



MINISTRY OF EDUCATION AND TRAINING

# FPT UNIVERSITY

## Capstone Project Document

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### Smart Buy

Group 1	
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Capstone Project code	SmartB

-Ho Chi Minh City, 01/2014-

# A. Software User's Manual

## 1. Installation Guide

### 1.1 Setting up environment at server site

The following software must be installed into the server machine:

#### 1.1.1 Hardware requirements

Personal computers for developing with the minimum configuration:

- CPU Core 2 Duo 2.0GHz.
- 4GB of RAM.
- 300GB of hard disk.
- Wifi Internet (> 2Mbps).

#### 1.1.2 Software requirements

- Web Server: Internet Information System – IIS 7.5.
- Microsoft Windows 7: operating system and platform for development.
- SQL Server 2008 R2: used to create and manage the database for web application.
- Other library:
  - Microsoft Visual C++ 2010 SP1 Redistributable Package (x86)  
(<http://www.microsoft.com/en-us/download/details.aspx?id=8328>)

#### 1.1.3 Mobile Requirement

- Android 4.2 or above.

### 1.2 Deployment at server side

#### 1.2.1 Prepare deployment package

- Extract the deployment package to a folder on the server.
- For example: E:\SmartBuySite

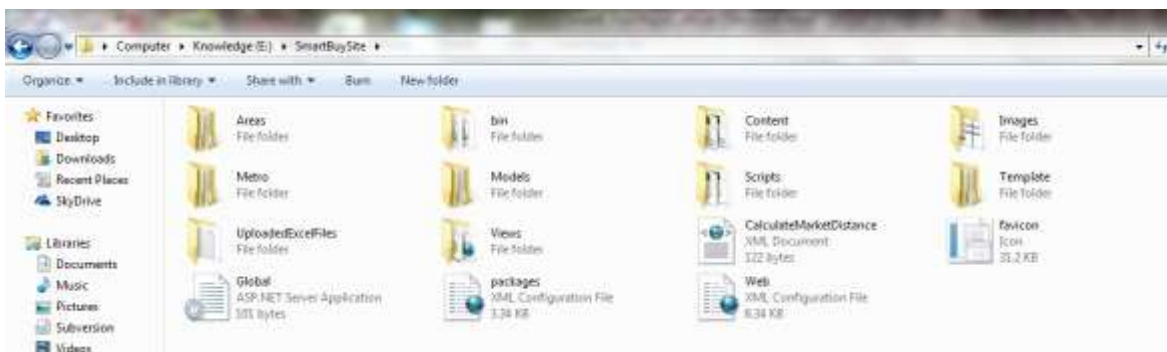


Figure 1: Prepare deployment package

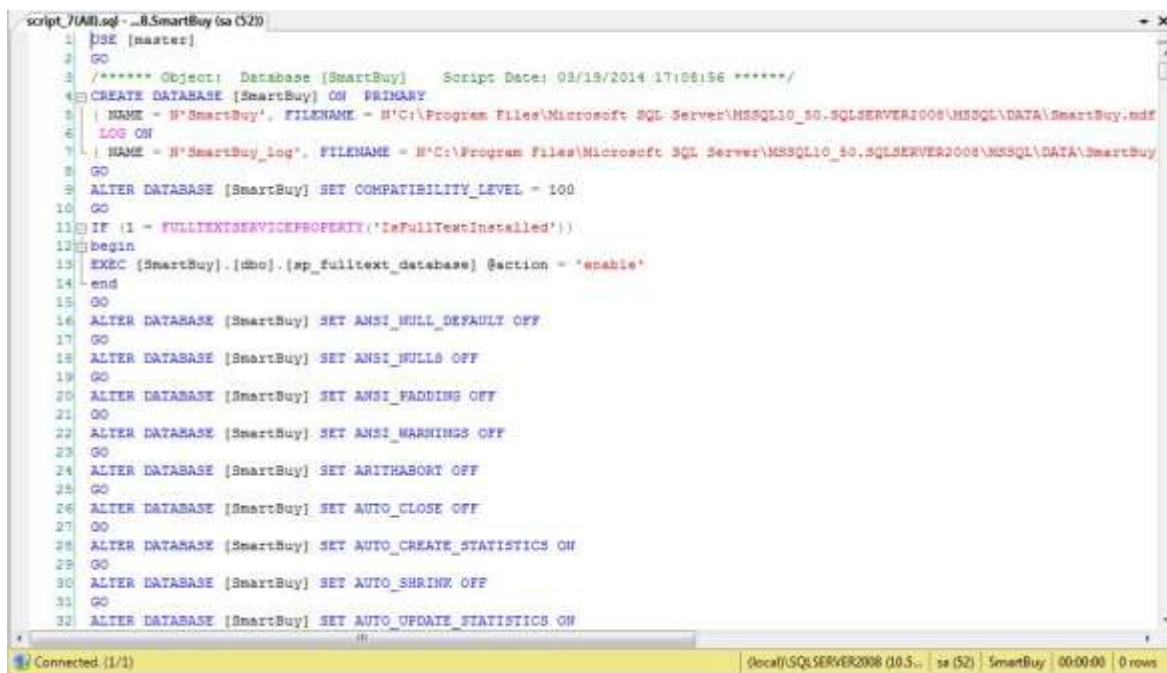
#### 1.2.2 Deploy database

- Open Microsoft SQL Server Management Studio.



