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| **BỘ GIÁO DỤC VÀ ĐÀO TẠO** |
| Đặc tả yêu cầu phần mềm |
| Trang tuyển dụng |
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| **Hà Nội ngày 27 tháng 3 năm 2012** |

**Lịch sử thay đổi**

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# Đặc tả yêu cầu người dùng

## Yêu cầu chung

* Mỗi người dùng có thể vào website theo 2 cách:

+ Sử dụng tài khoản của hệ thống

+ Sử dụng tài khoản như Google, Yahoo! (nhà tuyển dụng không thể sử dụng tính năng này)

* Mỗi người dùng có thể xem tất cả các công việc (Các công việc này đã được Admin kiểm tra) Và người dùng có thể phân loại công việc theo : Ngành nghề, tên công việc và nơi làm việc
* Mỗi người dùng có thể xem chi tiết của công việc được chỉ định
* Mỗi người dùng có thể xem danh sách và chi tiết của các thông tin tư vấn
* Mỗi người dùng có thể xem danh sách và chi tiết các câu hỏi thường gặp (FQA)
* Người dùng có thể đăng câu hỏi lên.

## Yêu cầu tìm kiếm

* Người dùng có thể tìm kiếm công việc bằng cách dựa vào phân loại như: Nơi làm việc, tên công việc…

## Yêu cầu nhà tuyển dụng

* Nhà tuyển dụng có thể tạo tài khoản trên hệ thống. Địa chỉ email và mật khẩu là bắt buộc cho việc đăng ký. Mỗi địa chỉ email chỉ được đăng ký 1 lần
* Nhà tuyển dụng có thể chỉnh sửa và giới thiệu thông tin về công ty của họ: Tên công ty, Nhân lực, Năm thành lập, Ngành nghề, Số điện thoại liên hệ, Website…
* Nhà tuyển dụng có thể thay đổi mật khẩu hoặc lấy mới mật khẩu trong trường hợp họ quên nó. Một thông báo (có đường dẫn tới trang thay đổi mật khẩu) sẽ được gửi tới địa chỉ email (đã đùng đăng ký)
* Nhà tuyển dụng có thể đăng tin công việc và các thông tin bao gồm: tên của công việc, mô tả công việc, ngành nghê, lương, nơi làm việc, liên hệ và mức lương
* Nhà tuyển dụng có thể cập nhật hoặc xóa các thông tin về các công việc mà họ đã đăng lên.
* Nhà tuyển dụng có thể đăng ký công việc như là 1 công việc VIP (hiển thị lên trên top đầu của trang)
* Nhà tuyển dụng có thể đăng ký công việc như là 1 công việc đã được đảm bảo
* Nhà tuyển dụng có thể xem danh sách người lao động đã ứng tuyển cho công việc mà họ đăng lên.
* Nhà tuyển dụng có thể xem thông tin cá nhân và profile của người lao động

## Yêu cầu về công việc

Công việc bao gồm các thông tin sau:

* Tên công việc (bắt buộc)
* Mô tả công việc và yêu cầu công việc (bắt buộc)
* Nơi làm việc (bắt buộc)
* Liên hệ
* Ngành nghê (tùy chọn)

# Đặc tả yêu cầu hệ thống

## External Interface Requirements Yêu cầu về giao diện bên ngoài

### Giao diện người dùng

Giao diện phải đủ đơn giản và đẹp để lôi cuốn sự chú ý của người dùng

Màu sắc phải hài hòa và lôi cuốn sự hứng thú của người dùng, tránh dùng các màu quá nóng hoặc khó nhìn. Áp dụng các quy tắc của lĩnh vực “Giao diện người máy” như: không sử dụng màu chữ là xanh trên nền đỏ hoặc không dùng màu xanh da trời và đỏ gần nhau.

Màu nền phải đơn giản, ít màu và không có hình ảnh bên dưới nếu có chữ ở trên.

Phông chữ phải dễ đọc và đủ lớn, màu chữ không được mờ ảo hoặc khó đọc.

Bố cục trang phải tinh tế và dễ sử dụng.

