**X-Future**

**Development’s Guide**

**Faculty: Pham Cong Thanh**

**Student:**

|  |  |  |
| --- | --- | --- |
| **No** | **Full Name** | **Roll No** |
| **1** | **Pham Tuan Kiet** | **SE62368** |
| 2 | Nguyen Hong Duc | SE62389 |
| 3 | Nguyen Hoang Anh Trung | SE62282 |

**REVIEW 1**

1. **Introduction**

Ten years ago, Information technology was strange with people and X-Factor was the first company about newspaper established. They made a lot of survey to get information about technology for the future.

Finally, they decided to perform a new business strategy. Published a magazinename “**X-Future**” in order to reach to the people. **X-Future** means the technology for future, the guesses, the electronic equipment will have in the future. After published, the number of people is more and more increasingly in very short duration of time. This magazine aims to help people approach technology as soon as possible and the changes of technology in the future. Nowadays Internet is the popular with people, so they want to expand the market. **X-Future** website is opened.

1. **Existing Scenario**

The world around us is changing every hour. Therefore, to be able to capture the information, especially the information technology is not easy. Nowadays, the use of the Internet is becoming very popular, so to be able to catch up on the latest information, announcements and changes in technology, a technology news site will be a good solution. Therefore, X-Future has been sent to you.

# Customer Requirement Specification

A site needs to be designed where Reader will register either as a member. If registered as a member then he will be able to comment on other articles. In addition, they can view other comments and update the personal information if not registered as member then won’t be able to comment on other articles.

1. **Functional Requirement Specification**
   1. **Create account (manage page)**
      1. **Description**

Administrator will create a new account. The new account is not set role. To create an account, subscribers have to provide full information such as:

* + Name
  + Birthday
  + Identity card
  + Phone
  + Address
  + Mail
  + Sex

The newly created accounts will be provided a username similar to the registered email address. Default password of the account will be the phone number registered.

* + 1. **Functional Requirements**

1. People register have to provide full information (Name, Birthday, Identity card, Phone, Mail, Sex).
   1. **Admin can manage staff’s account**

**4.2.1 Description**

System provides one page to manage account. Staff is moderator and collaborator.

**4.2.2. Functional requirements**

1. Field data have to be validated before being inserted into the database.
2. Only admins can use all the functions mentioned.
3. Admin can:
   * + create account
     + view staff’s account information
     + edit staff’s account information
   1. **Moderator can manage post (publish, unpublished, rejected) base on topics or tags**
      1. **Description**

The system provides a page for managing postings. The post will appear under status (published, unpublished, rejected), topic, tags in order of posting time (the first post will be the newest post was posted to the server).

**4.6.2. Functional Requirements**

1. Each post needs to be tagged, topic related posts (at least 1 topic).
2. Posting time needs to be saved.
3. Only moderators can use this functionality.
4. Moderator can:
   * View the post
   * Approve the post has status is unpublished. After reviewing the status of the post, it will change to publish.
   * Reject the post has status is published, unpublished. After reject, the status of the post will change to rejected.
   * Edit, add topic or tag of 1 post.
   1. **Collaborator can post new posts**
      1. **Description**

The system must provide a page/interface to allow collaborator post new posts. The system must record the time the collaborator posted the article.

* + 1. **Functional Requirements**

1. The post must be sent to server to storage.

The Collaborator can insert/update/delete his own post

* 1. **Reader can view posts base on topics, tags**
     1. **Description**

Every articles are order by topics and mark by some tags. It will present by a link. When reader (user) click on the link below. The system must provide a page to show all article that relate to this topic/tag.

* + 1. **Functional Requirements**

Database must be organized in multi-layers. So that system can easy to get database by topic

## **GUI Requirements**

### Description

### Bongdanews.com site must be simple, not distracting

### The manage.bongdanews.com site is easy to manage site information

### Functional Requirements

1. Bright colors

Minimalist design, makes the readers focus on content

## \***4.6 Categories**

* **4.6.1 Description**

System must provide list of categories support for Reader.

* **4.6.1 Functional Requirements**

**REQ-01**: Reader can view list of title

\*Mobile

-Iphone

-SamSung

-Sony

\*Camera

-Cannon

-Nikon

-Fuji

\*Laptop

-Dell

-Assus

-Hp

1. **System Requirement**

* **Hardware**
  + **Web Server**

|  |  |
| --- | --- |
| Processor | Pentium IV or higher. |
| Memory | 512MB RAM or greater. |
| Modem/ADSL | Connecting to internet 24/24 |

* **Client**

|  |  |
| --- | --- |
| Processor | Pentium III or higher. |
| Memory | 64MB RAM or greater. |
| Monitor | Super VGA (800x600) or higher resolution with 256 colors. |
| Pointing Device | Microsoft Mouse, Microsoft IntelliMouse®, or compatible pointing device. |
| Modem/ADSL | Connecting to internet |

* **Software**
* **Web Server**

|  |  |
| --- | --- |
| Operation System | Windows 2000/XP/2003 |
| Browser | Internet Explorer 6.0 or higher. |
| Database | Microsoft SQL Server 2000 |
| Software | Java SDK 1.5 |
|  | Apache Tomcat 5.5 |
|  | ZK Framework 3.0 |
|  | Jboss 4.x |

* **Client**

|  |  |
| --- | --- |
| Operation System | Windows XP or later. |
| Browser | Internet Explorer 6.0 or higher. |

1. **Development Software**

* Microsoft Windows 10 Professional
* Microsoft SQL Server 2014 Express
* Google Chrome version 61.0.3163.91 (Official Version) (64 bit)
* Netbeans IDE 8.1
* Java SDK 1.8
* Apache Tomcat 8.0.27.0
* Struts 2 Framework version 2.3.15
* Boostrap library

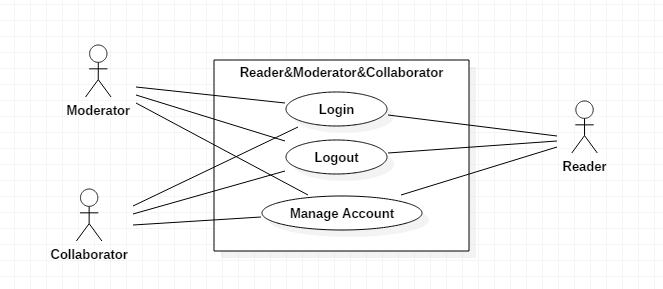
1. **Technology**

* Java Web Service
* JSP, Servlet
* HTML
* Struts 2 Framework

REVIEW 2

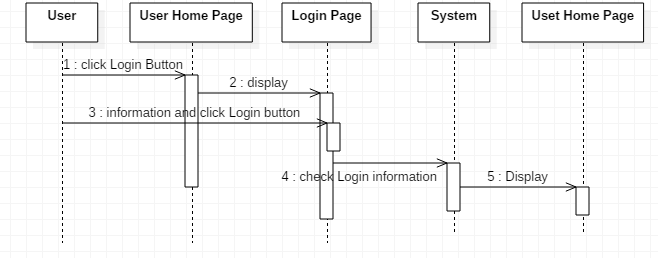
# Use Case and Sequence Diagram

8.1. Reader, Moderator and Collaborator



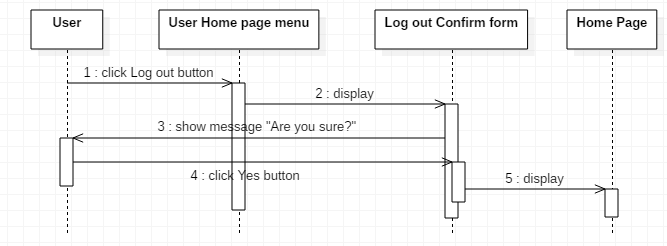
### Login

|  |  |  |
| --- | --- | --- |
| **Author** | Nguyen Hoang Anh Trung | |
| **Use Case Name** | Login | |
| **Actors** | Reader, Moderator and Collaborator | |
| **Description** | Reader or Moderator or Collaborator wants to login to website as a Reader or Moderator or Collaborator member. | |
| **Requirements** | Actor provides username and password | |
| **Pre-conditions** |  | |
| **Post-conditions** | Success: User logged in to website.  Fail: Refill information | |
| **Basic flow** | Actor Actions:  1. Actor go to Home page of website.  3. Actor inputs Username and Password, then click the Login button. | System Responses:  2. System redirects to Home page. After that click Login button and displays Login form on the center with the following control:  - ‘Username’ text field  - ‘Password’ text field  - ‘Login’ button  4. System checks the information  [Exception 1]   * 5. System redirects to Actor’s Home page. |
| **Alternative flow** | Actor Actions:  [Alternative 2]  1. Actor click ‘Login’ button, inputs Username and Password, then click the Login button.  [Alternative 1]  1. Actor click ‘Back to Home’ button. | System Responses:  2. System checks the information  [Exception 1]  3. System redirects to Actor’s Home page.  2. System returns to Home page. |
| **Exception** | Actor Actions:  [Exception 1]  1. Actor input invalid username and password. | System Responses:  - System redirect to Login page with the following controls:  - ‘Username ‘ text field  - ‘Password’ text field  - ‘Login’ button.  - ‘Back to Home’ button.  System show a message box: “Invalid Username and password”.[Alternative 2] |