**Figure 2: Deploy database - 1**

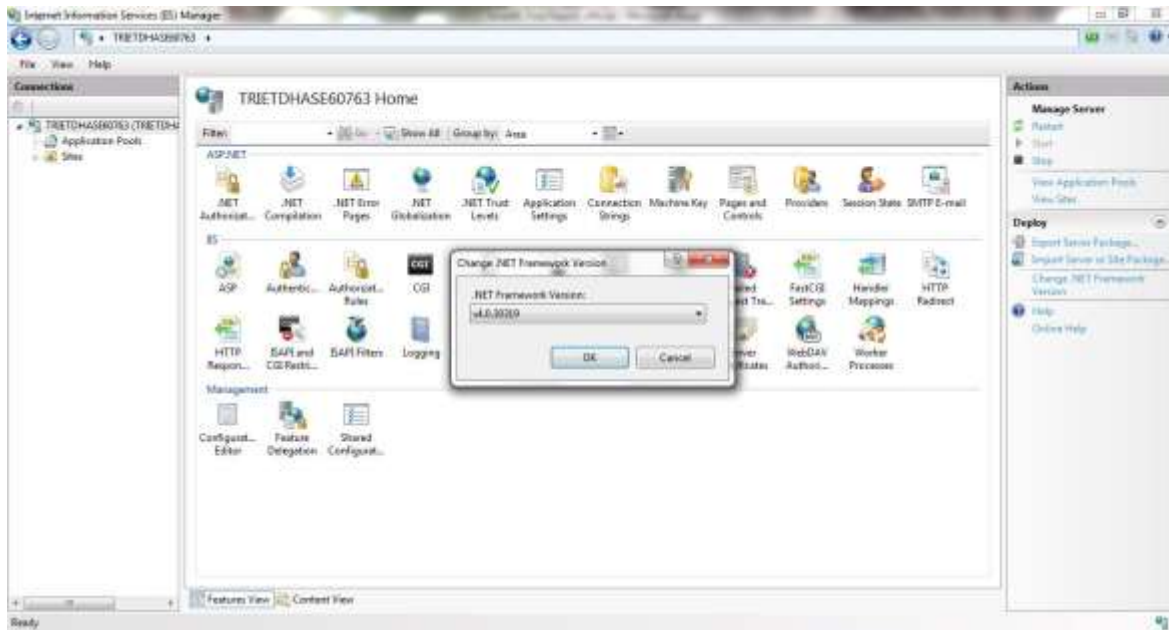
- Open and excute the script.sql file



**Figure 3: Deploy database - 2**

### 1.2.3 Configure Server before deploy

- Open the Internet Information System Manager.
- Change the .NET Framework version to 4.0.



**Figure 4: Configure Server before deploy - 1**

#### 1.2.4 Deploy web application on server

- Change the connection string in Web.config.
- Replace the username, password, data source parts with your own data.

```
<connectionStrings>
  <add name="DefaultConnection" connectionString="Data Source=(LocalDb)\v11.0\Initial Catalog=aspnet-SmartBuy-UT-20140119135312;Integrated Security=SSPI;AttachDBFilename=|DataDirectory|aspnet-SmartBuy-UT-20140119135312.mdf" providerName="System.Data.SqlClient">
  <add name="SmartBuyEntities" connectionString="metadata=res://*/Models/EntityFramework/SmartBuy.edmx;provider=System.Data.SqlClient;provider connection string=<u>Data source=TRIETHDASE60763\SQLESERVER2008;initial catalog=SmartBuy;persist security info=True;user id=sa;password=1234</u>" providerName="System.Data.SqlClient">
  <add name="CoreStringsForWebSecurity" connectionString="Data source=TRIETHDASE60763\SQLESERVER2008;initial catalog=SmartBuy;persist security info=True;user id=sa;password=1234" providerName="System.Data.SqlClient">
</connectionStrings>
```

**Figure 5: Deploy web application on server - 1**

- Right click as Sites. Choose "Add Web Site".



**Figure 6: Deploy web application on server - 2**

- Enter site name. Choose Application Pool as ASP.NET 4.0
- Select the path as the folder in step 1. Enter port other than 80.

