

easyFood

Major Project Report

**Submitted in partial fulfillment of
the requirements for the award of the degree of**

Post Graduate Diploma in Advance Computing

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Declaration

We hereby declare that the Major project entitled "*easyFood*" is the work carried out by the team consisting of ARRAM APURUP REDDY bearing Prn 190840120041, YOGESH JAIN bearing Prn - 190840120227, ABHIJIT M.R bearing Prn -190840120004, Vaishnavi Thigale bearing Prn - 190840120206 and AKASH SINGH bearing Prn - 190840120018 is submitted in the partial fulfillment of the requirements for the award of POST GRADUATE DIPLOMA DEGREE OF ADVANCE COMPUTING (PG-DAC) from CENTRE FOR DEVELOPEMENT OF ADVANCE COMPUTING ACTS, PASHAN,PUNE.

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Abstract

The *easyFood* (Cafeteria Solution) helps employee/students within the associated organization order meals and solve problems such as: Long Queues (Time consuming), Queue to get Coupon/Token, Queue to get food, No Feedback, Paper Wastage, No Easy Access To Reports & Data.

Current system which is being used (mostly manual) with no standard way of managing orders, often results in long queues. Also there is no proper feedback channels and no architecture for trend analysis and customer preferences.

Our product *easyFood* tends to resolve this problem by automating the process with minimum human interference and also providing a reliable way for trend analysis, recommendations based on customer preferences and prior feedback.

ACKNOWLEDGEMENT

I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. I would like to extend my sincere thanks to all of them.

I am highly indebted to “MR.MUKESH SINGH NEGI SIR” for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project. I would like to express my gratitude towards my parents & member of “CDAC-ACTS” for their kind co-operation and encouragement which help me in completion of this project. I would like to express my special gratitude and thanks to industry persons for giving me such attention and time. My thanks and appreciations also go to my colleague in developing the project and people who have willingly helped me out with their abilities.

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Introduction

easyFood is a digital cafeteria solution, which helps the users/employees to view food available and place order via web app portal, which notifies the vendor about the orders, user then get notified when the order is ready. User can give feedback as well. Admin can monitor the generated revenue and view order details for trend analysis and inventory management. This solves the problem of long queues and saves user's time.

Current system which is being used (mostly manual) with no standard way of managing orders, often results in long queues. Also there is no proper feedback channels and no architecture for trend analysis and customer preferences. Our product *easyFood* tends to resolve this problem by automating the process with minimum human interference and also providing a reliable way for trend analysis, recommendations based on customer preferences and prior feedback.

The Problems!

- * Long Queues - Consumes lots of Time
 - * Queue to get Coupon/Token
 - * Queue to get food
- * No Feedback
- * Paper Wastage
- * No Easy Access To Reports & Data

An Idea!

- * An App for User/Student/Employee
 - * To Select Meal & Pay
 - * To Recharge on their own
 - * To Give Feedback
- * An App for Vendor/Staff
 - * To Set Menu items
 - * To Add/Set Item rates and availability
 - * To accept orders and mark delivered
- * An App for Admin/Manager
 - * To Recharge User Wallets via Cash
 - * To Monitor Daily Revenue and Feedback
 - * To View Food Orders Trends and plan inventory

The benefits!

- * Avoiding Queues - Saves lot of Time

- * Real Time Menu
- * Ordering Convenience
- * Faster & Convenient Payment Options
- * Real Time Customer Feedback
- * Easy Access To Reports & Data
- * Paperless Solution

The Modules!

- * User Module
- * Vendor Module
- * Admin Module

The Process!

1. The Recharge :

User goes to the admin,
pays cash and get cash
points in their wallet
or recharge via other
options.

2. The Order :

User browse and select
the meal in the user app
and pay using cash
points available.

3. The Delivery :

Vendor gets notified! >Prepares Meal >User Collects the meal >Vendor Marks Delivered!

4. The Analysis :

User gives feedback!
Admin monitors feedback
and order trends and
plans inventory
accordingly

SYSTEM SPECIFICATION

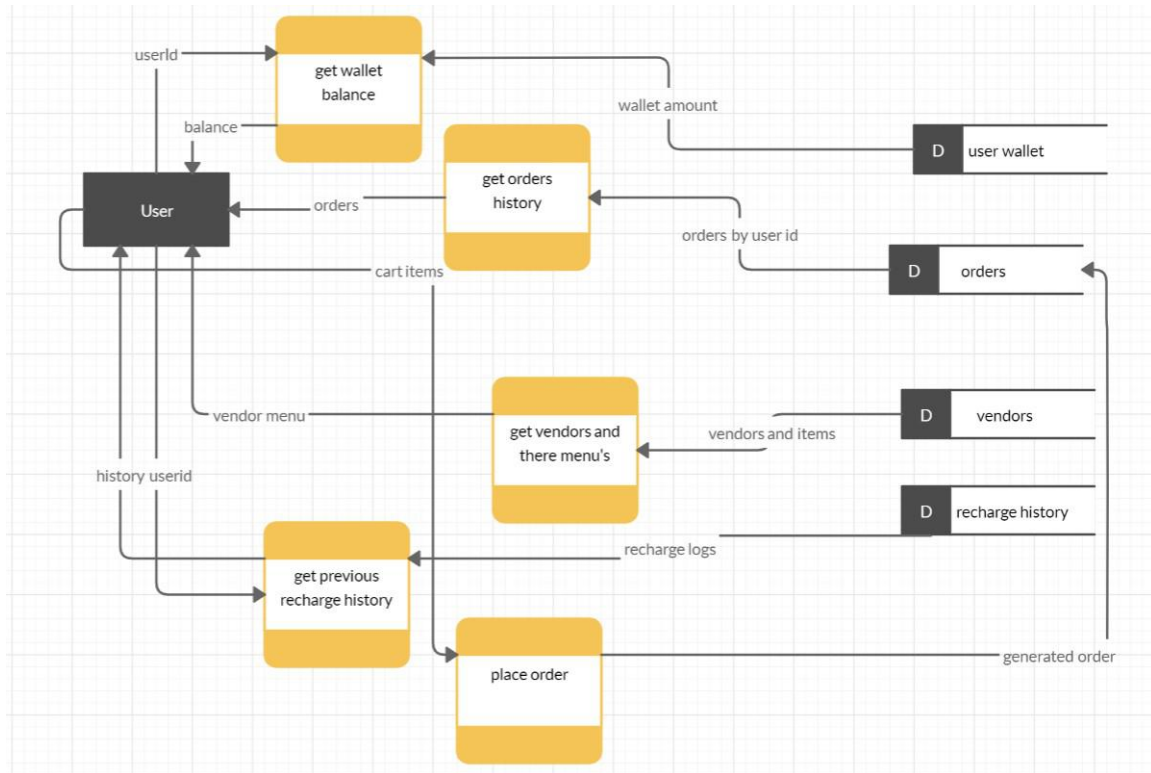
Hardware Requirements:-

- Pentium-IV(Processor).
- 256 MB Ram
- 512 KB Cache Memory
- Hard disk 10 GB
- Microsoft Compatible 101 or more Key Board

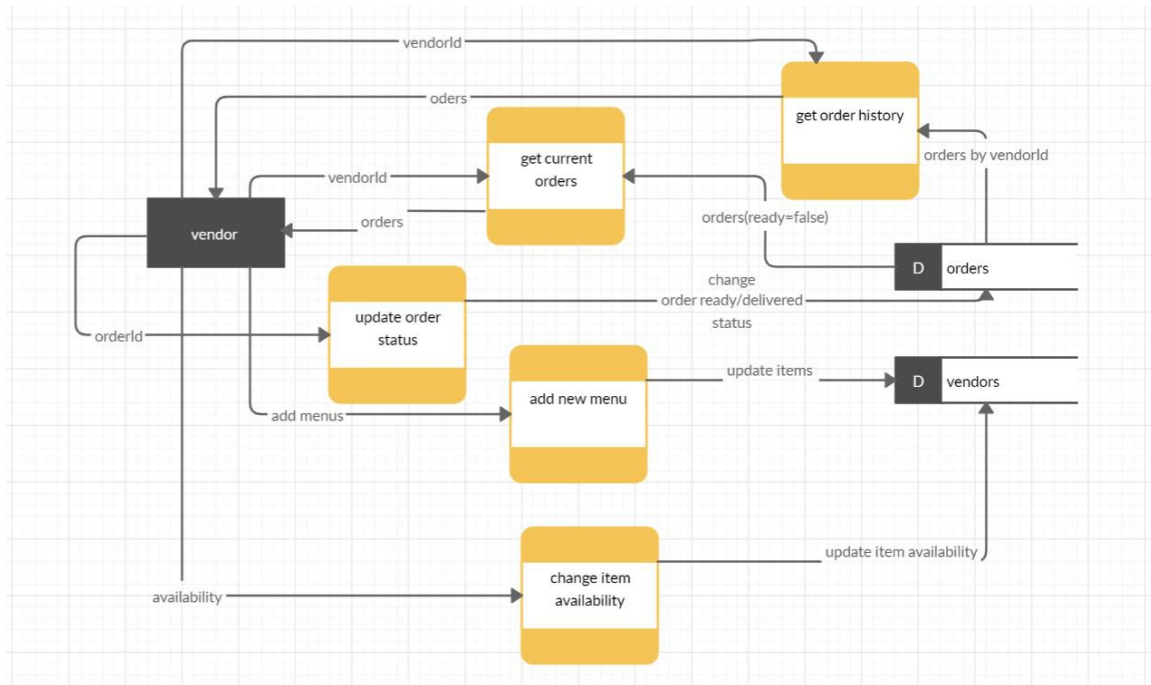
Software Requirements: -

Language	: Java, Angular 8
Database	: SQL SERVER 2000,05
Web Server	: IIS
Operating System	: WINDOWS

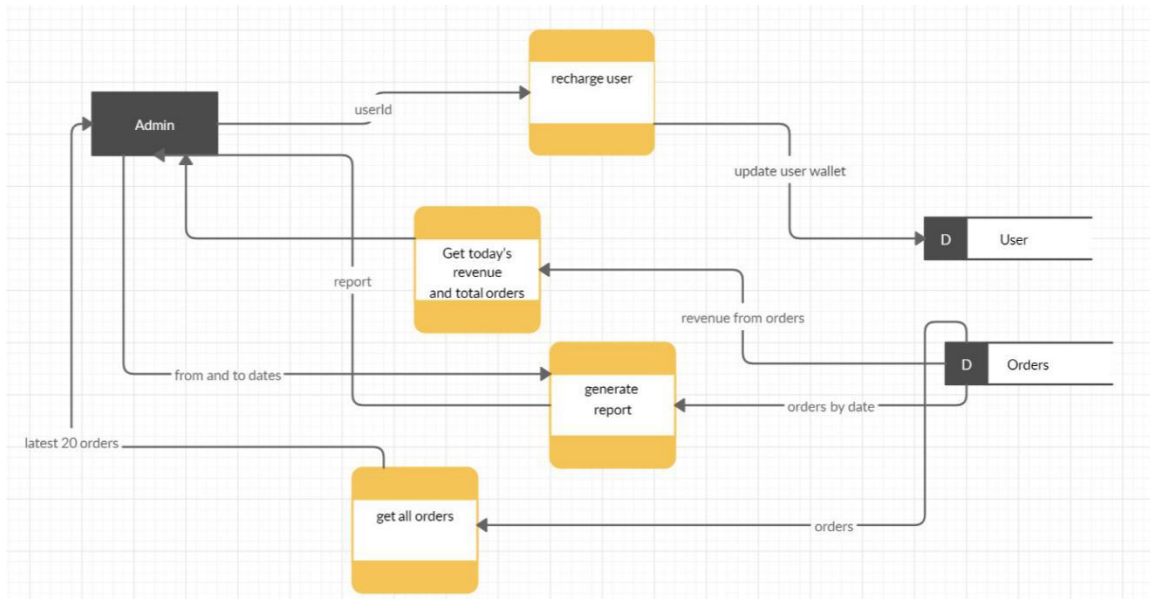
DATA FLOW DIAGRAM(USER)