### Phần cứng

Website tuyển dụng phải chạy được trên nhiều thiết bị ngoại vi

Hệ thống phải hiển thị được nhìu định dạng ảnh như: jpg, png, jpeg

### Phần mềm

Không cần cài đặt bất kỳ ngôn ngữ lập trình nào trên thiết bị của người dùng

Ngoài ra, hệ thống cần sử dụng chương trình để quản lý tài nguyên hệ thống, chương trình này có thể kết nối tới hệ thống, có thể thay đổi và cập nhậy từ hệ thống. Dữ liệu phải được trao đổi giữa hệ thống và các dữ liệu bên ngoài thông qua phần mềm quản lý dữ liệu.

|  |  |  |
| --- | --- | --- |
| Tên phầm mềm | Phiên bản | Nguồn |
| Eclipse Helios SR2 | 32bits/64bits | Open source community |
| XAMPP include:   * Apache 2.2.21 * MySQL 5.5.16 (Community Server) * FileZilla 5.3.8 * Mercury | 2.5 | Open source community |
| Smarty |  | Template Engine library |

### Giao thức liên lạc

Hệ thống được biên dịch trên các trình duyệt, sử dụng giao thức chuẩn để liên lạc giữa người dùng và máy chủ.

Trong quá trình liên lac, một số thông tin quan trọng của người dùng sẽ được mã hóa bằng các thuật toán đặc biệt.

Bên cạnh thiết kế đồng bộ giwuax dữ liệu và hệ thống, tất cả các thành phần của hệ thống có thể truy cập dữ liệu vào bất cứ lúc nào.

Hệ thống sẽ sinh ra HTML được định dạng chuẩn như các trang mạng xã hội nổi tiếng như là Facebook, MySpace

Trang web phải dễ dàng cho các trạm tìm kiếm như là Google và Yahoo có thể tìm và lưu lại.

## Các tính năng của hệ thống

### Đăng nhập của người xin việc

#### Lược đồ Use Case



#### Đặc tả Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE – Log in of Employee SPECIFICATION** | | | | |
| **Use-case No.** | UC001 | **Use-case Version** | | 1.0 |
| **Use-case Name** | Log in of Employee | | | |
| **Author** |  | | | |
| **Date** | 29/03/2012 | **Priority** | High | |
| **Actor:**  Employee  **Summary:**  Employee must login to be able to use functions such as: update profile and apply jobs that he/she wants... There are 2 ways to login into website; the first way is register one account on system. The second way is logon via third party account: Yahoo or Google.  **Goal:**  Allow guest login to website.  **Triggers**  Click to “Đăng nhập” at log in area on top right corner of the website  **Preconditions:**  Access to the website  **Post Conditions:**  Employee logged to system  **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng nhập” at log in area on top right corner of the website | Redirect user to log in page | | 2 | Enter Username, password |  | | 3 | Click to “Đăng nhập” button | Navigate the user back to previous page |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng nhập” at log in area on top right corner of the website | Redirect user to log in page | | 2 | Select Google or Yahoo image to login | Redirect to log in page belong to Goole or Yahoo | | 3 | Enter third party account’s username & password correctly |  | | 4 | Click to “Đăng nhập” button | notification message will be showed to confirm if the user really want to use this account to login to the system | | 5 | Click to “Có” button | Navigate the user back to previous page |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng nhập” at log in area on top right corner of the website | Redirect user to log in page | | 2 | Enter wrong user name, password |  | | 3 | Click to “Đăng nhập” button | Show error message “Bạn hãy sửa những lỗi bên dưới và thử lại.   * Incorrect username or password.” |  |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng nhập” hyperlink at home page | Redirect user to log in page | | 2 | Select Google or Yahoo image to login | Popup is displayed and require user enter username & password | | 3 | Enter wrong third party account’s username or password |  | | 4 | Click to “Đăng nhập” button | Show error message, require the user re-enter user name and password |   **Relationships:**  **Business Rules:**   |  |  |  | | --- | --- | --- | | **No** | **Rule Description** | **Error Message** | | 1 | In order to log in to the system, user name and password are required. |  | | | | | |
| **Description:**  There are functions that required employees log in to the system to be able to use such as update their profile and apply for appropriate jobs … Employee needs to click on “Đăng nhập” button on log in panel at top right corner of the website. The system will navigate user to Log in page. Log in page gives user 3 choices for logging in: using google account, using yahoo account or using system account.  + Click to Google icon, the user will log in through Google account system.  + Click to Yahoo icon, the user will log in through Yahoo account system.  + To log in through account registerd at our website, user need fill in yout email address and password.  If you check “Tự động đăng nhập lần sau”, your account info will be saved into cookie. And next time when you access the website again, you don’t need to log in cause the system will auto recognize you.  The user can change his/her password incase he/she forgot it by clicking to “Quên mật khẩu” hyperlink. | | | | |

