ONLINE FOOD DELIVERY SYSTEM

Project

GROUP 01

- Presented By

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Abstract

Operational Efficiency + **Customer Experience** = **An Online Food Delivery System**

Project Aims

Types of User

Customer

- Account Management
- Search & Browse
- Order Placement
- Payment integration
- Order Tracking
- Feedback & Ratings

Restaurant Owner

- Profile Management
- Menu Management
- Order Management
- Inventory Management
- Promotion & Discounts
- Sales & Analytics
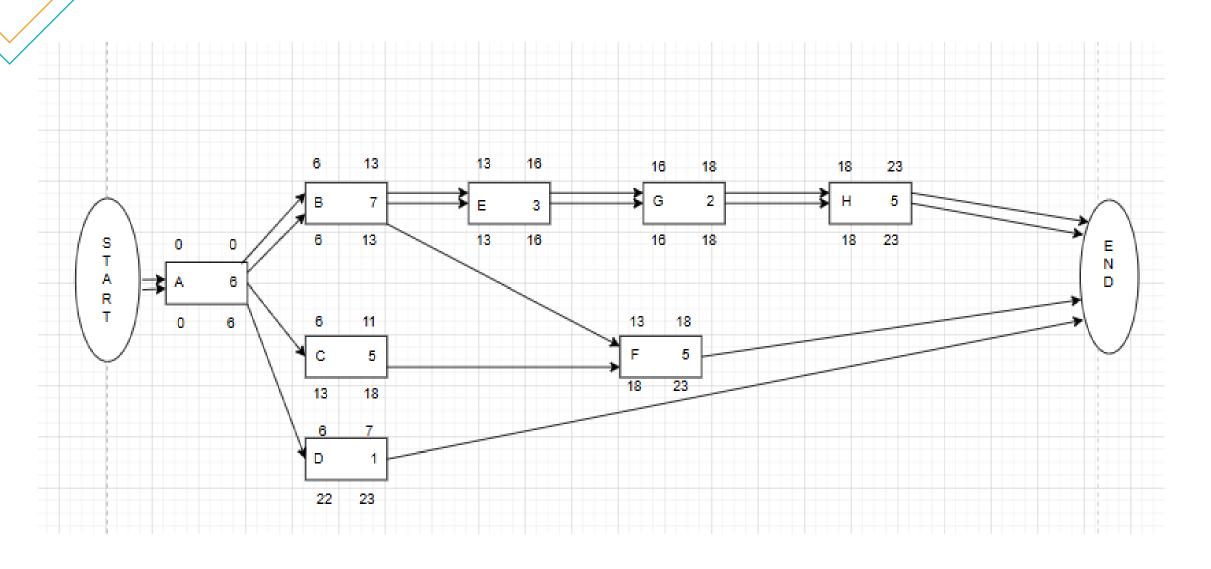
CPM Question Table

No.	Task	Predecessor	Duration
A	Homepage	...	6
B	Customer Dashboard	A	7
C	Restaurant Dashboard	A	5
D	Terms & Condition; Contact Us	A	1
E	Restaurant Menu	B	3
F	Order Status	B,C	5
G	Shopping Cart	E	2
H	Order Payment & Confirmation	G	1

Network Diagram

Total Float & Free Float

Total Float

No.	Subtraction	Result
A	0 – 0	0
B	6 – 6	0
C	13 – 6	7
D	22 – 6	16
E	13 – 13	0
F	18 -13	5
G	16 – 16	0
H	18 – 18	0