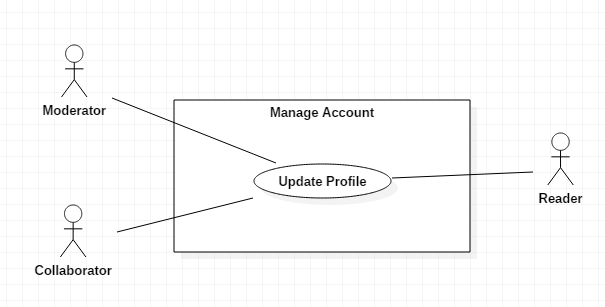


* + 1. **Logout**

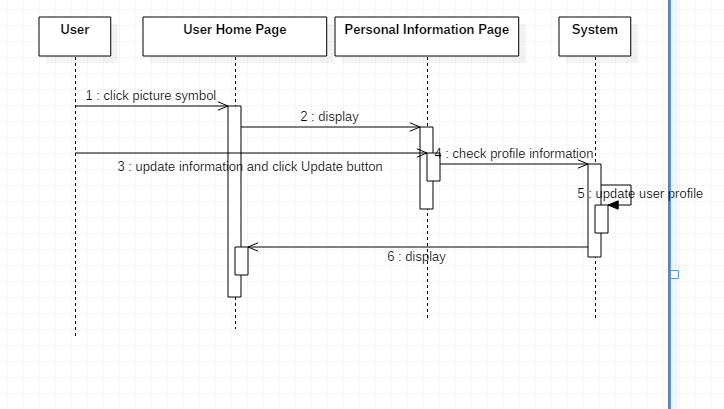
|  |  |  |
| --- | --- | --- |
| **Author** | Nguyen Hoang Anh Trung | |
| **Use Case Name** | Logout | |
| **Actors** | Reader or Moderator or Collaborator | |
| **Description** | Reader or Moderator or Collaborator wants to log out of the System. | |
| **Requirements** |  | |
| **Pre-conditions** | Actor has logged in. | |
| **Post-conditions** | Success: Actor Logged out. | |
| **Basic flow** | Actor Actions:  1. Actor clicks ‘Log out’ button on the Actor’s Home menu. | System Responses:  2. System redirect to Logout page, remove session, and then redirect to Login page. |
| **Alternative flow** |  |  |
| **Exception** |  |  |



* + 1. **Update Account**

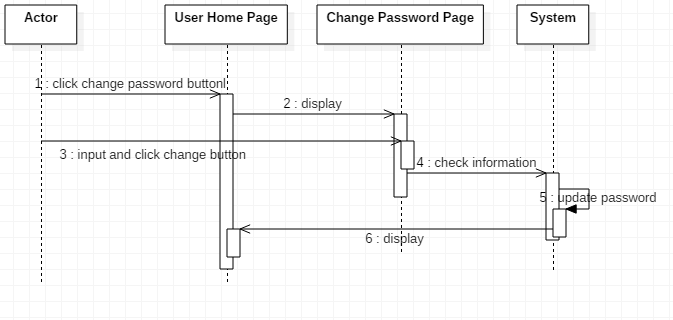
****

|  |  |  |
| --- | --- | --- |
| **Author** | Phạm Tuấn Kiệt | |
| **Use Case Name** | Update Profile | |
| **Actors** | Moderator or Collaborator or Reader | |
| **Description** | Moderator or Collaborator or Reader wants to Update his/her profile’s information. | |
| **Requirements** | Actor provides profile information | |
| **Pre-conditions** | Actor has logged in. | |
| **Post-conditions** | Success: Profile’s information of this user has been updated.  Fail: Refill information | |
| **Basic flow** | Actor Actions:  1. Actor clicks ‘Profile’ button in Actor’s Home page menu.  3. Actor updates information and click ‘Save’ button. [Alternative 1] | System Responses:  2. System redirects to Update Profile page and displays Update Profile form with the following control :  - ‘Username’ text field (read only)  - ‘Name’ text field  - ‘Birthday’ text field  - ‘Gender’ checkbox group  - ‘Address’ text field  - ‘Phone’ text field  - ‘Email’ text field  - ‘Save’ button  - ‘Back to Home’ button  4. System checks the information  [Exception 1]  5. System update the account into database and then redirects to Actor Home page. |
| **Alternative flow** | Actor Actions:  [Alternative 1]  1. Actor click ‘Back to Home’ button. | System Responses:  2. System returns to Home page. |
| **Exception** | Actor Actions:  [Exception 1]  1. Actor lefts ‘New Password’ text field blank.  2. Actor lefts ‘New Confirm Password’ text field blank.  3. New Password and New Password Confirm don’t match.  4. Actor lefts ‘Name’ text field blank.  5. Actor lefts ‘Birthday’ date box blank.  6. Input age to ‘Birthday’ date box less than 16.  7. Actor lefts ‘Address’ text field blank.  8. Actor lefts ‘Phone’ text field blank.  9. Input phone not in numeric or phone length not in range 8 – 14 character.  10. Actor lefts ‘Email’ text field blank or input an invalid email address. | System Responses:  System displays message to Actor :  - ‘Password cannot be blank’’.  - ‘Confirm Password can’t be blank’.  - ‘Confirm password not match Password.’  - ‘Name cannot be blank’.  - ‘Birthday is invalid’.  - ‘Age must over 16’.  - ‘Address cannot be blank’.  - ‘Phone is invalid’.  - ‘The phone number should be numeric only and must be between 8 and 14 digits’.  - ‘Email is invalid’. |

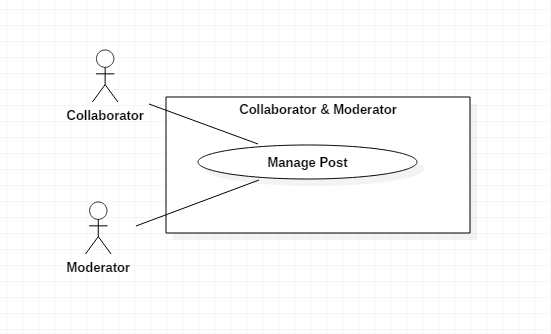
****

* + 1. **Change Password**

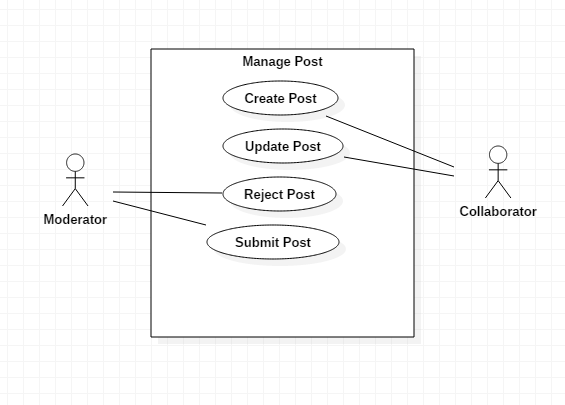
|  |  |  |
| --- | --- | --- |
| **Author** | Phạm Tuấn Kiệt | |
| **Use Case Name** | Change Password | |
| **Actors** | Moderator or Collaborator or Reader | |
| **Description** | Moderator or Collaborator or Reader wants to change his/her password | |
| **Requirements** | Actor provides password | |
| **Pre-conditions** | Actor has logged in. | |
| **Post-conditions** | Success: password is changed  Fail: Input again password | |
| **Basic flow** | Actor Actions:  1. Actor clicks ‘change password’ button in Actor’s Home page menu.  3. Actor updates information and click ‘Change Password’ button. [Alternative 1] | System Responses:  2. System redirects to Change Password page and displays change password form with the following control :  -Old password: text field  -New password: text field  -Confirm Password : text field  -Change Password : button  4. System checks the information  [Exception 1]  5. System change account’s password into database and then redirects to Actor Home page. |
| **Alternative flow** | Actor Actions:  [Alternative 1]  1. Actor click ‘Back to Home’ button. | System Responses:  2. System returns to Home page. |
| **Exception** | Actor Actions:  [Exception 1]  1. Actor lefts ‘New Password’ text field blank.  2. Actor lefts ‘Confirm Password’ text field blank. | System Responses:  System displays message to Actor :  - ‘Password cannot be blank’’.  - ‘Confirm Password can’t be blank’. |

****

* 1. **Moderator & Collaborator**

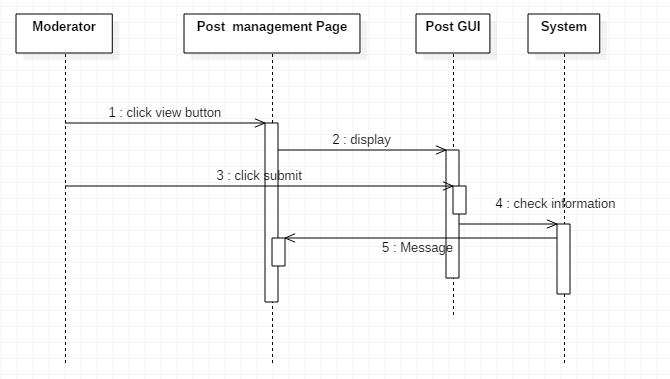
****

* + 1. **Manage Post**

****

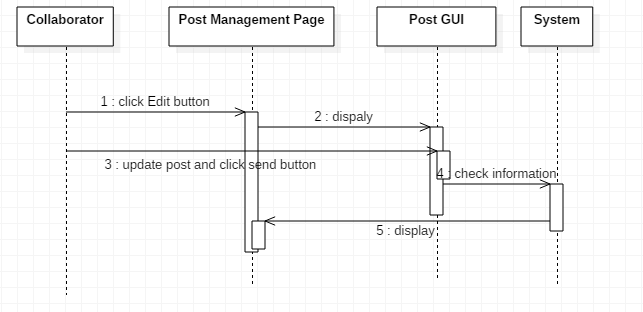
**8.2.1.1 Submit Post**

|  |  |  |
| --- | --- | --- |
| **Author** | Pham Tuấn Kiệt | |
| **Use Case Name** | Submit a post | |
| **Actors** | Moderator | |
| **Description** | System provides an interface for moderator to submit new post. | |
| **Requirements** |  | |
| **Pre-conditions** | User logged in and had role as moderator or collaborator. | |
| **Post-conditions** | Success: Post will be inserted to database  Fail: Post won’t be inserted to database | |
| **Basic flow** | Actor Actions:  1.In Post Management Page, click view button  3. Actor input information then click ‘Submit’ button [Alternative 1] | System Responses:  2.System redirect actor to that post’s GUI has following control:  - Button ‘Browse’ to upload image  - ‘Title’ text field  - ‘Content’ text area  - ‘Date’ date box  - ‘Category’ checkbox group  - ‘Submit’ button  - ‘Cancel’ button  4. System check information [Exception1]  5. System inserts the post into database |
| **Alternative flow** | Actor Actions:[Alternative 2]   1. Actor click ‘Back to Home’ button. | System Responses:  1. System returns to Home page. |
| **Exception** | Actor Actions:  [Exception 1]  - Actor left ‘Title’ field blank  - Actor left ‘Content’ field blank  - Actor left “Date box” field blank  - Actor left ‘Category’ in checkbox group not choose  - Actor don’t choose add picture | System Response: System display message to Actor:  - ‘The title can’t be blank’  - ‘The content can’t be blank’  - ‘The content can’t be blank’  - ‘Category must be choose’  -‘ image have to compulsory, Please add picture |