**Add Web Site**

Site name:  Application pool:

Content Directory

Physical path:

Pass-through authentication

Binding

Type:  IP address:  Port:

Host name:

Example: www.contoso.com or marketing.contoso.com

☒ Start Web site immediately

**Figure 7: Deploy web application on server – 3**

- Press ok to finish the process

Name	ID	Status	Binding	Path
Default Web Site	1	Stopped (http, Unknown (net...))	*:80 (http,8080) (net.tcp) (net.pl...)	%SystemDrive%\inetpub\wwwroot
SmartBuy	2	Started (http)	*:8085 (http)	E:\SmartBuySite

**Figure 8: Deploy web application on server – 4**

## 1.3 Setting up the environment at client side

### 1.3.1 Setting up for computer

- The client devices need to have one of the following browsers to access the website:
  - Google Chrome.
  - Firefox.

### 1.3.2 Setting up for Android devices

- Change setting to install unknown source apk.
- Connect to the same network as the server

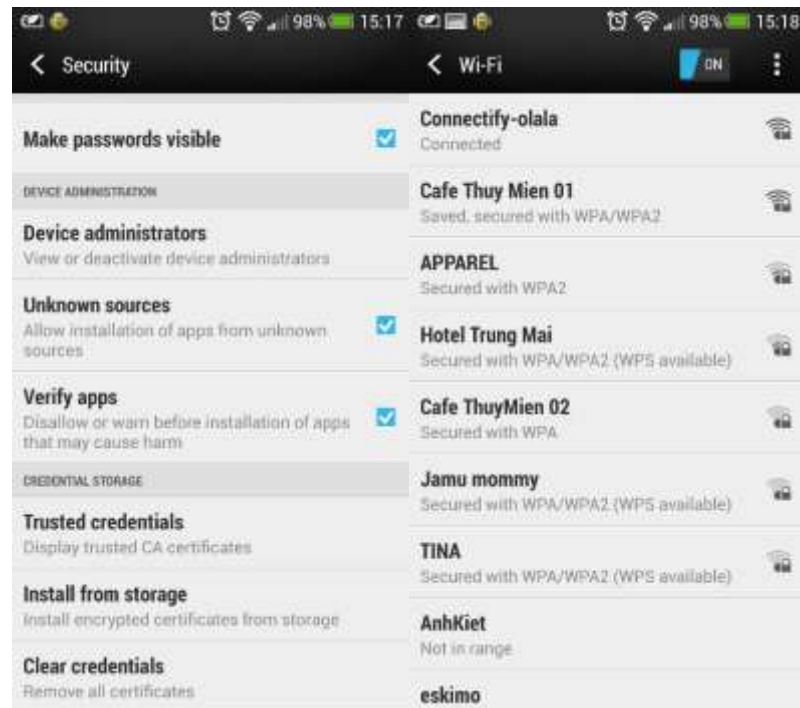


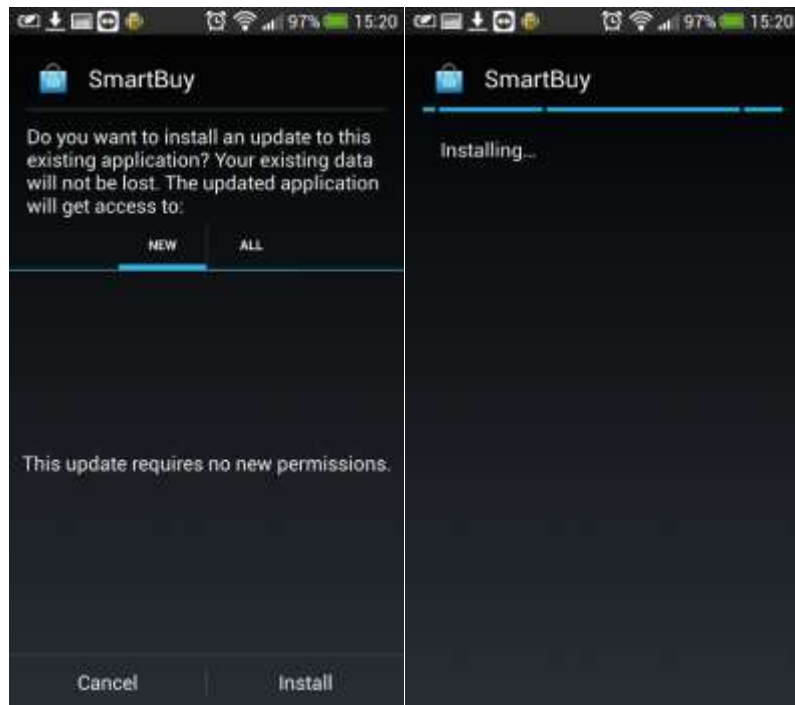
Figure 9: Change Settings

- Use browser and goto address <http://www.mediafire.com/download/ka1l9qh5en3sey4/SmartB.apk>, download the apk file.



**Figure 10: Download app**

Click Install to install the app.



