

**KwickMeal, A restaurant management system**

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## Table of Contents

Introduction .....	3
Problem Statement .....	4
Agile Process .....	5
Role .....	10
Argument .....	13
Conclusion.....	17
Reference .....	19
Link.....	21

## Table of Figures

Figure 1:Priority Set .....	5
Figure 2:User Stories Mapping.....	6
Figure 3: Agile Release Plan .....	7
Figure 4: Agile Spring Backlog 1 .....	7
Figure 5: Agile Spring Backlog 2 .....	7
Figure 6: Agile Spring Backlog 3 .....	8
Figure 7: Agile Spring Backlog 4 .....	8
Figure 8: Agile Spring Backlog 5 .....	8
Figure 9: Agile Spring Backlog 6 .....	9
Figure 10: Agile Spring Backlog 7 .....	9
Figure 11: Agile Spring Backlog 8 .....	9
Figure 12: Admin Panel .....	13
Figure 13: Menu Page .....	13
Figure 14: Add to Cart. ....	14
Figure 15: Khalti Payment Method. ....	14
Figure 16: Transaction History .....	15
Figure 17:MVT pattern .....	16

## **Introduction**

KwickMeal is a system designed to manage the restaurant effectively and smoothly. Making use of the Django framework, the application was constructed. This project is the result of the combination of the latest technology and fine dining to create an integrated platform that completely changes the dining experience for customers and staff members.

The goal of KwickMeal is to give customers a hassle-free experience. The user interface is simple to use, making the registration and login procedures quick and easy. Clients can safely complete purchases online, place orders, and quickly browse a large menu. Additionally, by giving customers the option to reserve tables for certain day, the system gives them greater authority over their eating experience.

Meanwhile, administrators have access to a complete dashboard that functions as a center for all restaurant activities. They can effectively manage and keep tabs on customer interactions, check the customer list, follow orders, and manage bookings here. The system's adaptability includes the capacity to add, update, and remove orders, reservations, and customer information, giving admins instant access to a dynamic and responsive control panel.

One of KwickMeal's best features is its menu management tools, which allow admins to easily add, update, or remove food items. This guarantees that the restaurant's menu will always be up to date and represent the newest culinary trends, resulting in a lively and interesting cuisine that suits changing customer preferences.

## **Problem Statement**

The KwickMeal project was started after a thorough examination of the ongoing difficulties that restaurant owners and customers have in the ever-changing restaurant industry. Traditional restaurant management techniques frequently fall short, resulting in inefficiencies, an absence of real-time data, and low customer involvement. Acknowledging the critical need for a vital solution, our passionate group started working on KwickMeal, utilizing the powerful Django framework to solve these problems facing the whole industry.

Effectively managing client contacts, tracking orders, and processing reservations are often challenging tasks for restaurants. In the absence of an organized system, difficult manual procedures are frequently used, which increases the risk of mistakes and lowers the quality of the entire dining experience. Booking reservations, placing orders, and navigating through large menus may be an exhausting and time-consuming endeavor for customers.

KwickMeal presents a thorough and technologically advanced platform that addresses these common issues. Customers may place orders quickly and easily, conduct safe online purchases, and reserve individual tables with ease because to the system's user-friendly interface. In addition, restaurant managers are granted access to an interactive dashboard that facilitates monitoring of orders, easy management of customer data, and real-time supervision of bookings. The menu management section of the platform makes sure that the restaurant's offers are updated on a regular basis to reflect the changing preferences of customers and modern trends in cuisine.

## Agile Process

The KwickMeal project's developers made the decision to use the Agile approach, specifically the Scrum methodology, for several reasons. Scrum's dynamic and iterative structure fits the needs of the project perfectly and makes teamwork among members of the team more effective.