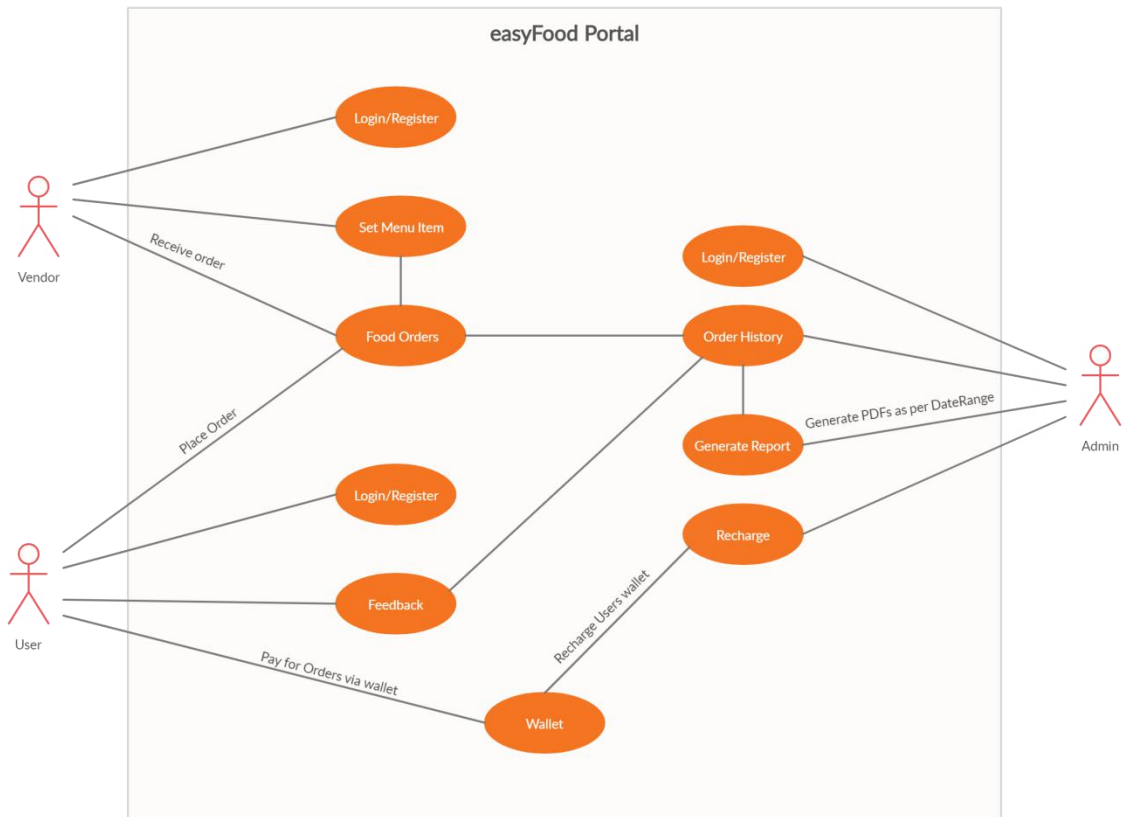
DATA FLOW DIAGRAM(VENDOR)



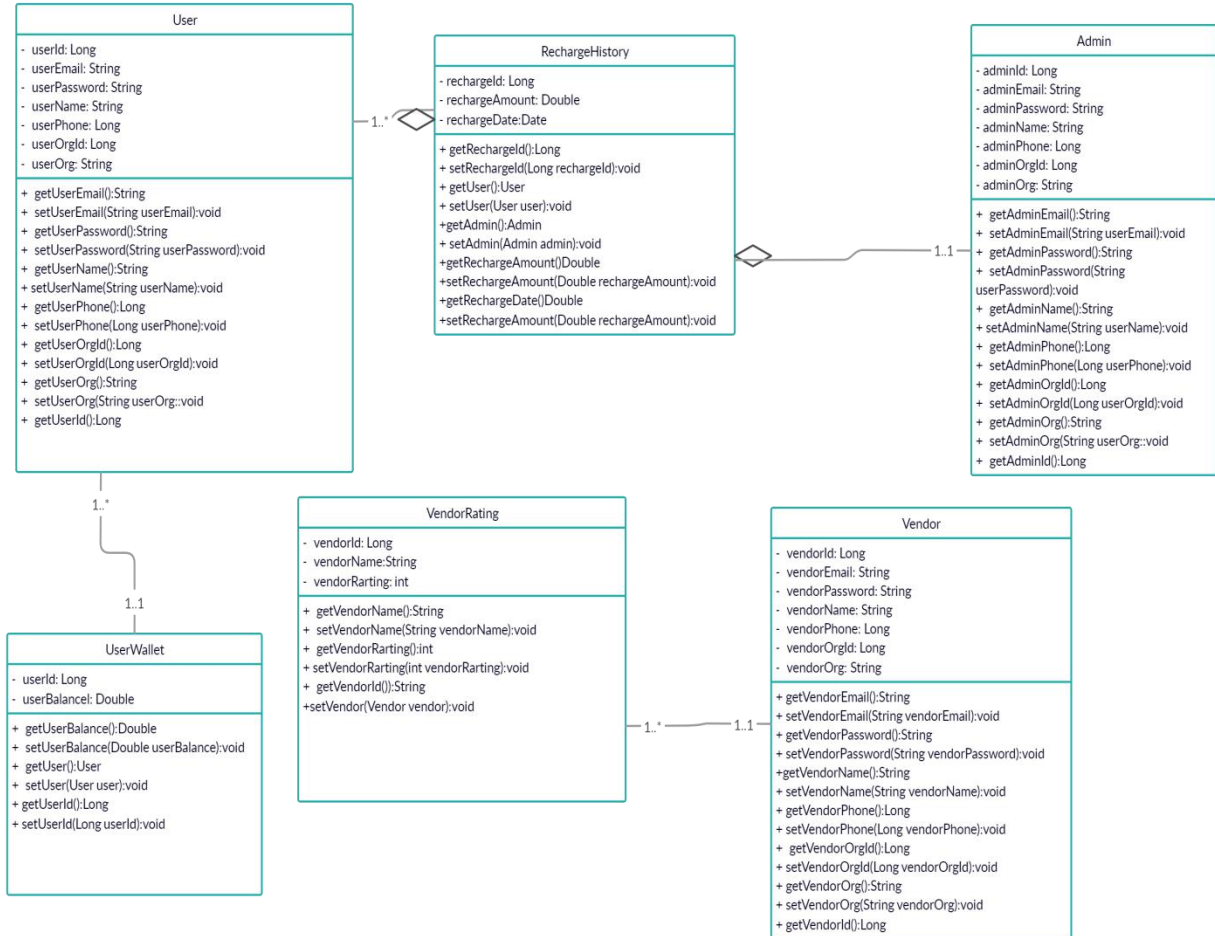
DATA FLOW DIAGRAM(ADMIN)



USE CASE DIAGRAM

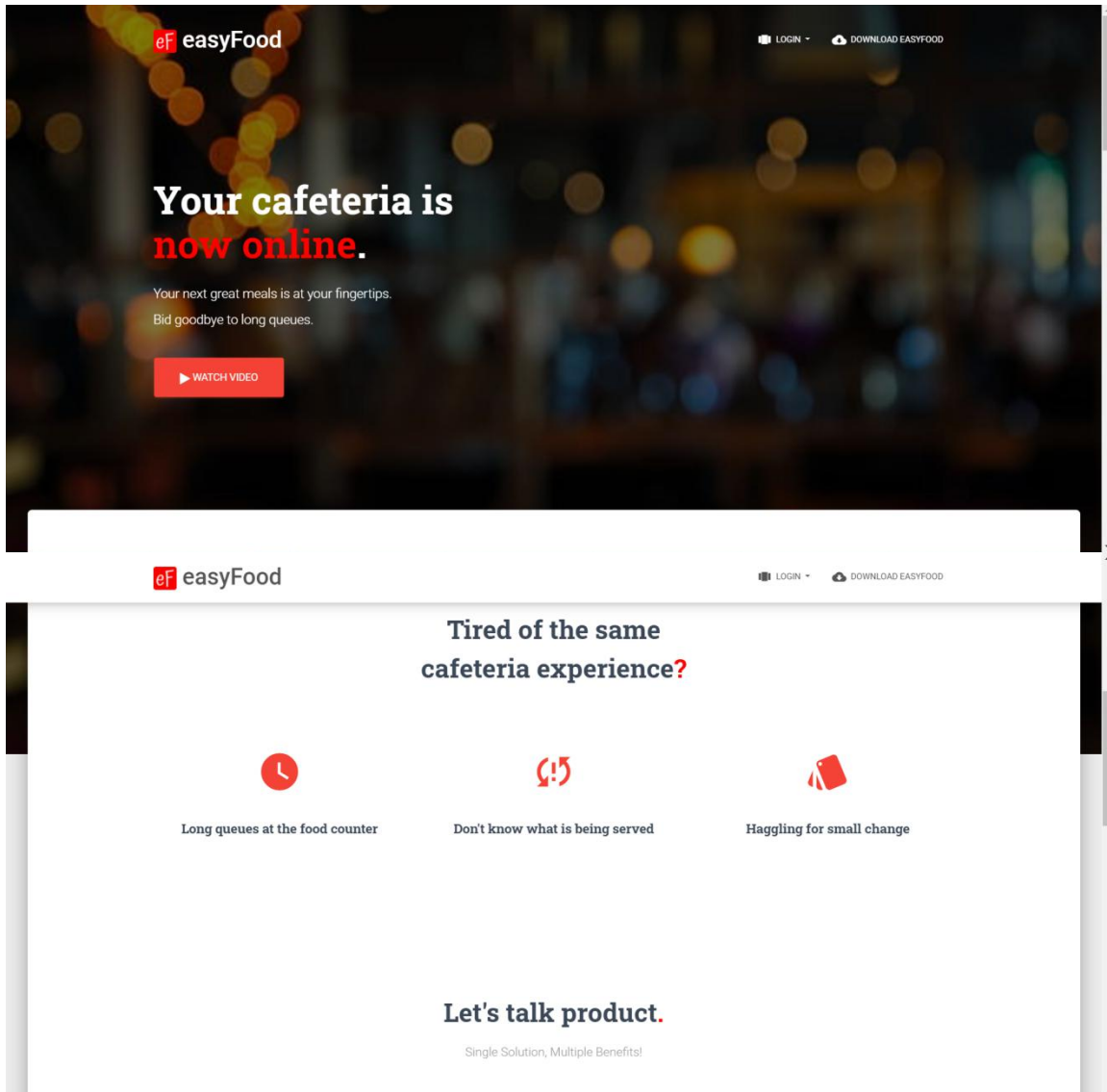


CLASS DIAGRAM



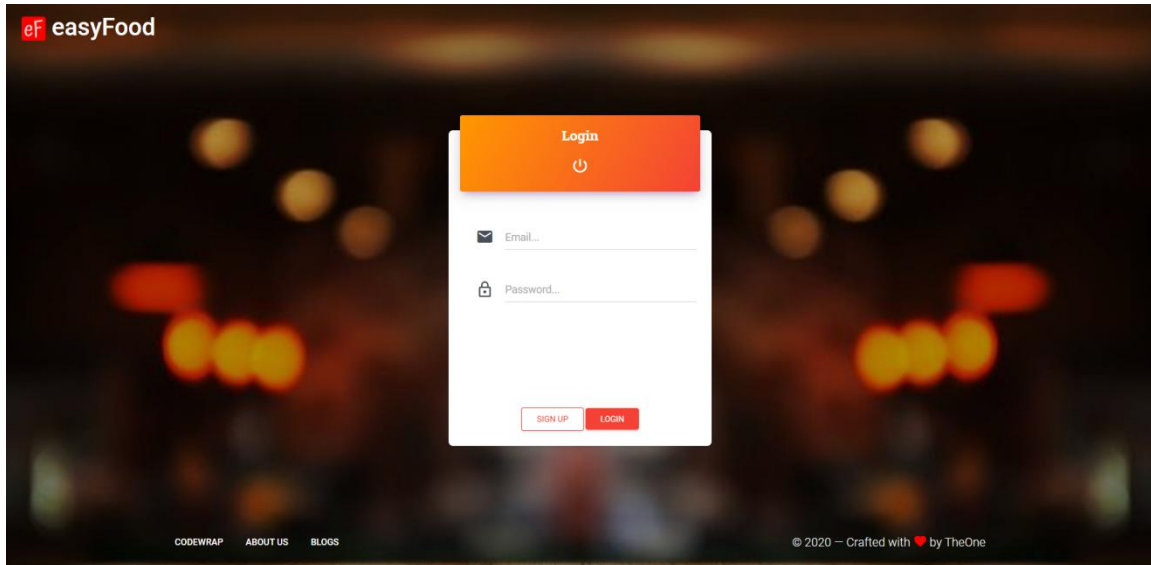
Home Page

This is our home page of *easyFood* web app where user, vendor and admin can login with their credentials and know our services and provide the basic information of how it works.



