

# Indo Panggang Ordering



## Objective

To reduce overcrowding and implement an efficient ordering system for the Indonesian Panggang stall at the Technoedge canteen.

## Motivation

We decided to do this project as we felt that during lunch time, there was overcrowding at the Indonesian stall and it took students and staff a long while before they could consume their food. We came up with a system that would eliminate the queuing and enable the students to place their order conveniently from where they are seated. In this way, the students can avoid the frustration of having to queue standing up after a tiring day at school. We also came up with an innovative method to inform the students when their food is ready for collection. This would allow the students to sit and relax while their food is being prepared.

## How the system works

First, the customer places his order by keying in his desired dish and/or add-ons at the ordering panel on the table. His desired selection will be displayed on the panel. After making his selection, he will be prompted to make payment or cancel his order. If he chooses to make payment, he will be prompted to scan his EZ-link card which is simulated by a RFID reader to go through with the payment. Once payment is successful, the customer will be given a queue number. The chef prepares the dish by checking the chef's display. Once the chef has prepared the dish, he places it into any one of the available food boxes. After which, the food box door will be locked and the customer will be alerted that his food is ready for collection via a buzzer at his table. The customer can also refer to the general display on the wall to see the current queue number being served. The customer on hearing the buzzer will collect his food at the food box by tapping his EZ-link at the food box. This unlocks the food box and the customer can claim his food. This system is scalable for bulk orders.