Figure 1: Priority Set

	A	B	C	D	E	F	G
	Feature ID	Feature Name	USER STORY	PRIORITY	AS A <type of user>	I WANT <perform some task>	SO THAT I CAN <achieve some goal>
1	1	User	1.1	High	User	A registration system	Enroll in the application
2			1.2	High	User	home page	know basic information about site
3			1.3	High	User	login system	Access the application
4	2	Food & Menu	2.1	High	User	Menu	able to view the food and drinks.
5			2.2	Medium	User	Food Description	check the ingredients that are used in food preparation.
6			2.3	Medium	User	Price List	see the price of food.
7	3	Admin	3.1	High	Admin	users information	see detailed information of users.
8			3.2	High	Admin	orders	view the orders made by customers.
9			3.3	High	Admin	menu	edit the menu.
10	4	Payment	4.1	High	User	secure payment methods	pay for the orders or reservation without problems.
11			4.2	Medium	User	manage payment	manage my transaction.
12			4.3	Medium	User	payment history	see the list of the past orders with order details.
13	5	Reservation	5.1	High	User	Reserving features	reserve a table.
14	6	Shopping Cart & Order	6.1	High	User	add to cart option	order items
15			6.1	Medium	User	edit cart items	edit or remove cart items.
16	7	Contact	7.1	Medium	User	customer support	easily accessible from any page within the application, such as a "Contact Us".
17			7.2	Low	User	contact details	contact the restaurant in case of some inquiry.
18			7.3	Low	User	social media	connect through different platform.
19	8	About Us	7.1	Low	User	about us page	get information about the restaurant.
20			7.2	Low	User	blog	to see restaurant's blog.

Since Scrum values flexibility, our team can react quickly to changing needs and adjustments to the project's structure. As the restaurant business is always evolving and we need to make quick adjustments to match the needs of customers, Scrum's iterative cycles, or sprints, allow us to continuously improve and develop KwickMeal's features.

Figure 2:User Stories Mapping

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Legend: US-User Stories					RELEASE THEME: RESTAURANT MANAGEMENT SYSTEM(KwickMeal)							
2	The Backbone					Epic 1	Epic 2	Epic 3	Epic 4	Epic 5	Epic 6	Epic 7	Epic 8
3													
4	Flesh on the backbone					User Account	Food & Menu	Admin	Payment	Reservation	Shopping Cart & Order	Contact	Blog & About Us
5													
6	Sprint/Iteration 1 (12/04/2023 – 12/10/2023)												
7	Sequence												
8	Version 1					A registration system							
9						login system							
10													
11													
12													
13	Sprint/Iteration 2 (12/11/2023 – 12/17/2023)					Home page	Menu						
14													
15	Version 2												
16													
17													
18													
19	Sprint/Iteration 3 (12/18/2023 – 12/24/2023)						Menu						
20							Food Description						
21	Version 3						Price List						
22													
23													
24													
25	Sprint/Iteration 4 (12/25/2023 – 12/31/2023)												
26											add to cart		
27	Version 4										edit cart items		
28													
29													
30													
31	Sprint/Iteration 5 (01/01/2024 – 01/07/2024)												
32							Users information			Reserving features			
33	Version 5						orders(admin)						
34							menu(admin)						
35													
36													
37	Sprint/Iteration 6 (01/08/2024 – 01/14/2024)												
38								reserve payment method					
39	Version 6							manage payment					
40								payment history					
41													
42													
43	Sprint/Iteration 7 (01/15/2024 – 01/23/2024)												
44												customer support	
45	Version 7											contact details	
46													
47													
48													
49	Sprint/Iteration 8 (01/24/2024 – 01/30/2024)												
50													
51	Version 8											social media	about us page
52													blog
53													
54													
55													

For the project, Scrum's focus on regular and open communication is essential. The daily stand-up meetings and frequent sprint reviews make sure that developers, designers, and stakeholders are kept up to date on the status of the project. This openness develops a common understanding of objectives and priorities, improves cooperation, and reduces the possibility of misunderstandings.

We can rapidly develop a prototype and give stakeholders and end users early benefits. Then, following sprints expand on the initial foundation, including feedback and iteratively improving the system. Scrum's focus on regular outputs and customer satisfaction guarantees KwickMeal's continued responsiveness to user needs. We can assign importance to features and make necessary adjustments depending on user preferences and new developments in the restaurant business by routinely collecting input during sprint reviews.