Critical Path : A>B>E>G>H

Free Float

No.	Subtraction	Result
A	6 – 6	0
B	13 – 13	0
C	13 – 11	2
E	16 – 16	0
G	18 – 18	0

Importance Of Critical Path

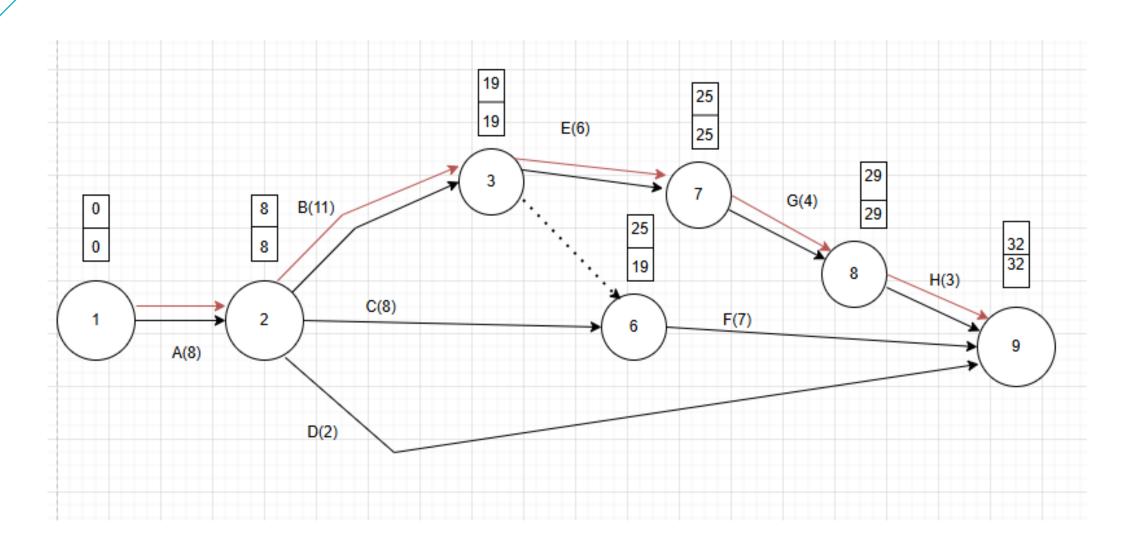Identifying the critical path ensures that the features such as
• Order Payment,
• Customer Dashboard and
• Order Status

are catered for to reduce any chance of delay and poor use of resources. It facilitates smoother early testing to ensure timely completion and smooth integration of the core functions, thus improving the overall project efficiency and readiness for launch.

PERT Question Table

Task	Dependency	Optimistic	Most Likely	Pessimistic	Expected time	Variance
A	None	6	8	10	8	0.11
B	A	7	10	15	11	1.78
C	A	5	8	10	8	0.69
D	A	1	1	2	2	0.02
E	B	3	5	9	6	1
F	B,C	5	7	9	7	0.44
G	E	2	4	6	4	0.44
H	G	1	3	4	3	0.25

PERT Diagram

Expected Project length = A+ B + E+ G+ H=8+11+6+4+3=32

Critical Path = 1-2-3-7-8-9

Project length variance = 0.11+1.78+1+0.44+o.25=3.58

Project length Standard variance = 1.892

The probability that the project will be completed in 35 days is given by P (Z<= D)

$$D = (T_s - T_e) / \sigma$$

= (35-32) / 1.892=1.6

P(Z<=1.6) =0.4452= 44.52%
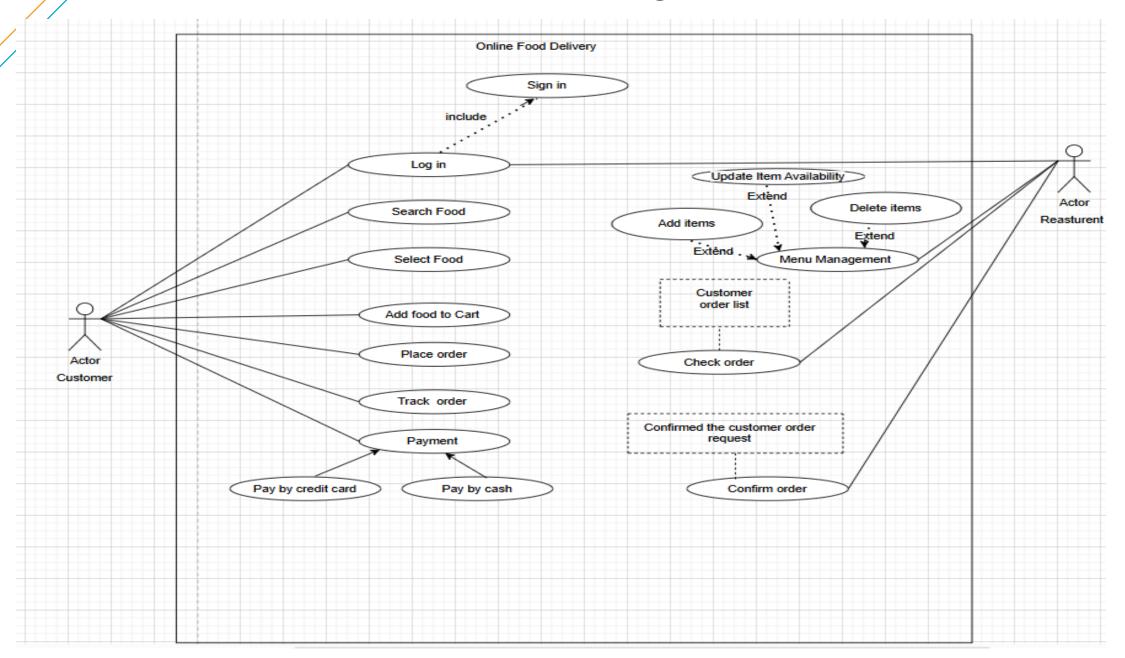
Importance Of PERT for our Project

