

# Timely Taste

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*Abstract— The world is having major changes in technology and computing power makes it possible to create a better-automated solution for the current tasks that require high efficiency and accuracy. In Timely Taste, we offer all the college cafeterias a full-fledged order management website with a pre-ordering system. This system when applied helps us to reduce the delayed orders and there is no burden to provide the change of the staff for the order. Usually, people need to go to the canteen and order the food, they keep waiting for a long period of time to get their order. This is where Timely Taste comes into the picture, users can simply order with this website and can book a timeslot at which they will come to receive their order; this saves a lot of time for all the staff and students or whoever using these services. All students have limited time and have classes to attend. This application helps them to manage their time more efficiently and don't have to mess up their schedule. To order anything from the college cafe all you've to do is open the browser and log in to the website, order everything and you'll receive an OTP that will contain a secret code which you'll be showing to the vendor to receive the order. This whole platform can be used by anyone within the vicinity of the serving cafe, college, or vendor.*

**Keywords—** Django, Food booking, HTML, CSS

## 1. Introduction

Today even after such major technology revolutions very few places have used these tools for the development of business and it's not available to small businesses right

now, our sources Wikipedia reported students to spend their 6 hrs weekly simply waiting for the order in the long queues and the schedule of these students needs to be altered because of this wait. Poor infrastructure of the campus cafeteria leads to massive losses over time that could be easily avoided with simple programs. The schedule of students is easily changing because of these delays and even the working staff faces this problem. This may be not a major issue for those who live near the college or live in the city where the college is present but those who depend on the cafeteria for the food face the most issues regarding it daily. This is where Timely Taste provides everything from proper database management to a total order management system where all the problems that the vendors or cafeteria owners face, this project also targets all the students that are facing schedule issues and delayed orders in a single application to manage everything. This application is a website that allows everyone to access all the contents available on it and doesn't target any particular device or platform, as long as the customer has a proper internet connection, they will be able to use this platform without any hassle just by simply typing our website URL and will be ready order anything on the website.

## 2. Literature Review

As of now, the web application has many features and services up to date. Beginning with a register/sign-up page for newcomers and a login page for already registered customers. The web application has various food items displayed on the menu card which includes snacks, main course, beverages, and many more which further helps them to add the desired food item to the cart in case further listing of items is to be done. The image addresses and editable texts like naming food items, editing, and customizing the order history are added to the database of the application. By doing so, the host or to be more precise the owner of the canteen or any food outlet can edit the front up to their expectations without any need to code.

This project has gained a lot of insights from different online food ordering systems based on different technologies like Artificial intelligence, blockchain technology, machine learning, and many more. Online distributions have not been constrained just to victuals items, all thanks to the ecumenical pandemic. But even so, if we consider all the other industries, the pabulum distribution industry alone will beat all the other industries. The victuals distribution system is not an incipient concept but the utilization of Artificial Perspicacity has given a sudden enhancement to leveraging the pabulum distribution mobile applications to injunctively authorize the pabulum and relish them with comfort [6].

Ecumenical aliment supply chain failure has become a catchphrase for supply systems malfunction. Just visually examine the last two years to visually perceive the failure that supply chains have caused the pabulum industry. Blockchain technology (BT) is one implementation that could amend future aliment systems policies, traceability, and the flow and prosperity of these supply chains [8]. BT can enhance consumer trust, engendering haste, and product efficiency; things the victuals industry could utilize right now. BT can substantially amend ecumenical aliment supply chains by enabling more expeditious and more cost-efficient distribution of products, ameliorating supply chain transparency and traceability, upgrading the authentic-time coordination between trading partners, and substantially ameliorating record-keeping by all concerned parties [8]. Cross-

platform development is utilizable because the utilizer can inscribe their code in one language that can facilely be compiled to multiple platforms, i.e. platform independence can be achieved [1].

### 3. Methodology

Python is the language that has been used here as the main programming language for the backend of the project. The project makes use of the Django framework for the backend website development and HTML, CSS, and tailwind CSS for the frontend of the website. To begin with this project, one has to have python along with pip installed in their workstation. Now begin by creating a python Django project with the command “Django-admin start project <name\_of\_the\_project>”. Django automatically creates a set of files that are necessary for running the server. Once the project files are set one has to set the route for the HTML files and static files in the settings.py file of the project.

After that one can create an app using the command “python manage.py startup <name\_of\_the\_app>”. The main purpose of this app will be to set the URLs of the functions defined for this app as well as set up models for this particular app in the database. After setting the app define functions that will be responsible for setting up URLs for different HTML pages. Define the logic for the sign-in and sign-up pages setting up the frontend for these pages correspondingly. Create the product, Order, and OrderItem tables in the database by defining this as classes in the models.py file

Add data on the various products that are available for sale in this table as well as the images that will be displayed on the frontend. The add-to-cart and view cart functionality can be set now along with the frontend for these pages. The images uploaded to the database will be viewed here automatically with the help of Django HTML. Once the user presses the add to cart button the item will be added to the order table of the database under the name of the user and once the user buys that item it will be automatically added to the OrderItem table in the database under the name of the user. While buying the user will also add the time slot in which he

would like to pick up the food he ordered and while paying a token will be generated which will indicate the time and a unique identification number for that token.