****

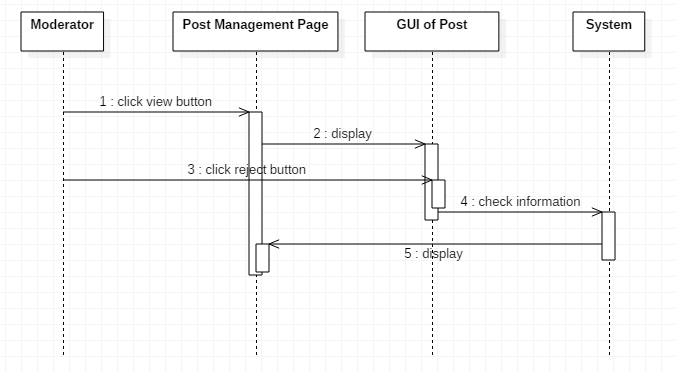
* + - 1. **Update a post**

|  |  |  |
| --- | --- | --- |
| **Author** | Phạm Tuấn Kiệt | |
| **Use Case Name** | Update post | |
| **Actors** | Collaborator | |
| **Description** | System provide an interface for actor to edit post. | |
| **Requirements** | Moderator can edit post of everyone, while collaborator can only edit his/her post. | |
| **Pre-conditions** | User logged in and had role as collaborator. | |
| **Post-conditions** | Success: send post successfully  Fail: send post unsuccessfully | |
| **Basic flow** | Actor Actions:  Actor Actions:  1.Actor click Edit button to edit post  3. Actor update information then click ‘Send’ button [Alternative 1] | System Responses:  3.System redirect actor to that post’s GUI has following control:  - Button ‘Browse’ to upload image  - ‘Title’ text field  - ‘Content’ text area  - ‘Date’ date box  - ‘Category’ checkbox group  - ‘Submit’ button  - ‘Cancel’ button  4. System check information [Exception1]  5. System will send post to ‘Manage Post’ page |
| **Alternative flow** | Actor Actions:[Alternative 2]   1. Actor click ‘Back to Home’ button. | System Responses:  1. System returns to Home page. |
| **Exception** | Actor Actions:  [Exception 1]  - Actor left ‘Title’ field blank  - Actor left ‘Content’ field blank  - Actor left “Date box” field blank  - Actor left ‘Category’ in checkbox group not choose  - Actor don’t choose add picture | System Response: System display message to Actor:  - ‘The title can’t be blank’  - ‘The content can’t be blank’  -Date box can’t be blank  - ‘Category must be choose’  -‘ image have to compulsory, Please add picture |

****

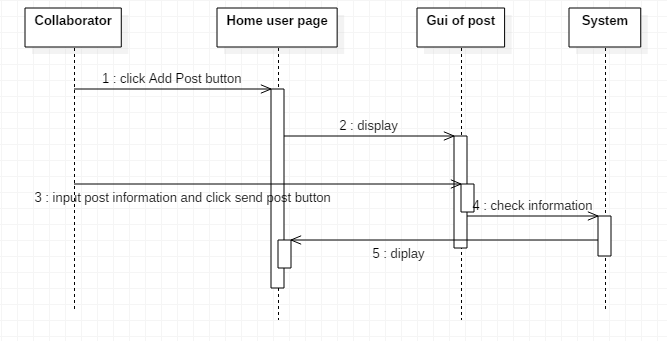
* + - 1. Reject Post

|  |  |  |
| --- | --- | --- |
| **Author** | Phạm Tuấn Kiệt | |
| **Use Case Name** | Reject post | |
| **Actors** | Moderator want to reject Collaborator ‘s post | |
| **Description** | System provide an interface for actor to reject post. | |
| **Requirements** | Moderator is only used this function. | |
| **Pre-conditions** | User logged in and had role as moderator. | |
| **Post-conditions** | Success: the post will reject successfully  Fail: the post will reject unsuccessfully | |
| **Basic flow** | Actor Actions:  Actor Actions:  1.Actor access to Post Management Page   1. Click view button to display interface to review post 2. Click reject button | System Responses:  2.System redirect actor to that post’s control page has following control:  Table:   * Stt * Username * Fullname * Tittle * Category * Checkbox * View button   +interface post  +submit button  +reject button  5. System check information [Exception1]  6. System response message “Reject Successfully” |
| **Alternative flow** | Actor Actions:[Alternative 2]   1. Actor click ‘Back to Home’ button. | System Responses:  1. System returns to Home page. |
| **Exception** |  |  |

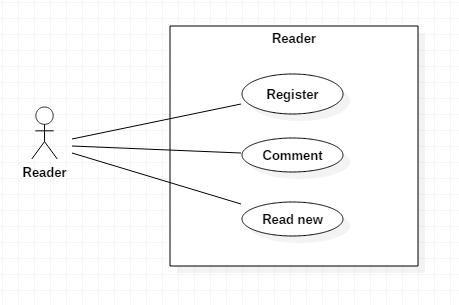


**8.1.2.4 Create a post**

|  |  |  |
| --- | --- | --- |
| **Author** | Phạm Tuấn Kiệt | |
| **Use Case Name** | Create a post | |
| **Actors** | Collaborator | |
| **Description** | System provide an interface for actor to create a post. | |
| **Requirements** |  | |
| **Pre-conditions** | User logged in and had role as collaborator. | |
| **Post-conditions** | Success: send post successfully  Fail: send post unsuccessfully | |
| **Basic flow** | Actor Actions:  1.Actor click add Post button to create post  3. Actor input information then click ‘Send’ button [Alternative 1] | System Responses:  3.System redirect actor to that post’s GUI has following control:  - Button ‘Browse’ to upload image  - ‘Title’ text field  - ‘Content’ text area  - ‘Date’ date box  - ‘Category’ checkbox group  - ‘Submit’ button  - ‘Cancel’ button  4. System check information [Exception1]  5. System will send post to ‘Manage Post’ page |
| **Alternative flow** | Actor Actions:[Alternative 2]   1. Actor click ‘Back to Home’ button. | System Responses:  1. System returns to Home page. |
| **Exception** | Actor Actions:  [Exception 1]  - Actor left ‘Title’ field blank  - Actor left ‘Content’ field blank  - Actor left “Date box” field blank  - Actor left ‘Category’ in checkbox group not choose  - Actor don’t choose add picture | System Response: System display message to Actor:  - ‘The title can’t be blank’  - ‘The content can’t be blank’  -Date box can’t be blank  - ‘Category must be choose’  -‘ image have to compulsory, Please add picture |

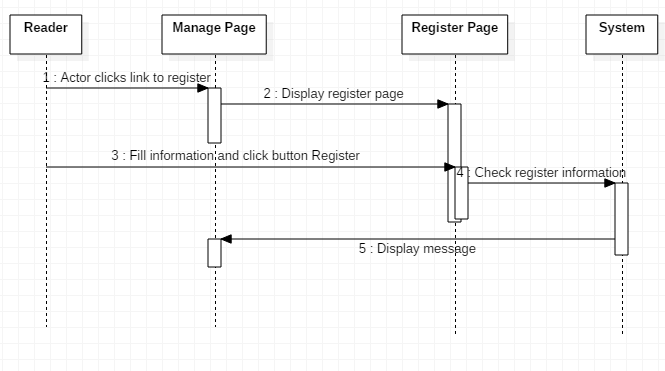


* 1. : Reader



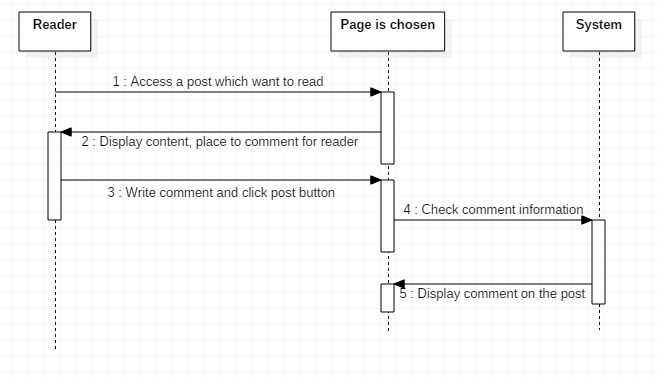
**8.3.1: Register:**

|  |  |  |
| --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | |
| **Use Case Name** | Reader register account | |
| **Actors** | Reader | |
| **Description** | Reader want to register to became member of website to comment. To register, reader need to click to link “Register to became member” and provide these following information:   * Username * Password * Name * Birthday * Sex * Address * Phone * Email   And then click ‘Register’ button. | |
| **Requirements** |  | |
| **Pre-conditions** | Access to URL of website, click to link “Register to became member” | |
| **Post-conditions** | Success: Create an account for reader in website  Fail: Refill information | |
| **Basic flow** | Actor Actions:  1. Actor clicks Register button  3. Actor fill all required information and click ‘Register’ button. [Alternative 1] | System Responses:  2. System redirects to Register page and displays Register Profile page with the following controls:  - ‘User Name’ text field  - ‘Password’ text field  - ‘Name’ text field  - ‘Birthday’ text field  - ‘Gender’ checkbox group  - ‘Address’ text field  - ‘Phone’ text field  - ‘Email’ text field  - ‘Register’ button  - ‘Back to Home’ button  4. System checks the information  [Exception 1]  5. System inserts the account into database and then redirects to Actor Home page. |
| **Alternative flow** | Actor Actions:  [Alternative 1]  1. Actor click ‘Back to Home’ button. | System Responses:  2. System returns to Home page. |
| **Exception** | Actor Actions:  [Exception 1]  1. Actor lefts ‘Password’ text field blank.  2. Actor lefts ‘Name’ text field blank.  3. Actor lefts ‘Birthday’ date box blank.  4. Actor lefts ‘Address’ text field blank.  5. Actor lefts ‘Phone’ text field blank.  6. Input phone not in numeric or phone length not in range 8 – 14 character.  7. Actor lefts ‘Email’ text field blank or input an invalid email address. | System Responses:  System displays message to Actor:  - ‘Password cannot be blank’’.  - ‘Name cannot be blank’.  - ‘Birthday is invalid’.  - ‘Address cannot be blank’.  - ‘Phone is invalid’.  - ‘The phone number should be numeric only and must be between 8 and 14 digits’.  - ‘Email is invalid’. |