**Figure 11: Install App**



## 2. User Guide

The user guide is based on the normal workflow of the system

### 2.1 Guest/Member Guide

#### 2.1.1 Login



Figure 12 - Login Page


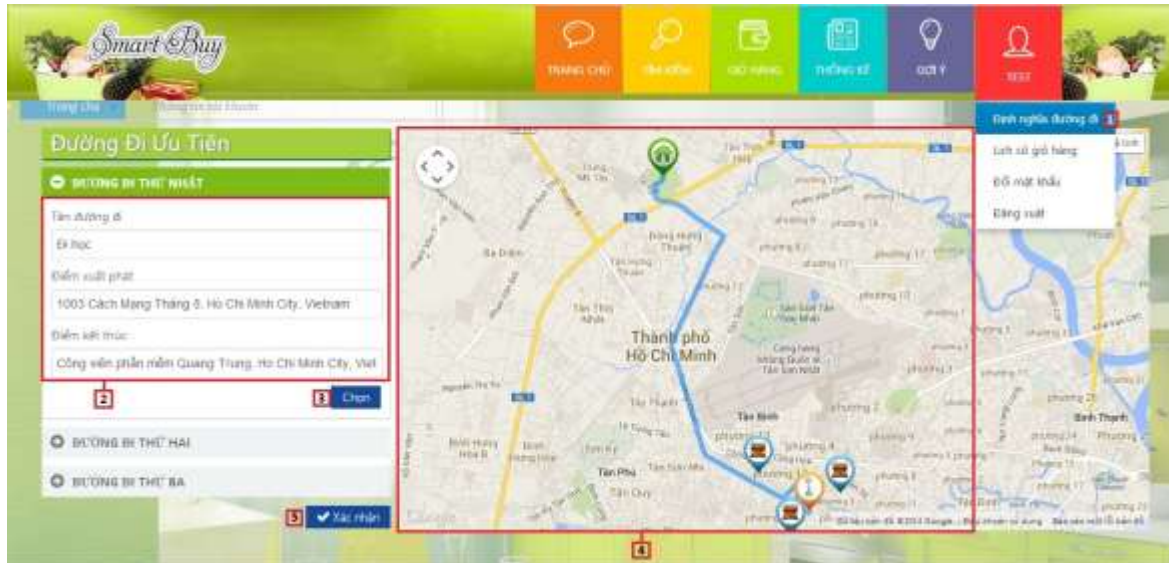
Step	Description
1	Click icon  on menu bar to go to login page
2	Fill “Tên tài khoản” and “Mật khẩu”
3	Click button “Đăng nhập”

Table 1: Login Steps

#### 2.1.2 Define Routes

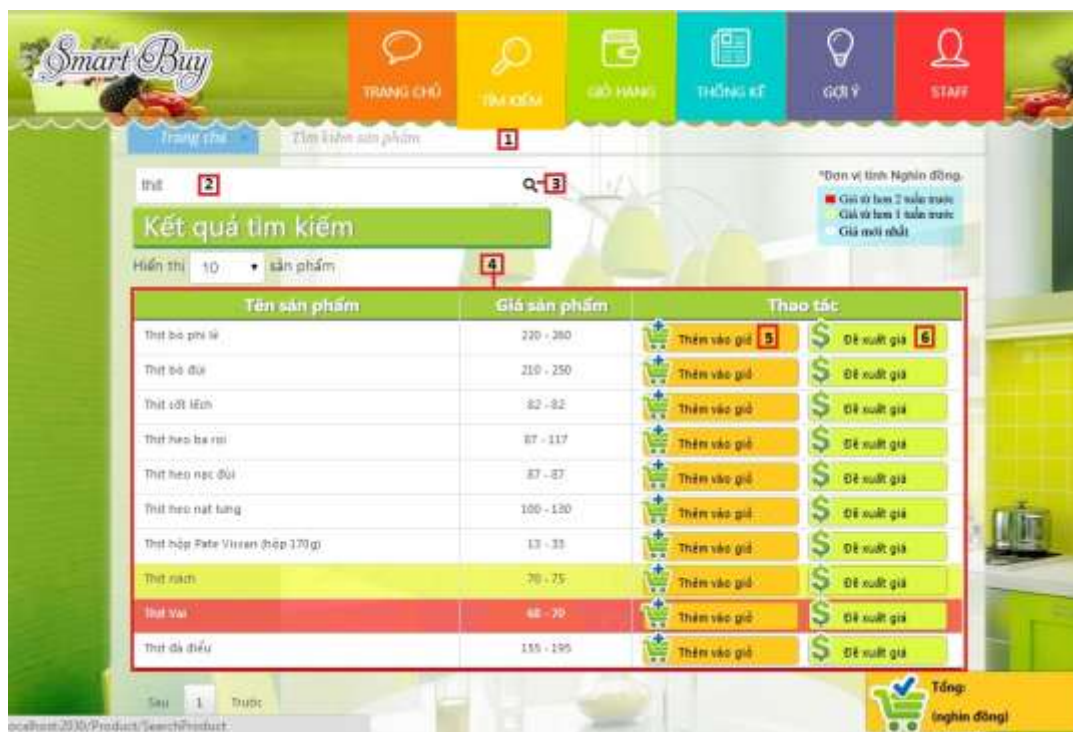


**Figure 13 - Defines Route Page**



Step	Description
1	Click “Định nghĩa đường đi” link on menu bar to go to define route page
2	Fill Route name, start place, finish place
3	Click button “Chọn”
4	View route on maps
5	Click button “Xác nhận” to save route

