Chapter 46

Yogage

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ABSTRACT

Travelling is becoming worldwide and people faced problem such as limited space. Our product provides multi-function from the quality attributes up to trendy technology that will be used. Our product is known as “Yogage luggage” due to several problem faced by travellers such as limited space, lack of time, lack of security of the luggage, not waterproof, and disability function. First of all, Our “Yogage luggage” can be transformed become a rack which can save their time from transferring their clothes from luggage to other rack. Next, our special function of our product is the installation of system called a sensor travel alarm that is connected to the owner’s device which could prevent their luggage from being stolen. As example of a situation, when users enter a restroom, they could feel more ease to keep their luggage outside. Furthermore, “Yogage luggage” also comes with a system sensor for travellers stuff whereby solve the problem from bringing prohibited things in the luggage. Besides that, the attributes for our products is made from water-proof material and environmental friendly. Overall, our lovely “Yogage luggage” is very suitable for everyone and it is affordable for users and also it is suitable to bring to wherever they wish.

Key Words: Luggage, Travel, Safety

1. INTRODUCTION

Nowadays, travel has constantly become significant in part of human life. One of the essential things when travel is luggage. Luggage consists of bags, cases, and containers which hold a traveller’s articles while the traveller is in transit. Wherever people may go,
luggage will always be that one thing that especially made to provide convenience and comfort for the traveller. People who regularly travel faced several problems such as limited space and safety of their belongings. Considering that, we establish a new product known as “Yogage”.

Yogage is a multifunctional luggage that can be transformed into a rack that can save people time from transferring their belongings from luggage to other places. The rack also can prevent dirt and bed bugs. This is because common places bed bugs to hide are at carpets and mattresses. Moreover, “Yogage” also equipped with a system called a sensor travel alarm that able linked to the owner’s device. The purpose of the sensor travel alarm is to prevent someone’s luggage from being stolen.

According to last year’s statistics, the general average of theft for 2018 was 105 robberies per 100,000 people. The highest value was in Costa Rica which is 1587 robberies per 100,000 people. Due to the high number of theft case, travellers must possess luggage furnished with sensor travel alarm. Furthermore, “Yogage” was made from water-proof materials for its cover to be able to deal with sudden showers, wet floors, and leaky roofs. Hence, we are recommending people to use “Yogage” which is very convenient for everybody and affordable for people who want to go wherever they want.

2. LITERATURE REVIEW

As tourism industry increase, the growth in the demand for luggage also increases. The Global Luggage market is projected to grow at a CAGR of 7.3% during the forecast period from 2019 to 2024 while over the past few years, global travel and tourism industry keep increasing and reaching 1341 million arrivals in 2017 (Mordorintelligence, 2019). Commonly, travellers carrying prohibited items that may cause delays in checked area also sometimes lead to dines and even arrest. Transportation Security Administration (TSA) in Airlines stated in their action plan program to increase partnership with industry stakeholders, mitigate vulnerabilities, obtain compliance, and sustain the highest levels of security through shared outcomes as their current goals (TSA plan program action, 2019).

Besides that, in the current market only produced luggage comes with weight measurement. Indeed many travellers must to pay fined due to the overweight. Therefore, luggage with a sensor system in helping traveller check whiles them packing their stuff. Traveller could set any country to travel and that system change follow the airlines in a country regulation what could bring and what could not. The airlines industry claims the number of luggage that went missing getting better from last time due to the improved tracking technology known as RFID tags (Radio Frequency Identification). The total number of “mishandled” bags has fallen from 46.9 million in 2007 to 24.8 million in 2018. Each bag can be scanned automatically by machines through airport system.

Therefore, wandering bags can be spotted more easily via a central monitoring system. This functions known as general as location tracker. Most of the Airlines in America and United State offer this service (Baraniuk, 2019). With RFID only secured the
luggage in airport and airlines but not outside where more possibility to be stolen. Thus, we create luggage with alone mode known as “Anti-Theft Alarm”. This could help traveller can left the luggage for a while when needed and the alarm ringing if other touch it with change the mode.