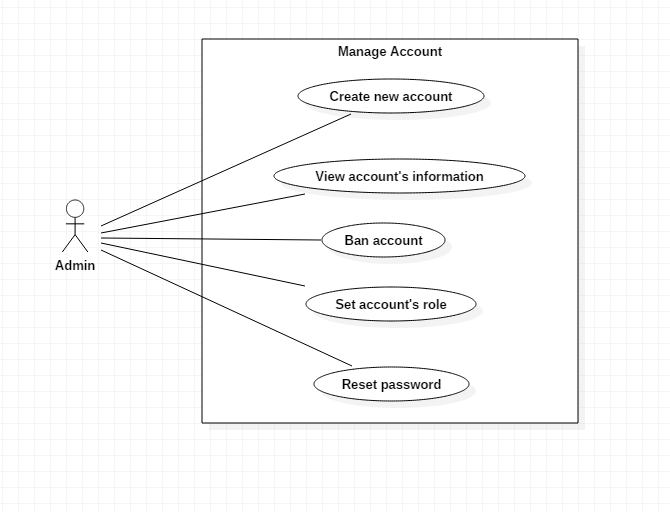


8.3.2: Comment

|  |  |  |
| --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | |
| **Use Case Name** | Comment | |
| **Actors** | Reader | |
| **Description** | Reader who has been logged in website can comment in the post | |
| **Requirements** |  | |
| **Pre-conditions** | Already be member of website, click to place for comment of the post which they are reading. | |
| **Post-conditions** | Success: Comment Successfully  Fail: Comment Unsuccessfully | |
| **Basic flow** | Actor Actions:  1. Actor access to the post and click to comment field  3. Reader fill content and click ‘Post’ button.  [Alternative 1] | System Responses:  2. System provide a place to comment including:  - Text Area  - Two button: cancel and post  4. System checks the information  [Exception 1]  5. System post the comment to the post. |
| **Alternative flow** | Reader Actions:  [Alternative 1]   1. Reader clicks cancel button. | System Responses:  2. System cancel the comment and return to present post |
| **Exception** | Reader Actions:  [Exception 1]  Reader let the comment blank | System Responses:  System displays message to Reader:  “Please input content in comment” |

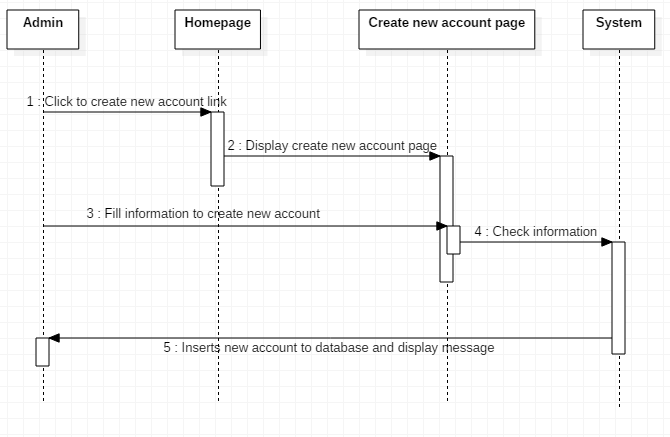


**8.4: Administrator:**



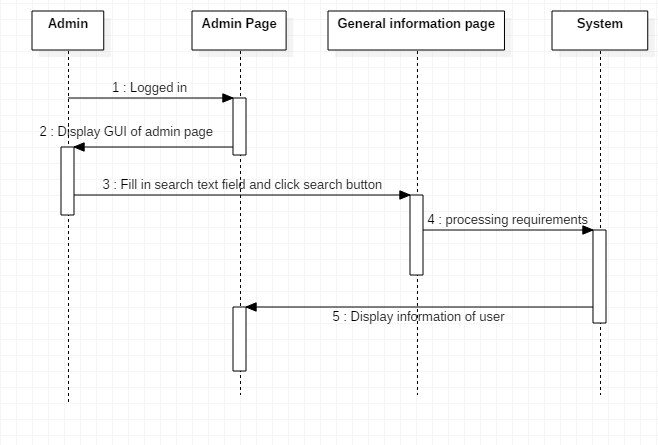
**8.4.1: Create Account:**

|  |  |  |
| --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | |
| **Use Case Name** | Create new account | |
| **Actors** | Administrator | |
| **Description** | Administrator will create a new account in system.  A new account need these following information:   * Username * Password * Name * Birthday * Sex * Address * Phone * Email | |
| **Requirements** |  | |
| **Pre-conditions** | Only admin can create account.  Actor must provide enough information. | |
| **Post-conditions** | -Success: Go to success page and back to homepage  -Fail: Refill information | |
| **Basic flow** | Actor Actions:  1. Actor clicks ‘Create new account’ link in homepage.  3. Actor inputs information to create new account, select ‘Sex’ attributes and click ‘Create’ button. [Alternative 1] | System Responses:  2. System redirects and display to Create new account page with the following controls:  - ‘Name’ text field  - ‘Birthday’ date box  - ‘Address’ text field  - ‘Phone’ text field  - ‘Email’ text field  - ‘Sex’ combo box with 2 value: ’Male’, ‘Female’  - ‘Role’ combo box with 2 value: ‘Moderator’ and ‘Collaborator’  - ‘Create’ button  - ‘Back to Home’ button  4. System checks the information.  [Exception 1]  5. System inserts the account into database, and display message to show information of the account:  Username = Email  Password = Phone |
| **Alternative flow** | Actor Actions:  [Alternative 1]  1. Actor click ‘Back to Home’ button. | System Responses:  2. System returns to Home page. |
| **Exception** | Actor Actions:  [Exception 1]   1. Actor lefts ‘Name’ text field blank. 2. Actor lefts ‘Birthday’ date box blank. 3. Actor lefts ‘Phone’ text field blank. 4. Input ‘Phone’ not in numeric or phone length not in range 8 – 14 character. 5. Actor lefts ‘Address’ text field blank. 6. Actor lefts ‘Email’ text field blank or input an invalid email address. 7. The email address has been used before . | System Responses:  System displays message to Actor:  - ‘Name cannot be blank’.  - ‘Birthday cannot be blank’.  - ‘Phone cannot be blank’.  - ‘The phone number should be numeric only and must be between 8 and 14 digits’.  - ‘Address cannot be blank’.  - ‘This email address is invalid’.  - ‘This email has been used before’. |



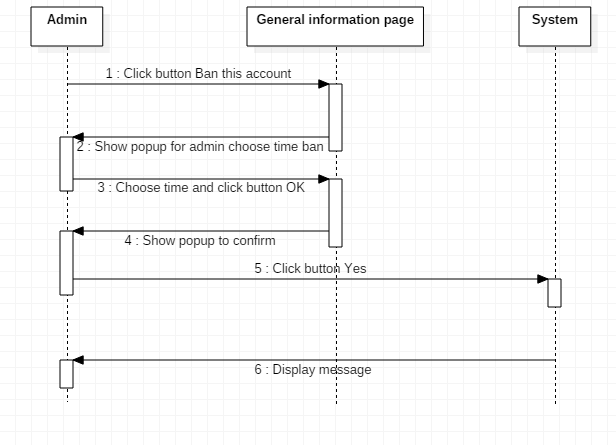
**8.4.2: View account’s information:**

|  |  |  |
| --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | |
| **Use Case Name** | View account’s information | |
| **Actors** | Administrator | |
| **Description** | Administrator can view information of an account:   * Username * Name * Birthday * Sex * Address * Phone * Email | |
| **Requirements** |  | |
| **Pre-conditions** | Logged in with role is admin | |
| **Post-conditions** |  | |
| **Basic flow** | Actor Actions:  1. Actor input a keyword to search box. Admin click ‘Search’ button.  3. Actor click to name of which person that they want to view information. | System Responses:  2. System return a table with a list of user match with inserted keyword.  [Exception 1]  4. System return a general information page (Account’s information page) with information of that user. Information that will be shown are:  -Name  -Sex  -Email address  -Phone  -Address  -Birthday  - Role  - ‘Back to previous page’ button  - ‘Update’ button  - ‘Ban this account’ button  - ‘Set role’ button |
| **Alternative flow** |  |  |
| **Exception** | Actor Actions:   1. Actor lefts ‘search’ text field blank and click search. | System Responses:  - show message “Please input information to search” |