#### 4. System Architecture

The website's system architecture is composed of many HTML pages that are linked together using Django. When the website loads the sign-in and sign-up pages are displayed, if the user is already registered, he can sign in, if the user is new, he must first register in the database before he can sign in to the website. Once a user has successfully logged in, the user is taken to the main page, which includes a nav bar with links to various sections of the website, as well as a list of things that may be ordered from the canteen. Each item in the list of items has its own unique id that the program can use to identify the item they desire at the time of checkout. The items are shown in the form of cards, with each card containing the item's photo and price, as well as an add-to-cart button. When a user clicks the add to cart button, that item is put into the cart using the unique id that has been assigned to it. All of the things that users add to their carts are saved in a Django database to which only the canteen's owner has access. This database allows the owner to check the orders that he has received from customers. After the consumer has finished adding his items to the cart, the cart is loaded with the items as well as the price of the items that the user has chosen. Now it's time to pay, and this website uses Razorpay for payment. The user must make a payment through Razorpay before the order can be processed. When the order is finished, it is entered into the database, where the owner of the canteen can see it and begin preparing it. Fig 1. represents the architecture the user will come across when they will order something from the website, it represents the steps he needs to follow in order to order food. While Fig 2. represents the database architecture the website follows in order to store User information, orders made by the user and also stores the information regarding the food items in the canteen etc.

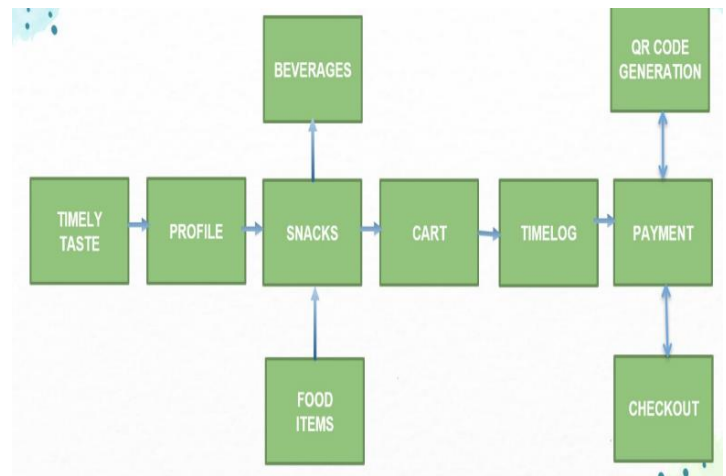


Fig1. Architecture for ordering food

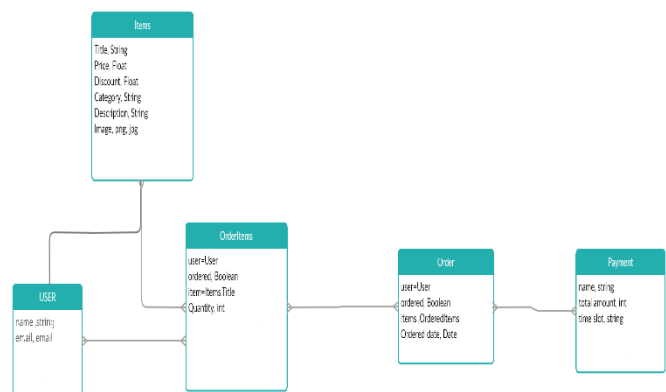


Fig 2. Database Architecture for the website

#### 5. Results and Discussion

There is a flurry of hustle for jobs nowadays. Many people don't have enough time to eat a proper meal. Consequently, the canteen serves as an important source of healthy food for the students and employees in the college and company. It becomes very difficult to get food from the canteen due to a large crowd and space constraints. That is why we developed the 'Timely Taste' system. An online platform called Timely Taste enables users to order food and drinks from the canteen as per the recommended time frame. A student who visits our website first goes to the sign-

in page to register if he already has an account. Consumers who don't have an account can create one by signing up. On completing the process, the user is taken to the first page of the website where he can find the welcome message, along with a list of canteen items, separated into sections such as drinks, fruits, etc. He can choose the items according to his needs, whether he is at home or in the classroom with his laptop or phone. Once items have been selected, they will show up in the cart section. We promote students' cashless transactions at Timely Taste, so they can pay using their UPI or cards. The online receipt is generated once the payment has been successfully processed and is sent to the customer. When he goes to collect the food item at the scheduled time, all he needs to do is show the receipt as proof of payment, and he will get what he wants.

On the website, there are other sections such as Services, Contact, Prices, and so on. The consumer can give feedback directly from the website if he would like to contact us [3]. Timely Taste is a good initiative from the owner's side because the owner can reduce loss by analyzing the proper food quantities at that time, minimizing food waste. The owner can control the total database of the website, so after payment by the customer, all the details regarding the food order and payment are stored in the database. Furthermore, the feedback coming from the website will be stored in the database [3]. The owner will be able to edit the images as well as the text relating to contexts such as pricing and description through the database, so no changes are needed to the code.

## 6. FUTURE SCOPES

Timely Taste could have multiple future scopes some of them being, that this system can be implemented in the cafeteria and even street vendors can make use of it. Sorting algorithms can be added to the system which will sort the user's most favorite items or items the user orders often will be sorted and displayed first.

## 7. Conclusion

The major goal of this website is to make the food ordering system dependable for both the user and the canteen owner. By simplifying the procedure, it prevents users from wasting time waiting in long lines and makes order tracing easier for the owner. In conclusion to this project, it can be stated that with proper implementation with canteens, this project will play a significant role in this system, and many more features can also be added in the future to make it more efficient. Number footnotes separately in superscripts. Place the actual footnote at the bottom of the column in which it was cited. Do not put footnotes in the abstract or reference list. Use letters for table footnotes.

## ACKNOWLEDGMENT

This was supported by the department of engineering sciences and humanities of Vishwakarma Institute of Technology, Pune. this paper and the research behind it would not have been possible without the exceptional support of our guide, Prof. Puja Chavan, and our family members.

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