**Screen**

**(N/A)**

**Data Fields Definition**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field name** | **Description** | **Read**  **Only** | **Mandatory** | **Control Type** | **Data Type** | **Length** |
| **System Account Area with title “Sử dụng tài khoản của website”** | | | | | | |
| Email label | A label with content “Email” | - | - | Label | String | Fixed |
| Email | Email address used for registering | - | Y | Textbox | String | 100 |
| Password label | A label with content “Mật khẩu” | - | - | Label | String | Fixed |
| Password | Users enter your password to login into website.  Displayed text is password | - | Y | Textbox | String | 50 |
| Remember me | A check box with content “Tự động đăng nhập lần sau” | - | - | Checkbox | Boolean | fixed |
| Register label | A label with content “Bạn chưa có tài khoản?” + “[Đăng ký](http://place.vn/account/register) “hyperlink + “chỉ trong vài giây.” | - | - | Label | String | Fixed |
| **3rd party account area with title “Đăng nhập với tài khoản”** | | | | | | |
| Google | User click it to logon website by Google account | Y | - | Image | - | - |
| Yahoo | User click it to logon website by Yahoo account | Y | - | Image | - | - |

**Buttons / Hyperlinks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Description** | **Available Criteria** | **Validations** | **Outcome** |
| Log in Button | This button is used for log in into the system | Always available | No validation | Redirected back to previous page with user name appear on log in area instead of “Đăng nhập” and “Đăng kí” button |
| Register hyperlink | When clicked guest is navigated to register page to create new account in website | Always available | No validation | Redirect to register page |
| Forgot password hyperlink | User navigated to forgot password page when clicked | Always available | No validation | navigated the user to forgot password page |

### Register an Employee account

#### Lược đồ Use Case



#### Đặc tả Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE – Register an Employee account SPECIFICATION** | | | | |
| **Use-case No.** | UC002 | **Use-case Version** | | 1.0 |
| **Use-case Name** | Register an Employee account | | | |
| **Author** |  | | | |
| **Date** | 29/03/2012 | **Priority** | High | |
| **Actor:**  Employee  **Summary:**  Because of permission of guest is limited. So guest must register an account to become employee and to be able to update profile and apply jobs  **Goal:**  Register an employee account in the system.  **Triggers**  Click to “Đăng kí” button on log in area at top right corner of the website  **Preconditions:**  Access to the website  **Post Conditions:**  Navigate the user back to home page.  **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng kí” button on log in area at top right corner of the website | Website navigate the user to register page | | 2 | Type in email address correctly |  | | 3 | Enter password correctly |  | | 4 | Re-eter password into confirm password textbox correctly |  | | 5 | Enter full name, Birthday, Gender, City, |  | | 6 | Click to “Đăng kí” button | Send activation email to registered email address and redirect to Success page |   **Alternative Scenario: -**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng kí” button on log in area at top right corner of the website | Website navigate the user to register page | | 2 | Type in email address **in wrong format** | Display error message “Địa chỉ Email không đúng.” |  |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng kí” button on log in area at top right corner of the website | Website navigate the user to register page | | 2 | Type in email address correctly |  | | 3 | Enter password correctly |  | | 4 | Re-enter password into confirm password textbox **mistakenly** | Display error message “'Nhập lại mật khẩu' và 'Mật khẩu' phải giống nhau.” |  |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng kí” button on log in area at top right corner of the website | Website navigate the user to register page | | 2 | Type in **used** email address | check email format | | 3 | Enter password correctly |  | | 4 | Re-enter password into confirm password textbox correctly |  | | 5 | Enter full name, Birthday, Gender, City |  | | 6 | Click to “Đăng kí” button | Display error message” Bạn hãy sửa những lỗi bên dưới và thử lại.   * Địa chỉ email đã tồn tại” |   **Relationships:**  Forget password function  **Business Rules:**   |  |  |  | | --- | --- | --- | | **No** | **Rule Description** | **Error Message** | | 1 | In order to register a new account, email address, password and confirm password is required. |  | | 2 | One email address can only be used for registering once |  | | | | | |
| **Description:**  In order to has full access to our website, user need to log in by using Google account or Yahoo account or register a system account. To register an account on our system, user needs to have a vaild email address. This email address must exist to be able to get activation email from the system. Each email can only be used for registering once, you can use it again. After register an account, you must log in to your email to find validation email. In this email, we send to you an activation link. Click to that link will active your account. An unactived account will get limited access on our website | | | | |