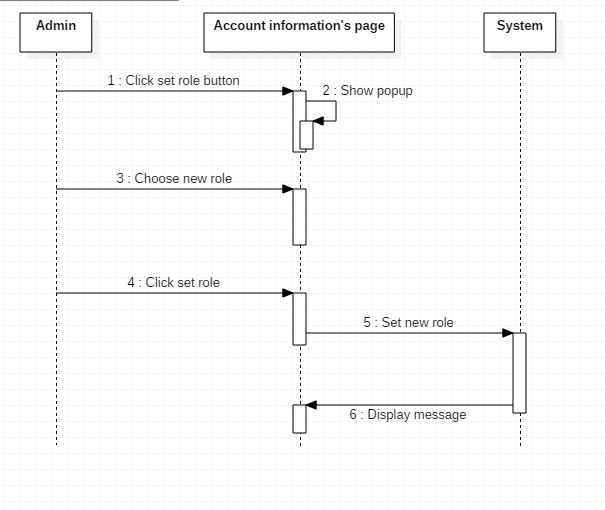
8.4.3: Ban account:

|  |  |  |
| --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | |
| **Use Case Name** | Ban account | |
| **Actors** | Administrator | |
| **Description** | Administrator is able to ban user’s account. Banned account can’t logged in to website during the time banned. | |
| **Requirements** |  | |
| **Pre-conditions** | User logged in and had role as administrator. | |
| **Post-conditions** |  | |
| **Basic flow** | Actor Actions:  1. Admin access to General information page. Admin click ‘Ban this account’ button.  3. Admin choose the time and then click button ‘Ok’  [Alternative flow 1]  5. Admin click button ‘Yes’  [Alternative flow 2] | System Responses:   1. System show a popup to display group of radio button with these values:   + 1 day  + 1 month  + Forever  for admin to choose and 2 button: ‘Ok’ and ‘Cancel’  4. System show a popup with message ‘Are you sure?’ with 2 button ‘Yes’ and ‘No’.  6. System will ban this account  and show message |
| **Alternative flow** | Actor Actions:  [Alternative flow 1]   1. Admin click ‘Cancel   [Alternative flow 2]  1/ Admin click ‘No’ | System Responses:   1. Popup disappears.   2/ Popup disappears. |
| **Exception** |  |  |



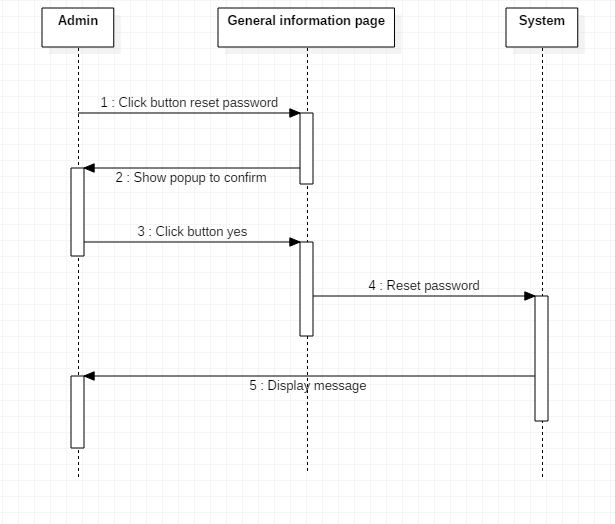
8.4.4: **Set account’s role:**

|  |  |  |
| --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | |
| **Use Case Name** | Set account’s role | |
| **Actors** | Administrator | |
| **Description** | System provide a page for admin to set account’s role (collaborator or moderator). | |
| **Requirements** |  | |
| **Pre-conditions** | User logged in and had role as administrator. | |
| **Post-conditions** |  | |
| **Basic flow** | Actor Actions:  1. Admin access to general information page. Admin click ‘Set role’ button.  3. Admin choose role and click ‘Set role’.  [Alternative flow 1] | System Responses:  2. System show a popup with a combo box with 2 value ‘Moderator’ and ‘Collaborator’, a ‘Set role’ button.  4. System changes account’s role. And then refresh account’s information page. |
| **Alternative flow** | Actor Actions:  [Alternative flow 1]   1. Admin click ‘Cancel | System Responses:  2. Popup disappears. |
| **Exception** |  |  |

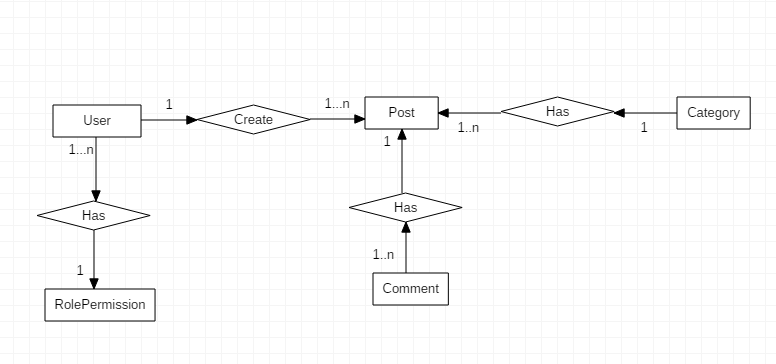


8.4.5: Reset password:

|  |  |  |
| --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | |
| **Use Case Name** | Reset password | |
| **Actors** | Administrator | |
| **Description** | Administrator can reset account’s password. The new password is account’s current phone number. | |
| **Requirements** |  | |
| **Pre-conditions** | User logged in and had role as administrator. | |
| **Post-conditions** |  | |
| **Basic flow** | Actor Actions:  1. Admin access to general information page. Actor click ‘Reset password’ button.  3. Actor click ’Yes’.  [Alternative flow 1] | System Responses:  2.System show a popup with message ‘Are you sure?’ with 2 button ‘Yes’ and ‘No’.  4.System set current phone number as new password. Then system redirect to general information page. |
| **Alternative flow** | Actor Actions:  [Alternative flow 1]  1. Actor click ‘No’ button. | System Responses:  2. Popup disappears. |
| **Exception** |  |  |