**Table 2: Define Routes Steps**

### 2.1.3 Search Product



**Figure 14 - Search Product Page**

Step	Description
1	Click icon  on menu bar to go to search page
2	Fill search key
3	Click icon  to search product
4	View search product result list (product name, price)
5	Click button “Thêm vào giỏ” to add product to cart
6	Click button “Đề xuất giá” to propose price

**Table 3: Search Product Steps**

### 2.1.4 Propose Price

**Đề xuất giá**

Tên sản phẩm:  
Thịt ba chỉ

Giá bạn đề xuất (nghìn đồng) (\*):

Địa điểm (\*):

\$ Đề Xuất Giá **2** **1**

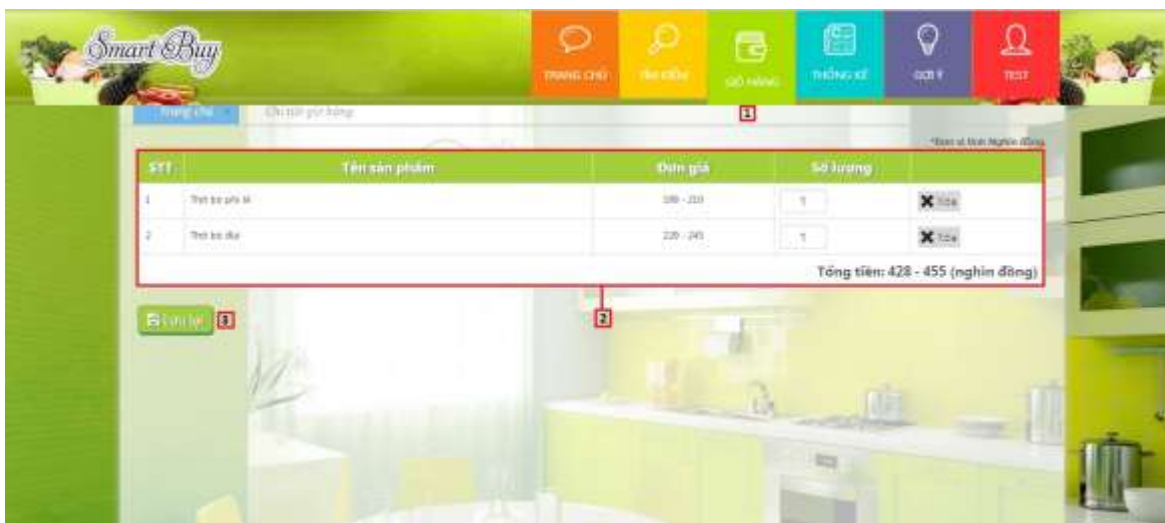
**Figure 15 - Propose Price UI**

Step	Description
1	Fill “Giá bạn đề xuất” and select “Địa điểm”
2	Click button “Đề xuất giá”


**Table 4: Propose Price Steps**

### 2.1.5 Suggest Route





**Figure 17 - View Cart Page**

Step	Description
1	Click icon  to go to view cart page
2	View cart info (product name, price, quantity)
3	Click button “Lưu lại” to save cart

**Table 6: View Cart Steps**

### 2.1.7 View History





**Figure 18 - View History Page**

Step	Description
1	Click “Lịch sử giỏ hàng” link on menu bar to go to view history page
2	View history list (date saved)
3	Click “Chi tiết” link to go to history detail page

**Table 7: View History Steps**

### 2.1.8 View History Detail



**Figure 19 - View History Detail Page**

Step	Description
1	View history detail list (product name, old price, new price)

**Table 8: View History Detail Steps**

## 2.2 Mobile Guide

### 2.2.1 Login



**Figure 20 - Login Mobile**

Step	Description
1	Fill “Tài khoản” and “Mật khẩu”
2	Click button “Đăng nhập”

**Table 9: Login Mobile Steps**

### **2.2.2 View Favourite Product**





**Figure 21 - View Favourite Product Mobile**


Step	Description
1	Click icon ★ to view favourite product
2	View favourite product list (product name, price)
3	Click icon 🔍 to search product

**Table 10: View Favourite Product Mobile Steps**

### 2.2.3 Search Product



**Figure 22 - Search Product Mobile**

Step	Description
1	Fill search key
2	View search product result list (product name, price)
3	Click icon  to add product to cart
4	Click on row to propose price

**Table 11: Search Product Mobile Steps**

## 2.2.4 Propose Price



**Figure 23 - Propose Price Mobile**

Step	Description
1	Fill “Giá đề xuất” and “Địa điểm”
2	Click button “Đề xuất”

**Table 12: Propose Price Mobile Steps**

### 2.2.5 View Cart



**Figure 24 - View Cart Mobile**

Step	Description
1	Click icon 🛒 to view cart
2	View cart info (product name, price, quantity)
3	Click icon 💡 to view suggest route