**Screen**

N/A

**Data Fields Definition – Attach Place Page**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field name** | **Description** | **Read**  **Only** | **Mandatory** | **Control Type** | **Data Type** | **Length** |
| Signup label | A label with content “Thông tin tài khoản” | - | - | Label | String | Fixed |
| Email label | A label with content “Email (xác nhận đăng ký sẽ được gửi tới địa chỉ này) ” | - | - | Label | String | Fixed |
| Email | Email address used for registering | - | Y | Textbox | Text | 50 |
| Password label | A label with content “Mật khẩu (tối thiểu 6 ký tự) ” | - | - | Label | String | Fixed |
| Password | This text box for enter password | - | Y | Textbox | Text | 50 |
| Confirm label | A label with content “Nhập lại mật khẩu” | - | - | Label | String | Fixed |
| Confirm password | This text box for enter confirm password | - | Y | Textbox | Text | 50 |
| Personal Information label | A label with content “Thông tin cá nhân” | - | - | Label | String | Fixed |
| Name label | A label with content “Họ tên” | - | - | Label | String | Fixed |
| Name | This text box for enter Name | - | Y | Textbox | Text | 80 |
| Birthday label | A label with content “Ngày tháng năm sinh” | - | - | Label | String | Fixed |
| Birthday | This datetime picker for selecting birthday | - | Y | DateTime Picker | DateTime |  |
| City label | A label with content “Thành phố” | - | - | Label | String | Fixed |
| City | This listbox for selecting city | - | Y | Listbox | Text |  |
| Agreement | This label contains: “Bằng việc click vào nút "Đăng ký" bạn cũng đồng thời chấp thuận các điều khoản trong” + “[Quy định sử dụng dịch vụ](http://place.vn/home/termsofservice)” hyperlink | Y | Y | Checkbox | True/False | - |

**Buttons / Hyperlinks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Description** | **Available Criteria** | **Validations** | **Outcome** |
| Register button | When clicked all information which entered by user is submitted to website to create new account. | Always available | Enter valid information | Send activation email to registered email address and redirect to Success page |
| Policies hyperlink | This link will open policies page | Always available | No validation | Redirect user to Terms of Service page |

### Log In of Employer

#### Lược đồ Use Case



#### Đặc tả Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE – Log in of Employee SPECIFICATION** | | | | |
| **Use-case No.** | UC003 | **Use-case Version** | | 1.0 |
| **Use-case Name** | Log in of Employer | | | |
| **Author** |  | | | |
| **Date** | 29/03/2012 | **Priority** | High | |
| **Actor:**  Employer  **Summary:**  Employer must login to be able to use functions such as: update profile of company, posted job for recruitment and view the information of candidates.  **Goal:**  Allow guest login to website.  **Triggers**  Click to “Đăng nhập” at log in area on top right corner of the website  **Preconditions:**  Access to the website  **Post Conditions:**  Employee logged to system  **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng nhập” at log in area on top right corner of the website | Redirect user to log in page | | 2 | Enter Username, password |  | | 3 | Click to “Đăng nhập” button | Navigate the user back to previous page |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng nhập” at log in area on top right corner of the website | Redirect user to log in page | | 2 | Enter wrong user name, password |  | | 3 | Click to “Đăng nhập” button | Show error message “Bạn hãy sửa những lỗi bên dưới và thử lại.   * Incorrect username or password.” |   **Relationships:**  **Business Rules:**   |  |  |  | | --- | --- | --- | | **No** | **Rule Description** | **Error Message** | | 1 | In order to log in to the system, user name and password are required. |  | | | | | |
| **Description:**  There are functions that required employers log in to the system to be able to use such as : update profile of company, posted job for recruitment and view the information of candidates. … Employee needs to click on “Đăng nhập” button on log in panel at top right corner of the website. The system will navigate user to Log in page. Log in page gives user 3 choices for logging in: using google account, using yahoo account or using system account.  + Click to Google icon, the user will log in through Google account system.  + Click to Yahoo icon, the user will log in through Yahoo account system.  + To log in through account registerd at our website, user need fill in yout email address and password.  If you check “Tự động đăng nhập lần sau”, your account info will be saved into cookie. And next time when you access the website again, you don’t need to log in cause the system will auto recognize you.  The user can change his/her password incase he/she forgot it by clicking to “Quên mật khẩu” hyperlink. | | | | |