The Program Evaluation and Review Technique (PERT) is highly helps in
1) Planning
2) Organizing and
3) Coordinating tasks effectively

In an online food delivery system project, PERT is essential for identifying the key path, streamlining work scheduling, and managing time estimate uncertainties. It helps with risk minimization, resource allocation, progress monitoring, teamwork, and timely delivery. It also improves communication with stakeholders for a successful project launch

Use Case Diagram

Online Food Delivery

- Sign in
- Log in
- Search Food
- Select Food
- Add food to Cart
- Place order
- Track order
- Payment
- Pay by credit card
- Pay by cash
- Update Item Availability
- Add items
- Delete items
- Menu Management
- Customer order list
- Check order
- Confirmed the customer order request
- Confirm order

include

Extènd

Extènd

Extend

Actor Customer

Actor Reasturent

Use Case Importance

Importance of the Use Case Diagram for Online Food Delivery Management System :

Visual Clarity: Depicts core processes, including ordering, payment, and delivery.
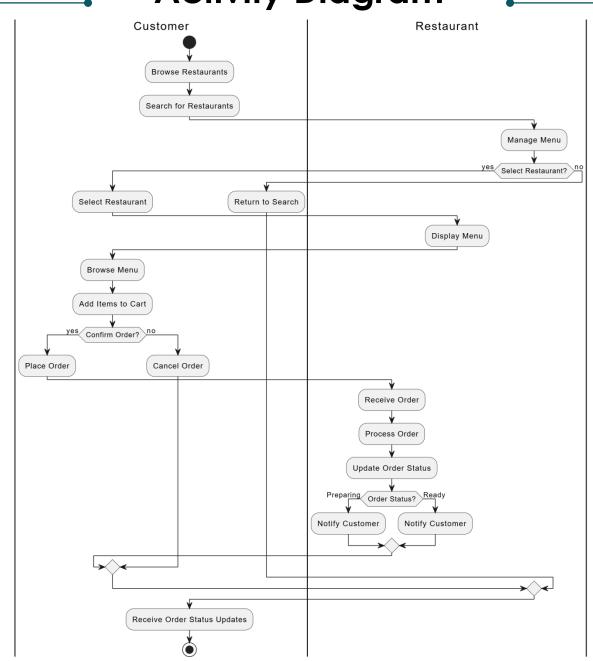
Stakeholder Communication: It helps developers, clients, and users understand the system.

Role Identification: Lists the responsibilities of a customer, delivery agent, restaurant, and admins.

Requirement Analysis: Simplifies the system requirements and their relationships.

Efficient Design: Helps in the development of a well-organized and user-centered system.

Activity Diagram

Customer

- Browse Restaurants
- Search for Restaurants
- Select Restaurant
- Return to Search
- Browse Menu
- Add Items to Cart
- Confirm Order? (yes / no)
- Place Order
- Cancel Order
- Receive Order Status Updates

