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ENT 600 – TECHNOLOGY ENTREPRENURSHIP

ASSIGNMENT	TECHNOLOGY BLUEPRINT (THE SMART LUGGAGE)
GROUP	AP224 5D
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MARKS	

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1.0 EXECUTIVE SUMMARY

The idea is to develop a luggage bag that has a built in digital weighing scale, alarm tracking system, charging device and internal vacuum sealer. The main feature for the luggage bag is built in self-weighing system and some unique features which are vacuum sealer inside the luggage, smart lock system, alarm tracking system, and charger.

The users are able to save time from queuing up long to identify the luggage weight at the airport. Besides that, the users could keep themselves from being anxious or panic whenever the weight of the bag exceeds the limit before departs. It also beneficial to make it convenient for flight passengers to aware of their luggage bags weight. The users also can gain benefits by using this luggage bag such as the vacuum sealer that can maximize the space in the luggage bag, smart lock system that provides security to the bag, alarm tracking system which notifies the owner if the bag is away in certain distance and charging device that provides power to the user's devices in the case of emergency.

The team is targeting around 2000 people who will probably buy our Smart Luggage Bag a year which age about 15 years old until 64 years old. The estimated cost per unit is ranging around the RM130-190 depends on the size of the luggage bag. The selling price is RM320 and that is very considerably affordable. Last not but not least, the luggage bag will be distributed and sold at some airports and shopping complexes all over Malaysia.

LUGGAGE

2.0 PRODUCT DESCRIPTION

2.1 Background Study

Most people usually find it difficult to determine the weight of their luggage bag and they tend to miscalculate the total weight of the luggage bags. For instance, the allowable weight for Air Asia Airline is 20 kg (for luggage bag) and the hand luggage is about 15 kg. Bag users also worry for the safety of their bag while in the middle of traveling. Plus it is a common knowledge that the travelers often need to charge their electrical devices. Lastly, the users find it difficult to maximize their luggage's space to put more stuff.

2.2 Introduction

The idea is to develop a luggage bag that has a built in digital weighing scale, alarm tracking system, charging device and internal vacuum sealer.

2.3 Purpose of Development

- To save time from queuing up long to measure the luggage weight at the airport.
- To avoid being anxious and panic whenever the weight exceeds the limit before depart.

2.4 Product Concept

- To make it convenient for flight passengers to aware of their luggage bags weight.

2.5 Main Features

- Built in self-weighing system
 - The weight scale is built in together inside the bag and it makes it easier for the flight passengers to know the weight of the luggage bags anytime they want to.

2.6 Unique Features

- Vacuum sealer that can maximize the space in the luggage.
- Smart Lock System that provides security to the bag.
- Alarm tracking system which notifies the owner if the bag is away from certain distance.
- Charging Devices that provides power to the user's devices in the case of emergency.

3.0 TECHNOLOGY DESCRIPTION

3.1 Overview of Product Prototype

A	Luggage Bag	a1	Compartment
		a2	Zipper
		a3	Handle
		a4	Side Handle
		a5	Wheels
B	Features		
	B1) Touch Screen Monitor	B1a	Weight section
		B1b	Lock section
		B1c	Charging Devices section
		B1d	Clock section
	B2) Load cells (Weighing Scale)		
	B3) USB Charging Ports		
	B4) Alarm Tracking Device	B4a	GPS locating chip
		B4b	Alarm Speaker