**Screen**

**(N/A)**

**Data Fields Definition**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field name** | **Description** | **Read**  **Only** | **Mandatory** | **Control Type** | **Data Type** | **Length** |
| **System Account Area with title “Sử dụng tài khoản của website”** | | | | | | |
| Email label | A label with content “Email” | - | - | Label | String | Fixed |
| Email | Email address used for registering | - | Y | Textbox | String | 100 |
| Password label | A label with content “Mật khẩu” | - | - | Label | String | Fixed |
| Password | Users enter your password to login into website.  Displayed text is password | - | Y | Textbox | String | 50 |
| Remember me | A check box with content “Tự động đăng nhập lần sau” | - | - | Checkbox | Boolean | fixed |
| Register label | A label with content “Bạn chưa có tài khoản?” + “[Đăng ký](http://place.vn/account/register) “hyperlink + “chỉ trong vài giây.” | - | - | Label | String | Fixed |
| **3rd party account area with title “Đăng nhập với tài khoản”** | | | | | | |
| Google | User click it to logon website by Google account | Y | - | Image | - | - |
| Yahoo | User click it to logon website by Yahoo account | Y | - | Image | - | - |

**Buttons / Hyperlinks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Description** | **Available Criteria** | **Validations** | **Outcome** |
| Log in Button | This button is used for log in into the system | Always available | No validation | Redirected back to previous page with user name appear on log in area instead of “Đăng nhập” and “Đăng kí” button |
| Register hyperlink | When clicked guest is navigated to register page to create new account in website | Always available | No validation | Redirect to register page |
| Forgot password hyperlink | User navigated to forgot password page when clicked | Always available | No validation | navigated the user to forgot password page |

### Register an Employer account

#### Lược đồ Use Case



#### Đặc tả Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE – Register an Employer account SPECIFICATION** | | | | |
| **Use-case No.** | UC004 | **Use-case Version** | | 1.0 |
| **Use-case Name** | Register an Employer account | | | |
| **Author** |  | | | |
| **Date** | 29/03/2012 | **Priority** | High | |
| **Actor:**  Employee  **Summary:**  Because of permission of guest is limited. So guest must register an account to become employer and update profile of company, posted job for recruitment and view the information of candidates.  **Goal:**  Register an employer account in the system.  **Triggers**  Click to “Đăng kí” button on log in area at top right corner of the website  **Preconditions:**  Access to the website  **Post Conditions:**  Navigate the user back to home page.  **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng kí” button on log in area at top right corner of the website | Website navigate the user to register page | | Input login information | | | | 2 | Type in email address correctly |  | | 3 | Enter password correctly |  | | 4 | Re-enter password into confirm password textbox correctly |  | | Input company’s information | | | | 5 | Enter Company name, Description (Established Date, Resource, City…) |  | | 6 | Click to “Đăng kí” button | Send activation email to registered email address and redirect to Success page |   **Alternative Scenario: -**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng kí” button on log in area at top right corner of the website | Website navigate the user to register page | | 2 | Type in email address **in wrong format** | Display error message “Địa chỉ Email không đúng.” |  |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng kí” button on log in area at top right corner of the website | Website navigate the user to register page | | 2 | Type in email address correctly |  | | 3 | Enter password correctly |  | | 4 | Re-enter password into confirm password textbox **mistakenly** | Display error message “'Nhập lại mật khẩu' và 'Mật khẩu' phải giống nhau.” |  |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Đăng kí” button on log in area at top right corner of the website | Website navigate the user to register page | | 2 | Type in **used** email address | check email format | | 3 | Enter password correctly |  | | 4 | Re-enter password ino confirm password textbox correctly |  | | 5 | Enter Company name, Description (Established Date, Resource, City…) |  | | 6 | Click to “Đăng kí” button | Display error message” Bạn hãy sửa những lỗi bên dưới và thử lại.   * Địa chỉ email đã tồn tại” |   **Relationships:**  Forget password function  **Business Rules:**   |  |  |  | | --- | --- | --- | | **No** | **Rule Description** | **Error Message** | | 1 | In order to register a new account, email address, password and confirm password is required. |  | | 2 | One email address can only be used for registering once |  | | | | | |
| **Description:**  In order to have full access with employer role in our website, user need to register an account on our system, user needs to have a vaild email address. This email address must exist to be able to get activation email from the system. Each email can only be used for registering once, you can use it again. After register an account, you must log in to your email to find validation email. In this email, we send to you an activation link. Click to that link will active your account. An unactived account will get limited access on our website | | | | |

