

**KAMPUS SHAH ALAM, SELANGOR**

**ICT 502 DATABASE ENGINEERING**

**MARCH 2018 – JULY 2018**

**PROJECT PROPOSAL**

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**INTRODUCTION**

**Company Background**

So Far So Good (SFSG) is a Malaysia based games store. SFSG is a private limited company that was established in March 2017. Previously SFSG developed a system-based and online-based of Stock Management System. Today, SFSG has grown to become an integrated service provider that promises commitment in providing technology based solutions to its customers also.

SFSG believes the importance services and support in order to achieve satisfaction from valued clients and users. SFSG provide solution and services in Online Purchasing (reduce the need of queueing in shopping), Online Content Development (provide a preview of graphic content of the game to customers), and System Integration (store, process and retrieve data for users). SFSG provide various genre of games within myriad range of prices and gaming consoles.

SFSG focuses on Web development. A number of improvement has been made from the previous modern programming language. They have three years of total accumulated experiences in web development ranging from HTML, Action Script, JAVA and PHP. Stock Management System was deemed to ease both employees of the company and the supervisor to keep track the stock coming in and out of the store. This way, bulky manual File-Storing System was not a priority in keeping track of data.

**Company’s Products**

SFSG developed in-house, Online e-Commerce Game Store (OeCGS) is an licensed online games stores. **OeCGS** is affordable and can be subscribed via [www.sfsg.net.](http://www.sfsg.net.) **OeCGS** provide to customers mucho selection of games from various genres such as simulation, action, adventure etc. Customers can “add to cart” according to their selection and preferences in shopping the items. In addition, **OeCGS** is also a place for customers who wants to buy gaming-console such as gaming-keyboard, gaming-mouse, headphone, monitor, system unit etc.

Besides that, Globally Licensed Business focuses on the “Legality” market to help manufactures, merchants and sellers reach out to a higher audience with good image. Globally Licensed Business creates a whole spectrum of possibilities to market legal product not limited to local netizens but to everyone practicing the anti-pirating-copies around the world.

**CURRENT SYSTEM DESCRIPTION**

**OeCGS** is online game store based in Malaysia. This system provides digital purchase on products that delivered directly to your devices. It also provides delivery service on physical products such as CD games or other products.

By having this system, every customer gets to order many products and one product may be ordered by many customers. Each product has its own product id so that customers will get other details of products such as name, stock and price. The products sold by this store include games and accessories.

Besides, customer’s information such as name, email, password and address will be identified by their customer id for buying and selling purpose. There will be one admin manages many orders placed by customers and only one order will be managed by one admin. Admin has their own unique id and other information to allow them to access and manage this system. This to ensure the system is efficient and secured.

Apart from that, supplier is a crucial part of collaborative business like this online game store. To make sales run smoothly, **OeCGS** will have one supplier who can supply many products and one product is supplied by one supplier. Supplier id is used to keep track information of supplier that includes name, email, phone, web address and address.

**PROBLEM STATEMENTS**

Records being kept. For example, they find it hard to write the information in a piece of paper and to put it back in the file. Plus, when there are things that need to update, it is hard to rewrite the information because it will take a longer time to erase and write it back. Other than that, it is hard for the Top Manager to observe their middle managers’ activities that are going on inside and outside of the company.

Security problem. When they are using the manual filing method, everyone can easily access to the information of the managers’ projects’ details. The data is not secure at all and it can lead to leaking of information. Hence, this may ruin or cause problems to the company. The top manager request strictly that he is the only person that can access to the data of his managers.

Unrecorded transactions are hard to keep track. The company cannot trace the money withdrawal that have been made outside the company. This can create a difficult time for manager to keep tracks of details within the company such as product stocks.

**INITIAL PROPOSED DATABASE OBJECTIVES.**

Enabling staff to manage their customer’s current order list or purchase. Wasting time on writing every single information in a piece of paper can be overcome by mitigating the time taken to write all the order list that customer wish to purchase be with a few simple steps and a push of a button by the customers which staff can easily monitor and manage the purchasing that going on inside the website.

To overcome the security problems regarding their projects’ details. Our database is an object-oriented database which one of its characteristic is encapsulation. Hence, this database system will strictly be secured so that only the top manager or admin can only can access all of the data thereby reducing the chance of unwarranted manipulation of data.

Overcome problems related to unrecorded transaction. This database system will ask the manager to key-in every transaction that have been made when a transaction is carried out within the website. So, the top manager can monitor the activity being made by in the website and ensuring personal information of customers are kept secured.

**INITIAL PROPOSED ER DIAGRAM (ERD)**

