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**BLUEPRINT REPORT  
FLASH TROLLEY**

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## **1.0 EXECUTIVE SUMMARY**

Our team expects to catch the interest of code system as identity for trolley user at particular time. The facility that we attached for our product entirely self-service with short manual printed. Due to lack of function at a trolley manufactured in Malaysia, currently, we expect mild competition and are confident we will be able to build strong market position.

We offer hypermarket trolley that are safe for people use during this pandemic while shopping changing from old trolley which only function in carry the item to the counter. Our product such give all functions needed while shopping into one with great technology to make the user more exciting as well as the customers who buy this product for their hypermarket. We will create safe environment in hypermarket even during weekend or celebration day, thus give low risk to meet many people in a time. We will focus on creating customer satisfaction toward our Flash Trolley design and features added that others trolley does not have in which someone feels comfortable shopping with family and kids.

Management Team which is one of the most important things or plans when starting a business to ensure that the business operates efficiently. The abilities and organizational skills of the management team members determine a company's performance. There are four key management roles in the company which are Chief Executive Officer, Administrative Manager, Financial Manager and Marketing Manager. Key management personnel including career highlights in qualification, skills and experiences. All of the four roles have their own tasks and responsibility which is really important to guarantee a success in a company.

Financial estimation is the process of predicts the revenues and expenses of our new firm over a specific period of time using the financial forecast. The predicted overall expenses for our company to start up this trolley business is about 2 million.

Project milestones are very effective because they show how far our project has progressed. They assist in motivating and aligning our team by allowing everyone to see progress and prioritise tasks. They also assist us in keeping track of deadlines, identifying significant dates, and identifying potential project bottlenecks. We have assigned every task in our project milestone every week to make it easier for us to keeping track of deadlines. We ensure the development process of Flash Trolley begun at week 19 and able to launch the prototype at week 25.

## 2.0 PRODUCT DESCRIPTION

We have an amazing idea to innovate the old supermarket trolley which has served us for decades to the one which is complete with scanner barcode products and lead toward a better payment process when at the counter as well as make people enjoy shopping. This trolley can help the customer to minimize contact touch points and physical contact while shopping, especially at the counter. At a few hypermarkets in our country, it is a common process to generate bills by scanning each item code first with a red laser before making payment of the total amount of those items. However, this traditional way called the “point-of-sale system” might be worrying for some people during this pandemic which then makes them feel not enjoying the shopping. In addition, it will lead to have the counter such crowded places with many customer queue along the counter with many item to being scan by the cashier and also have people out there waiting them to finish shopping in order to follow SOPs whereby nowadays only limited number of customer in a time is allowed to ensure there is still have social distancing. This also contributes to troubles for parents with kids due to the long queue at the counter waiting for their turn. Here, for this trolley we try to make it convenient for customers to feel less worried about it. On top of that, this innovative trolley has great criteria to enter the market throughout our country and also export to other countries.

Firstly, Flash trolley uses a code system whereby it automatically connects with the computer at the counter. For your information, 5 code numbers would be displayed at the LCD screen after the customer enters detailed information required before use it, otherwise the trolley is still locked by anti-theft lock systems. These code numbers are generated specific for the user in a time, and it represents the trolley user’s identity. This aspect includes our innovative concept to take consideration for rare cases such as when there are any trolley changes occurring among customers, it can simply be solved if the user is aware of how the code number’s function. Not only that, but this code number will also be used at the counter to generate bills before proceeding with payment.

Secondly, there is a small device near the trolley holder which will be the barcode scanner whereby the customer will scan the barcode item before putting it into the trolley. The scanned product will add directly to their shopping list which then bills will be generated at the counter right after the customer presents 5 code numbers to the cashier. Items that failed to be scanned will be detected when red light sensors glow and short vibrate occurs along the holder of the trolley. The scanner allows customers to experience themselves scanning each product barcode in order to settle down a part of the cashier job. In other words, they will take less time to shop as well as at the counter because the cashier will no longer wait to scan each item barcode one by one.

Thirdly, superior design of the trolley would make it easier for the customer to handle the purchased item from rack to their vehicle. As more compartments are provided at the trolley, the customer can arrange the small to large items accordingly which can avoid dropping out of the trolley. It also seems useful when the customer is required to place wet and dried items. As part of the design, we are more focussed at the stability of our trolley and made from polycarts. Therefore, it can increase in lifespan compared with most trolleys which has maintained in function at least five years.

Lastly, the crucial part is this trolley is installed with an anti-lock theft system at wheels. Since there are a lot of theft cases which involved the smart trolley with high technology due to its cost are expensive than the common trolley sells in market. With the lock and unlock system at the trolley, we can protect our customer's profit, which is the manager who is being our target customer to save a thousand costs per trolley to provide stocks for their business. Things that their customers need to do is unlock the system by key in detailed information required to allow the trolley to receive entry permission which is then successful when 5 code numbers appear on the screen. After that, the customers can use this trolley within the radius that has been set up on the system. When a trolley passes beyond the radius, a signal is sent to a system of the wheel and triggers a brake.

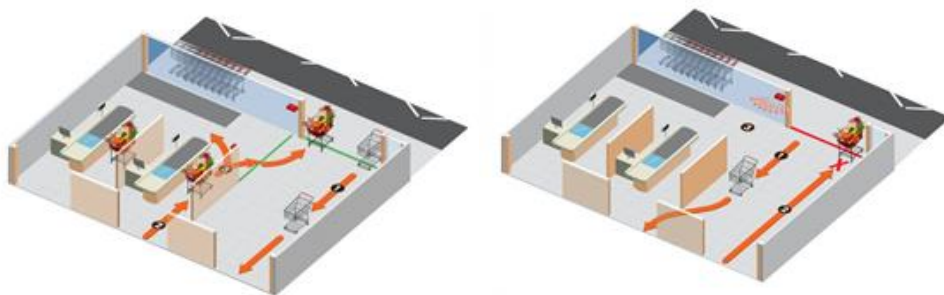


Figure 1: Anti-lock theft system