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FPT ACADEMY INTERNATIONAL  
FPT – APTECH COMPUTER EDUCATION

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# Big Mobiles

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Semester:	4	
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Group No:	6	
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May 2019

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# REVIEW 1

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## I. Problem Definition:

### a. Introduction

Online shopping is a form of electronic commerce (e-commerce) which allows consumers to directly buy goods or services from a seller over the Internet using a web browser. Consumers find a product of interest by visiting the website of the retailer directly or by searching among alternative vendors using a shopping search engine, which displays the same product's availability and pricing at different e-retailers.

### b. Existing scenario

The marketing around the digital environment, customer's buying behavior may not be influenced and controlled by the brand and firm, when they make a buying decision that might concern the interactions with search engine, recommendations, online reviews and other information. With the quickly separate of the digital devices environment, people are more likely to use their mobile phones, computers, tablets and other digital devices to gather information. In other words, the digital environment has a growing effect on consumer's mind and buying behavior. In an online shopping environment, interactive decision may have an influence on aid customer decision making. Each customer is becoming more interactive, and though online reviews customers can influence other potential buyers' behaviors.

## II. 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:

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- + View detailed information about the product.
- + Search products by name or filter products by categories, brands and price.
- + Compare products.
- + Members have registered to manage their personal information, orders, wishlist and rate products.
- + 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 + Report to manage business activities of the store.

### III. Functional Requirement Specification:

#### 1. Guests (unregistered customers):

##### a. Description:

Guests can use basic functions of the website such as viewing product details, shop's information (stores, contacts, etc...), searching products, comparing products, making orders and manage carts, could view suggested products for guest in the home page, or signing up to become members.

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#### b. Functional Requirement:

- When customers access the home page, there should be:
  - + Lists of featured products (hot, sale, new, etc...),
  - + Links to navigate to list of shop's stores filtered by cities and have a google map with markers of stores in the map,
  - + A text field to search products
  - + Links to filter products by categories, brands.
  - + Links to other things such as about shop, terms & conditions, privacy policy, social pages (if have).
- Filter products:
  - + 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.
  - + List should have pagination function, which let customer to choose the number of items in each displayed page (page size).
- When customers click on products, they should be navigated to pages with the details information. In there, they can + Add products to comparing list, + Add products to their cart.
- Compare products:

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- + Customers see all information of chosen products in column format.
- + They should also use mouse to drag to order the products.
- After adding products to cart, they should be able to manage cart with follow functions:
  - + Update quantities of items (quantities must be greater than 0).
  - + Remove items (one by one or all at the same time) with confirmations.
  - + Link to check out.
- Check out:
  - + Give shipping information: name, phone, address, ship date, ship note (if have).
  - + Choose payment method: cash. + A review of order's information at the final step and customers can print it.

## 2. Members (registered customers):

### a. 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.

### b. Functional Requirement:

- Members should provide Email, Password, Name, Phone, Gender and Avatar to create an account.

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- Members must provide Email and Password to login into the website.  
User can modify their information after login.

After members login:

- Modify their information (except Email and should have function to preview new avatar before update).
- 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 a 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.

### 3. Admins:

#### a. 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, control the machine learning processing of the website.

#### b. Functional Requirement:

Via admins' pages, after log in using emails and passwords, admins can:

- Manage information related to products and customers, admins: +  
Add, update, delete: data in tables such as: products, categories, types, brands, stores, customers, admin.

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

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

Note: when update status, new value should be validated to make sure previous order of current order not be chosen (example: if current status is 'shipping', then 'processing' should not be chosen).

- Can view reports with charts about sales status.

#### 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.

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#### V. Technologies:

- JavaEE 7
- Bootstrap 3.7
- HTML 5 + CSS 3
- Javascript
- JQuery 1.11.1
- JQuery UI 1.11.1
- AJAX

#### 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 the shipping.

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## VII. Task sheet:

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No.	Task	Description	Start Date	Complete Date	Team member
01	Review 1	Problem Definition	14/05/2019	14/05/2019	Tran Cong Minh
02		Customer Requirements Specifications			Quach Anh Tuan
03		Functional Requirement Specification			Vu Ngoc Thang
04		System Requirements			
05		Technologies			Ngo Thanh An
06		Scope of project			

Signature of Team Leader

Signature of Supervisor

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