



**FACULTY OF APPLIED SCIENCES**

**TECHNOLOGY ENTREPRENEURSHIP (ENT600)**

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# HaloBin

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## 1. EXECUTIVE SUMMARY

We are from Halo Sdn Bhd, proudly present our latest smart dustbin, HaloBin. HaloBin uses commercial waste dehydrator to evaporate moisture in wastes in order to eliminate bacteria growth that causes odour. Other than that, our product comes together with wastes compactor that will reduce the volume of wastes to provide extra space in one bag. This smart dustbin also has built in motion sensor that opens the lid when movement is detected.

We target for buyers from middle class to upper class for our product. Our product requires users that pays attention to modern technologies and aesthetics as this dustbin is made with elegant structure. This product is going to attract high class individuals.

We are confident that this product is able to expand its market amongst our target customers. The profit gained within 3 years of production is going to be feasible for the stability of this company. This is due to the technology that we provide in this product. Our target customers will be eager to get this product to complete the look of their space.

## 2. PRODUCT OR SERVICE DESCRIPTION

### 2.1 PRODUCT DESCRIPTION

HaloBin is a smart dustbin with built in features that aims to make life easier for household use by solving common problems that occur while handling domestic wastes. The dustbin has separate section for wet and dry wastes so that the water content in wet wastes can be dried first before they were stored together. Equipped with other unique features, this dustbin is perfect for users that are looking for more convenient way of life with modern technology.

### 2.2 APPLICATION OF PRODUCT

#### 2.2.1 PRIMARY USE

HaloBin has special space for wet waste. Water content in wet waste is the main factor that leads to bacterial growth, which then causes bad smell to come out from the dustbin in short time. This section will dehydrate the waste by sucking up its water content. Once the waste has dried up, it will be placed into the same section as the dry waste. This will help reduce the possibility of rotting food and rapid bacterial growth. This will also ensure that there is no water leaking from the trash bag.

#### 2.2.2 SECONDARY USE

In the effort to go green for better environment, this dustbin will help to reduce the usage of plastic bag. This is done by the compactor in the dustbin that will compress the waste so that it can fit in more rubbish in one bag. Other than reducing the usage of plastic, this will also help in saving time for taking out the trash.

### 2.3 UNIQUE FEATURES

This dustbin is built with motion sensor that will allow it to open up as soon as it detects the presence of a user. This is more hygienic as users do not have to use their own hands to open the lid to dispose their wastes. The lid motion works silently so there will be no worries for noise disruption. This dustbin is made with stainless steel to ensure that it is long lasting. This dustbin is smaller compared to common dustbin, allowing more space to be saved.

## 2.4 FUNCTIONAL SPECIFICATION OF PRODUCT

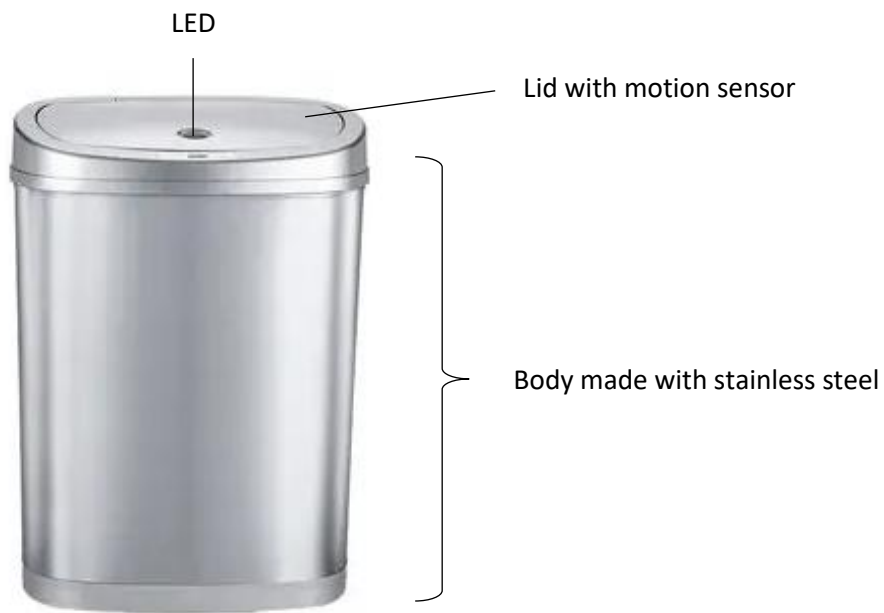


Figure 1 Outer look of product



Figure 2 Separated section inside of product

Table 1 Cost required to develop

Material	Cost (RM)
Stainless steel plate	180
Compactor device	200
Commercial dehydrator	150
Motion sensor	25