**FPT ACADEMY INTERNATIONAL**

**FPT – APTECH COMPUTER EDUCATION**

**Centre Name: ACE-HCMC-2-FPT.**

**Address: 590 Cach Mang Thang 8, District 3, Ho Chi Minh City, Viet Nam.**

**NHL Sport**

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| **Supervisor:** | **Mr. NGO PHUOC NGUYEN** | |
| **Semester:** | **4** | |
| **Batch No:** | **T1.1807.M0** | |
| **Group No:** | **2** | |
| **Order:** | **Full name** | **Roll No.** |
| **1.** | **Le Tran Huu Nghi** | **Student1130989** |
| **2.** | **Che Gia Huy** | **Student1133321** |
| **3.** | **Vu Phi Long** | **Student1132482** |
| **4.** | **Tran Thanh Thien** | **Student1130994** |

**REVIEW 1**

1. **Problem Definition:**
2. **Introduction**

Online shopping is the process whereby consumers directly buy goods or services from a seller in real-time, without an intermediary service, over the Internet. It is a form of electronic commerce. The sale or purchase transaction is completed electronically and interactively in real-time such as in Amazon.com for new books. However in some cases, an intermediary may be present in a sale or purchase transaction such as the transactions on eBay.com.

1. **Existing scenario**

In present scenario Ecommerce is playing very essential role in the online business. Although it is one of the best & cheapest intermediate for reaching out to new customers in the online market, if ecommerce implemented effectively, it also offers a smart way of doing online business & expanding it more.

An online business ecommerce podium is planned & implemented to make the most of its reach to potential customers and provide them with a convenient, satisfying & protected shopping experience

**Advantages of Ecommerce to the Online Business:**

Ecommerce helps to Increase the sales revenue to the business

* Business people can spend less money and earn high profits with ecommerce
* It is very Easier to scale up online
* sEasily we can track the segment of customers who are happy with purchasing goods through online
* Avoid losing sales to competitors who are online
* Instantaneous global sales presence in quick time
* We can Operate the business in 24/7 basis
* Easily we can increase our business customers
* We set up shop anywhere in the world, self-governing of geographical locations
* Inexpensive way to turn your Web site into a revenue center
* Reduce Customer Support costs via e-mail marketing & customary newsletters
* We can create customized mailing list
* Easily we can drive free traffic to the website
* Instantly we can develop our business across the internet by using various ecommerce strategies
* Customers can easily buy their products by using different payment gateways
* Develop more shopping carts by using ecommerce
* We can easily promote our business website by using various ecommerce digital marketing activities such as Search Engine Optimization, Pay Per Click Management, Email Marketing, Social Media Optimization, Online Banner Advertisement, Online Branding and Affiliate Management etc

1. **Customer Requirements Specifications:**

* Website will be a 24/7 sales channel to provide customers information about the product, order online at the website at any time. Specially, customers can:

+ View detailed information about the product

+ Search products by name or filter products by categories, types,

brands and price

+ Compare products

+ Track recently viewed products

+ Members have registered to manage their personal information,

orders, wishlist and rate products

+ Intelligent systems can suggest products based on rating history

of customers.

+ Order online and manage cart.

+ When shopping can login (member) or not (guest).

+ View business information (address, google map).

* Website providing business management tools (shop owner):

+ Store management: add, delete, edit components of the site

1. **Functional Requirement Specification:**
2. **Guests (unregistered customers):**
   1. **Description:**

The guest account can use basic functions of the website. These include viewing product details, shop information (stores, contacts, etc.), searching for products, comparing products, ordering orders, and managing shopping carts, displaying product suggestions for guests on the home page, and tracking recently viewed ones Products or registration as a member.

* 1. **Functional Requirement:**

When customers (include guest and member) access the home page, there  
 should be:

* Top bar shows some important items such as hotline number, text box to search product, register / login button

+ Customers can search product by name, system process and reponse to page to display results.

+ Customer can register member account

Website provides a page for guest to register member account by providing necessary information: email (unique), password, name, mobile, address.

* Menu bar including: Home, category, brand, contact us, faq, shopping cart icon.

+ Shopping cart is working for both members and guests.

+ Customers can add products to shopping cart while surfing the website for the creating order step.

+ Customers can view shopping cart, check out order as guest.

1. **Members (registered customers):**
   1. **Description:**

All customers can register on the website to become a member. After having their accounts, they can still do all function as guests but they will be able to access more features after login. After login, they can update their information including password change.

* 1. **Functional Requirement:**
* Members must provide Email and Password to login into the website (login page should have the function for customers to remember their login information). User can modify their information after login.

**After members login:**

* Members must provide Email and Password to login into the website (login page should have the function for customers to remember their login information). User can modify their information after login.
* Modify their information (except Email).
* Manage their orders: view all orders, check and print every order details.
* Manage their wishlist: view all items, can remove items (one by one or all), and should have an confirmation for removing.
* Make ratings for products: rate for products (from 1 to 5 stars), if rated, they can view their ratings and can update ratings.

1. **Admin:**
   1. **Description:**

Adminator after login, they will manage information related to products and customers, follow customers’ orders.

* 1. **Functional Requirement:**

+ Add, update, delete: data in tables such as: products, categories, types, brands, customers, admins.

Note: if tables in database have a status field (with true of false values), delete function means only changing values of this field to false.

+ Have a page to change the orders’ status with values (listed based on real order): processing (default - 1), shipping (2) and complete (3).

Note: when update status, new value should be validated to make sure previous order of current order not be chosen

**IV. System Requirements:**

**1. Hardware Requirements:**

- Pentium IV CPU 2.80 Ghz or higher.

- 2048 Mb of RAM or higher.

**2. Software Requirements:**

- Windows XP, Win 7, Win 8 or Win 10.

- SQL Server 2012 or higher. - Netbean 7.4 or higher.

- JavaEE 7 SDK.

- Java Development Kit (JDK) 1.7

- Glassfish Server 4.0.

- Google Chrome 60.0 or higher.

V. Technologies:

- JavaEE 7

- Enterprise Java Bean (EJB) 3.0

- Bootstrap 3.7 - HTML 5 + CSS 3

- Javascript - Jquery 1.11.1

- Jquery UI 1.11.1

**VI. Scope of project:**

There are some functions not to be included in this project as follows:

- Manage the warehouse: all products with different sizes and colors will be always available.

- Manage promotions: No promotion will be apply.

- Manage the shipping.

- Manage payment methods via credit card.

**VII. Task sheet:**

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| **Project Ref. No.** | | **Project Name:**  **NHL Sport** | **Date of Preparation of Activity Plan** | | |
| No. | Task | Description | Start Date | Complete Date | Team member |
|  | **Review 1** | Problem Definition | 22/5/2020 | 31/5/2020 | All Team |
|  | Customer Requirements Specifications |
|  | Functional Requirement Specification |
|  | System Requirements |
|  | Technologies |
|  | Scope of project |