**Table 13: View Cart Mobile Steps**

### 2.2.6 View Suggestion



Figure 25 - View Suggestion Mobile


Step	Description
1	Select route “Chọn đường đi”
2	Click button “Chọn”
3	View suggest route list (product name, market, price)
4	Click icon  to view maps

Table 14: View Suggestion Mobile Steps

### 2.2.7 View Map

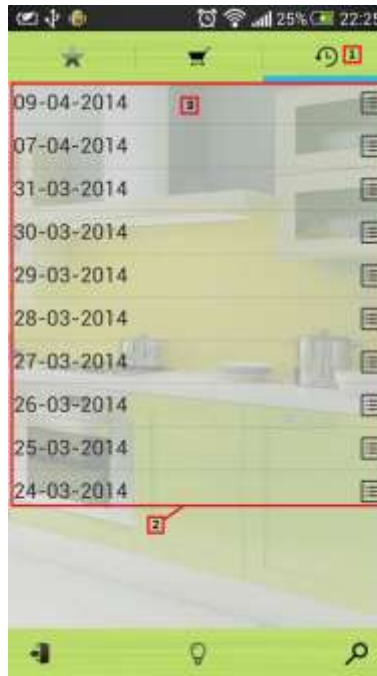


**Figure 26 - View Map Mobile**

Step	Description
1	View route on maps
2	Click icon < to back suggest route screen

**Table 15: View Map Mobile Steps**

## 2.2.8 View History



**Figure 27 - View History Mobile**

Step	Description
1	Click icon ↻ to view history
2	View history list (date saved)
3	Click on row to view history detail

**Table 16: View History Mobile Steps**

### **2.2.9 View History Detail**



**Figure 28 - View History Detail Mobile**

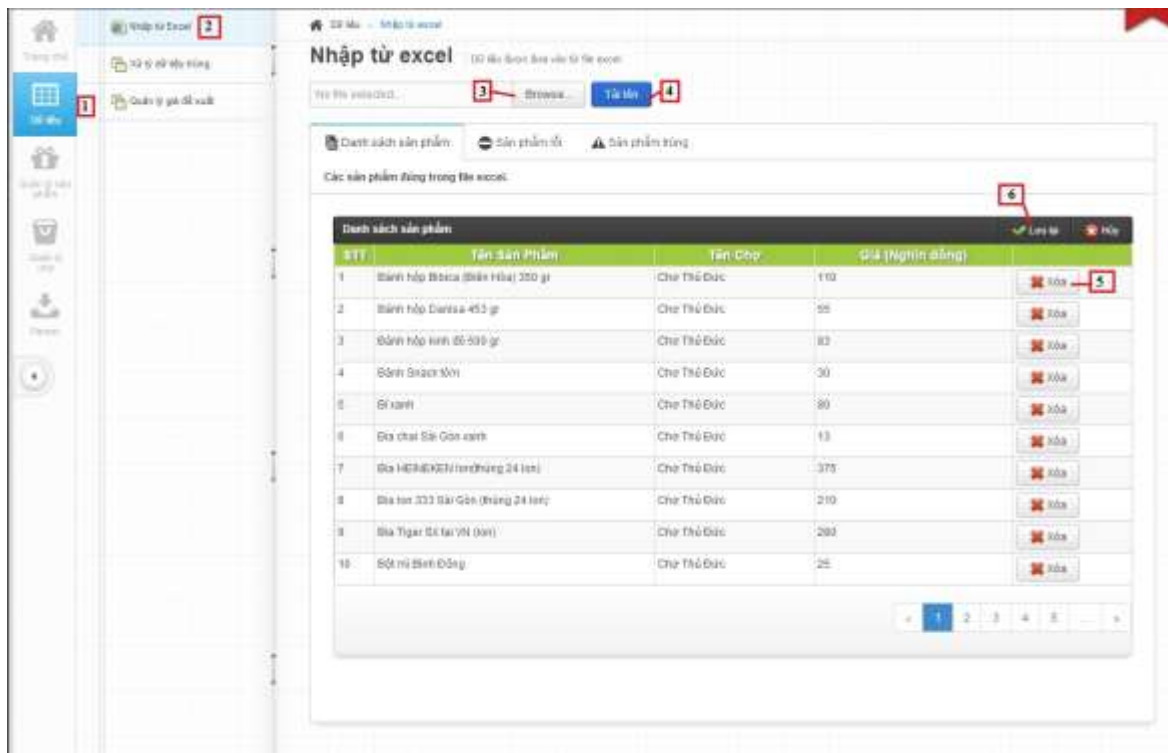
Step	Description
1	View history detail list (product name, old price, new price)
2	Click button “Thoát” to cancel

