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| --- |
| **Ministry of education and training** |
| Software Requirement Specifications |
| Recruitment Website |
|  |
| |  |  | | --- | --- | |  | | |  |  | |  |  | |  |  | |  |  | |
| **Hanoi, 27th Mar, 2012** |

**Record of Changes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Change Item** | **Description** | **By** | **Version** |
| 2012/03/28 | Add new | Construct this document |  | 0.1 |
| 2012/03/28 | Add new | User Requirement Specification |  | 0.2 |
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# User Requirement Specification

## General Requirements

* Every user can access to website by 2 ways:

+ Using the account which is registered in this website

+ Using the openID like Google, Yahoo!, Facebook (the employer cannot use this feature, only available for employee)

* Every user can view all of checked jobs (Jobs were approved by Admin). And can classify job by many categories like: Fields, Job Name, and Workplace.
* Every user can view detail of specified job
* Every user can view list news and detail of news
* Every user can view list FQA and detail of FQA
* User can post the question.

## Search Requirement

* User can search the job by specifying the category like: Workplace, Job Name…

## Employer Requirements

* Employer can create accounts on website. Email address and password are mandatory for registration. Only one email is used once time for new registration.
* Employer can edit and introduce information about his/her company: Company’s name, Size, Established year, human resources, fields, telephone number, website.
* Employer can change password or get new password in the case he/she forgot it.The new alert link will be sent to his/her email and this link will link to the Change Password page.
* Employer can post new jobs, information are: name of job, job category, description, salary, dealine, workplace, contact
* Employer can update/delete information of their posted jobs.
* Employer can register their jobs as VIP jobs
* Employer can register their jobs as certified jobs
* Employer can view list of employees who applied for their job
* Employer can view profile of employee

## Job Requirements

A job has following information:

* Job requirement (required)
* Job description (required)
* City/province (required)
* Contact
* Job category (optional)

# System Requirement Specification (Specific Requirements)

## External Interface Requirements

### User Interfaces

Interface needs to be simple enough to attract the users’ attention and also to be beautiful to make user feel comfortable when accessing this website.

The color was choosen should be pleasing to the eyes and stimulate the user’s interest. Avoid some so hot colors.Apply the rules of using colors in “Human computer interaction” field for example: not use blue text on red background or not use red and blue for adjacent regions.

Background color is simple, less color and no image if there are texts above.

Text is easy to read and big enough, text color is not blur or difficult to see.

The look and feel of this website should be based on user requirements. Page layout and navigation should be as intuitive and easy as possible.

### Hardware Interfaces

Recuitment website needs to run are the peripheral devices mouse and keyboard.

System can display many image formats, such as: jpg, png, jpeg

### Software Interfaces

No programming language is needed to install on user devices.

Outside, the system should use the program to manage resources data, this program can be combined with the system, can change and update from the system. Data products will be exchanged between systems and external data through data management software

|  |  |  |
| --- | --- | --- |
| Software name | Version | Source |
| 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 |

### Communications Protocol

System implemented on the browser, using standard protocols to communicate between users and server.

In the process of communication, some important information of the user system will be encrypted using special algorithms.

Besides the design synchronize data and systems, all components of the system can access data at any time.

The system should produce nicely formatted HTML that popular social network such as Facebook, MySpace can share information.

The web pages must be easy for search bots such as Google, Yahoo to find and cache.

## System Features

### Log In of Employee

#### Use Case Diagram



#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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

#### Use Case Diagram



#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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

#### Use Case Diagram



#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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

#### Use Case Diagram



#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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

#### Use Case Diagram



#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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

#### Use Case Diagram



#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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

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