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| Proposal for NINAsTEA Website Upgrade  May 26, 2021 | Abstract  Proposal of upgrading current static website to dynamic, database driven website for NINAsTEA company.  Xiaojing Shi  Flash Web Design |

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Proposal for NINAsTEA Website Establishment

To: Steve George

From: Xiaojing Shi, Flash Web Design

Date: June 1, 2021

# Background

NINAsTEA is a new local retailer based in Winnipeg, Manitoba selling teas. The owner, Nina opened first NINAsTEA store in Dec 18, 2020. The brand core concept is healthy drink healthy life. They are currently looking for a web development company to upgrade the current static website into a dynamic, database driven website in order to increase user experience and backend management efficiency.

The main technology that will be used to make the upgrade are PHP and MySQL. First, we will create a database with MySQL with all data we need for the website organized and stored in different tables. Second, we will use PHP to convert all existing HTML pages into PHP pages with MVC(Model-View-Controller) pattern. This can better organized codes and make maintenance and changes easily. Third, with PHP and MySQL, we can get data from the database and dynamically render pages.

# Goals and Objectives

The overall goal is to upgrade the current website to a more dynamic and more functional website. The upgraded website should have the following features:

For customers:

1. Search products. Customers can search products by keyword. Search bar is located on the top of each page.
2. Sort products. Customers can view products sorted by different categories.
3. Products list and detail information pages.
4. Make online orders. Customers can add products into shopping bag, edit quantities, view order subtotals, and make payment.
5. Add products to wish list. Customers can add products into wish list, as well as remove products from wish list. They can also save the list for later use.
6. Registration authentication. When a customer registers, the email provided will be verified and make sure it is unique in the database.
7. Log in and Log out authentication. Passwords entered will be encoded for website security.
8. After logging in, customers can view profile, wish lists, previous orders and make new orders.

For admin users:

1. Log in and Log out authentication.
2. After logging in, admin users can view products, customers, orders and logs.
3. On view products page, admin users can view, edit, and delete a current product, create a new product and update database.
4. On view customers page, admin users can view all current customers.
5. On view orders page, admin users can view all previous orders.
6. On view logs page, admin users can view administration daily logs.

# Database

There are 5 tables in the database: customers table, teas table, orders table, order\_tea table, and log table; including following data type: integer, varchar, decimal, enum, boolean, text, char, date, datetime.

1. For customers table, data is collected mainly though registration process. We are collecting user's name, email, password, age, phone, address, city, province, postal code, country from registration form. With email and password, customers can log in and view profile, previous orders, wish list and make an online order. Beside, an unique customer id will be generated in database automatically. In order to distinguish a regular user and an admin user, privilege level is added with default value 0 for regular user and 1 for admin user.
2. For teas table, data is collected from NINAsTea company. This table is the primary table for the website. It includes all information of all products: product id, name, price, weight, type, caffeine, origin, expire date, organic, ingredients, description, SKU number, image. Customers can view product list and product details; sort products by caffeine level, tea type; search product with keyword; Admin users can add, view, edit and delete products from back end admin page.
3. For orders and order\_tea tables, data is collected from online order processes. After customers successfully make an online order, customer id, order date, subtotal, gst, pst and total amount will be stored in orders table with an auto-generated id. Tea ids, unite price, quantity and line price will be stored in order\_tea table. These two tables can interact with same order id. Orders table and customers table can interact with same customer id. Teas table and order\_tea table can interact with same tea id. In the end, we can use all these information to display a detailed order receipt.
4. For log table, data is collected when any user visit, view or interact with NINAsTea website. Every time an interaction occurred, it triggers the log function and file information of current date, request method, request uri, htto status of the request, information about the user's browser to the log table in database. Only admin users are able to view it after logging in.

# Estimated Hours and Costs

The estimated budget is CAD$ 6,680.00 .

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| Database establishment | 3 hours | $180.00 |
| Front End HTML and CSS | 4 hours | $320.00 |
| Front End PHP Scripting | 40 hours | $4,000.00 |
| Back End PHP Scripting | 20 hours | $2,000.00 |
| Launch/Testing | 3 hours | $180.00 |
| TOTAL | 70 hours | $6,680.00 |

# Appendixes:

1. Sitemap
2. Data Model
3. Workback
4. Invoice
5. Timesheet