Figure 3: Agile Release Plan

AGILE RELEASE PLAN										
	AT RISK	SPRINT	USER STORY NAME	FEATURE TYPE	START	FINISH	DURATION (In Hours)	STORY POINTS	STATUS	RELEASE DATE
3			1 User Story 1 - Registration	Functionality	4/12/2023	6/12/2023	12	2	Planned	
4			1 User Story 2 - Login	Functionality	6/12/2023	10/12/2023	12	2	Planned	10/12/2023
5										
6			2 User Story 4 - Home page	Functionality	11/12/2023	14/12/2023	18	3	Planned	
7			2 User Story 3 - Menu	Functionality	14/12/2023	17/12/2023	18	3	Planned	17/12/2023
8										
9			3 User Story 3 - Menu	Functionality	18/12/2023	20/12/2023	12	2	Planned	
10			3 User Story 5 - Food Description	Functionality	21/12/2023	23/12/2023	12	2	Planned	
11			3 User Story 6 - Price List	Functionality	23/12/2023	24/12/2023	1	0	Planned	24/12/2023
12										
13			4 User Story 10 - add to cart option	Functionality	27/12/2023	29/12/2023	12	2	Planned	
14			4 User Story 11 - edit cart items	Functionality	29/12/2023	31/12/2023	12	2	Planned	31/12/2023
15										
16			5 User Story 16 - user information	Functionality	1/1/2024	2/1/2024	12	2	Planned	
17			5 User Story 17 - orders(admin)	Functionality	2/1/2024	4/1/2024	12	2	Planned	
18			5 User Story 18 - menu(admin)	Functionality	4/1/2024	6/1/2024	12	2	Planned	
19			5 User Story 19 - Reserving features	Functionality	6/1/2024	7/1/2024	12	2	Planned	7/1/2024
20										
21			6 User Story 7 - secure payment method	Functionality	8/1/2024	10/1/2024	12	2	Planned	
22			6 User Story 8 - manage payment	Functionality	10/1/2024	11/1/2024	6	1	Planned	
23			6 User Story 9 - payment history	Functionality	11/1/2024	12/1/2024	12	2	Planned	14/1/2024
24										
25			7 User Story 12 - customer support	Functionality	15/1/2024	17/1/2024	12	2	Planned	
26			7 User Story 13 - contact details	Functionality	1/8/2024	20/1/2024	12	2	Planned	23/1/2024
27										
28			8 User Story 14 - social media	Functionality	24/1/2024	25/1/2024	6	1	Planned	
29			8 User Story 15 - about us page	Functionality	26/1/2024	27/1/2024	6	1	Planned	
30			8 User Story 21 - blog	Functionality	28/1/2024	30/1/2024	6	1	Planned	30/1/2024

Figure 4: Agile Spring Backlog 1

AGILE SPRINT 1 BACKLOG											
BACKLOG TASK & ID	STORY POINTS	ASSIGNED TO	STATUS	ORIGINAL ESTIMATE (In Hours)	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	SPRINT REVIEW	
User Story #1 : Registration		2	Planned	12							
Backend development		Karun Mani Dixit	Planned	2	0	0	0		1	1	2
Backend development		Kirtan Shrestha	Planned	4	0	0	0.5	1.5	2.5		4.5
Frontend development		Suman Ahamad Khadka	Planned	4	0	1.5	3	2	1		8
TDD Testing		Kirtan Shrestha	Planned	1	0	0	0	0	0.5		0.5
Blackbox Testing		Sachi Tamang	Planned	1	0	0	0		0	0.5	0.5
User Story #2 : Login		2	Planned	12							
Backend development		Karun Mani Dixit	Planned	2	0	0	0		1	1	2
Backend development		Kirtan Shrestha	Planned	4	0	0	0.5	1.5	2.5		4.5
Frontend development		Sashwat Pyakurel	Planned	4	0	1.5	1	1.5	2		6
TDD Testing		Kirtan Shrestha	Planned	1	0	0	0	0	0.5		0.5
Blackbox Testing		Sachi Tamang	Planned	1	0	0	0		0	0.5	0.5

Figure 5: Agile Spring Backlog 2

AGILE SPRINT 2 BACKLOG												
BACKLOG TASK & ID	STORY POINTS	ASSIGNED TO	STATUS	ORIGINAL ESTIMATE (In Hours)	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	SPRINT REVIEW		
User Story #4 : Homepage		3	Planned	18								
Backend development		Karun Mani Dixit		5	0	0	0	2	3	5		
Backend development		Kirtan Shrestha		5	0	0	0	2	3	5		
Frontend development		Suman Ahamad Khadka		6	0	4	2	1.5	0	7.5		
TDD Testing		Karun Mani Dixit		1	0	0	0	0	1	1		
Blackbox Testing		Sachi Tamang		1	0	0	0	0	1	1		
User Story #3 : Menu		3	Planned	18								
Backend development		Karun Mani Dixit		5	0	0	0	0	3	3		
Backend development		Kirtan Shrestha		5	0	0	0	0	3	3		
Frontend development		Sashwat Pyakurel		6	0	0.5	3	2	0.5	6		
TDD Testing		Karun Mani Dixit		1	0	0	0	0	1	1		
Blackbox Testing		Sachi Tamang		1	0	0	0	0	1	1		

