

**ENT600****TECHNOLOGY BLUEPRINT****4GR JOINING HANDS (HUNGER'S HEROES MACHINE)**

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**Group Name** : CS2496B

**Group Members** :

1. NURUL NADHIRAH BINTI MOHD ROSLI (2017133255)
2. NUR AIN SYUHADA BINTI ZAINI (2017323081)
3. NUR FATIEHAH BINTI KAMARUL ZAMAN (2017317679)
4. NUR ALIYAH BINTI MAT ROSLY (2017774975)

**Submitted to**

PUAN ZANARIAH ZAINAL ABIDIN

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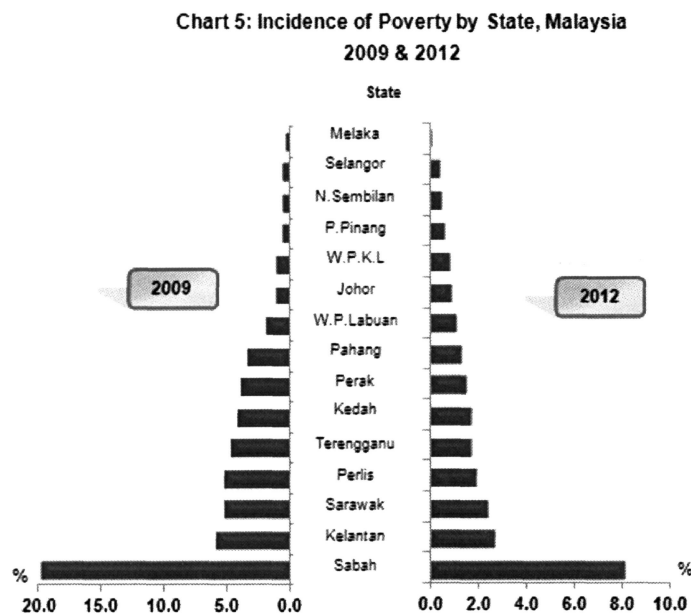
## CHAPTER 1

### 1.0 PRODUCT DESCRIPTION

#### 1.1 Introduction

The product to be developed is a Hunger's Heroes Machine. It is common knowledge that Malaysia is one of the countries that have a high rate of poverty, especially in rural areas. Based on the article 'Poverty rate of rural and urban areas in Malaysia from 2007 to 2016', the statistics had shown that most of the poverty rate was in rural areas and the maximum rate at 8.4% in 2009, (Hirschmann, 2019). According to the info from the Department of Statistics Malaysia, Sabah recorded as the maximum of the incidence of poverty in 2009 and 2012. The poverty is living in an extreme condition where they had ever cut the size of meals or skip because there is no money to buy the food.

To reduce the burden of poverty, the team is developing Hunger's Heroes Machine which comes from the vending machine as a first idea before developing it with new features. The vending machine has been remodelled to staple food such as rice, flour and cooking oil to those in need. This may reduce their difficulties to get enough food daily and able to stay alive with good health.



Source: Department of Statistics Malaysia (2019)

Figure 1: The Incidence of Poverty by State in Malaysia 2009 & 2012

## 1.2 Purpose of development

The purposes of product development are:

- To provide an effective system for food distribution process in Malaysia
- To help a charitable organization in handling staple food distribution for the target groups
- To help people who come from a low-income family to reduce their household burden by supplying free staple food for them

## 1.3 Product Concept

- For people who do not know the channel to donate the food
- For a needed person who suffers from food security

## 1.4 Application

### 1.4.1 Functions

- Advertisement board – For revenue collection
- Vending machine – The place to store food
- Registration room – Donor and receiver can register using apps that available in Playstore or they can register here
- Repackaging room – Place for packaging the staple food into small packet
- CCTV – For security

## 1.5 Unique features

The uniqueness of the product for availability in Malaysia market consists of:

- Solar energy for electricity supply
- Thumbprint technology for identity recognition
- Smart recipe printer for tips on business and simple recipes
- Registration using an application

### 1.5.1 Picture description

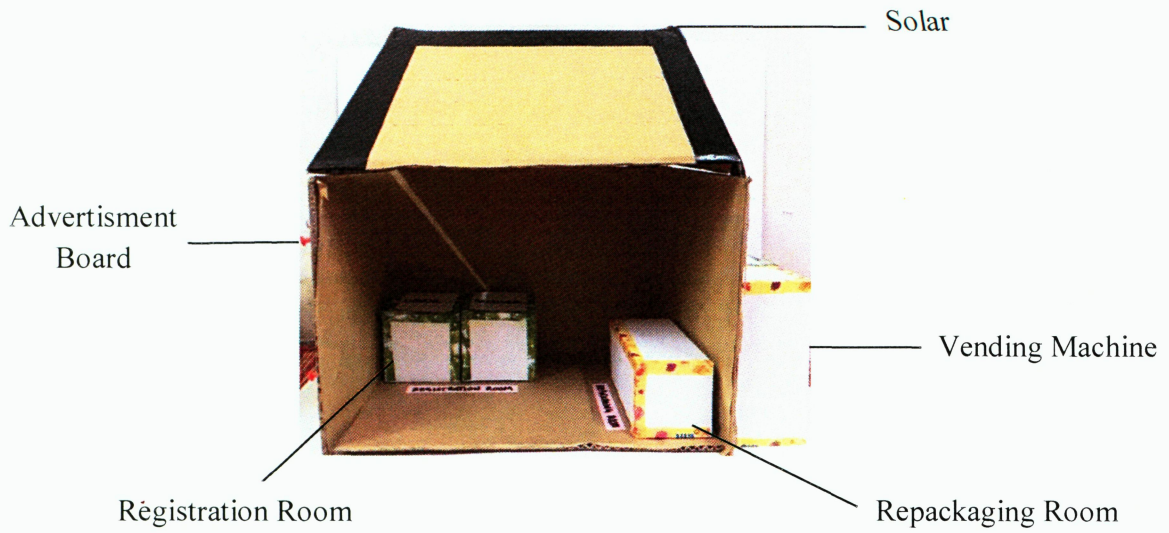


Figure 2: Picture Description