**Screen**

N/A

**Data Fields Definition – Attach Place Page**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field name** | **Description** | **Read**  **Only** | **Mandatory** | **Control Type** | **Data Type** | **Length** |
| Account label | A label with content “Thông tin tài khoản” | - | - | Label | String | Fixed |
| Email label | A label with content “Email (xác nhận đăng ký sẽ được gửi tới địa chỉ này) ” | - | - | Label | String | Fixed |
| Email | Email address used for registering | - | Y | Textbox | Text | 50 |
| Password label | A label with content “Mật khẩu (tối thiểu 6 ký tự) ” | - | - | Label | String | Fixed |
| Password | This text box for enter password | - | Y | Textbox | Text | 50 |
| Confirm label | A label with content “Nhập lại mật khẩu” | - | - | Label | String | Fixed |
| Confirm password | This text box for enter confirm password | - | Y | Textbox | Text | 50 |
| Company label | A label with content “Thông tin công ty” | - | - | Label | String | Fixed |
| Company Name label | A label with content “Tên Công ty” | - | - | Label | String | Fixed |
| Company name | This text box for enter Company name | - | Y | Textbox | Text | 100 |
| Company Description label | A label with content “Thông tin về công ty” | - | - | Label | String | Fixed |
| Company Description | This text box for enter Company Description | - | Y | Textbox | Text | 1000 |
| Agreement | This label contains: “Bằng việc click vào nút "Đăng ký" bạn cũng đồng thời chấp thuận các điều khoản trong” + “[Quy định sử dụng dịch vụ](http://place.vn/home/termsofservice)” hyperlink | Y | Y | Checkbox | True/False | - |

**Buttons / Hyperlinks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Description** | **Available Criteria** | **Validations** | **Outcome** |
| Register button | When clicked all information which entered by user is submitted to website to create new account. | Always available | Enter valid information | Send activation email to registered email address and redirect to Success page |
| Policies hyperlink | This link will open policies page | Always available | No validation | Redirect user to Terms of Service page |

### Log Out

#### Lược đồ Use Case



#### Đặc tả Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE – Log out SPECIFICATION** | | | | |
| **Use-case No.** | UC005 | **Use-case Version** | | 1.0 |
| **Use-case Name** | Log out | | | |
| **Author** |  | | | |
| **Date** | 29/03/2012 | **Priority** | High | |
| **Actor:**  User  **Summary:**  After done using the website and plan to leave, the user can log out of the system.  **Goal:**  Allow users log out website  **Triggers**  Click on “Thoát” at log in area on top right corner of the website  **Preconditions:**  Logged into the system  **Post Conditions:**  Display the user as guest  **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | click “Thoát” button | Redirect to home page, “Đăng nhập” and “Đăng kí” button appear instead of user name, user point and “Thoát” button on log in area at top right corner of the website |   **Alternative Scenario:**  None  **Exceptions:**  None  **Relationships:**  Login function  **Business Rules:**  None | | | | |