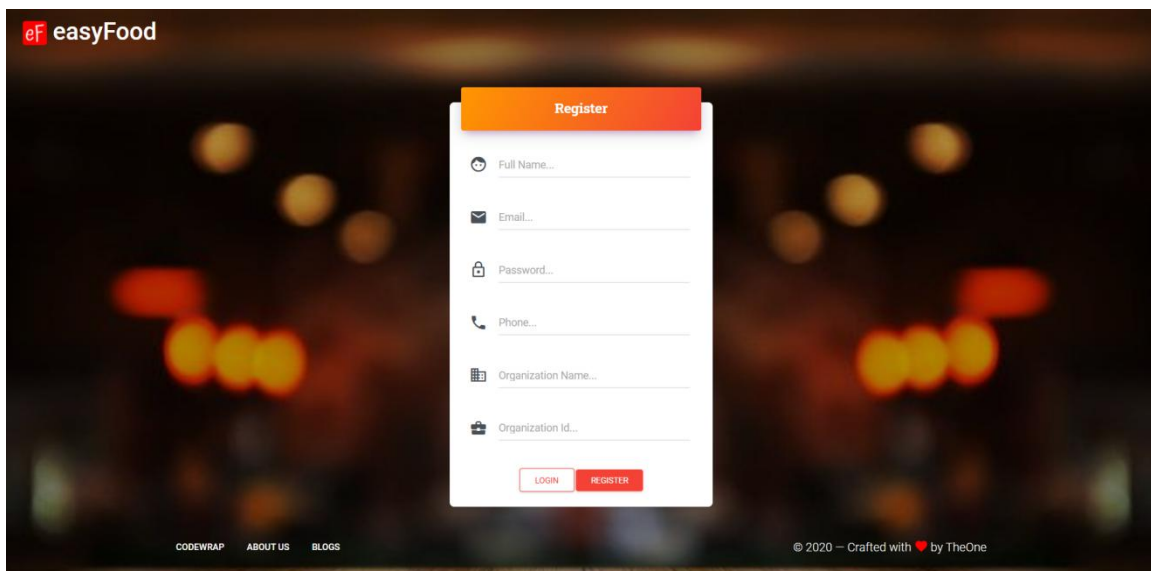
User Login Page

This is the login page for User where user can login with their credentials and order food.



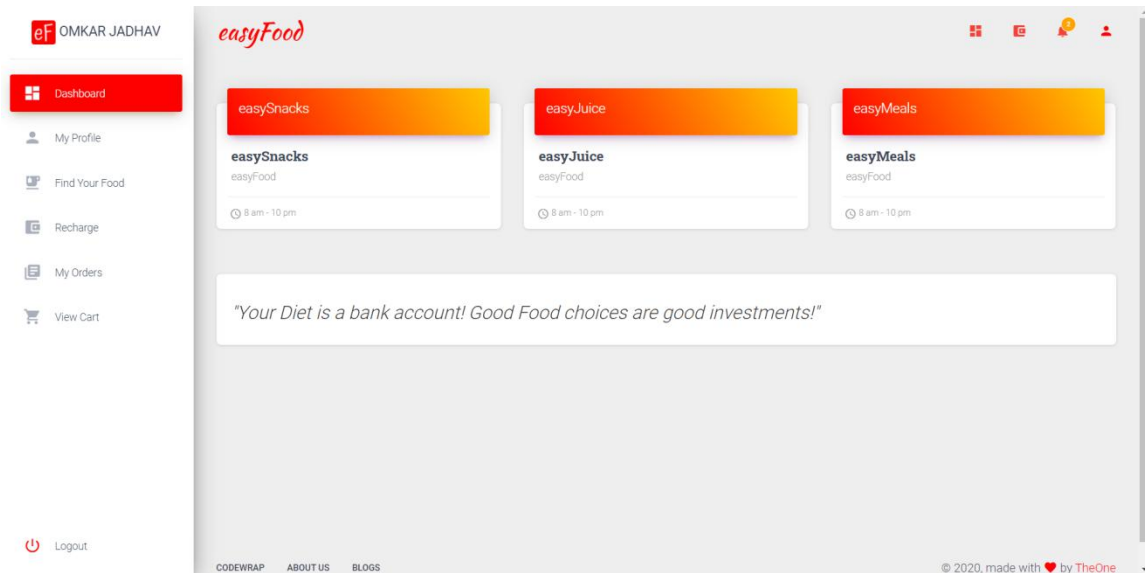
User Registration Page

This is the registration page, if someone is using easyFood for the first time then he/she has to register first.



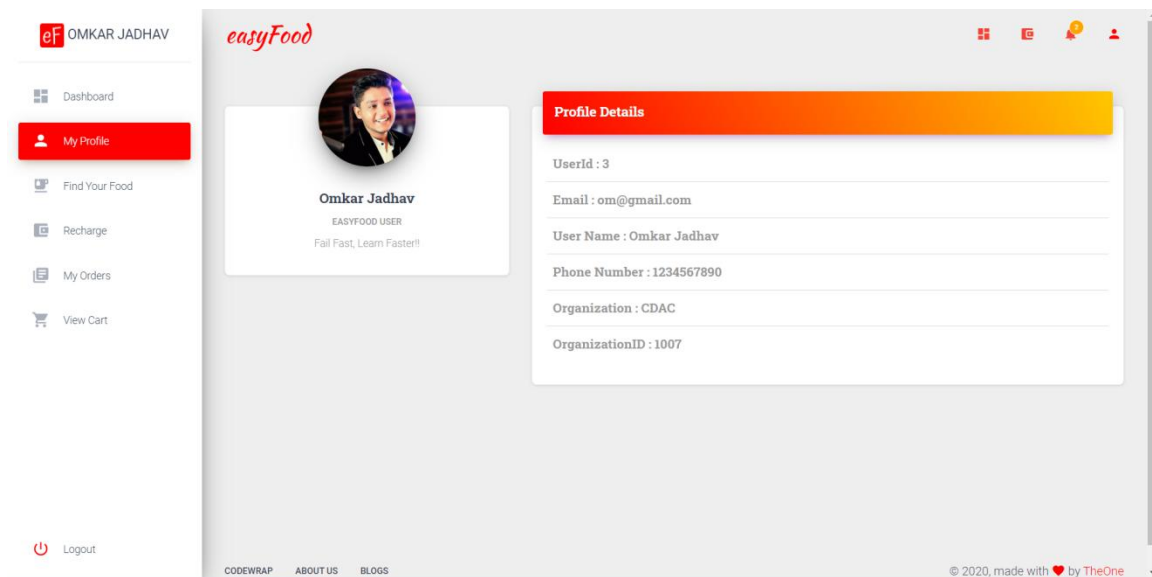
User Dashboard

When user logged in then user comes to the dashboard page where user can see the various easyFood vendors and by selecting any of the vendors user will be redirected to that vendors list from where user can placed the order.



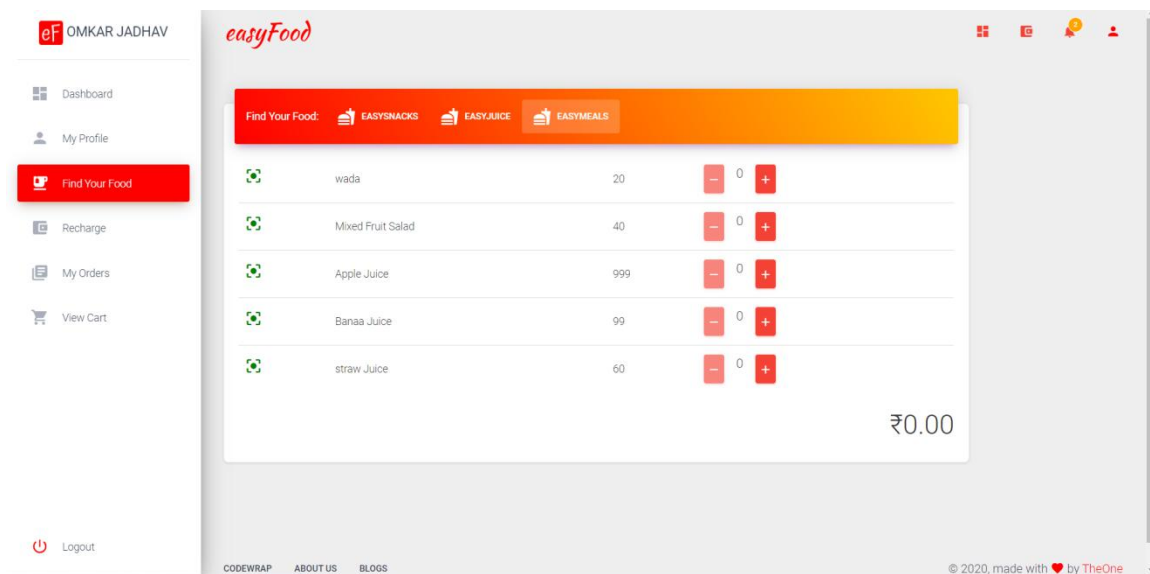
User Profile

This is Profile page of the user, where user details are viewed. Here user get the userId by the system generated and all the other details will get from their registration credentials.



Users Food List

This is *Find your food* page of the user where user can go through various vendors and by selecting any of the vendor user can get menu lists of that vendor and can place their order, once user will select the order and press the add to cart button then the order for that user is saved into the cart and as the user goes to the cart and presses *proceed to pay* button then the respective vendor will get notified that from this orderId an order has been placed.



User Wallet

This is the wallet of the user where user can see how much money left into the wallet and if user wants to recharge the wallet then he has to pay cash to the admin to recharge his wallet, after this his wallet will update to the new balance.

