

Centre Name: ACE-HCMC-2-FPT.

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

Laptop Shop

Design Document

Supervisor:	Mr. NGO PHUOC NGUYEN	
Semester:	4	
Batch No:	T1.1708A0.PRJ4	
Group No:	4	
Order:	Full name	Roll No.
1.	Nguyen Phuc Nguyen	Student1054212
2.	Vu Xuan Loc	Student1053902
3.	Tran Van Thang	Student
4.	Nguyễn Khắc Thường	Student1060397

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REVIEW 1

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1. Introduction

Founded in June 2011, JASPER LAPTOPSHOP is a computer store online, provide graphics card, processor, solid state drive, gaming cabinet, keyboard, mouse, power supply, gaming accessories motherboard etc ,.. the leading in Vietnam and many countries like Philippines, India, Malaysia.

So they need a website to sell products online, manage their business such as sale orders, revenue, profit,

As a seller with an eCommerce website, you can tell your customers about your company, showcase your products and get sale orders online....

Customers will enjoy the round-the-clock convenience of being able to purchase what they want and when they want it, and they won't lose out on sales with an online shop that is open 24 hours a day, 7 days a week, compared to regular store hours.

2. Existing Scenario

Nowadays, online shopping is an important and potential market. After gathering enough information about the product and the saler, online customers can decide to buy it or not without coming to the store.

To widen the company's market and aim to online customers, JASPER LAPTOPSHOP's product information must reach online customers in an attractive, trusty and completely way.

3. Customer Requirement Specification

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

For customers, they can:

- Search products by name.
- Filter products by categories, types, brands and price.
- View detailed information about the product.
- Track recently viewed products.
- Register a member account, logged in system to rate stars for products, leave comments, manage own profile, order online.

For administrator, they can full access (create, read, update, delete) to every information of the website after logging in by admin account.

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4. Functional Requirement Specification

4.1 Guests (unregistered customers)

4.1.1 Description

Guests can use basic functions of the website such as:

- Viewing product details, about shop, contact shop via submit form.
- Searching products, filtering products by category, brand.
- Comparing products.
- View shopping cart, check out order.
- Tracking recently viewed products.
- Signing up to become members.

4.1.2 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.
- Slideshow: new product, hot product, promotion,...
- List of featured products: new, best selling, best rating, most viewed
- Customers should be able to filter products by categories, brands or price.
 - + Web page should have a section to show all categories with types in every category, all brands, a seek bar to choose price between a range.
 - + List of filtered products will appear after customer click on the link of above section. List should show products in grid view or list view.

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+ List should have pagination function, which let customer to choose the number of items in each displayed page (page size).

- Slide of Brands
- Footer

4.2 Member

4.2.1 Description

Guests 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.
- Manage orders
- Rating products
- Leave Comments

4.2.2 Functional Requirements

- Customer can login into the system with account credentials: email, password

After members login:

- Member can modify his/her profile: change password, name, mobile, address.
- Member account can view shopping cart, check out order:

Customers go to creating order step from shopping cart by clicking Order button. The website has to check current customer is Member or Guest.

- + If member, continue to creating order step as member
- + If guest, continue to creating order step as guest.

Notes: Checking all information of products in shopping cart before create an order

- Manage their orders: view all orders, check and print every order details.
- Make ratings for products: rate for products (from 1 to 5 stars), if rated, they can view their ratings and can update ratings.
- Leave a comment

After logging in, member can rate stars and leave comments to review products. The website has to check current customer is Member or Guest.

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- + If current customer is Member (register), display rate and leaving comment section.
- + If current customer is Guest (not register), require login if customer wants to rate or leave comment

4.3 Administrator

4.3.1 Description

Admins are shop's staffs. After login, they will manage information related to products and customers, follow customers' orders, diagnostic shop's business status via number of sales and charts.

4.3.2 Functional Requirement

Via admins' pages, after log in using email and password, admins can:

- Manage information related to products and customers, admins:
 - Create, Read, Update, Delete: data in tables such as: products, categories, types, brands, customers, admins.
- Follow customers' orders:
 - Have a page to change the orders' status with values (listed base on real order): processing (default - 1), shipping (2) and completed (3).
- Can view reports:
 - Website provides a page for admin account to view Statistics & Reports about:
 - Total profit
 - Total reviews
 - Total orders
 - Total accounts
 - Products: Top selling, Most viewed, Top rating
 - Orders: Last 10 orders, Pending order, Success order, Canceled order

5. System Requirements

5.1 Hardware Requirements

- Pentium IV CPU 2.80 Ghz or higher.
- 2048 Mb of RAM or higher.

5.2 Software Requirements

- Windows XP, Win 7, Win 8 or Win 10.
- SQL Server 2012 or higher.
- Netbean 7.4 or higher.
- JavaEE 7 SDK.

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- Java Development Kit (JDK) 1.7
- Glassfish Server 4.0.
- Google Chrome 60.0 or higher.

6. Technologies

- J2EE
- JSP, Servlet
- HTML
- CSS
- Javascript
- EJB

7. 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.

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8. Task sheet

Project Ref. No.		Project Name: Laptop Shop	Date of Preparation of Activity Plan		
No.	Task	Description	Start Date	Complete Date	Team member
01	Review 1	Problem Definition	08/04/2019	12/04/2019	All team member.
02		Customer Requirements Specifications			
03		Functional Requirement Specification			
04		System Requirements			
05		Technologies			
06		Scope of project			

**Signature of Team Leader
Supervisor**

Signature of

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