Figure 6: Agile Spring Backlog 3

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>AGILE SPRINT 3 BACKLOG</b>											
2	BACKLOG TASK & ID	STORY POINTS	ASSIGNED TO	STATUS	ORIGINAL ESTIMATE (In Hours)	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	SPRINT REVIEW	
3	<b>User Story #3 : Menu</b>	<b>2</b>		<b>Planned</b>	<b>12</b>							
4	Frontend development		Karun Mani Dixit		4	0	0	2	1	0		3
5	Frontend development		Kirtan Shrestha		4	0	0	1	1	1		3
6	Frontend development		Suman Ahamad Khadka		4	1	2	1	0	0		4
7												
8	<b>User Story #5 : Food Description</b>	<b>2</b>		<b>Planned</b>	<b>12</b>							
9	Frontend development		Karun Mani Dixit		4	0	0	1	1	2		4
10	Frontend development		Sashwat Pyakurel		4	0	0	1	2	1		4
11	Frontend development		Suman Ahamad Khadka		4	0	0	1	2	1		4
12												
13	<b>User Story #6 : Price List</b>	<b>0</b>		<b>Planned</b>	<b>1</b>							
14	Frontend development		Sashwat Pyakurel		0.5	0	0.5	0	0	0		0.5
15	Frontend development		Suman Ahamad Khadka		0.5	0	0.5	0	0	0		0.5
16												

Figure 7: Agile Spring Backlog 4

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>AGILE SPRINT 4 BACKLOG</b>											
2	BACKLOG TASK & ID	STORY POINTS	ASSIGNED TO	STATUS	ORIGINAL ESTIMATE (In Hours)	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	SPRINT REVIEW	
3	<b>User Story #10 : Add to cart</b>	<b>3</b>		<b>Planned</b>	<b>18</b>							
4	Backend development		Karun Mani Dixit		5	2	0.5	0	1	2		
5	Backend development		Kirtan Shrestha		5	2	0.5	0	1	2		
6	Frontend development		Sashwat Pyakurel		4	1	1	1	0	0		
7	Frontend development		Suman Ahamad Khadka		4	2.5	0.5	0.5	1	0.5		
8												
9	<b>User Story #11 : Edit cart items</b>	<b>2</b>		<b>Planned</b>	<b>12</b>							
10	Backend development		Karun Mani Dixit		3	0	0	0	1	2		
11	Backend development		Kirtan Shrestha		3	0	0	0	1	2		
12	Frontend development		Sashwat Pyakurel		3	0	0	1	0	0		
13	Frontend development		Suman Ahamad Khadka		3	0.5	0.5	1.25	1	0.5		
14												
15												

Figure 8: Agile Spring Backlog 5

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>AGILE SPRINT 5 BACKLOG</b>											
2	BACKLOG TASK & ID	STORY POINTS	ASSIGNED TO	STATUS	ORIGINAL ESTIMATE (In Hours)	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	SPRINT REVIEW	
3	<b>User Story #16 : users information</b>	<b>0</b>		<b>Planned</b>	<b>1</b>							
4	Backend development		Karun Mani Dixit		0.5	0.5	0	0	0.5	0		1
5	Backend development		Kirtan Shrestha		0.5	0.5	0	0	0.5	0		1
6												
7	<b>User Story #17 : orders</b>	<b>3</b>		<b>Planned</b>	<b>18</b>							
8	Backend development		Karun Mani Dixit		9	0	2	2	2	0		6
9	Backend development		Kirtan Shrestha		9	0	2	2	3	3		10
10												
11	<b>User Story #18 : menu</b>	<b>2</b>		<b>Planned</b>	<b>12</b>							
12	Backend development		Karun Mani Dixit		6	0	1	1	1	0		3
13	Backend development		Kirtan Shrestha		6	0	1	1	2	1		5
14												
15	<b>User Story #19 : Reserving features</b>	<b>3</b>		<b>Planned</b>	<b>18</b>							
16	frontend development		Sashwat Pyakurel		18	0	6	6	3	3		18