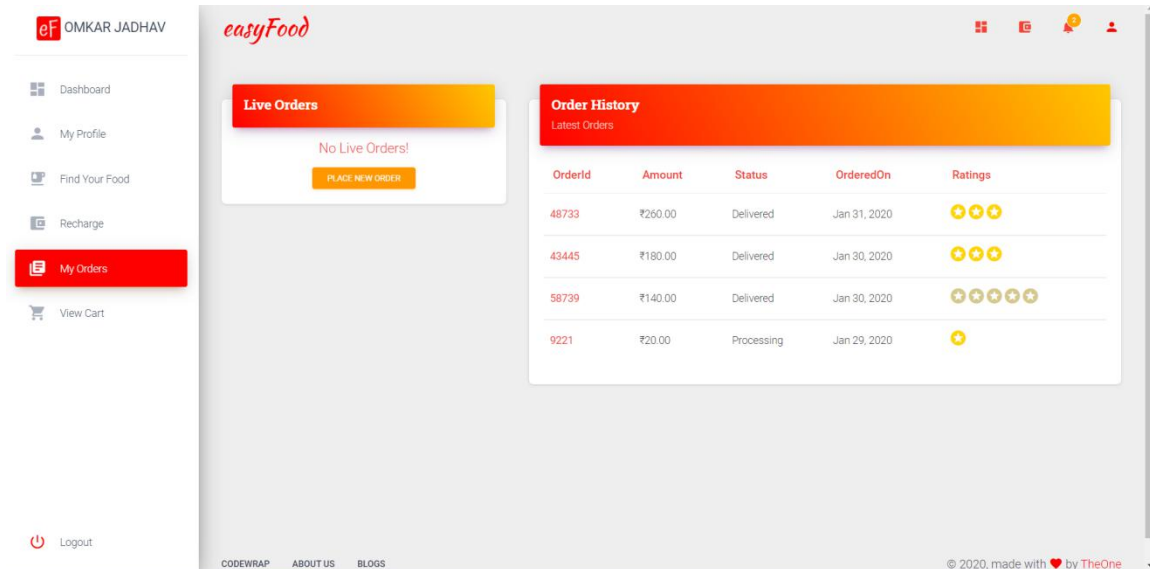
The screenshot displays the 'easyFood' user wallet interface. On the left is a sidebar menu for user 'eF OMKAR JADHAV' with options: Dashboard, My Profile, Find Your Food, Recharge (highlighted), My Orders, View Cart, and Logout. The main content area features the 'easyFood' logo, a 'Wallet' balance of ₹420.00, and 'Payment Gateway Integration' with logos for PhonePe, G Pay, and paytm. Below this is a 'Recharge History' table with one entry.

Transaction ID	Recharge Amount	Date
TRXN1	₹1,000.00	Jan 30, 2020, 7:47:56 PM

The footer contains 'CODEWRAP ABOUT US BLOGS' on the left and '© 2020, made with ❤ by TheOne' on the right.

User Order History

This is the Order history page of the user where user can see all his orders with details and also give feedback for the recently placed order. If user placed some order then only there is showing in live order is in processing otherwise no live orders.



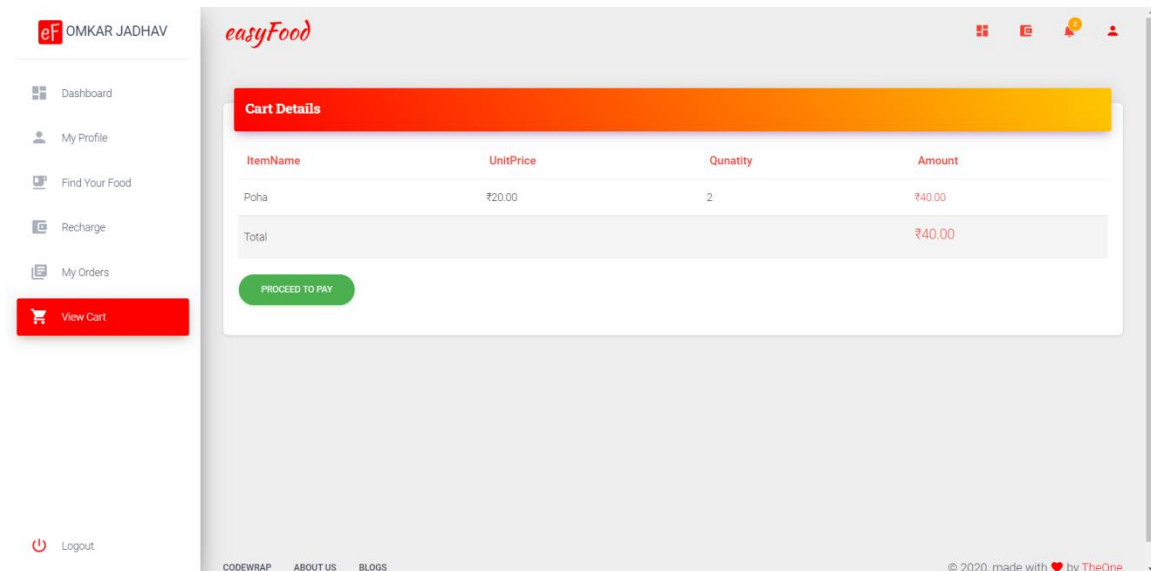
The screenshot displays the 'easyFood' user interface. On the left is a sidebar with navigation links: Dashboard, My Profile, Find Your Food, Recharge, My Orders (highlighted), and View Cart. At the bottom of the sidebar is a Logout button. The top header shows the user's name 'OMKAR JADHAV' and a profile icon. The main content area is divided into two sections: 'Live Orders' and 'Order History'. The 'Live Orders' section shows 'No Live Orders!' and a 'PLACE NEW ORDER' button. The 'Order History' section, titled 'Latest Orders', contains a table with the following data:

Orderid	Amount	Status	OrderedOn	Ratings
48733	₹260.00	Delivered	Jan 31, 2020	★★★★
43445	₹180.00	Delivered	Jan 30, 2020	★★★★
58739	₹140.00	Delivered	Jan 30, 2020	★★★★★
9221	₹20.00	Processing	Jan 29, 2020	★

At the bottom of the page, there are links for CODEWRAP, ABOUT US, and BLOGS, and a copyright notice: © 2020, made with ❤ by TheOne.

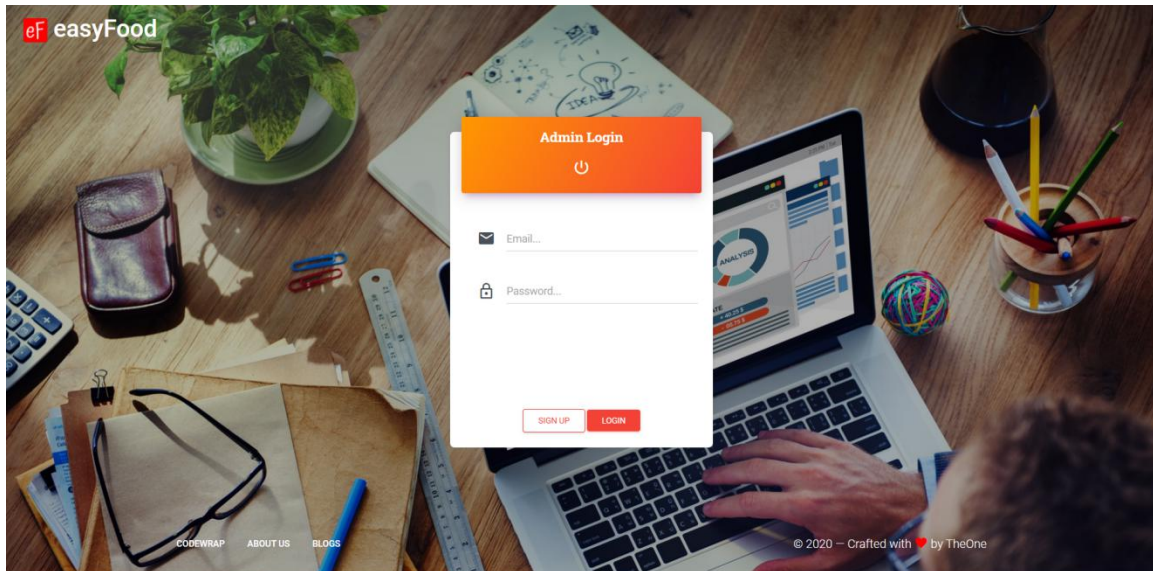
User Cart

When user select the desired items to be ordered, then they get reflected into the cart. Once user will click on proceed to pay for the order then that much amount will be deducted from the user's wallet and respective vendor will be notified from the user's new order.



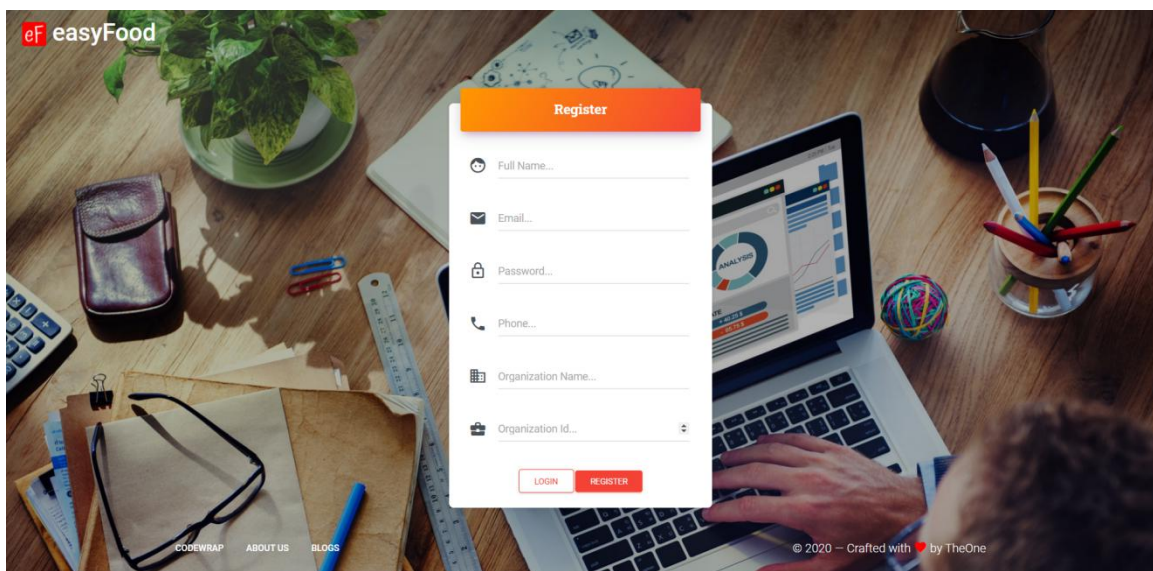
Admin Login Page

This is the login page for the Admin.



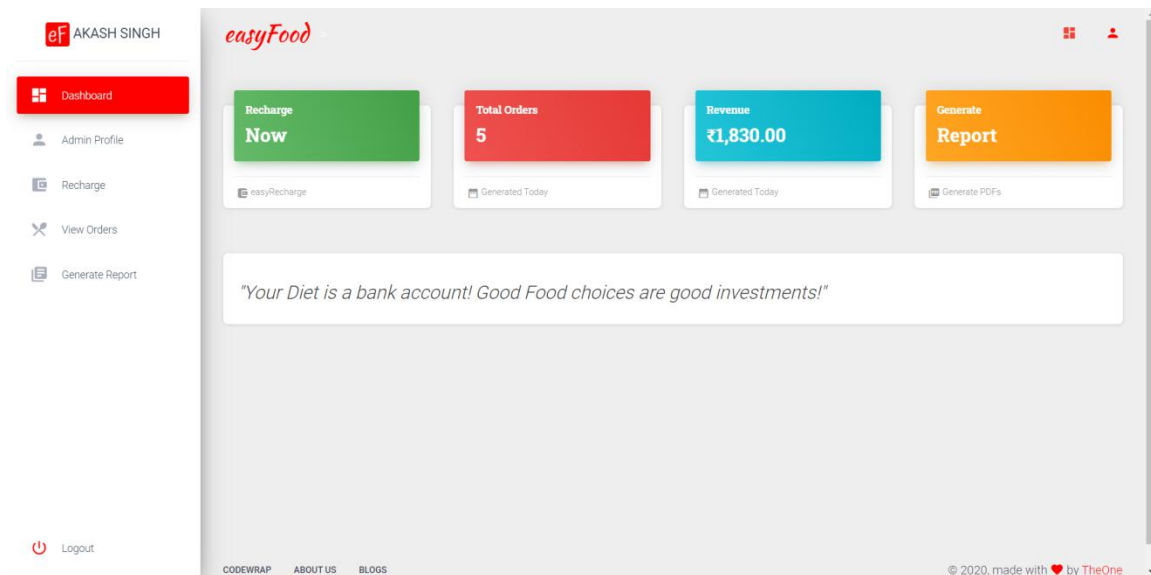
Admin Registration Page

This is admin registration page from where admin can register.