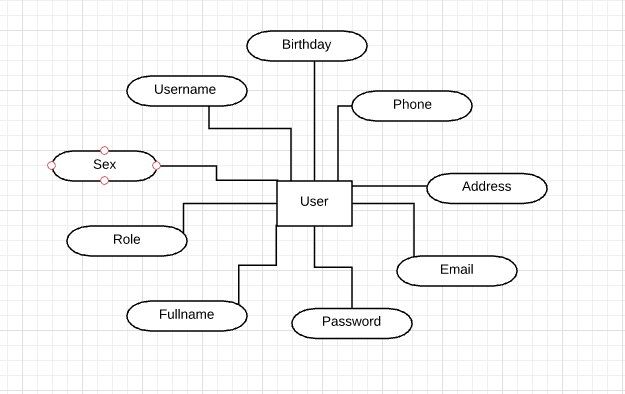


**9.** **Entity Relationship Diagram (ERD)**

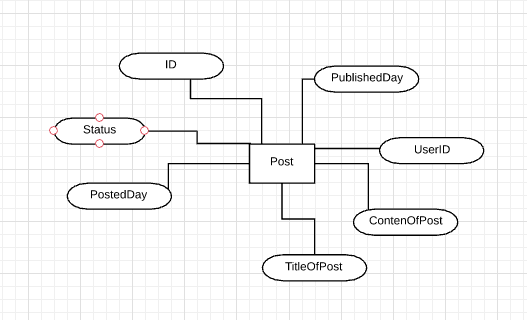
**9.1 ER**

* 1. **Table**

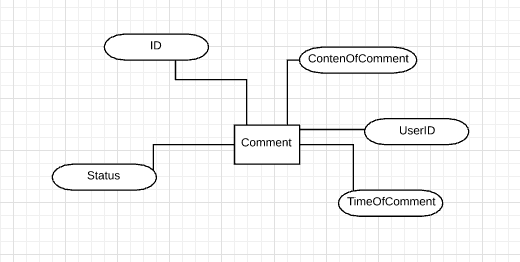
**9.3.1 User**



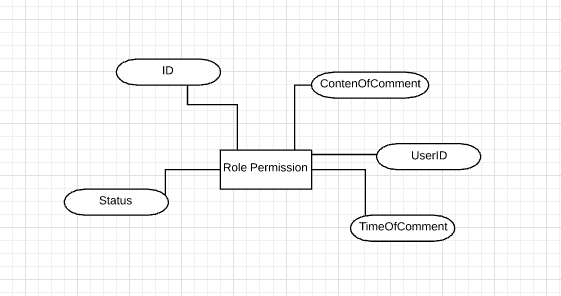
**9.3.2 Post**

****

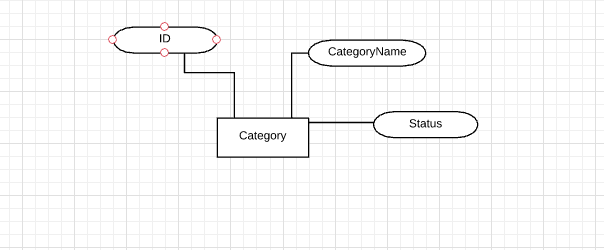
**9.3.3 Comment**

****

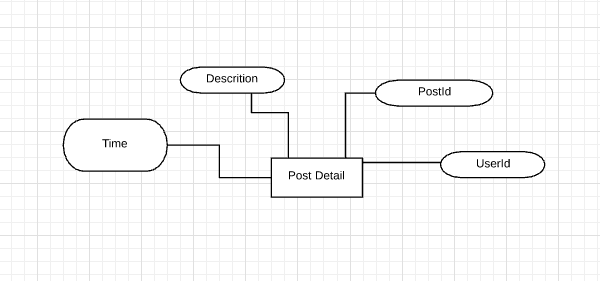
**9.3.4 Role Permission**



**9.3.5 Category**

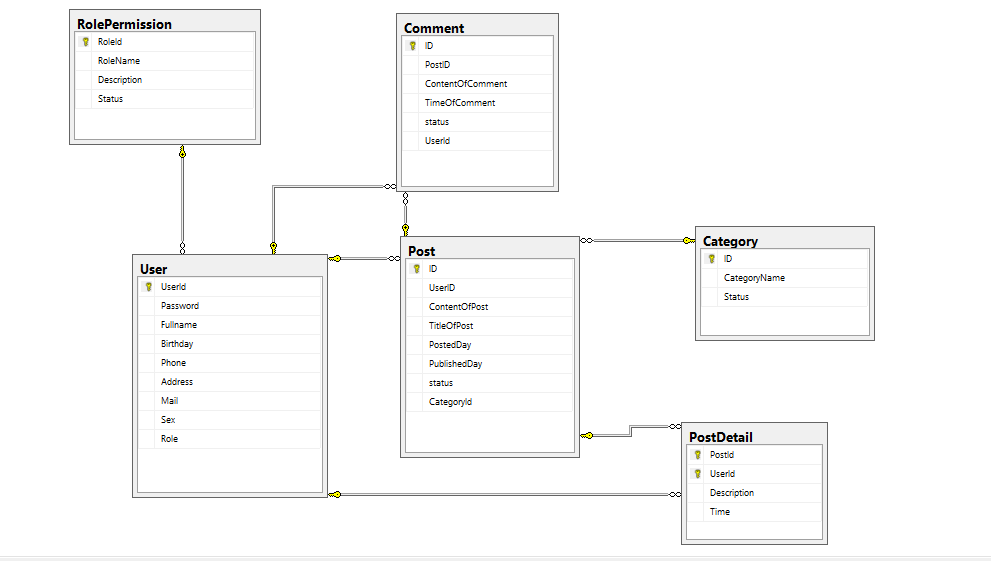
****

**9.3.6 Post Detail**

****

**REVIEW 3**

**10.** **Database Relationship Diagram**

****

# 11: Table Definitions:

**11.1: Post:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | ID | varchar | 10 | No |  |  | ID of the post |
|  | UserID | varchar | 50 | No |  | User.UserID | ID of the person who write the post |
|  | ContentOfPost | nvarchar | MAX | No |  |  | Content of the post |
|  | TitleOfPost | varchar | 300 | No |  |  | Title of the post |
|  | PostedDay | Datetime | 8 | No |  |  | Time the post is posted |
|  | PublishedDay | Datetime | 8 | No |  |  | Time the post is published |
|  | Status | int |  | No |  |  | Status of the post:  0: Rejected  1: Draft  2: Publish |
|  | CategoryId | Int |  | No |  | Category.ID | ID of the category |

### Constrains:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Add** | **Delete** | **Update** |
| Post | + | + | + |

11.2: Category:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | ID | Int |  | No |  |  | ID of Category |
|  | CategoryName | Varchar | 50 | No |  |  | Name of category |
|  | Status | Int |  | No |  |  | Status of the category  0: Disabled  1: Enable |

### Constrains:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Add** | **Delete** | **Update** |
| Category | + | + | + |

11.3: Comment:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | ID | varchar | 10 | No |  |  | ID of the post |
| FK | PostID | varchar | 10 | No |  | Post.ID | ID of the post that comment belong to |
|  | ContentOfComment | nvarchar | MAX | No |  |  | Content of the comment |
|  | TimeOfComment | Datetime |  | No |  |  | Time the comment is posted |
|  | Status | int | 1 | No |  |  | Status of comment:  0: Comment is disabled  1: Comment is displayed |

### Constrains:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Add** | **Delete** | **Update** |
| Comment | + | + | - |

11.4: Post Details:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | PostID | varchar | 10 | No |  | Post.ID | ID of the post |
|  | UserID | Varchar | 50 | No |  |  | Id of user |
|  | Description | Nvarchar | MAX | No |  |  | Description of post details |
|  | Time | Datetime | 8 | No |  |  |  |

### Constrains:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Add** | **Delete** | **Update** |
| Post details | + | - | + |

11.5: Role Permission:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | RoleID | Int |  | No |  |  | Id of role |
|  | RoleName | Varchar | 50 | No |  |  | Name of role |
|  | Description | nvarchar | MAX | Yes |  |  | Description |
|  | Status | int |  | No |  |  | 0:banned  1:active  2:inactive |

### Constrains:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Add** | **Delete** | **Update** |
| Role Permission | + | - | + |

11.6: User:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | UserId | varchar | 50 | No |  |  | UserId that use to login |
|  | Password | Varchar | 50 | No |  |  | Password of account |
|  | Fullname | Varchar | 50 | No |  |  | Fullname of user |
|  | Birthday | Date | 8 | No |  |  | Birthday of user |
|  | Phone | Varchar | 11 | No |  |  | Phone of user |
|  | Address | Varchar | 100 | No |  |  | Address of user |
|  | Mail | Varchar | 50 | No |  |  | Mail of user |
|  | Sex | Bit | 1 | No |  |  | Sex of user:  0: Female  1: Male |
|  | Role | Int |  | No |  |  | Role of user:   1. Reader 2. Collaborator 3. Moderator 4. Admin |

### Constrains:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Add** | **Delete** | **Update** |
| User | + | + | + |

**12. Other constrains:**

## **12.1 Post and User:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Add** | **Delete** | **Update** |
| Post | +  (User.ID must exist) | - | + |
| User | + | + | -  (User.ID cannot be changed) |

## **12.2 Post and Category:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Add** | **Delete** | **Update** |
| Post | +  (Category.id must exist) | - | + |
| Category | + | + | -  (Category.id cannot be changed) |

## **12.3 Comment and Post**

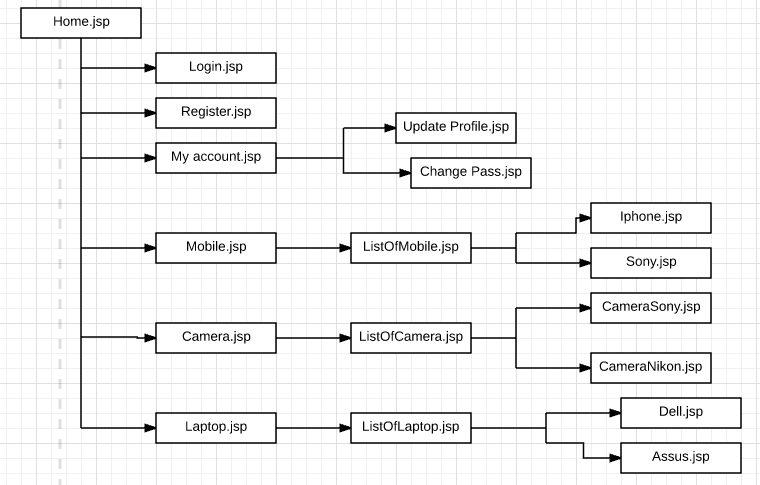
|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Add** | **Delete** | **Update** |
| Comment | +  (Post.ID must exist) | + | + |
| Post | + | - | +  (Post.ID cannot be changed) |

## **PostDetails and Post**

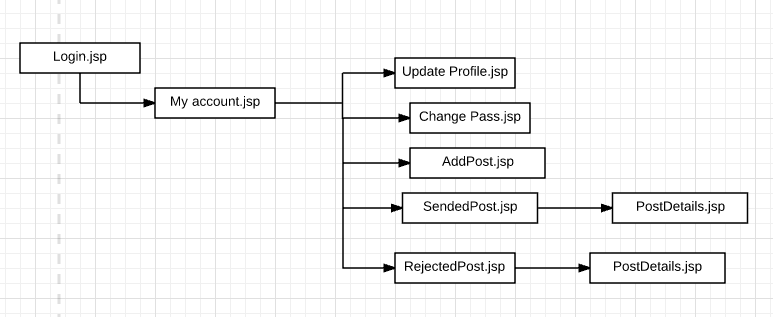
|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Add** | **Delete** | **Update** |
| Post Details | +  (Post.ID must exist) | - | - |
| Post | + | - | +  (Post.ID cannot be changed) |