Figure 9: Agile Spring Backlog 6

	A	B	C	D	E	F	G	H	I	J	K
1	AGILE SPRINT 6 BACKLOG										
2	BACKLOG TASK & ID	STORY POINTS	ASSIGNED TO	STATUS	ORIGINAL ESTIMATE (In Hours)	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	SPRINT REVIEW
3	User Story #7 : secure payment methods	3		Planned	18						
4	Frontend development		Suman Ahamad Khadka		6	0	1	2	0	3	6
5	Frontend development		Sashwat Pyakurel		6	0	1	2	0	3	6
6											
7	User Story #8 : manage payment	3		Planned	18						
8	Backend development		Karun Mani Dixit		6	0	0	2	0	3	5
9	Backend development		Kirtan Shrestha		6	0	0	1.5	0	3.5	5
10											
11	User Story #9 : payment history	3		Planned	18						
12	Frontend development		Suman Ahamad Khadka		2	0	0	0	0	2	2
13	Frontend development		Sashwat Pyakurel		2	0	0	0	0	2	2
14	Backend development		Karun Mani Dixit		4	0	0	0	0	3	3
15	Backend development		Kirtan Shrestha		4	0	0	0	0	3	3

Figure 10: Agile Spring Backlog 7

[illegible]

Figure 11: Agile Spring Backlog 8

[illegible]

## Role

As a backend developer in the Kwickmeal project, my primary responsibility is to design, develop, and maintain the server-side logic and database architecture that powers the application. This involves implementing APIs, optimizing database queries for performance, ensuring data integrity and security, and integrating with other backend services or third-party APIs as needed.

Specifically, my role includes:

- Collaborating with frontend developers to define API contracts and ensure smooth communication between frontend and backend systems.
- Designing and implementing database schemas that support the application's data model and business logic.
- Writing clean, efficient, and well-documented code that follows best practices and coding standards.
- Implementing authentication and authorization mechanisms to secure access to sensitive data and functionalities.
- Working closely with DevOps or infrastructure teams to deploy and scale the backend infrastructure effectively.
- Participating in code reviews, troubleshooting issues, and providing technical support to other team members.

In my role as a backend developer, I believe in leading by example and fostering a collaborative and supportive team environment. Here are some ways in which I strive to motivate the team:

1. **Clear Communication:** I ensure that communication channels are open and transparent, allowing team members to express their ideas, concerns, and feedback freely. By actively listening to my teammates and providing clear and constructive feedback, I promote a culture of trust and mutual respect.
2. **Recognition and Appreciation:** I make an effort to recognize and appreciate the hard work and contributions of my colleagues. Whether it's acknowledging a job well done in a team meeting or giving shoutouts on our communication channels, I believe that recognizing individuals' efforts boosts morale and encourages continued dedication to the project.
3. **Setting Achievable Goals:** I work with the team to set realistic and achievable goals, breaking down larger tasks into manageable milestones. By celebrating small victories along the way, we maintain momentum and motivation, even when facing challenges.
4. **Encouraging Growth and Learning:** I encourage continuous learning and professional development within the team. Whether it's sharing relevant resources, organizing knowledge-sharing sessions, or providing mentorship to junior team members, I believe that investing in the growth of individuals ultimately benefits the team as a whole.

5. **Team Psychology and Conflict Management:** Understanding team psychology and effectively managing conflicts are crucial aspects of fostering a healthy and productive team dynamic. Here are some strategies I employ:
6. **Building Trust:** Trust is the foundation of any successful team. I prioritize building trust among team members by promoting open communication, respecting diverse perspectives, and honoring commitments. When team members trust each other, they are more likely to collaborate effectively and resolve conflicts constructively.
7. **Encouraging Diversity of Thought:** I value the diversity of experiences, backgrounds, and perspectives within the team. By actively seeking out and incorporating different viewpoints, we enrich our problem-solving processes and foster creativity and innovation. Additionally, creating an inclusive environment where everyone feels valued and respected contributes to overall team cohesion and morale.
8. **Addressing Conflicts Proactively:** Conflicts are inevitable in any team setting, but how they are managed can make all the difference. I encourage team members to address conflicts openly and respectfully, focusing on finding mutually beneficial solutions rather than assigning blame. By facilitating constructive discussions and mediating when necessary, we can resolve conflicts before they escalate and strengthen team relationships in the process.