3. METHODOLOGY

3.1 Quantitative Research

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<tr>
<th>No.</th>
<th>Questions</th>
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<td>1.</td>
<td>How often do you travel to another country?</td>
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<td>2.</td>
<td>How do you prefer to travel to another country?</td>
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<td>3.</td>
<td>What is the best luggage for travelling?</td>
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<td>4.</td>
<td>What the best characteristic that makes you to buy a luggage set?</td>
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<td>5.</td>
<td>What is the problem while managing your luggage?</td>
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Questionnaires above shows that people requirements and problems on choosing the best luggage for travelling. These questionnaires were made according to what problems and struggles that are faced by people nowadays. These few questions can help us to provide luggage that can fulfil people’s requirements and demands on characteristics of this innovation luggage that can be called as a multi- function luggage.

3.2 Qualitative Research

Secondary research or desk research is a research method that involves using already existing data. Existing data is summarized and collected to increase the overall effectiveness of research. Secondary research includes research material published in research reports and similar documents. These documents can be made available by public libraries, websites or data obtained from already filled in survey.

Based on secondary research on website, we found out that there are a lot of problems that cause their current luggage not in a good condition. These poll on factors
influence us to purchase new luggage shows that people need a good and beneficial luggage to give them a comfortable use.

3.3 Application Development
During a journey through train and bus, user may carry many important things and all the time user are fear that someone might lift his/her luggage. In order to protect the luggage, user normally locks the luggage through old ways by the help of chain and lock. After all locks, user still remains in fear that someone may slash the chain and take away his/her valuable belongings.

To introduce a new innovation of application on this luggage, ‘Yogage’ luggage is attached with alarm system that can detect the whereabouts of their owner without the owner need to stick with the luggage all the time which is called as a sensor travel alarm that connected to the owner’s devices like watch or their phone. In this alarm, when someone tries to lift your luggage, it will generate a warning alarm which is very much helpful during your travel in the bus or train even at the night time as it can also produces audio visual indication attached to the relay. For this situation like the owner need to go the restroom and nobody can help them to look after their luggage, the owner can just activate the alarm just in case their luggage is stolen by a stranger.

Figure above shows example of sensor travel alarm that can be connected with mobile devices. The luggage also has a spacious rack that can help us to save time while packing and unpacking. This ‘Yogage’ luggage provide a luggage that comes with a rack that can help us to be more organized while packing our stuffs such as there is a one rack for pants, one rack for shirts and other racks for others things like our laptop and necessary things. The rack is made from stainless steel that can endure the load from the things that have been packing in the luggage. With this brilliant idea, people that buy this ‘Yogage’ luggage will found out that this luggage is very beneficial and affordable.

Figure above shows a rack that can be attached with the luggage.
4. RESULT AND DISCUSSION

Based on the survey above, about 37.5% of the respondent spending their time travelling more than twice a month. Most of them were travelling for business purpose and spending their holiday time. Besides, the highest preferable transport to travel is an aeroplane. The aeroplane gives the fastest way to get to another place when long distances involved. The passenger also can entertain themselves by listening to music, watching free movies and even enjoying the spectacular view through the windows.

About 56.6% of respondent choose a hard case for their luggage. This includes the durability, manoeuvrability and security of the luggage. This is important which can secure our belonging while travelling to a new place. Furthermore, the problem faced by the respondents in managing their luggage is mostly related to space, high possibilities of theft, lack of time to unpack the clothes and hard to carry the luggage especially for disable people.
5. CONCLUSION AND RECOMMENDATION

The purpose of this project was to design a smart luggage for a traveller either for people who wants to travel or for business purpose. Along the trendy technology and business today, many problems faced by people who travel alone. One of their problems is about their luggage and their things that they want to pack in the luggage. Many changes and innovation have been made to improve the productivity of the traveller but sometimes they cannot make it easier like what actually consumer needs for their luggage.

With this Yogage luggage innovation, it is hope that single travellers, short trip travellers, old or disable travellers may enjoy their trip with ease of mind in handling their luggage.

REFERENCES