**13. Site Map**

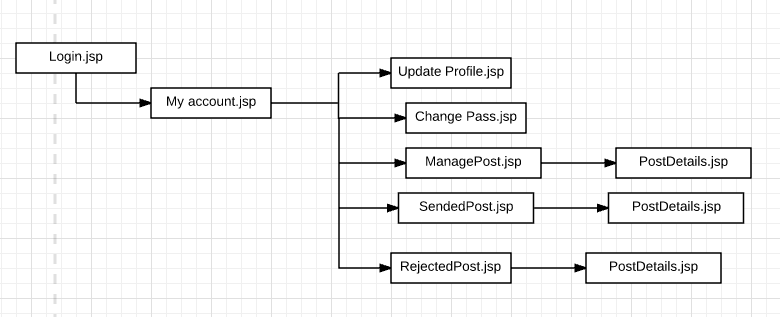
**13.1 Home side**



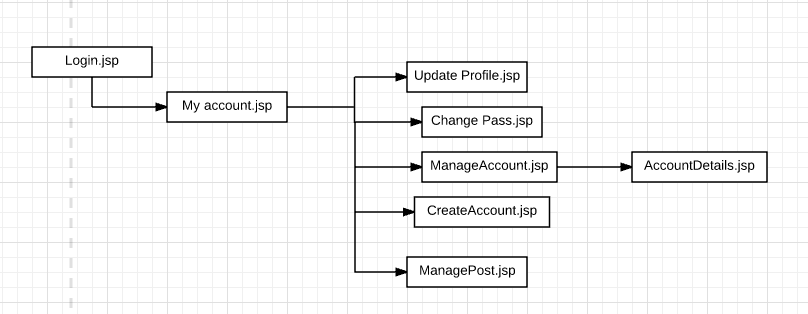
**13.2 Collaborator**

****

**13.3 Moderator**

****

**13.4 Admin**

****

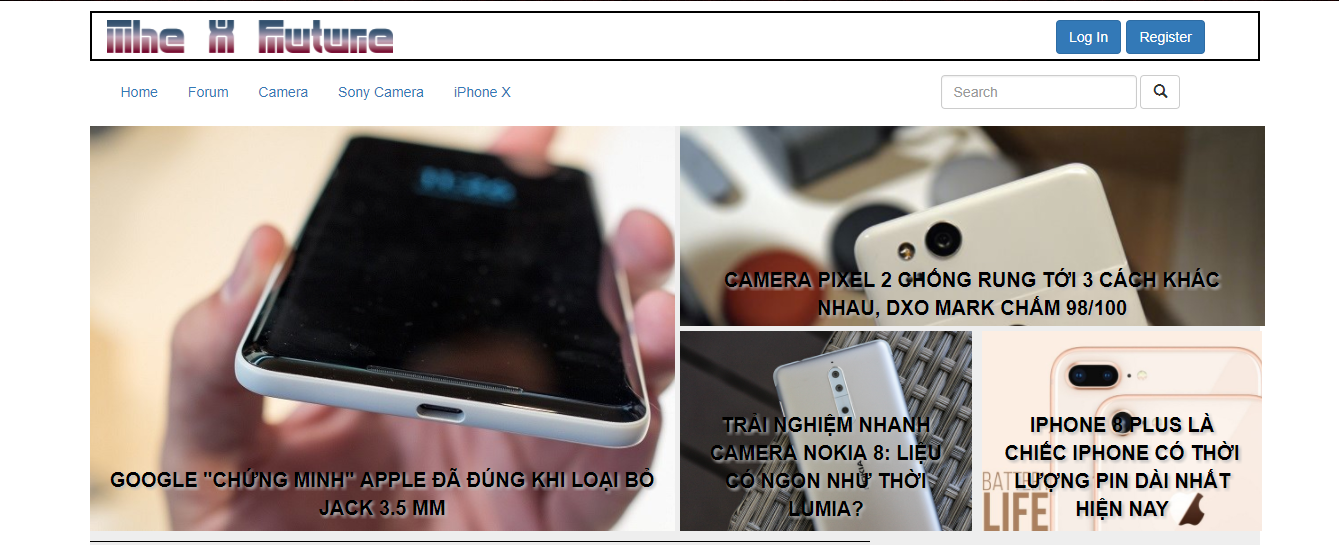
**14: GUI Design:**

**14.1 Home Page:**

**14.1.1: Home Page:**

This is Home page of the website, the users will go to this page

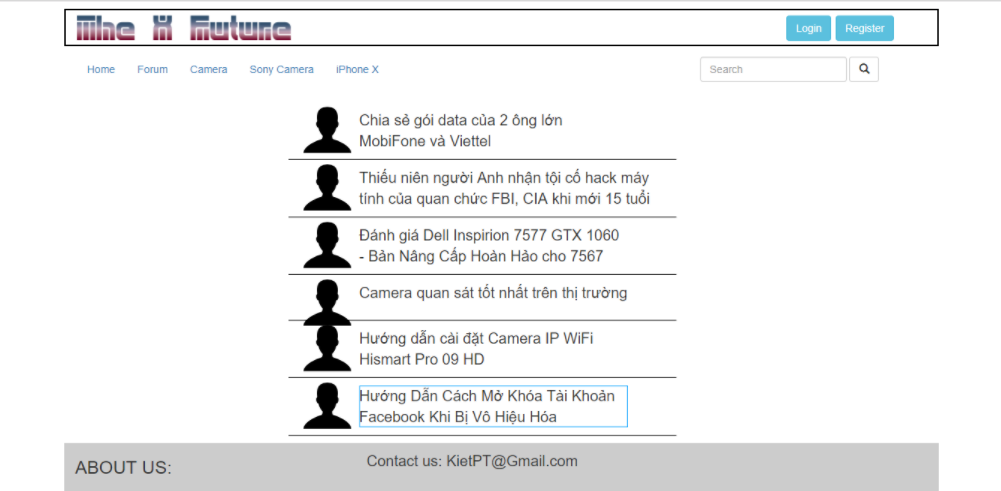
first.





|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **Type** | **Validation** | **Event** | **Description** | **Status** |
| 1 | btnLogin | Button |  | Click | Show popup to login |  |
| 2 | btnRegister | Button |  | Click | Show popup to Register |  |
| 3 | btnHome | Button |  | Click | Redirect to Home Page |  |
| 4 | btn Forum | Button |  | Click | Redirect to Forum Page |  |
| 5 | btnCamera | Button |  | Click | Redirect to Camera Page |  |
| 6 | btnSonyCamera | Button |  | Click | Redirect to Sony Camera Page |  |
| 7 | btnIPhoneX | Button |  | Click | Redirect to IPhoneX |  |
| 8 | txtSearchTitle | Text field | Not blank |  | Content to Search |  |
| 9 | btnSearch | Button |  | Click | Search post by title and display on table. |  |

**14.1.1.1: Forum Page:**

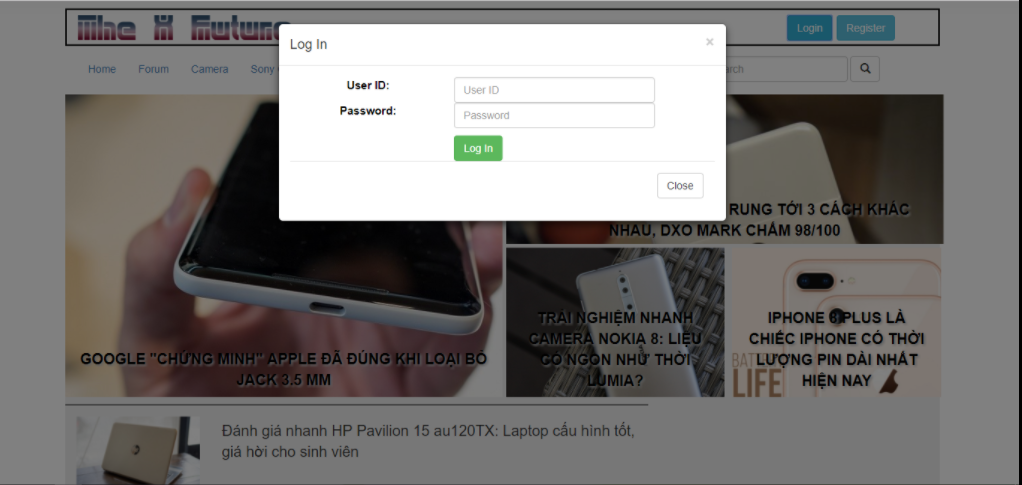


**14.1.1.2: Forum Details:**



**14.1.2: Login Popup:**

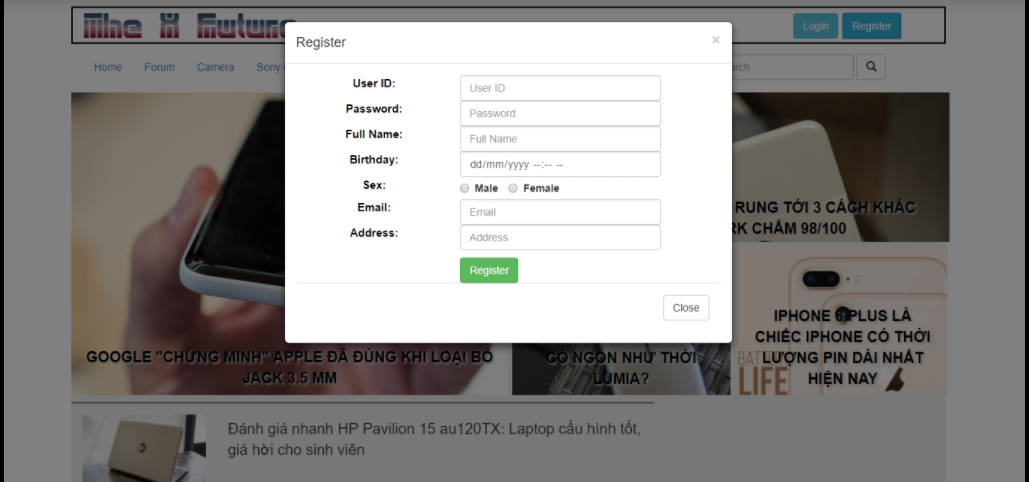
The users can login into the system by this popup.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **Type** | **Validation** | **Event** | **Description** | **Status** |
| 1 | txtUserName | Text field | Not null |  | User name |  |
| 2 | txtPassword | Text field | Not null |  | Password |  |
| 3 | btnLogin | Button |  | Click | Login to the system and redirect to User’s Home page |  |
| 4 | btnRegister | Button |  | Click | Redirect to Register Page |  |