## Argument

The implementation of the KwickMeal project has yielded tangible benefits by effectively addressing real-life challenges encountered by restaurant administrators. By providing robust tools for managing food and customer orders in real-time, KwickMeal empowers restaurant administrators to streamline their operations and enhance overall efficiency. With the ability to access and manage orders promptly, administrators can make informed decisions and adapt to changing circumstances swiftly, thereby improving the quality of service and customer satisfaction.

Figure 12: Admin Panel

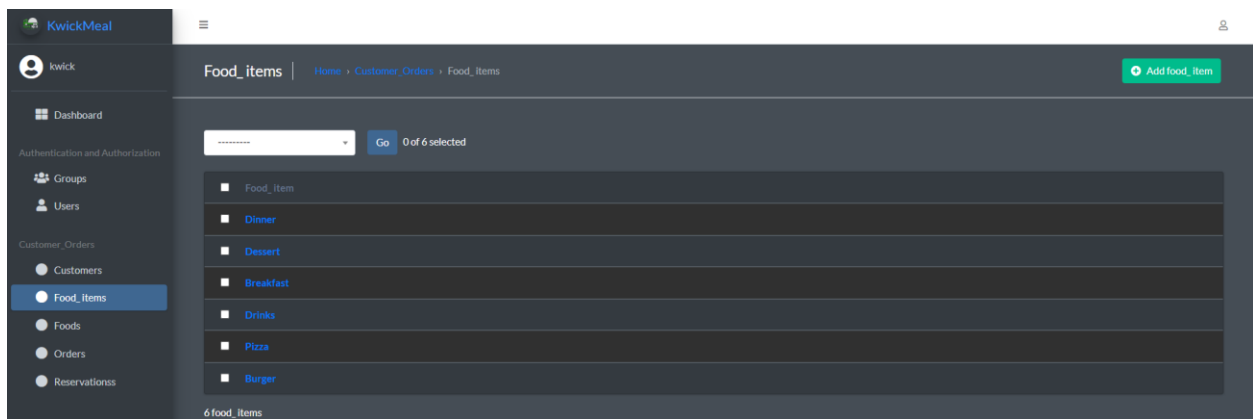
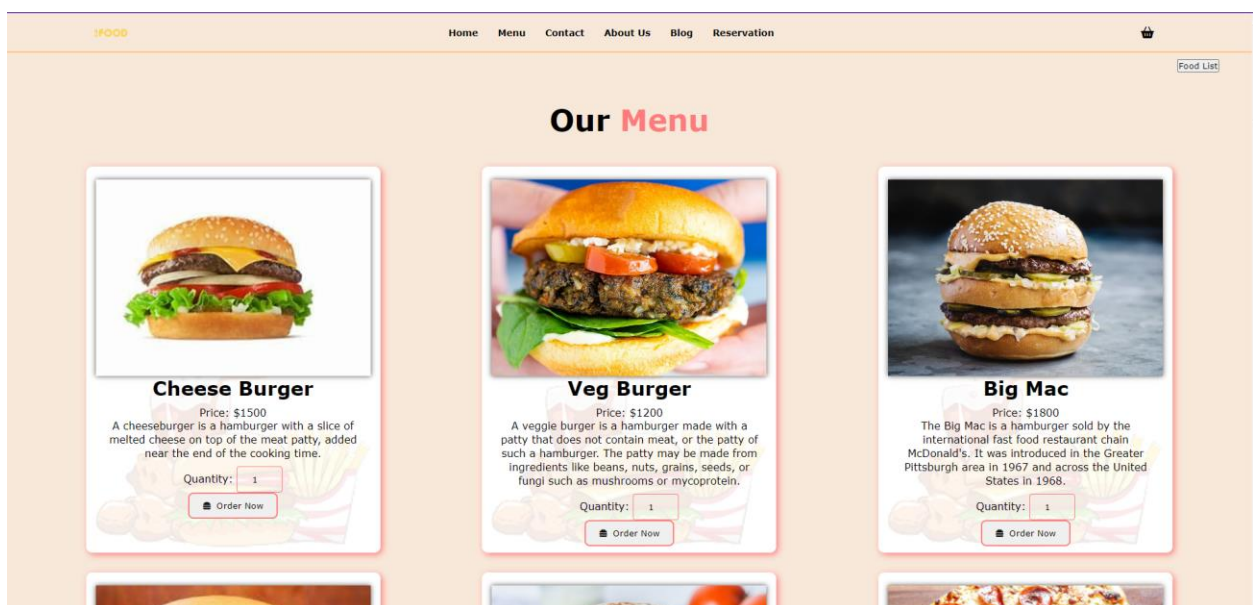