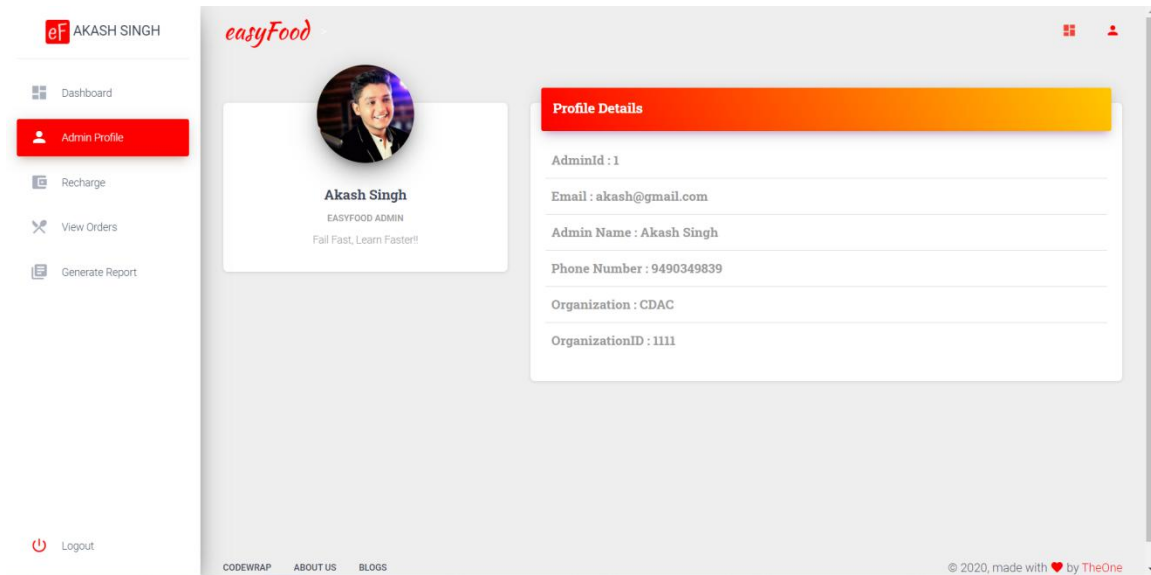
Admin Dashboard

Once admin logs in he/she is redirected to dashboard page. From here admin can recharge the wallet of any user by his userId. Admin can see the total orders and the revenue. Admin can also generate the report from here as per the date range.



Admin Profile

This is the admin profile page where admin can get their adminId from system generated and all his details as per the registration credentials.



The screenshot displays the 'Admin Profile' page of the 'easyFood' application. The interface includes a sidebar on the left with navigation options: Dashboard, Admin Profile (highlighted), Recharge, View Orders, and Generate Report. The main content area features a profile card for 'Akash Singh', an 'EASYFOOD ADMIN', with a circular profile picture and the tagline 'Fail Fast, Learn Faster!!'. To the right, a 'Profile Details' section lists the following information:

Profile Details
AdminId : 1
Email : akash@gmail.com
Admin Name : Akash Singh
Phone Number : 9490349839
Organization : CDAC
OrganizationID : 1111

The footer of the page contains links for CODEWRAP, ABOUT US, and BLOGS, along with a copyright notice: © 2020, made with ❤ by TheOne.

Admin Recharge

This is the recharge panel for the admin, add credits to the user's wallet in exchange for cash. The admin enters the userId of the user into the userId field and recharge the wallet of that user. Once the recharge is done user wallet will get updated by the new balance.

easyFood

Recharge

Enter UserId: Enter Amount:

☐ Accept Cash & Recharge

Recharge History
Latest Orders

TransactionId	User Id	Amount	Date
TRXN1	3	1000	Jan 30, 2020
TRXN2	2	1000	Jan 31, 2020
TRXN3	6	9000	Jan 31, 2020

Logout

View Orders

This is the View Order page of the admin where admin can see all the order history of all the users.

The screenshot displays the 'View Orders' page of the 'easyFood' admin dashboard. The left sidebar contains navigation options: Dashboard, Admin Profile, Recharge, View Orders (highlighted), and Generate Report. The main content area shows the 'Order History' table with the following data:

OrderId	Amount	Status	OrderedOn	Ratings
76636	₹60.00	Processing	Jan 31, 2020	
30037	₹40.00	Processing	Jan 31, 2020	
83108	₹70.00	Processing	Jan 31, 2020	
60944	₹400.00	Delivered	Jan 31, 2020	★★★★★
49766	₹1,260.00	Delivered	Jan 31, 2020	
49930	₹140.00	Delivered	Jan 31, 2020	★★★★★
7910	₹430.00	Delivered	Jan 31, 2020	★★★★★
48733	₹260.00	Delivered	Jan 31, 2020	★★★★★
43445	₹180.00	Delivered	Jan 30, 2020	★★★★★
58739	₹140.00	Delivered	Jan 30, 2020	

Generate Report

This is Generate Report page for the admin, from where admin can generate the report as per the date range to see all the details of the order lists. Admin can also print the generated report by clicking the print button.

OrderId	Amount	OrderedOn	User Id	Ratings
49766	₹1,260.00	Jan 31, 2020	6	
60944	₹400.00	Jan 31, 2020	9	★★★★
83108	₹70.00	Jan 31, 2020	2	
30037	₹40.00	Jan 31, 2020	1	
76636	₹60.00	Jan 31, 2020	1	

Print of Generated Report

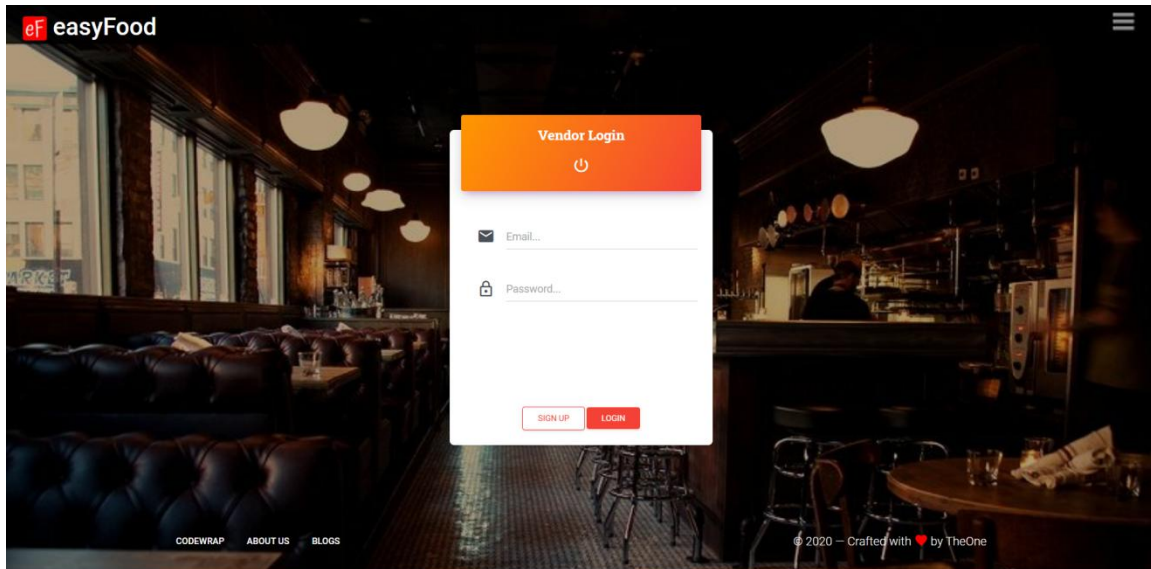
Print dialog settings:

- Destination: OneNote
- Pages: All
- Copies: 1
- Color: Color

Buttons: Print, Cancel

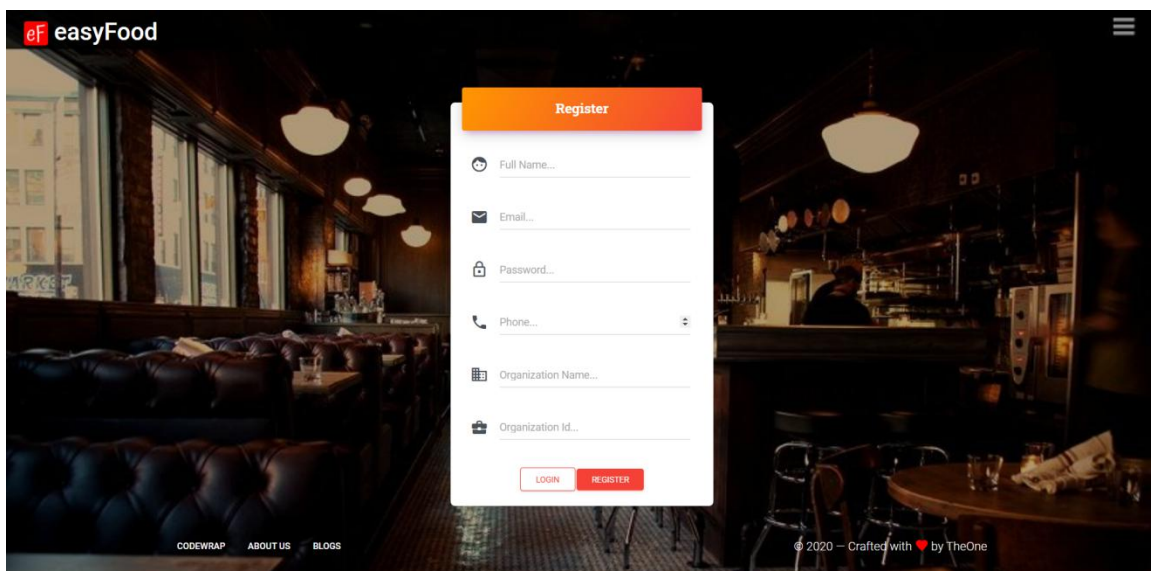
Vendor Login Page

This is the login page for the vendor.



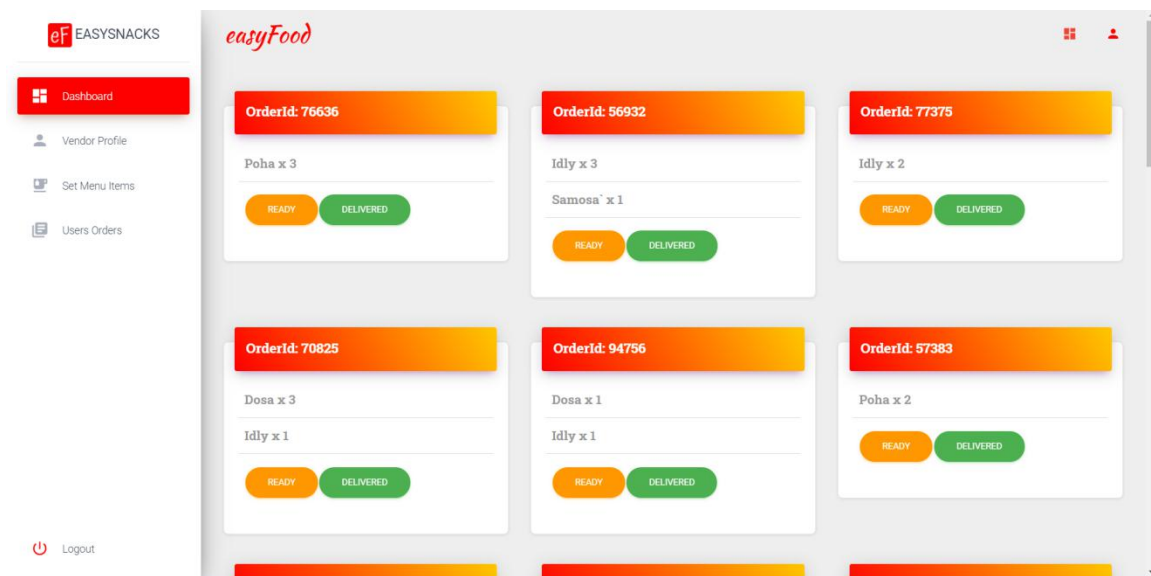
Vendor Register Page

This is the register page for the vendor.



