**ENGINEERING DESIGN**

**PROJECT REPORT**

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**FoodEatoo**

**(Group-4)**

**Acknowledgement**

We would like to express our special thanks and gratitude to our teachers Prof. Kamaljit Rangra and Prof. Deepak Arora, who gave us this opportunity of developing an online portal for ordering food from food stores in IIT JODHPUR. This assignment cannot be completed without the effort and co-operation from our group members Varshit, Prajjwal, Suraj, Yashveer, Pari, Raman, Mansi and Ujjwal.

Group 4

Engineering Design

**Introduction**

**Why FoodEatoo is needed?**

The existing web based food portals don't allow food pickup facility in restaurants from which we order our food. Presently, a person can order food online from a restaurant of his choice and get it delivered at their desired place but they don’t have any option of picking up ordered food if they need that in some cases . Our portal will provide the users with the facility of both ordering food online and getting it delivered at the doorstep as well as options for picking up food from food stores if they need to.

**Challenges:**

The most important challenge in the formation of the portal was choosing right technologies so that we can create a secure and fully functional website in given time. Another challenge was creating a vendor marketplace so that vendor can register on their own and the admin doesn’t have to add them manually.

There were many more challenges like creating an interactive and good looking user interface, integrating Razorpay so that we can have multiple payment option and creating a option for food pickup.

**Motivation**

Standing in a long line in the Canteens of our colleges and then getting to know that the item we wanted is not available motivated us to develop this portal on which we can both order food online or preorder the food and then visit the food court for having food.

**Research**

We discussed as well as researched about the problems in existing food portals and the technologies we will use in developing our platform for solving the same. Currently available food portals are just a means for delivering food from a restaurant or dhaba at your doorstep, they don't offer dine in or food pickup services, our portal has options for both delivery and food pickup.

**Methodology**

The user will visit the website and then register on it. Then the user will be introduced with a variety of categories of food to order. Users can also search for food from specific restaurants.

After selecting food the user can choose from the options of getting it delivered at home or visiting the restaurant for picking up food or eating it there. User can also add notes for the vendor if want any extra addons with food or they want a specific ingredient not to used due to allergies etc.

The user then has to complete the payment. After completing payment, users can check the progress of cooking or delivery of food.

**Future Work**

In future we will be extending our services to nearby cafes/restaurants.

In future our portal will also allow any other person/people such as faculty family can be a vendor.

Guest login for visitors, students coming from other colleges for fests, etc. will also be implemented.

In future we will also take help from some advanced technologies like blockchain in personal identity security, A.I based food choice targeting, developing our own payment gateway etc.

**Contributions**

Singamsetti Manikanta Varshit(B22AI038)

* I led a team of eight talented individuals, each assigned specific roles and responsibilities based on their skills and expertise.
* Throughout the project we encountered several challenges such as technical complexes and time constraints for the team mates.
* I ensure regular interaction among the team members to overcome above challenges.
* Coming to the technical part, I have worked on seamless integration of plugin with our website theme. As whenever we used plugins to add new features to the website it caused disturbance to the layout of the website. This is where the majority of my contribution comes as I fixed these issues.
* I also worked on optimizing the speed of our website by removing the unnecessary lines of codes.

Prajjwal Dixit(B22ME046)

* Made the team members familiarize about the technologies used in developing web portals and applications. I also suggested them various courses that can be helpful in learning web development.
* Developed all the major backend options that our portal uses like my orders, payment section, cart, vendor portal etc.
* Customized Dokan plugin for allowing pickup option at the time of ordering food.
* Created custom login and registration feature for user and vendor.
* Customized WooCommerce for allowing multi-vendor stores.

Suraj Sunil Chothe(B22CI041):

* I went through some food ordering apps and UI designing tutorials on YouTube to understand how the food ordering websites look, how they are designed, and what things are considered during the design of the website.
* Made dummy templates in photoshop so that the frontend developing team can create a interactive and good looking frontend of the website.
* I focused on organizing the information hierarchy, ensuring that it is logical and easy to navigate. By categorizing content effectively and designing clear menus and filters, I help users quickly find the desired food options, menus, and additional information they may need, resulting in a smooth ordering experience.
* I work closely with the development team to ensure the seamless implementation of the design. I provide detailed design specifications, guidelines, and assets, and collaborate throughout the development process to address any design-related challenges.This collaboration ensures that the final product aligns with the intended design vision.

Raman Kishor(B22MT034)

* I learned web development and helped in developing vendor side of website.
* I worked closely with development team to suggest them various features like coupons,note addition etc. that we can add to facilitate the user .
* I did listing of the food items, their prices, quantity,etc.
* I talked to vendors about our website and explained to them that how can our website can be beneficial to them.
* I created various categories for food items so that food items can be easily segregated and users can easily choose the type of food they need.

Mansi Choudhary (B22EE045)

* As a part of the frontend development team I worked extensively in designing the homepage and restaurant page of the website.
* I actively participated in the UI design process for the homepage, collaborating with the design team to create an attractive and intuitive layout. I provided valuable inputs on color schemes, typography, and visual elements to ensure a visually appealing and user-friendly design.
* I played a key role in developing and implementing an interactive number of restaurant displays on the restaurant page.
* As part of the development team, my focus was on creating a user-centric experience that allows users to manage their profiles, see status of the order, and engage with the website's features efficiently.

Pari Sharma(B22CS039)

* As a part of the frontend team I worked extensively on designing the frontend part for the vendor.
* I created pages like separate login for vendors and various features like sales, earnings, number of orders placed, and their status; it gives them a glance at their business.
* I also created frontend of products section where vendor can add more food items, update a particular food item's availability and modify its price at their convenience. Moreover, they can also add additional food items over time.
* Going to the orders section, the vendor can update the progress of the orders, whether it's still being prepared or completed. They can see the list of orders placed along with the customer names, amount of orders, and date of placing orders.
* In the coupons section, a vendor might give coupons on occasions like IPL matches or festivals, to its loyal customers, who have spent a decent amount of money on their food.

Yashveer Singh(B22CH043)

* As a part of backend team my major contribution was integrating Razorpay payment gateway so that the user can easily pay for the order using credit card, debit card, UPI and many other payment methods.
* I ensure that the integration with the Razorpay API follows industry-standard security practices. By prioritizing security, I instill confidence in users, fostering trust in the payment process.
* I also developed login and registration forms for vendors.

Ujjwal Kumar Singh(B22BB043)

* I learned web development and helped in developing vendor side of website.
* I worked closely with development team to suggest them various features like Razorpay payment gateway integration, recent order section etc.
* I did listing of the food items, their prices, quantity,categories etc.
* I contacted vendors about our portal and explained them about the features of our website and how it can be beneficial for them.

**Our Team**