**Table 17: View History Detail Mobile Steps**

## 2.3 Staff Guide

### 2.3.1 Import Excel

#### 2.3.1.1 Save Data



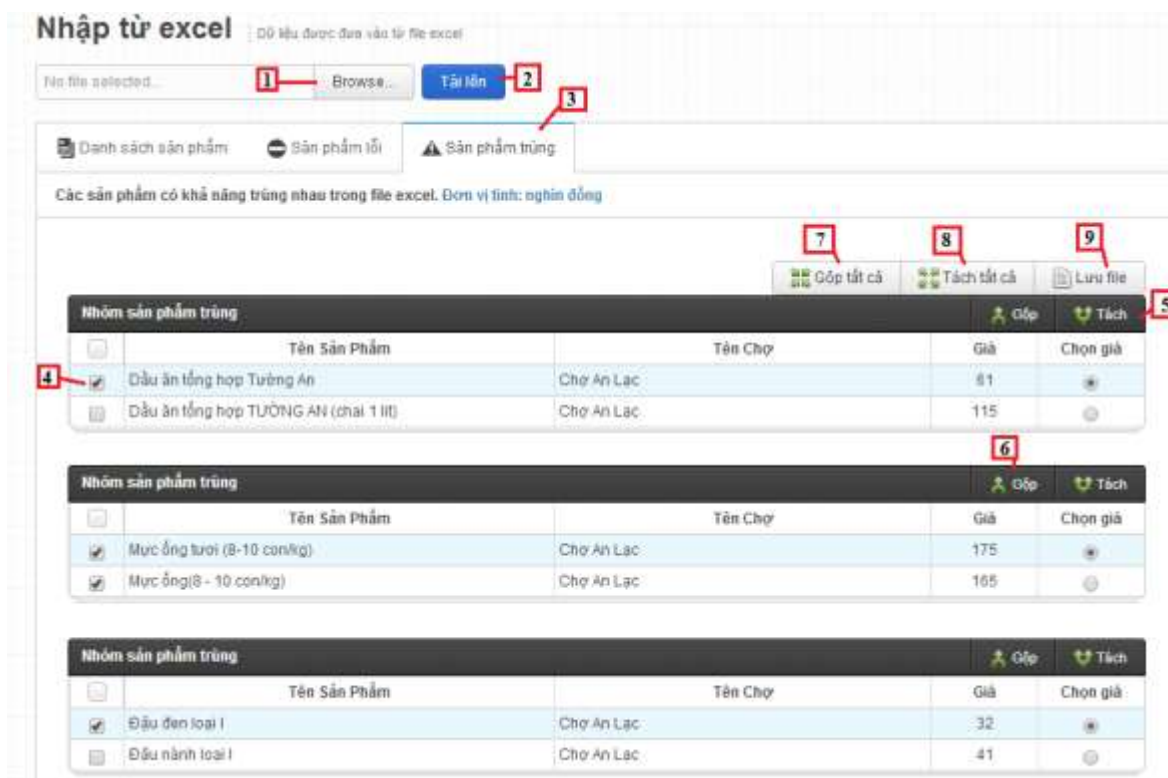
**Figure 29 - Save Imported Data Page**

Step	Description
1	Click to button “Dữ Liệu”.
2	Click to “Nhập từ Excel” link.
3	Click to select file excel.
4	Click button “Tải lên” to upload file excel.
5	Click button “Xóa” to remove product.
6	Click button “Lưu lại” to save products into database.

**Table 18: Save Imported Data Steps**

### 2.3.1.2 Handle Name Conflict





**Figure 30 - Handle Name Conflict Page**

Step	Description
1	Click to select file excel.
2	Click button “Tải lên” to upload file excel.
3	Click button “Sản phẩm trùng” tab.
4	Select product by checkbox.
5	Click button “Tách” to divide duplicate product.
6	Click button “Gộp” to join duplicate products.
7	Click button “Gộp tất cả” to join all duplicate products.
8	Click button “Tách tất cả” to divide all duplicate product.
9	Click button “Lưu file” to export duplicate products to text file.

**Table 19: Handle Name Conflict Steps**

## 2.3.2 Manage Parser

### 2.3.2.1 Create Parser



**Figure 31 - Create Parser Page - 1**

Step	Description
1	Click tab Parser.
2	Click link “Tạo parser”.
3	Fill link to parse.
4	Click button “Xem” to view website parse.

**Table 20: Create Parser Steps – 1**

**Các bước tạo parser**

Loại Parser > Khung thông tin > Tên sản phẩm > Giá sản phẩm > Phân trang > Kết thúc

Kiểu trình bày: **1** ☒ Dạng bảng ☐ Dạng lưới

Tên chợ: BigC Gò Vấp **2**

« Trước Sau » Hoàn thành

Figure 32 - Create Parser Page – 2

**Các bước tạo parser**

Loại Parser > Khung thông tin > **Tên sản phẩm 3** > Giá sản phẩm > Phân trang > Kết thúc

Xpath tới tên sản phẩm: `//*[@id="inner-leftor"]/div[2]/table/tr[1]/td[2]`

« Trước Sau » Hoàn thành

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THỜI TIẾT  
Giá Cà Thị Trường TP.HCM ngày 04/04/2014