Restaurant

- Manage Menu
- Select Restaurant? (yes / no)
- Display Menu
- Receive Order
- Process Order
- Update Order Status
- Order Status? (Preparing / Ready)
- Notify Customer
- Notify Customer
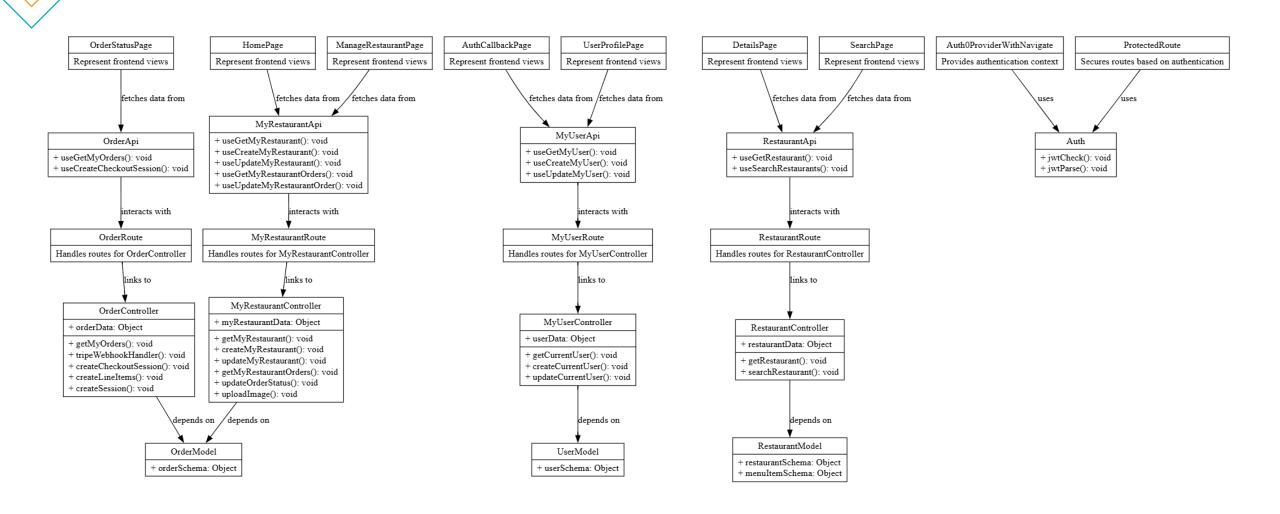
Importance Of Activity Diagram

1. Visual Workflow: Simplifies understanding of processes.

2. Defines Roles: Clarifies responsibilities of users.

3. Identifies Issues: Highlights inefficiencies and bottlenecks.

4. Improves Communication: Aligns team and stakeholders.

5. Guides Development: Acts as a blueprint for implementation.

6. Supports Scaling : Eases future enhancements.

7. Error Reduction: Identifies issues early to save costs.

Class Diagram

OrderStatusPage
Represent frontend views

HomePage
Represent frontend views

ManageRestaurantPage
Represent frontend views

AuthCallbackPage
Represent frontend views

UserProfilePage
Represent frontend views

DetailsPage
Represent frontend views

SearchPage
Represent frontend views

Auth0ProviderWithNavigate
Provides authentication context

ProtectedRoute
Secures routes based on authentication

fetches data from

OrderApi
+ useGetMyOrders(): void
+ useCreateCheckoutSession(): void

fetches data from / *fetches data from*

MyRestaurantApi
+ useGetMyRestaurant(): void
+ useCreateMyRestaurant(): void
+ useUpdateMyRestaurant(): void
+ useGetMyRestaurantOrders(): void
+ useUpdateMyRestaurantOrder(): void

fetches data from / *fetches data from*

MyUserApi
+ useGetMyUser(): void
+ useCreateMyUser(): void
+ useUpdateMyUser(): void

fetches data from / *fetches data from*

RestaurantApi
+ useGetRestaurant(): void
+ useSearchRestaurants(): void

uses / *uses*

Auth
+ jwtCheck(): void
+ jwtParse(): void

interacts with

OrderRoute
Handles routes for OrderController

interacts with

MyRestaurantRoute
Handles routes for MyRestaurantController

interacts with

MyUserRoute
Handles routes for MyUserController

interacts with

RestaurantRoute
Handles routes for RestaurantController

links to

OrderController
+ orderData: Object
+ getMyOrders(): void
+ tripeWebhookHandler(): void
+ createCheckoutSession(): void
+ createLineItems(): void
+ createSession(): void

links to

MyRestaurantController
+ myRestaurantData: Object
+ getMyRestaurant(): void
+ createMyRestaurant(): void
+ updateMyRestaurant(): void
+ getMyRestaurantOrders(): void
+ updateOrderStatus(): void
+ uploadImage(): void