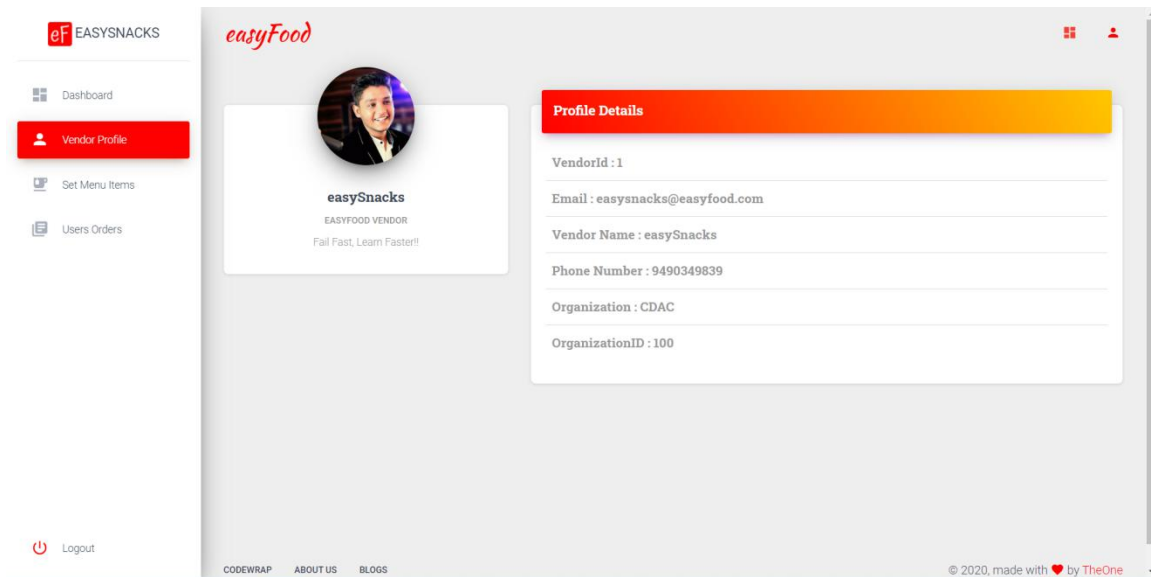
Vendor Dashboard

After logs in vendor will be redirected to the dashboard page. On the dashboard vendor will see all the orders of the various users with their orderId that is system generated. After getting the order when the order is prepared as the vendor press the ready button that respective user get notified that his order his prepared and as the vendor click the delivered button then user get notified that his order is delivered.



Vendor Profile

This is the vendor profile page where vendor get its vendorId by system generated and all the other details as per the registration credentials.



Set Menu Items

This is the Set Menu Items page for the vendor, where all the items of that vendor is displaying. If vendor wants to add some new items into the menu then he add the items into his list by clicking the add item button below. If in case if any of the item is unavailable at that time then by clicking the unavailable button that item will be unavailable from all the users and by clicking the available button its availability will appear to all the users.

Menu Items			
	Poha	20	Available
	Dosa	40	Unavailable
	Idly	35	Available
	Upma	25	Unavailable
	Vada Pav	10	Unavailable
	Samosa	50	Available

[ADD NEW ITEM](#) [SAVE MENU](#)

Order History

This is Order History page of the vendor, where vendor can see all the orders of the users. Vendor can also see his feedback from the users of all the delivered items.

The screenshot shows the 'Order History' page of the 'easyFood' vendor dashboard. The left sidebar contains navigation links: 'Dashboard', 'Vendor Profile', 'Set Menu Items', and 'Users Orders' (highlighted in red). The main content area features a table of latest orders with columns for OrderId, Amount, Status, OrderedOn, and Ratings. The table lists 11 orders, with statuses ranging from 'Processing' to 'Delivered'. Ratings are shown as yellow star icons.

OrderId	Amount	Status	OrderedOn	Ratings
76636	₹60.00	Processing	Jan 31, 2020	
30050	₹140.00	Delivered	Jan 30, 2020	☆☆
56403	₹230.00	Delivered	Jan 30, 2020	☆☆☆☆
71501	₹245.00	Delivered	Jan 30, 2020	☆☆☆☆
41002	₹285.00	Delivered	Jan 30, 2020	☆☆☆☆
20229	₹105.00	Delivered	Jan 30, 2020	☆☆
56932	₹155.00	Processing	Jan 30, 2020	☆☆
88548	₹20.00	Delivered	Jan 30, 2020	☆☆☆☆
77375	₹70.00	Processing	Jan 30, 2020	☆☆☆☆

Logout
<https://efoodvendor.firebaseio.com/dashboard>

Technologies Used



Java

Java is a general-purpose computer programming language that is concurrent, class based, object-oriented, and specifically designed to have as few implementation dependencies as possible. It is intended to let application developers write once, run anywhere (WORA) meaning that compiled Java code can run on all platforms that support Java without the need for recompilation.

Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM) regardless of computer architecture. As of 2016, Java is one of the most popular programming languages in use, particularly for client-server web applications, with a reported 9 million developers.

Java was originally developed by James Gosling at Sun Microsystems (which has since been acquired by Oracle Corporation) and released in 1995 as a core component of Sun Microsystems' Java platform. The language derives much of its syntax from C and C++, but it has fewer low-level facilities than either of them.

The latest version is Java 11, released on September 25, 2018, which follows Java 10 after only six months in line with the new release schedule. Java 8 is still supported but there will be no more security updates for Java 9. Versions earlier than Java 8 are supported by companies on a commercial basis; e.g. by Oracle back to Java 6 as of October 2017 (while they still "highly recommend that you uninstall" pre-Java 8 from at least Windows computers).

There were five primary goals in the creation of the Java language:

1. It must be "simple, object-oriented, and familiar".
2. It must be "robust and secure".
3. It must be "architecture-neutral and portable".
4. It must execute with "high performance".
5. It must be "interpreted, threaded, and dynamic".

Angular



Fig. Angular logo

Angular is the most popular JavaScript framework and platform for developing client-side (front-end) mobile and desktop web apps or single page applications (SPAs). Angular 8 is a client-side TypeScript based framework which is used to create dynamic web applications. Its first version was released by **Google** in **2012** and named as AngularJS. Angular 8 is the updated version of Angular 2.

Angular 8 is an open-source, client-side TypeScript based JavaScript framework. It is written in TypeScript and compiled into JavaScript. Angular 8 is used to create dynamic web applications. It is very similar to its previous versions except having some extensive features. Angular 8 is a great **UI** (User Interface) library for the developers. Angular is a reusable UI component helps us constructing attractive, consistent, and functional web pages and web application. Angular 8 is a JavaScript framework which makes us able to create an attractive **Single Page Applications** (SPAs).

Angular 8 has entirely based on component and consist of some tree structures with parent and child component. Angular 8 classes are created in such a way that the web page can fit in any screen size so that they are fully compatible with mobiles, tablets, laptops, and large systems.

What is a dynamic web application?

A dynamic web application is simply a dynamic website. i.e. www.gmail.com, www.facebook.com, www.yahoo.com etc. which has a tendency to change data/information with respect to 3 parameters:

- Time-to-time (eg. news update webs applications)
- Location-to-location (eg. Weather-report web applications)
- User-to-user (eg. Gmail, Facebook type applications)
-

These are the most prominent features of Angular 8:

- Angular 8 supports TypeScript 3.4
- Angular 8 supports Web Workers
- The new compiler for Angular 8 is Ivy Rendering Engine
- Angular 8 provides dynamic imports for lazy-loaded modules.
- Improvement of ngUpgrade

Node.js



Node.js is a server-side platform built on Google Chrome's JavaScript Engine (V8 Engine). Node.js was developed by Ryan Dahl in 2009 and its latest version is v0.10.36. The definition of Node.js as supplied by its official documentation is as follows –

Node.js is a platform built on Chrome's JavaScript runtime for easily building fast and scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

Node.js is an open source, cross-platform runtime environment for developing server-side and networking applications. Node.js applications are written in JavaScript, and can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux.

Node.js also provides a rich library of various JavaScript modules which simplifies the development of web applications using Node.js to a great extent.

Node.js = Runtime Environment + JavaScript Library

Features of Node.js

Following are some of the important features that make Node.js the first choice of software architects.

- **Asynchronous and Event Driven** – All APIs of Node.js library are asynchronous, that is, non-blocking. It essentially means a Node.js based server never waits for an API to return data. The server moves to the next API after calling it and a notification mechanism of Events of Node.js helps the server to get a response from the previous API call.
- **Very Fast** – Being built on Google Chrome's V8 JavaScript Engine, Node.js library is very fast in code execution.

- **Single Threaded but Highly Scalable** – Node.js uses a single threaded model with event looping. Event mechanism helps the server to respond in a non-blocking way and makes the server highly scalable as opposed to traditional servers which create limited threads to handle requests. Node.js uses a single threaded program and the same program can provide service to a much larger number of requests than traditional servers like Apache HTTP Server.
- **No Buffering** – Node.js applications never buffer any data. These applications simply output the data in chunks.
- **License** – Node.js is released under the MIT license.

MySQL



MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons –

- MySQL is released under an open-source license. So you have nothing to pay to use it.
- MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
- MySQL works very quickly and works well even with large data sets.
- MySQL is very friendly to PHP, the most appreciated language for web development.
- MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system can handle it) to a theoretical limit of 8 million terabytes (TB).
- MySQL is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments.

APIs Developed in Spring Boot Using REST Controller

Rest Api working

<https://easyfoodcdac.herokuapp.com/users/login>

MethodType:post

```
[
{"key":"email","value":"apurup@gmail.com","description":"","type":"text","enabled":true},
{"key":"password","value":"Apurup2","description":"","type":"text","enabled":true}
]
```

Result:

```
{
  "success": true,
  "message": "logged in",
  "result": {
    "organisationName": "CDAC",
    "organisationId": "1234",
    "phone": "9490349839",
    "name": "Arram Apurup Reddy",
    "id": "1",
    "email": "apurup@gmail.com",
    "token": "aa5b576db2d5ea864b04a6305c0a37bf83cce9c161ba07c0592894ebf8fa0d06"
  }
}
```

Url: <https://easyfoodcdac.herokuapp.com/admins/login>

MethodType:post

```
[
{"key":"email","value":"apurup@gmail.com","description":"","type":"text","enabled":true},
{"key":"password","value":"Apurup2","description":"","type":"text","enabled":true}
]
```

Result:

```
{
  "success": true,
  "message": "logged in",
  "result": {
    "organisationName": "CDAC",
    "organisationId": "1234",
    "phone": "9490349839",
    "name": "Arram Apurup Reddy",
    "id": "1",
    "email": "apurup@gmail.com",
    "token": "aa5b576db2d5ea864b04a6305c0a37bf83cce9c161ba07c0592894ebf8fa0d06"
  }
}
```

Url:<https://easyfoodcdac.herokuapp.com/users/register>

MethodType:post

```
{
  "userEmail":"apurupreddy1@g.com",
  "userPassword":"qwerty",
  "userName":"apurup",
  "userPhone":"9490349839",
}
```

```
"userOrgId":"999",
"userOrg":"qwww"
}
```

Result:

```
{
  "success": true,
  "message": "Registered",
  "userId": 11
}
```

Url:<https://easyfoodcdac.herokuapp.com/vendors/list>

Get

```
{
  "success": true,
  "message": "Vendors list",
  "result": [
    {
      "id": 1,
      "email": "easysnacks@easyfood.com",
      "name": "easySnacks",
      "phone": 9490349839,
      "orgId": 100,
      "org": "CDAC"
    },
    {
      "id": 2,
      "email": "easyjuice@easyfood.com",
      "name": "easyJuice",
      "phone": 9490349839,
      "orgId": 101,
      "org": "CDAC"
    },
    {
      "id": 3,
      "email": "easymeals@easyfood.com",
      "name": "easyMeals",
      "phone": 9490349839,
      "orgId": 102,
      "org": "CDAC"
    }
  ]
}
```