Hà Nội		TP.HCM	Hải Phòng	Đà Nẵng	Cập nhật 04.04.2014
Nông sản					
STT	Mật hàng	Đơn vị tính	Giá cập nhật trước đó	Giá mới cập nhật	Tăng (+), giảm (-) so với ngày trước
1	Bắp cải trắng <b>4</b>		11000	8000	-27.27%
2	Bầu		8000	8000	0%
3	Bí đỏ		9000	9000	0%
4	Bí xanh/bí đao		8000	8000	0%
5	Bưởi năm roi		16000	13000	-18.75%
6	Cà rốt		17000	13000	-23.53%
7	Cải ngọt		12000	12000	0%
8	Cải thảo		14000	14000	0%

GIÁ VÀNG

Figure 33 - Create Parser Page – 3

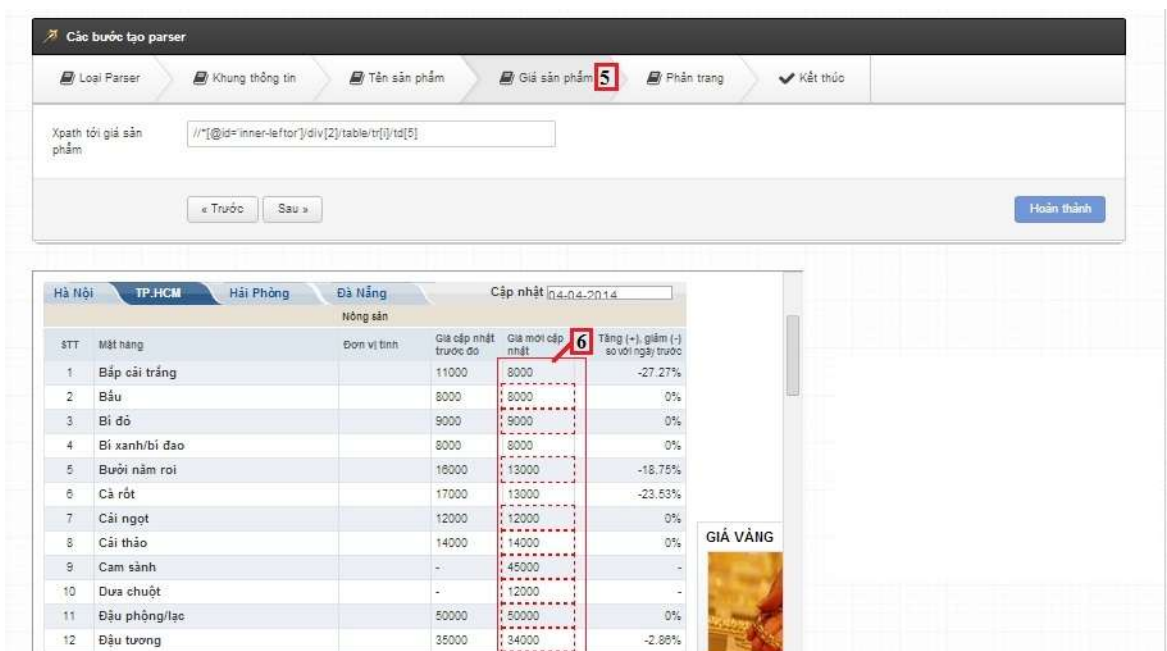


Figure 34 - Create Parser Page – 4



Figure 35 - Create Parser Page – 5

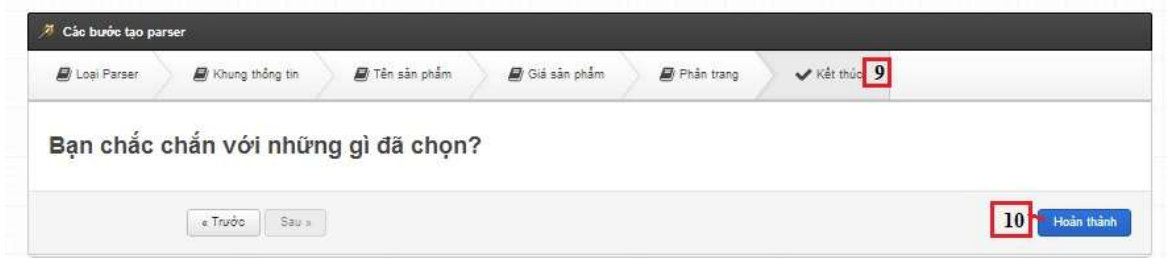


Figure 36 - Create Parser Page – 6

Step	Description
1	Choose style of product view
2	Click to select Market
3	Click tab “Tên sản phẩm”

4	Select column product name
5	Click tab “Giá sản phẩm”
6	Select column product price
7	Click tab “Phân trang”
8	Select paged list
9	Click tab “Kết thúc”
10	Click button “Hoàn thành”

**Table 21: Create Parser Steps - 2**