Figure 13: Menu Page



Moreover, KwickMeal facilitates secure online payment processing, mitigating concerns related to financial transactions and ensuring peace of mind for both restaurant owners and customers. By implementing stringent security measures, such as encryption protocols and secure payment gateways, KwickMeal safeguards sensitive financial information and instills trust in users, thereby fostering a conducive environment for conducting online transactions.

Figure 14: Add to Cart.

Food Name	Quantity	Price
Cheese Burger	- 1 +	1500
Big Mac	- 1 +	1800
Falafel Burger	- 1 +	1800
		Total: 5100

Figure 15: Khalti Payment Method.

Customer Name : Kirtan Shrestha

Food Name	Quantity	Price
Cheese Burger	- 1 +	1500
Big Mac	- 1 +	1800
Falafel Burger	- 1 +	1800
		Total: 5100

TEST MODE

Choose your payment method

KHALTI WALLET E-BANKING MOBILE BANKING CONNECT IPS SCT CARD

**Khalti**

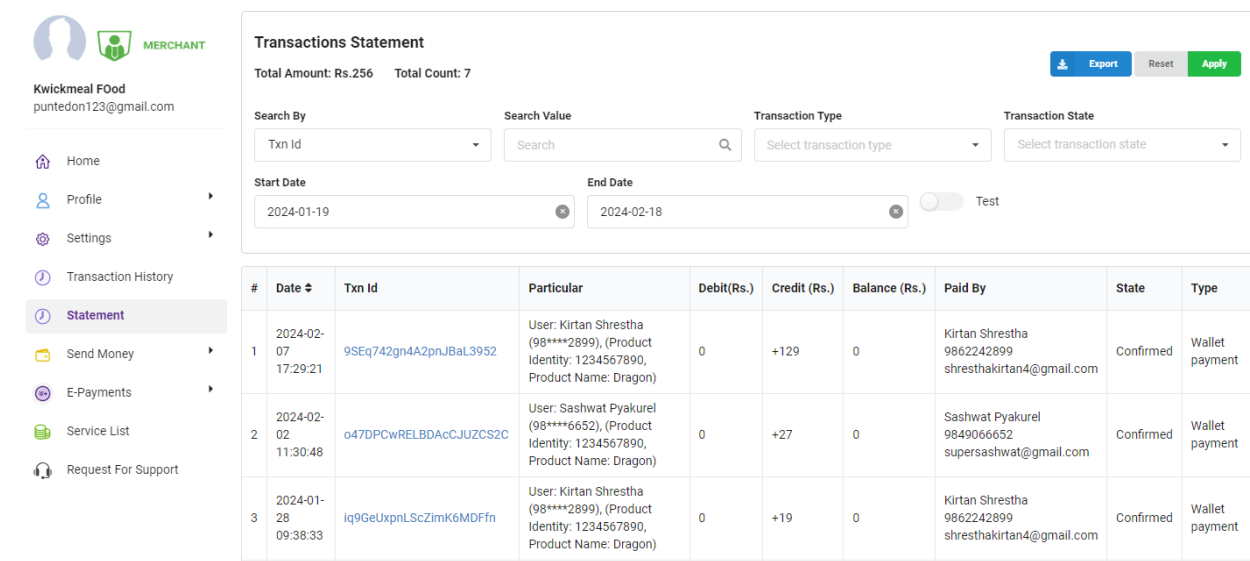
Khalti Mobile Number  
Enter khalti registered number