links to

MyUserController
+ userData: Object
+ getCurrentUser(): void
+ createCurrentUser(): void
+ updateCurrentUser(): void

links to

RestaurantController
+ restaurantData: Object
+ getRestaurant(): void
+ searchRestaurant(): void

depends on / *depends on*

OrderModel
+ orderSchema: Object

depends on

UserModel
+ userSchema: Object

depends on

RestaurantModel
+ restaurantSchema: Object
+ menuItemSchema: Object

Conclusion

The Online Food Delivery System enhances convenience, efficiency, and accessibility for users by streamlining the process of ordering and delivering food. This system benefits customers through an easy-to-use interface, restaurants by expanding their reach, and administrators by simplifying order management.

Every Bite Matters with FoodieBite

Your favorite meals delivered fresh and fast! Explore a world of flavors with just a click.

Search by City or Town **Search**

Restaurant Offers

50% Off on All Orders

Get 50% off your next order. Use code: FOODIE50

Buy 1 Get 1 Free
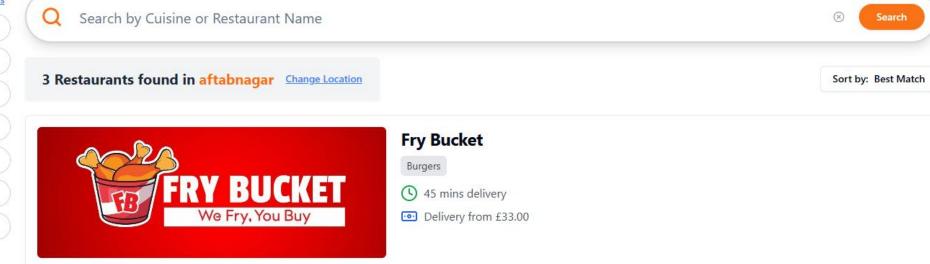
Enjoy a free meal with every order. Limited time only!

Free Delivery for First-Time Users

New to FoodieBite? Get free delivery on your first order.

FoodieBite.com

Filter By Cuisine   Reset Filters

- Kacchi
- Biriyani
- Tehari
- Polao
- Khichuri
- Fried Rice
- American

View More ⌄

Search by Cuisine or Restaurant Name

Search

3 Restaurants found in aftabnagar   Change Location

Sort by: Best Match

Fry Bucket

Burgers

🕐 45 mins delivery

💵 Delivery from £33.00

Tasty Treat

Desserts

🕐 45 mins delivery

💵 Delivery from £33.00

Ka Te Kacchi

Biriyani   Kacchi

🕐 45 mins delivery

💵 Delivery from £33.00

Ka Te Kacchi

Aftabnagar , Bangladesh

Biriyani • Kacchi

Menu
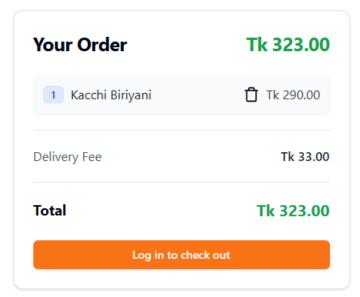
Kacchi Biriyani

Tk 290.00

Beef Tehari

Tk 190.00

Chicken Biriyani

Tk 210.00

cocacola x1

Tk 60.00

Your Order

Tk 323.00

1	Kacchi Biriyani	🗑 Tk 290.00

Delivery Fee   Tk 33.00

Total   **Tk 323.00**

Log in to check out

Welcome

Log in to dev-1i70741xszai8df8 to continue to
mern-food-ordering-app-frontend.

Email address*

Password*

Forgot password?

