210@Gmai.Com	01919846963	Kafrul1216	27:09:2021
	Rahman	Rahmanarafat@Gmail.Com	01712266223	Mirpur 10	27:09:2021
	Arif	Rahimarif210@Gmail.Com	01781830899	Mirpur 10	27:09:2021

Figure23: customer registration database

Information Database:

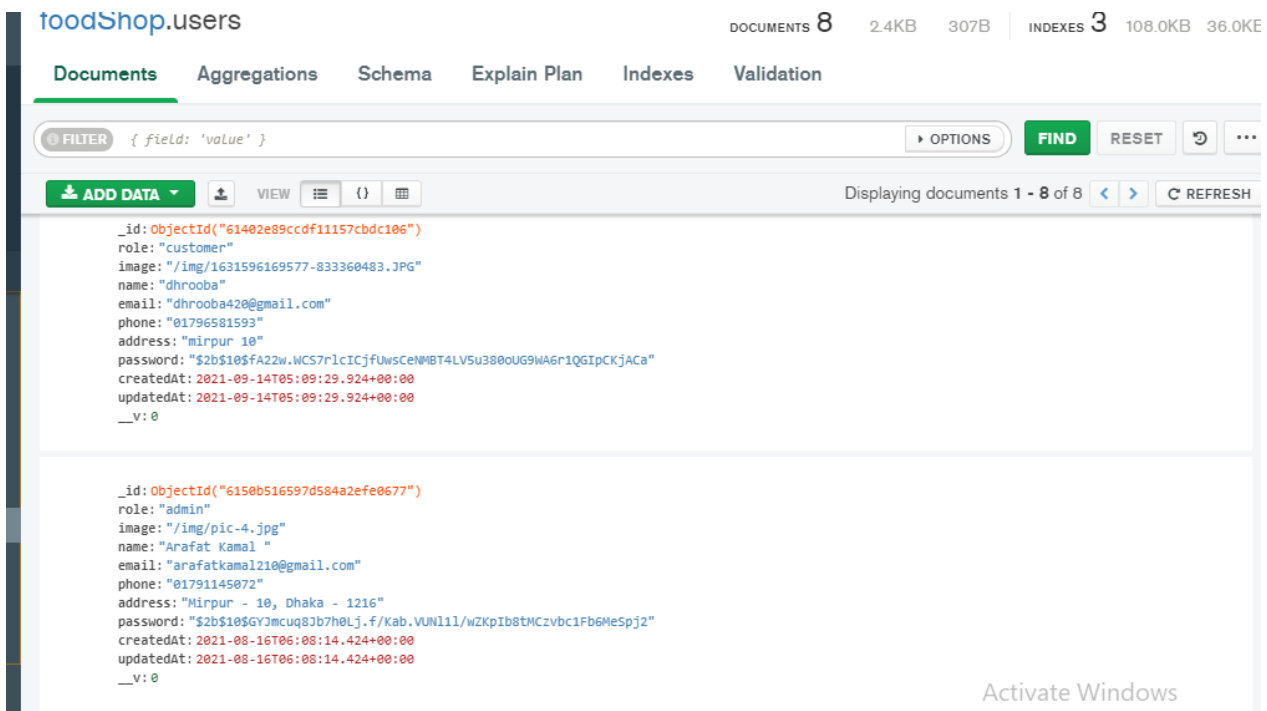


Figure24: user database

The above snapshot is of the user database

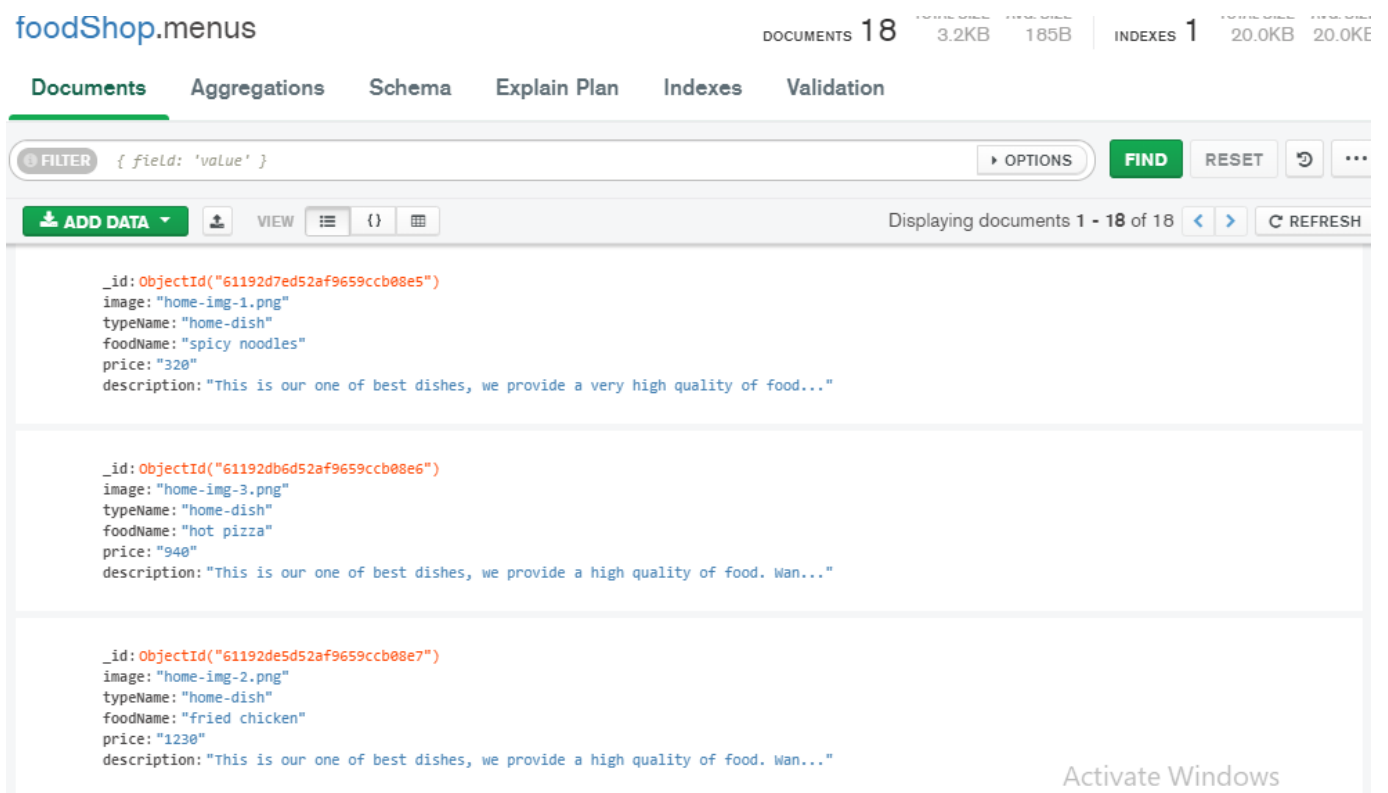


Figure 25:Menus database

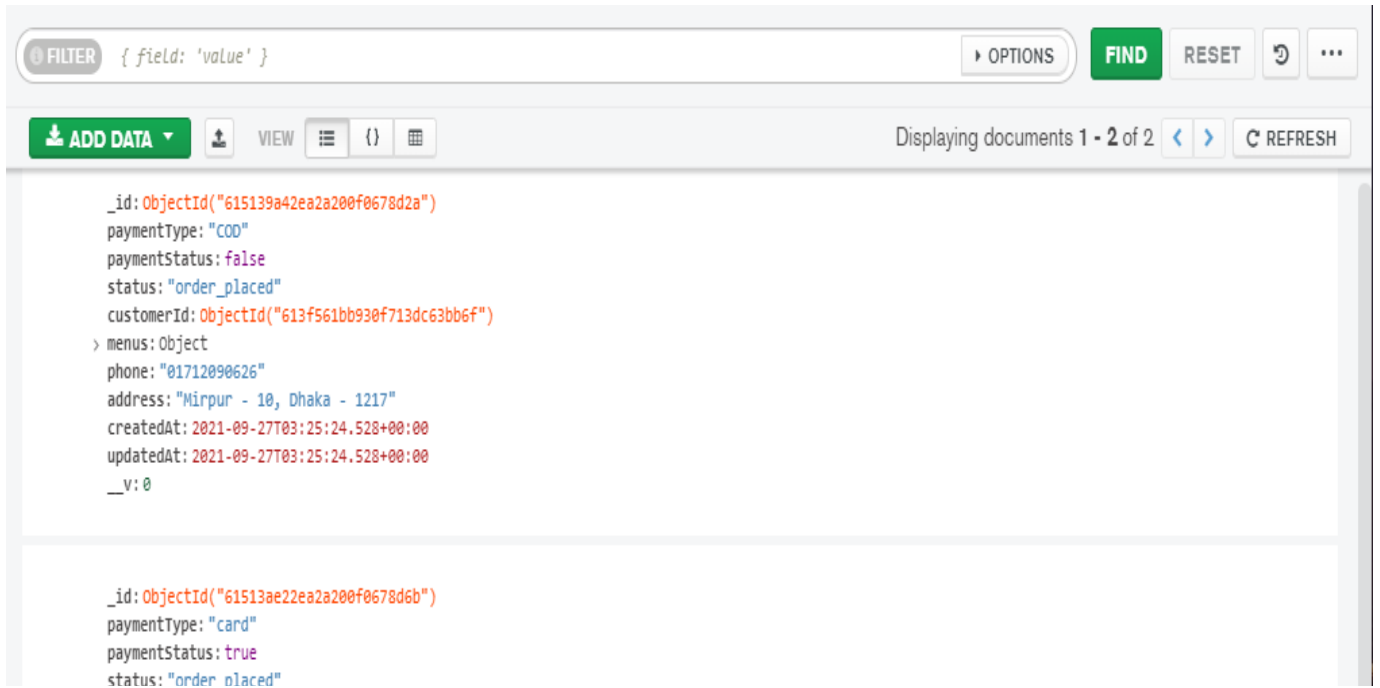


Figure 26:customer order database

The above snapshot is of the customer order database

CONCLUSION

The world is changing everyday with the advancement of technology. To keep pace with the advancement and adjust with unprecedented situations like the coronavirus pandemic, engineers all over the world come forward to solve the problem. So, in this project, I tried to make an e-food site to give opportunity to the small businesses that are out of online platforms. I used the technology for my project to make it better for the user. If I implement my project according to the design, it will be a simple user-friendly e-food website for the user. Customers will enjoy safe and secure purchasing foods online. In future, I will try to add more features and upgrade the website according to the customer's needs. I will try to implement Bangla language later. Users can give ratings to a product. I will try a future implementation such as User can search products from the search box. User can update the password and address of his profile. Admin will be able to delete products from the database.

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