**Buttons / Hyperlinks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Description** | **Available Criteria** | **Validations** | **Outcome** |
| Logout hyperlink | By clicking this user will log out of website |  |  | Displayed user as guest |

### Reset Forgot Password

#### Lược đồ Use Case



#### Đặc tả Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE – Reset forgot password SPECIFICATION** | | | | |
| **Use-case No.** | UC006 | **Use-case Version** | | 1.0 |
| **Use-case Name** | Reset Forgot Password | | | |
| **Author** |  | | | |
| **Date** | 29/03/2012 | **Priority** | High | |
| **Actor:**  User  **Summary:**  By some reasons, registered user forgot their password and wanted to recovery this. When user report forgot password, website send confirm email to the user. The user clicks confirm reset password in email, after that system will reset user password and sent new password in email to user.  **Goal:**  Reset user’s password.  **Triggers**  Click to “Quên mật khẩu” hyperlink  **Preconditions:**  Access to the website and open log in page  **Post Conditions:**  Stay remains at forgot pass page with notification ask user check for new email with new password  **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Quên mật khẩu” hyperlink | navigate user to forgot password page | | 2 | Type email address into email address textbox |  | | 3 | Click to “Quên mật khẩu” button | Confirm email sent to user. Website show message to inform the user check email to confirm resetting his/her password | | 4 | User click confirm hyperlink in email | Redirect the user to reset password page | | 5 | Enter new password and confirm password |  | | 5 | Click to “Thay đổi” button | New password is saved |   **Alternative Scenario:**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Click to “Quên mật khẩu” hyperlink | navigate user to forgot password page | | 2 | Type invalida email address into email address textbox |  | | 3 | Click to “Tạo mật khẩu mới” button | Display error message, inform the user that he/she justentered an invalid email address |     **Relationships:**  **Business Rules:**   |  |  |  | | --- | --- | --- | | **No** | **Rule Description** | **Error Message** | | 1 | Email address is required to be able to reset pasword |  | | 2 | Confirm link will be sent through email |  | | | | | |
| **Description:**  The system allows user change password when they forgot it. User goes to log in page at PSN website and click “Quên mật khẩu” hyperlink to get redirected to Forgot Password page. Users need enter their email address, system will check this email is registered or not. If valid, one email is sent to user with reset password link. Follow this link, user is navigated to reset password page. In here, user selects “Tạo mật khẩu mới” button, the system will replace your password with the new one. | | | | |

**Screen**

**N/A**

**Data Fields Definition – Attach Place Page**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field name** | **Description** | **Read**  **Only** | **Mandatory** | **Control Type** | **Data Type** | **Length** |
| **Forgot password area with title “Quên mật khẩu?”** | | | | | | |
| Email label | A label with content “Email (xác nhận sẽ được tới địa chỉ này) ” | - | - | Label | String | Fixed |
| Email | Email address used for get reset password link | - | Y | Textbox | String | 254 |
| **Reset password area with title “Khởi tạo mật khẩu”** | | | | | | |
| New password label | A label with content “Mật khẩu (tối thiểu 6 ký tự) ” | - | - | Label | String | Fixed |
| New password | password that will replace old password | - | Y | Textbox | String | 100 |
| Confirm password label | A label with content “Nhập lại mật khẩu” | - | - | Label | String | Fixed |
| Confirm password | Confirm password | - | Y | Button | String | 100 |

**Buttons / Hyperlinks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Description** | **Available Criteria** | **Validations** | **Outcome** |
| forgot password | When clicked a mail with link used for resetting will be sent to user email address | Always available | Email can’t be blank | Notification message is displayed to inform that user check email and follow hyperlink to generate new password |
| Reset password | Using button will save new password instead of the old one | Always available | Password and confirm password can’t be blank | Notification message is displayed to inform that new password is generated and is sent to user’s email. |

## Software System Attributes

### Usability

**GUI**

* All the text, image text and help documents should be in Vietnamese.
* The interface should be elegant, simple and out-standing.
* All images must also provide alt attribute.

**Usability for end-users**

* Searching tool should be easy to use.
* The website must provide a help page to support novice users.
* Users can use main functionality of the system without logging in to the system.
* The system should remember information (but not confidential) that users have to provide regularly. For example: name, address…

**Usability for admin and staff**

* Website admin and shop’s staff should need no more than one day of training to be productive with the system.
* Detailed help must be available for the admin and staff, both in web pages and separate documentations.