<https://easyfoodcdacnode.herokuapp.com/vendors/addMenus>

Post

```
{
  "vendorId": 3,
  "menuItems": [
```

```

        {
          "itemId": 4,
          "itemImgUrl": "url",
          "itemName": "Orange Juice",
          "itemUnitPrice": 40,
          "itemAvailability": true
        },
        {
          "itemId": 5,
          "itemImgUrl": "url",
          "itemName": "Mixed Fruit Salad",
          "itemUnitPrice": 40,
          "itemAvailability": true
        },
        {
          "itemId": 6,
          "itemImgUrl": "url",
          "itemName": "Apple Juice",
          "itemUnitPrice": 999,
          "itemAvailability": true
        },
        {
          "itemId": 7,
          "itemImgUrl": "url",
          "itemName": "Banaa Juice",
          "itemUnitPrice": 99,
          "itemAvailability": true
        },
        {
          "itemId": 8,
          "itemImgUrl": "url",
          "itemName": "straw Juice",
          "itemUnitPrice": 60,
          "itemAvailability": true
        }
      ]
    }
  }

```

Result:

```

{
  "error": false,
  "message": "menu items updated",
  "status": 200,
  "data": [
    {
      "itemId": 4,
      "itemImgUrl": "url",
      "itemName": "Orange Juice",
      "itemUnitPrice": 40,
      "itemAvailability": true
    },
    {
      "itemId": 5,

```



```

        "itemImgUrl": "url",
        "itemName": "Mixed Fruit Salad",
        "itemUnitPrice": 40,
        "itemAvailability": true
    },
    {
        "itemId": 6,
        "itemImgUrl": "url",
        "itemName": "Apple Juice",
        "itemUnitPrice": 999,
        "itemAvailability": true
    },
    {
        "itemId": 7,
        "itemImgUrl": "url",
        "itemName": "Banaa Juice",
        "itemUnitPrice": 99,
        "itemAvailability": true
    },
    {
        "itemId": 8,
        "itemImgUrl": "url",
        "itemName": "straw Juice",
        "itemUnitPrice": 60,
        "itemAvailability": true
    }
]
}

```

<https://easyfoodcdacnode.herokuapp.com/vendors/getMenus?id=2>

Get

```

{
  "error": false,
  "message": "menu fetch successful",
  "status": 200,
  "data": [
    {
      "itemId": 2,
      "itemImgUrl": "url",
      "itemName": "Pineapple juice",
      "itemUnitPrice": 40,
      "itemAvailability": true
    },
    {
      "itemId": 3,
      "itemImgUrl": "url",
      "itemName": "Banana Shake",
      "itemUnitPrice": 30,
      "itemAvailability": true
    },
    {
      "itemId": 4,
      "itemImgUrl": "url",
      "itemName": "Orange juice",

```

```

        "itemUnitPrice": 35,
        "itemAvailability": true
    },
    {
        "itemId": 5,
        "itemImgUrl": "url",
        "itemName": "Apple juice",
        "itemUnitPrice": 50,
        "itemAvailability": false
    },
    {
        "itemId": 6,
        "itemImgUrl": "url",
        "itemName": "Fruit Salad",
        "itemUnitPrice": 45,
        "itemAvailability": true
    },
    {
        "itemId": 7,
        "itemImgUrl": "url",
        "itemName": "Fruit Platter",
        "itemUnitPrice": 200,
        "itemAvailability": true
    }
]
}

```

<https://easyfoodcdacnode.herokuapp.com/vendors/updateMenu>

Post

```

{
  "vendorId": 3,
  "item": {
    "itemId": 4,
    "itemImgUrl": "url",
    "itemName": "wada",
    "itemUnitPrice": 20,
    "itemAvailability": true
  }
}

```

Result:

```

{
  "error": false,
  "message": "menu update successful",
  "status": 200,
  "data": {
    "itemId": 4,
    "itemImgUrl": "url",
    "itemName": "wada",
    "itemUnitPrice": 20,
    "itemAvailability": true
  }
}

```

<https://easyfoodcdac.herokuapp.com/users/wallet?id=1>

Get

Result:

```
{
  "success": true,
  "message": "balance fetched",
  "result": {
    "balance": "10000.0",
    "id": "1"
  }
}
```

<https://easyfoodcdac.herokuapp.com/users/wallet>

Post

```
[
  {"key":"id","value":"1","description":"","type":"text","enabled":true},
  {"key":"balance","value":"9999","description":"","type":"text","enabled":true}
]
```

Result:

```
{
  "success": true,
  "message": "balance updated",
  "result": {
    "balance": "9999.0",
    "id": "1"
  }
}
```

<https://easyfoodcdacnode.herokuapp.com/users/placeOrder>

Post

```
{
  "userId":2,
  "cart":[
    {
      "vendorId":9,
      "vendorName":"Abcvend23t",
      "items":[
        {"itemId":1,"itemName":"Poha","itemUnitPrice":20,"itemQty":2},
        {"itemId":2,"itemName":"Idli","itemUnitPrice":30,"itemQty":1}
      ]
    }
  ]
}
```

Result:

```
{
  "error": false,
  "message": "order placed successfully",
  "status": 200,
  "data": {
    "userId": 2,
    "orderId": 83108,
    "orderItems": [
      {
        "vendorId": 9,
        "vendorName": "Abcvend23t",
```

```

      "items": [
        {
          "itemId": 1,
          "itemName": "Poha",
          "itemUnitPrice": 20,
          "itemQty": 2
        },
        {
          "itemId": 2,
          "itemName": "Idli",
          "itemUnitPrice": 30,
          "itemQty": 1
        }
      ]
    },
    "orderTotal": 70,
    "orderReady": false,
    "orderDelivered": false,
    "orderRating": 0,
    "orderedOn": "2020-01-31T16:34:11.004Z"
  }
}

```

<https://easyfoodcdacnode.herokuapp.com/users/order?userId=3>

Get

```

{
  "error": false,
  "message": "user orders fetched",
  "status": 200,
  "data": [
    {
      "userId": 3,
      "orderId": 9221,
      "orderItems": [
        {
          "vendorId": 1,
          "vendorName": "easyFood",
          "items": [
            {
              "itemId": 1,
              "itemName": "poha",
              "itemUnitPrice": 20,
              "itemQty": 1
            }
          ]
        }
      ]
    }
  ],
  "orderTotal": 20,
  "orderReady": false,
  "orderDelivered": false,
  "orderRating": 1,
  "orderedOn": "2020-01-29T12:35:42.983Z"
},

```

```

{
  "userId": 3,
  "orderId": 58739,
  "orderItems": [
    {
      "vendorId": 2,
      "vendorName": "easyFood",
      "items": [
        {
          "itemId": 2,
          "itemName": "Pineapple juice",
          "itemUnitPrice": 40,
          "itemQty": 2
        },
        {
          "itemId": 3,
          "itemName": "Banana Shake",
          "itemUnitPrice": 30,
          "itemQty": 2
        }
      ]
    }
  ],
  "orderTotal": 140,
  "orderReady": true,
  "orderDelivered": true,
  "orderRating": 0,
  "orderedOn": "2020-01-30T14:18:28.063Z"
},
{
  "userId": 3,
  "orderId": 43445,
  "orderItems": [
    {
      "vendorId": 2,
      "vendorName": "easyFood",
      "items": [
        {
          "itemId": 6,
          "itemName": "Fruit Salad",
          "itemUnitPrice": 45,
          "itemQty": 1
        },
        {
          "itemId": 5,
          "itemName": "Apple juice",
          "itemUnitPrice": 50,
          "itemQty": 2
        },
        {
          "itemId": 4,
          "itemName": "Orange juice",
          "itemUnitPrice": 35,
          "itemQty": 1
        }
      ]
    }
  ]
}

```

```

        }
    ]
}
],
"orderTotal": 180,
"orderReady": true,
"orderDelivered": true,
"orderRating": 3,
"orderedOn": "2020-01-30T14:20:40.637Z"
},
{
    "userId": 3,
    "orderId": 48733,
    "orderItems": [
        {
            "vendorId": 3,
            "vendorName": "easyFood",
            "items": [
                {
                    "itemId": 2,
                    "itemName": "Veg Thali",
                    "itemUnitPrice": 100,
                    "itemQty": 1
                },
                {
                    "itemId": 4,
                    "itemName": "Veg Rice",
                    "itemUnitPrice": 80,
                    "itemQty": 2
                }
            ]
        }
    ]
},
"orderTotal": 260,
"orderReady": true,
"orderDelivered": true,
"orderRating": 3,
"orderedOn": "2020-01-30T20:01:23.267Z"
}
]
}

```

<https://easyfoodcdac.herokuapp.com/admin/recharge>

Post

```

[
    {"key": "userId", "value": "1", "description": "", "type": "text", "enabled": true},
    {"key": "adminId", "value": "1", "description": "", "type": "text", "enabled": true},
    {"key": "amount", "value": "1000", "description": "", "type": "text", "enabled": true}
]

```

Result:

```

{
    "success": true,
    "message": "balance updated",
}

```

```
"result": {
  "balance": "10999.0",
  "id": "1"
}
```

<https://easyfoodcdac.herokuapp.com/users/rechargehistory?userId=2>

Get

Result:

```
{
  "success": true,
  "message": "history fetched",
  "result": [
    {
      "transactionId": 2,
      "userId": 2,
      "adminId": 2,
      "rechargeAmount": 1000.0,
      "rechargeDate": "2020-01-30T20:09:40.525+0000"
    }
  ]
}
```

<https://easyfoodcdacnode.herokuapp.com/admin/today>

Get

Result:

```
{
  "error": false,
  "message": "details fetched",
  "status": 200,
  "data": {
    "orders": 3,
    "total": 1730
  }
}
```

<https://easyfoodcdac.herokuapp.com/admin/rechargehistory>

Get

Result:

```
{
  "success": true,
  "message": "history fetched",
  "result": [
    {
      "transactionId": 1,
      "userId": 3,
      "adminId": 1,
      "rechargeAmount": 1000.0,
      "rechargeDate": "2020-01-30T14:17:56.045+0000"
    },
    {
      "transactionId": 2,
      "userId": 2,
      "adminId": 2,

```

```

    "rechargeAmount": 1000.0,
    "rechargeDate": "2020-01-30T20:09:40.525+0000"
  },
  {
    "transactionId": 3,
    "userId": 6,
    "adminId": 1,
    "rechargeAmount": 9000.0,
    "rechargeDate": "2020-01-31T11:26:40.648+0000"
  },
  {
    "transactionId": 4,
    "userId": 9,
    "adminId": 1,
    "rechargeAmount": 1000.0,
    "rechargeDate": "2020-01-31T11:40:14.775+0000"
  },
  {
    "transactionId": 5,
    "userId": 1,
    "adminId": 1,
    "rechargeAmount": 1000.0,
    "rechargeDate": "2020-01-31T16:36:57.793+0000"
  }
]
}

```

<https://easyfoodcdacnode.herokuapp.com/admin/byrange?from=2020-01-26&to=2020-01-27>

Get

```

{
  "error": false,
  "message": "orders fetched",
  "status": 200,
  "data": [
    {
      "userId": 2,
      "orderId": 4232,
      "orderItems": [
        {
          "vendorId": 1,
          "vendorName": "Abcvend23",
          "items": [
            {
              "itemId": 1,
              "itemName": "Poha",
              "itemUnitPrice": 20,

```



```

        "itemQty": 2
      },
      {
        "itemId": 2,
        "itemName": "Idli",
        "itemUnitPrice": 30,
        "itemQty": 1
      }
    ]
  },
  ],
  "orderTotal": 170,
  "orderReady": false,
  "orderDelivered": false,
  "orderRating": 1,
  "orderedOn": "2020-01-27T09:54:32.342Z"
}
]
}

```

<https://easyfoodcdacnode.herokuapp.com/vendor/updateorder>

Post

```

{
  "orderId": 4232,
  "orderReady": true
}

```

Result:

```

{
  "error": false,
  "message": "order updated",
  "status": 200,
  "data": {
    "userId": 2,
    "orderId": 4232,
    "orderItems": [
      {
        "vendorId": 1,
        "vendorName": "Abcvend23",
        "items": [
          {
            "itemId": 1,
            "itemName": "Poha",
            "itemUnitPrice": 20,
            "itemQty": 2
          },
          {
            "itemId": 2,
            "itemName": "Idli",
            "itemUnitPrice": 30,
            "itemQty": 1
          }
        ]
      }
    ]
  }
},

