Training Project

# Overview

The trainee learns basic concepts, patterns and practices of building an ecommerce website.

**Requirements**

You must build an online store to sell mobile phones. The store has 2 main parts: store front-end and administration, which can be accessed as:

* <http://mobile.loc>
* <http://mobile.loc/admin> or <http://admin.mobile.loc>

## Store Front-End

* Multi category levels: relationship and sorting order can be changed via admin. Example:
  + Featured phones
    - Sales
  + Smart phones
    - Main stream
      * Android
      * iOS
      * Others
    - Luxury
    - Sales
  + Accessories
* A product can be associated with multi-categories
* A global page header shows all categories as a horizontal mega menu. Showing number of products within each category in a (bracket)
* Showing a welcome lightbox for a first-time visitor
* A homepage shows a banner slider of featured products. Admin can select any products with configurable sort order for this slider.
* Clicking a menu item opens a category listing page.
* Category listing page shows all products in that category with basic infos: name, link, main image, listing price, sale price
  + Filter by: brand, price range slider
  + Sort by: name, price, date ascending and descending
  + Pagination: showing current page, N products per page. N is configurable in admin.
* Clicking a product on listing page opens a product detail page. It shows all basic infos and additional infos: alternative product images (up to 10), description, brand, origin country, reviews, rating.
* Customer can post their star rating and review to each products
* Customer can add product to shopping cart from category listing page and product detail page.
* There is a small cart icon on the global page header. Hovering on that icon will show a popup of listing of cart items: name, price and total price
* Shopping cart: can edit quantity, remove item or clear cart
* Checkout

## Administration

* Login with username and password.
* Manage users: create/edit/delete
* Create/update/delete/move any category
* Create/update/delete products, assign product to category
* Reports:
  + Best-selling products within a time period (select by two date-pickers)
  + Best-selling categories within a time period (select by two date-pickers)

## Technical Requirements

* PHP 5.3 – MySQL 5
* Choose one of these platforms:
  + CodeIgniter 2
* Strictly follow the coding standards of the selected platform
  + NOTE: No PHP errors, warnings, notices with E\_ALL mode and display\_errors = On
* Store frontend code must use raw SQL queries. Admin backend code must use active record/ORM
* JavaScript must be implemented in independent JS files, except necessary dynamic generated codes
* Security:
  + No SQL injection bug
  + No XSS bug
* HTML code must pass W3C validator (no error)

# Tables

User

Product

Category

Category\_product

Images

brand

Comment

Slider

Order

orderdetail