Continue

Don't have an account? **Sign up**

OR

Continue with Google

Ka Te Kacchi

Aftabnagar , Bangladesh

Biriyani • Kacchi

Menu

Kacchi Biriyani

Tk 290.00

Beef Tehari

Tk 190.00

Chicken Biriyani
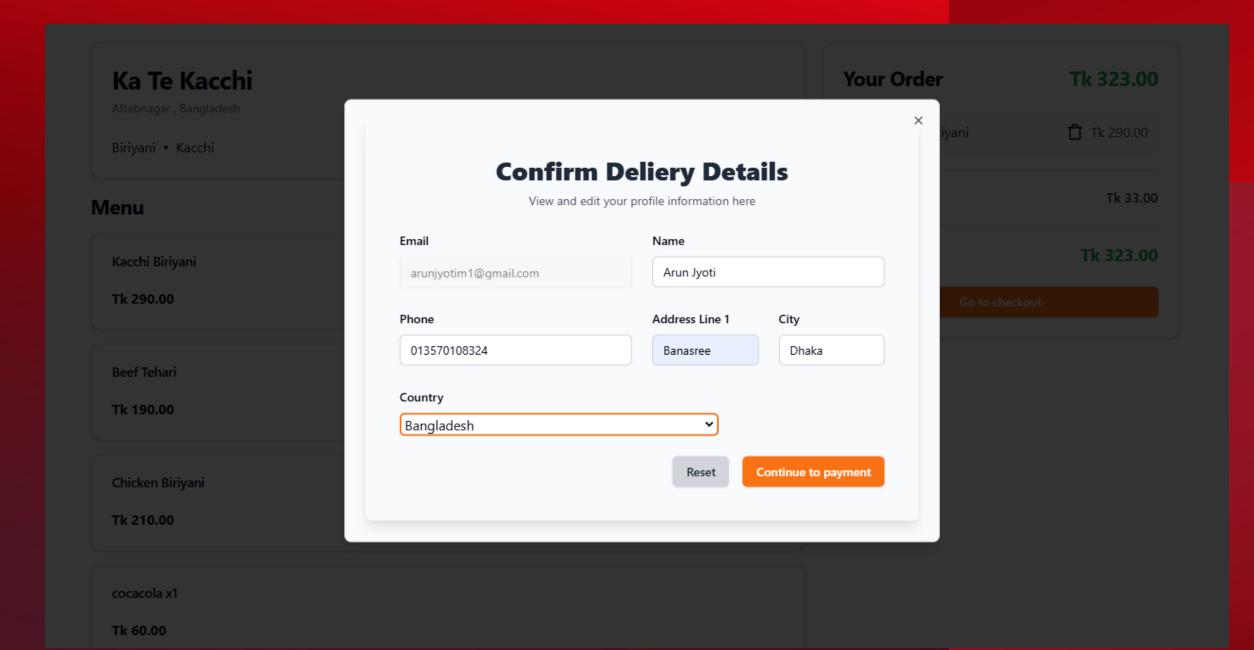
Tk 210.00

cocacola x1

Tk 60.00

Your Order

Tk 323.00

iyani

Tk 290.00

Tk 33.00

Tk 323.00

Go to checkout

Confirm Deliery Details

View and edit your profile information here

Email

arunjyotim1@gmail.com

Name

Arun Jyoti

Phone

013570108324

Address Line 1

Banasree

City
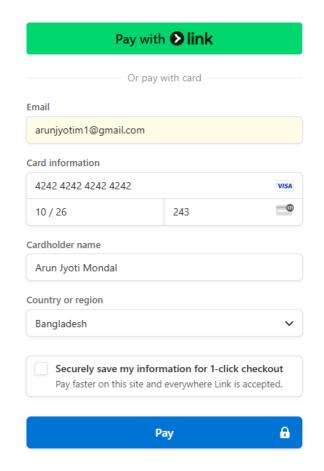
Dhaka

Country

Bangladesh

Reset

Continue to payment

Pay

£323.00

Kacchi Biriyani	£290.00
Subtotal	**£290.00**
Shipping Delivery	£33.00
Total due	**£323.00**

Pay with ▶ link

Or pay with card

Email

arunjyotim1@gmail.com

Card information

4242 4242 4242 4242	VISA
10 / 26	243

Cardholder name

Arun Jyoti Mondal

Country or region

Bangladesh

☐ **Securely save my information for 1-click checkout**
Pay faster on this site and everywhere Link is accepted.