Khalti PIN  
Enter Khalti Pin

Pay Rs. 51/-

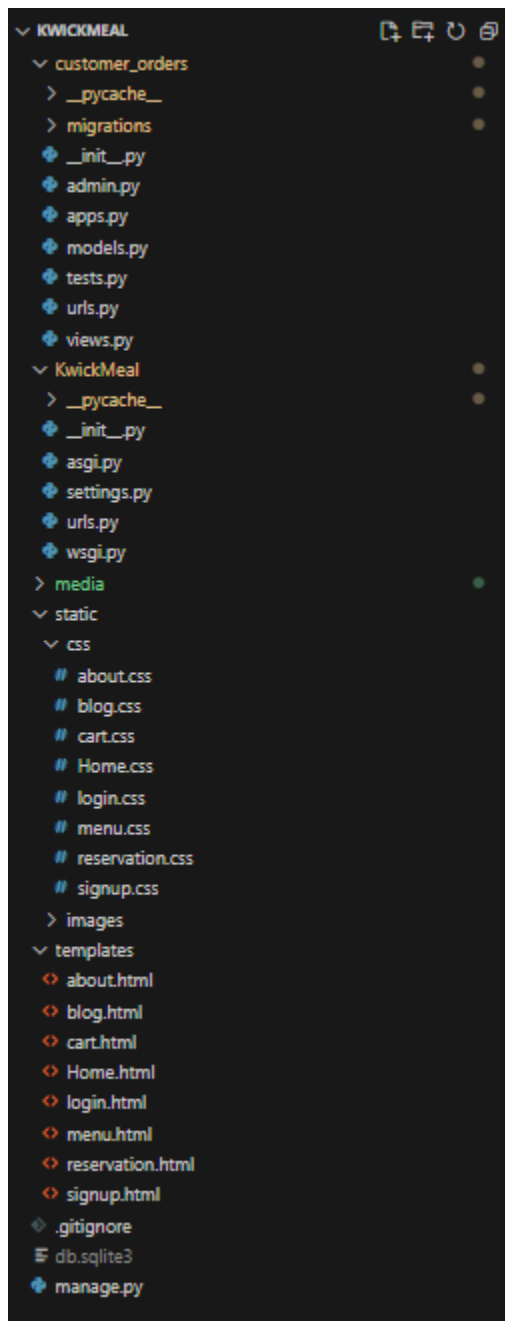
Forgot your Khalti PIN?  
SET KHALTI PIN

Figure 16: Transaction History



In the backend development of the KwickMeal project, my contributions were instrumental in facilitating key functionalities essential for seamless user experiences. I focused on implementing registration and login systems, ensuring secure access for both customers and administrators. Additionally, I played a vital role in designing and managing the admin panel, providing intuitive interfaces for administrators to add, modify, and track orders, reservations, and menu items efficiently. Furthermore, I integrated the 'Khalti' API for secure payment processing, enhancing the platform's reliability and trustworthiness. Overall, my backend development efforts significantly contributed to the project's success by enabling smooth registration and login processes, efficient order and reservation management, seamless menu updates, and secure payment transactions through the 'Khalti' API.

Figure 17:MVT pattern





## Conclusion

The KwickMeal project represents a significant advancement in the realm of restaurant management, offering a comprehensive solution to the challenges faced by both restaurant owners and customers. Through the integration of cutting-edge technology and innovative features, KwickMeal revolutionizes the dining experience, making it more efficient, convenient, and enjoyable for all parties involved.

By using the Django framework and adopting Agile methodologies, the development team has successfully created a robust and adaptable platform that meets the dynamic needs of the restaurant industry. The user-friendly interface simplifies registration, ordering, and reservation processes for customers, while the intuitive admin dashboard empowers restaurant administrators to efficiently manage operations in real-time.

Furthermore, the emphasis on security and data integrity ensures a safe and trustworthy environment for online transactions, enhancing user confidence and loyalty. The seamless integration of third-party APIs, such as 'Khalti' for payment processing, further enhances the platform's reliability and functionality.

As a backend developer, my role in the project was pivotal in implementing essential features, such as user authentication, database management, and payment integration, thereby contributing to the overall success and functionality of KwickMeal.

In conclusion, KwickMeal stands as a testament to the transformative power of technology in revolutionizing traditional industries. By providing a seamless and efficient platform for restaurant management, KwickMeal sets a new standard for excellence in the dining experience, ensuring customer satisfaction and operational efficiency. With its innovative features and commitment to quality, KwickMeal is poised to make a lasting impact in the restaurant industry for years to come.

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## Link

- Trello: <https://trello.com/b/zj8DMDRP/kwickmeal>
- Github: <https://github.com/sachi-tmg/KwickMeal>
- Excel: <https://1drv.ms/x/s!AltS6U8xNxEsgeU6VfjYvSaSzi8ccA?e=f6EnPF>
- Youtube Video: <https://youtu.be/yj85eVxVfqw>