**Installation**

* The system must be easy to deploy. Customer can deploy successfully and learn to configure, maintain the system within one day of training.
* The documentation for installation must be included. It describes detailed steps for installing or deploying the system. The customer can follow the steps without direct help from the developing team.

### Reliability

* Initial data must be collected carefully and correctly
* The database must be backed up regularly and can be recovered if necessary
* Have a good spam filter
* Rating system must be reliable
* Not conflict with other software
* Rate of fault occurrence (ROFO): a number of 0.005 is acceptable. It means that it is acceptable to have 5 failures happen in each 1000 operational time units (e.g. 5 failures per 1000 hours of operation).
* Mean Time Between Failures (MTBF): 1 month
* Mean Time To Repair (MTTR): immediately when admin finds out problem or website is attacked by someone. Average 1 day.
* Accuracy: precision of floating number should be rounded to 0.01. All currency units must be displayed (e.g. $, VND…)
* Maximum Bugs or Defect Rate: 5 bugs / KLOC.
* Bugs or Defect Rate
  + Minor bugs: bugs related to GUI
  + Significant bugs: bugs related to minor business logic
  + Critical *bugs: function can’t execute correctly, completely loss of data, disconnect to the server*

### Availability

* Systems have to run 24 hours 7 days
* Can be turned off when upgrading and must display an alternative maintenance page in such occasions
* Percentage of time available is about 95-97%. Because the system uses client/server protocol through Internet network, we cannot control cases of force majeure such as power failure, disconnected network…

### Security

* Privacy: the system should provide protection method for protecting user information from outside or from other users. All the information of users must not be available for anyone or software that is not part of the system. User password is also invisible for the system administrator.
* The system must provide methods to prevent common security attacks. E.g. SQL injection, D-Dos…
* Transformation of confidential information must be encrypted.
* The system must provide secure methods for users to recovery their password, including the interference of system’s admin.
* Secure information of customers should not be stored on customer’s machine.
* Utilize certain cryptographic techniques for database
* Provide options for users to choose whether to share private information
* Restrict communications between some areas of the program
* Check data integrity for critical variables
* Must use secure connection (SSL) for transferring sensitive data

### Maintainability

**Coding standards and naming conventions**

* Output of the project must include coding standards and naming conventions documentations. Implementation code must be easy to maintain.
* All code must be clearly commented, including class, method documentations.
* If some components are reused, the documentations of those components must also be included.

**Design**

* The design of the system must be loosely coupled that chances on some module will not affect others.

**Logging**

* All the errors should be logged, supporting for bug fixing and maintenance.
* All strange or sensitive situations should also be logged.

**Email**

* The system must provide an email address to receive customer feedback or send emails.

### Portability

* Website can be used by any people with a browser and an Internet connection.

### Performance

**Load time**

* Every page should be completely displayed within: average 1.5 second and maximum 5 seconds.
* Searching should return and display the result within 2 seconds.
* Comments and rating and the like should affect immediately, without reloading the web page.
* Frequently accessed data must be cached
* Reference *data must be cached*

**Mailing system**

* Mail server should send emails within 1 minute after associated events happen.

**Capacity**

* The system should serve correctly and reasonably with at least 1000 online users at a moment.
* The system can store at least 100000 places and 10000 users without affecting the loading speed.
* If the system is busy, it has to inform users about that.

**Compatibility**

* The system should provide elegant responses for nowadays common screen resolutions: 1024\*768, 1280\*800.
* The output must be compatible with all common browsers: Mozilla Firefox, Internet Explorer, Google Chrome, Apple Safari, and Opera.
* Information of the system can be accessed by searching bots.

# References

[1] Wikipedia, 2011, 'Use case', 8 February, viewed 10 February 2011

<<http://en.wikipedia.org/wiki/Use_case>>

[2] Jeff Atwood,  2011, 'Suggested Edits and Edit Review' blog, February 5th, Stack Exchange, viewed 10 February 2011

<<http://blog.stackoverflow.com/2011/02/suggested-edits-and-edit-review>>