```

```

    "orderTotal": 170,
    "orderReady": true,
    "orderDelivered": false,
    "orderRating": 1,
    "orderedOn": "2020-01-27T09:54:32.342Z"
  }
}

```

<https://easyfoodcdacnode.herokuapp.com/vendor/orders?vendorId=3>

```

get
{
  "error": false,
  "message": "orders fetch successful",
  "status": 200,
  "data": [
    {
      "userId": 4,
      "orderId": 65304,
      "orderItems": [
        {
          "vendorId": 3,
          "vendorName": "easyFood",
          "items": [
            {
              "itemId": 7,
              "itemName": "Veg Thali",
              "itemUnitPrice": 100,
              "itemQty": 1
            }
          ]
        }
      ]
    },
    {
      "userId": 2,
      "orderId": 70422,
      "orderItems": [
        {
          "vendorId": 3,
          "vendorName": "easyFood",
          "items": [
            {
              "itemId": 2,
              "itemName": "Veg Thali",
              "itemUnitPrice": 100,
              "itemQty": 2
            }
          ]
        }
      ]
    }
  ]
}

```

```

    }
  ],
  "orderTotal": 200,
  "orderReady": true,
  "orderDelivered": true,
  "orderRating": 1,
  "orderedOn": "2020-01-29T19:12:27.919Z"
},
{
  "userId": 6,
  "orderId": 12605,
  "orderItems": [
    {
      "vendorId": 3,
      "vendorName": "easyFood",
      "items": [
        {
          "itemId": 6,
          "itemName": "Kadhai Paneer",
          "itemUnitPrice": 200,
          "itemQty": 2
        }
      ]
    }
  ]
},
{
  "orderTotal": 400,
  "orderReady": true,
  "orderDelivered": true,
  "orderRating": 1,
  "orderedOn": "2020-01-29T21:04:13.230Z"
},
{
  "userId": 4,
  "orderId": 18829,
  "orderItems": [
    {
      "vendorId": 3,
      "vendorName": "easyFood",
      "items": [
        {
          "itemId": 2,
          "itemName": "Veg Thali",
          "itemUnitPrice": 100,
          "itemQty": 2
        }
      ]
    }
  ]
},
{
  "orderTotal": 200,
  "orderReady": true,
  "orderDelivered": true,
  "orderRating": 0,
  "orderedOn": "2020-01-30T10:53:28.254Z"
},

```

```

{
  "userId": 4,
  "orderId": 8727,
  "orderItems": [
    {
      "vendorId": 3,
      "vendorName": "easyFood",
      "items": [
        {
          "itemId": 3,
          "itemName": "Special Veg Thali",
          "itemUnitPrice": 150,
          "itemQty": 1
        },
        {
          "itemId": 4,
          "itemName": "Veg Rice",
          "itemUnitPrice": 80,
          "itemQty": 1
        },
        {
          "itemId": 5,
          "itemName": "Puri Sabji",
          "itemUnitPrice": 50,
          "itemQty": 1
        }
      ]
    }
  ],
  "orderTotal": 280,
  "orderReady": true,
  "orderDelivered": true,
  "orderRating": 0,
  "orderedOn": "2020-01-30T12:15:44.914Z"
},
{
  "userId": 4,
  "orderId": 30350,
  "orderItems": [
    {
      "vendorId": 3,
      "vendorName": "easyFood",
      "items": [
        {
          "itemId": 3,
          "itemName": "Special Veg Thali",
          "itemUnitPrice": 150,
          "itemQty": 1
        },
        {
          "itemId": 4,
          "itemName": "Veg Rice",
          "itemUnitPrice": 80,
          "itemQty": 1
        }
      ]
    }
  ]
}

```

```

        },
        {
            "itemId": 5,
            "itemName": "Puri Sabji",
            "itemUnitPrice": 50,
            "itemQty": 1
        }
    ]
}
],
"orderTotal": 280,
"orderReady": true,
"orderDelivered": true,
"orderRating": 0,
"orderedOn": "2020-01-30T12:17:05.836Z"
},
{
    "userId": 4,
    "orderId": 68838,
    "orderItems": [
        {
            "vendorId": 3,
            "vendorName": "easyFood",
            "items": [
                {
                    "itemId": 2,
                    "itemName": "Veg Thali",
                    "itemUnitPrice": 100,
                    "itemQty": 1
                },
                {
                    "itemId": 8,
                    "itemName": "Dal Rice",
                    "itemUnitPrice": 80,
                    "itemQty": 1
                }
            ]
        }
    ]
},
"orderTotal": 180,
"orderReady": true,
"orderDelivered": true,
"orderRating": 0,
"orderedOn": "2020-01-30T12:19:21.899Z"
},
{
    "userId": 4,
    "orderId": 97606,
    "orderItems": [
        {
            "vendorId": 3,
            "vendorName": "easyFood",
            "items": [
                {

```

```

        "itemId": 3,
        "itemName": "Special Veg Thali",
        "itemUnitPrice": 150,
        "itemQty": 1
    },
    {
        "itemId": 4,
        "itemName": "Veg Rice",
        "itemUnitPrice": 80,
        "itemQty": 1
    },
    {
        "itemId": 5,
        "itemName": "Puri Sabji",
        "itemUnitPrice": 50,
        "itemQty": 1
    }
]
}
],
"orderTotal": 280,
"orderReady": true,
"orderDelivered": true,
"orderRating": 0,
"orderedOn": "2020-01-30T12:21:03.071Z"
},
{
    "userId": 4,
    "orderId": 48565,
    "orderItems": [
        {
            "vendorId": 3,
            "vendorName": "easyFood",
            "items": [
                {
                    "itemId": 2,
                    "itemName": "Veg Thali",
                    "itemUnitPrice": 100,
                    "itemQty": 2
                }
            ]
        }
    ]
},
"orderTotal": 200,
"orderReady": true,
"orderDelivered": true,
"orderRating": 0,
"orderedOn": "2020-01-30T12:28:50.208Z"
},
{
    "userId": 3,
    "orderId": 48733,
    "orderItems": [
        {

```

```

    "vendorId": 3,
    "vendorName": "easyFood",
    "items": [
      {
        "itemId": 2,
        "itemName": "Veg Thali",
        "itemUnitPrice": 100,
        "itemQty": 1
      },
      {
        "itemId": 4,
        "itemName": "Veg Rice",
        "itemUnitPrice": 80,
        "itemQty": 2
      }
    ]
  },
  ],
  "orderTotal": 260,
  "orderReady": true,
  "orderDelivered": true,
  "orderRating": 3,
  "orderedOn": "2020-01-30T20:01:23.267Z"
},
{
  "userId": 2,
  "orderId": 7910,
  "orderItems": [
    {
      "vendorId": 3,
      "vendorName": "easyFood",
      "items": [
        {
          "itemId": 4,
          "itemName": "Veg Rice",
          "itemUnitPrice": 80,
          "itemQty": 1
        },
        {
          "itemId": 5,
          "itemName": "Puri Sabji",
          "itemUnitPrice": 50,
          "itemQty": 3
        },
        {
          "itemId": 6,
          "itemName": "Kadhai Paneer",
          "itemUnitPrice": 200,
          "itemQty": 1
        }
      ]
    }
  ]
},
  ],
  "orderTotal": 430,

```

```

    "orderReady": true,
    "orderDelivered": true,
    "orderRating": 4,
    "orderedOn": "2020-01-30T20:07:04.309Z"
  },
  {
    "userId": 6,
    "orderId": 49766,
    "orderItems": [
      {
        "vendorId": 3,
        "vendorName": "easyFood",
        "items": [
          {
            "itemId": 2,
            "itemName": "Veg Thali",
            "itemUnitPrice": 100,
            "itemQty": 3
          },
          {
            "itemId": 6,
            "itemName": "Kadhai Paneer",
            "itemUnitPrice": 200,
            "itemQty": 3
          },
          {
            "itemId": 7,
            "itemName": "Dal Khichadi",
            "itemUnitPrice": 120,
            "itemQty": 3
          }
        ]
      }
    ],
    "orderTotal": 1260,
    "orderReady": true,
    "orderDelivered": true,
    "orderRating": 0,
    "orderedOn": "2020-01-31T11:29:04.617Z"
  },
  {
    "userId": 9,
    "orderId": 60944,
    "orderItems": [
      {
        "vendorId": 3,
        "vendorName": "easyFood",
        "items": [
          {
            "itemId": 5,
            "itemName": "Puri Sabji",
            "itemUnitPrice": 50,
            "itemQty": 1
          }
        ]
      }
    ]
  }

```



```

        {
          "itemId": 6,
          "itemName": "Kadhai Paneer",
          "itemUnitPrice": 200,
          "itemQty": 1
        },
        {
          "itemId": 3,
          "itemName": "Special Veg Thali",
          "itemUnitPrice": 150,
          "itemQty": 1
        }
      ]
    },
    "orderTotal": 400,
    "orderReady": true,
    "orderDelivered": true,
    "orderRating": 4,
    "orderedOn": "2020-01-31T11:41:11.965Z"
  }
]
}

```

<https://easyfoodcdacnode.herokuapp.com/vendor/currentorders?vendorId=1>

Get

```

{
  "error": false,
  "message": "orders fetch successful",
  "status": 200,
  "data": [
    {
      "userId": 2,
      "orderId": 56300,
      "orderItems": [
        {
          "vendorId": 1,
          "vendorName": "Abcvend23",
          "items": [
            {
              "itemId": 1,
              "itemName": "Poha",
              "itemUnitPrice": 20,
              "itemQty": 2
            },
            {
              "itemId": 2,
              "itemName": "Idli",
              "itemUnitPrice": 30,
              "itemQty": 1
            }
          ]
        }
      ]
    }
  ],
}

```

```

      "orderTotal": 170,
      "orderReady": false,
      "orderDelivered": false,
      "orderRating": 1,
      "orderedOn": "2020-01-28T14:36:55.769Z"
    },
    {
      "userId": 2,
      "orderId": 74081,
      "orderItems": [
        {
          "vendorId": 1,
          "vendorName": "Abcvend23",
          "items": [
            {
              "itemId": 1,
              "itemName": "Poha",
              "itemUnitPrice": 20,
              "itemQty": 2
            },
            {
              "itemId": 2,
              "itemName": "Idli",
              "itemUnitPrice": 30,
              "itemQty": 1
            }
          ]
        }
      ],
      "orderTotal": 170,
      "orderReady": true,
      "orderDelivered": false,
      "orderRating": 1,
      "orderedOn": "2020-01-29T09:54:29.341Z"
    },
  ]
}

```

<https://easyfoodcdac.herokuapp.com/vendors/rating>

Post

```

[
  {"key": "vendorId", "value": "1", "description": "", "type": "text", "enabled": true},
  {"key": "rating", "value": "3", "description": "", "type": "text", "enabled": true}
]

```

Result:

```

{
  "success": true,
  "message": "rating updated"
}

```

<https://easyfoodcdacnode.herokuapp.com/user/orderrating>

Post

```

{
  "orderId": 48280,

```

```
    "rating":4
  }
Result:
{
  "error": false,
  "message": "order updated successful",
  "status": 200,
  "data": null
}
```

FUTURE SCOPE

In future we can implement recommendation engine using elastic search by analyzing the order trend.

For admin we can provide advanced analytic tool for better order analysis to manage inventory efficiently.

With advance analytics admin can also easily monitor feedback to ensure quality, and we generate the hybrid app/pwa for users/vendor/admin.

Conclusion

Hence, easyfood solves the problem of long queues and saves the user time as user can easily order food promise from anywhere.

Vendors can easily track and prepare order without any hustle.

This system ensures the cafeteria operate smoothly during peek hour also.

Admin can easily track