Pay 🔒

Order Status: Placed

Expected by: 12:16 AM

Estimated Time Left:

Delivered

Delivering to:
Arun Jyoti
Banasree, Dhaka

Your Order
Chicken Burger x 1

Chicken Smoky BBQ Cheese x 1

Double Decker Chicken x 1

Total
Tk 735.00

✓ Confirmed   ⦿ In Transit   📦 Delivered

chillox

Orders | Manage Restaurant

2 active orders

Customer Name: Sifat   **Delivery Address:** Aftabnagar, Dhaka   **Time:** 23:33   **Total Cost:** Tk 210.00

| 1 | Chicken Burger |

Order Status:

| Out for Delivery | ⌄ |

Customer Name: Arun Jyoti   **Delivery Address:** Banasree, Dhaka   **Time:** 23:51   **Total Cost:** Tk 735.00

1	Chicken Burger
1	Chicken Smoky BBQ Cheese
1	Double Decker Chicken

Order Status:

| Placed | ⌄ |

🕐 Order Status: In Progress

Expected by: 12:16 AM

Estimated Time Left:

Delivered

Delivering to:

Arun Jyoti
Banasree, Dhaka

Your Order

Chicken Burger x 1

Chicken Smoky BBQ Cheese x 1

Double Decker Chicken x 1

Total

Tk 735.00
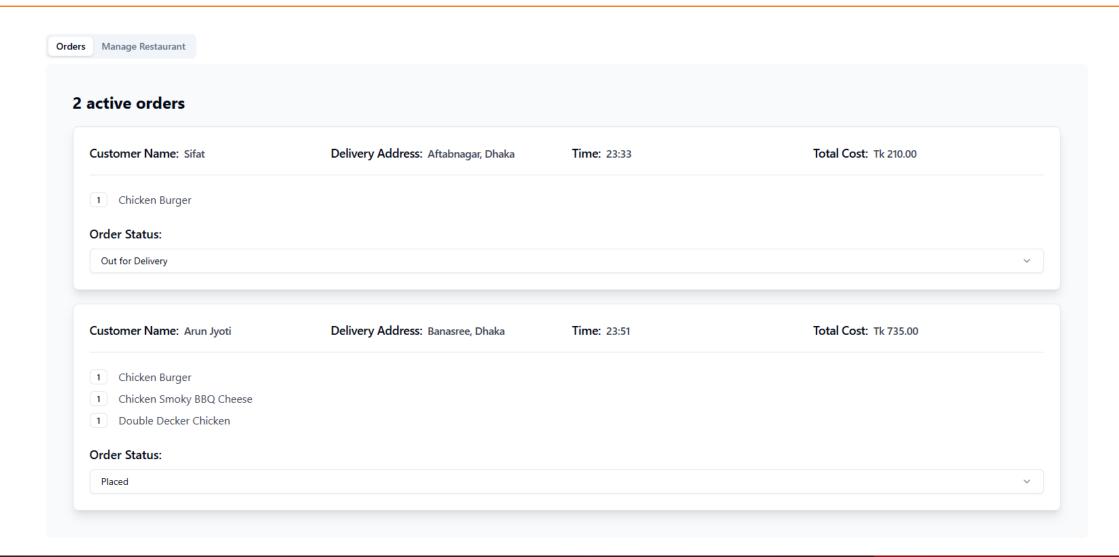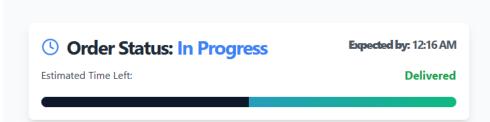
⊘ Confirmed   📍 In Transit   ◉ Delivered

---

2 active orders

Customer Name: Sifat   **Delivery Address:** Aftabnagar, Dhaka   **Time:** 23:33   **Total Cost:** Tk 210.00

| 1 | Chicken Burger |

Order Status:

| Out for Delivery ⌄ |

Customer Name: Arun Jyoti   **Delivery Address:** Banasree, Dhaka   **Time:** 23:51   **Total Cost:** Tk 735.00

1	Chicken Burger
1	Chicken Smoky BBQ Cheese
1	Double Decker Chicken

Order Status:

| In Progress ⌄ |

⊘ **Order Status: Delivered**

Expected by: 12:16 AM

Estimated Time Left:

Delivered

Delivering to:
Arun Jyoti
Banasree, Dhaka

Your Order
Chicken Burger x 1

Chicken Smoky BBQ Cheese x 1

Double Decker Chicken x 1

Total
Tk 735.00

⊘ Confirmed   ⊙ In Transit   ⬡ Delivered

chillox

Thank You