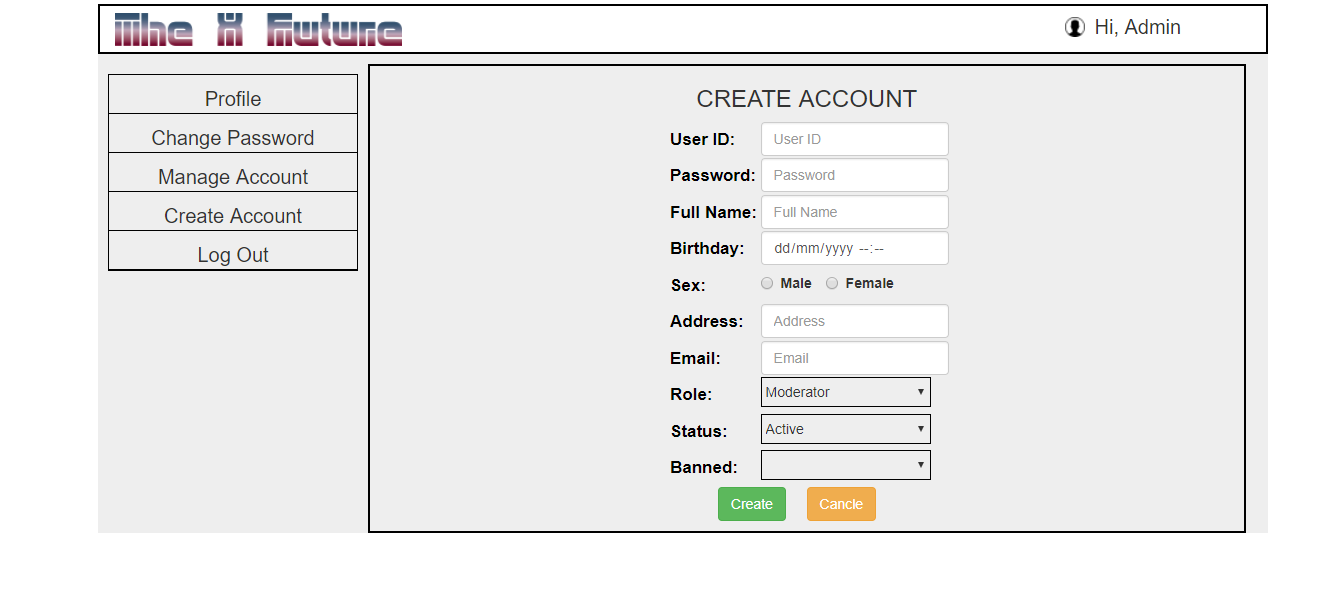
**14.1.3: Register Popup:**

The users can register an account by this Popup.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtUsername | Text field | 6<=length<=50  Not exist in the database |  | Username |  |
| 2 | txtPassword | Text field | 0<length<=50 |  | User’s Password |  |
| 3 | txtFullname | Text field | 0<length<=50 |  | User’s Name |  |
| 4 | dbBirthday | Date box | Not null | Click | User’s Birthday |  |
| 5 | rbMale | Radio button |  | Click | Gender selection |  |
| 6 | rbFemale | Radio button |  | Click | Gender selection |  |
| 7 | txtAddress | Text field | 0<length<=300 |  | User’s Address |  |
| 8 | txtPhone | Text field | 8<length<=11  [0-9] |  | User’s Phone |  |
| 9 | txtEmail | Text field | 0<length<=50  /.+@.+\.[a-z]+/ |  | User’s Email |  |
| 10 | btnRegister | Button |  | Click | Register user with the system and redirect to home page |  |

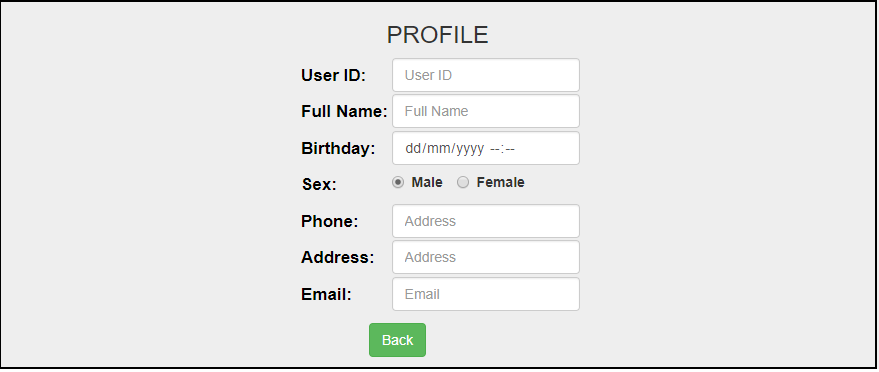
**14.2 Admin Page:**



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | smProfile | Sub Menu |  | Click | Redirect to Profile Page |  |
| 2 | smChangePassword | Sub Menu |  | Click | Redirect to Change Password Page |  |
| 3 | smManageAccount | Sub Menu |  | Click | Redirect to Manage Account Page |  |
| 4 | smCreateAccount | Sub Menu |  | Click | Redirect to Create Page |  |
| 5 | smLogOut | Sub Menu |  | Click | Log out account and redirect to Home Page |  |

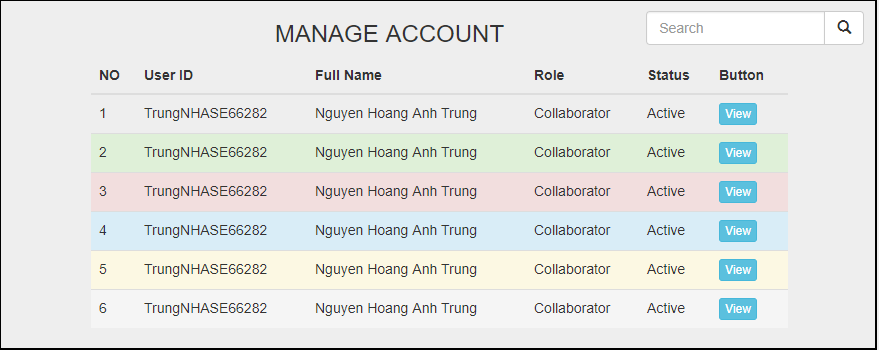
**14.2.1: Profile:**

Display profile of the account.



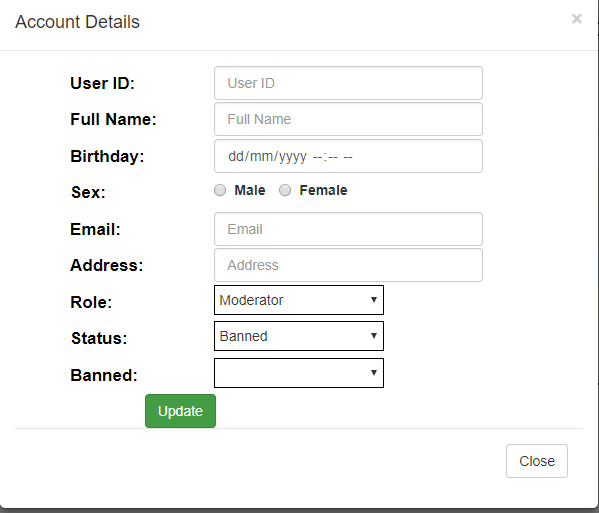
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtUsername | Text field | 6<=length<=50  Not exist in the database |  | Username |  |
| 2 | txtFullname | Text field | 0<length<=50 |  | User’s Name |  |
| 3 | dbBirthday | Date box | Not null | Click | User’s Birthday |  |
| 4 | rbMale | Radio button |  | Click | Gender selection |  |
| 5 | rbFemale | Radio button |  | Click | Gender selection |  |
| 6 | txtAddress | Text field | 0<length<=300 |  | User’s Address |  |
| 7 | txtPhone | Text field | 8<length<=11  [0-9] |  | User’s Phone |  |
| 8 | txtEmail | Text field | 0<length<=50  /.+@.+\.[a-z]+/ |  | User’s Email |  |
| 9 | btnRegister | Button |  | Click | Register user with the system and redirect to home page |  |

**14.2.2: Manage Account Page:**



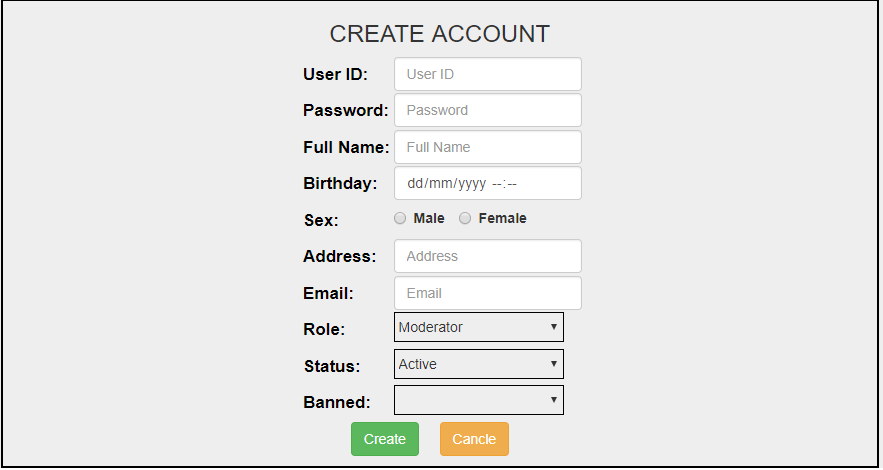
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtSearchTitle | Text field | Not blank |  | Content to Search |  |
| 2 | btnSearch | Button |  | Click | Search post by title and display on table. |  |
| 3 | Table | Table |  |  | Diplay information of posts |  |
| 4 | btnView | Button |  | Click | Show popup “Post Details” |  |

**14.2.2.1: Popup Details:**



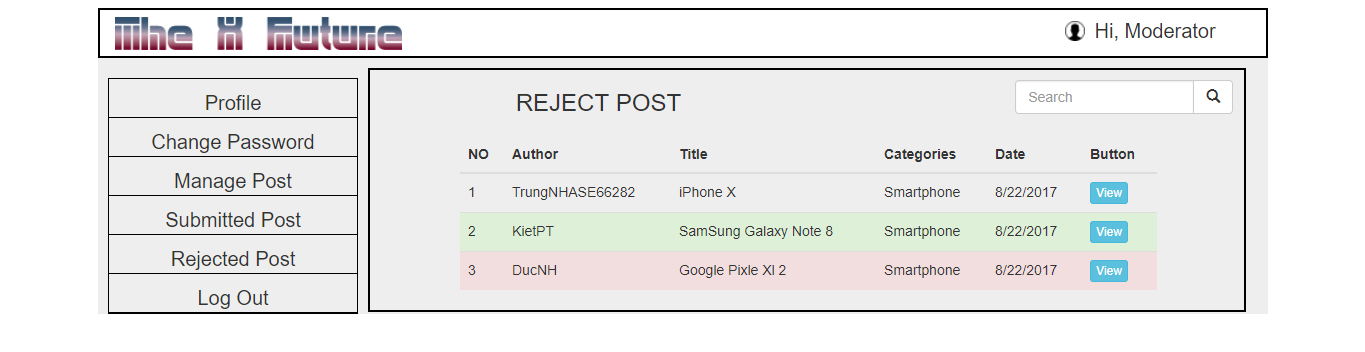
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtUsername | Text field | 6<=length<=50  Not exist in the database |  | Username |  |
| 2 | txtFullname | Text field | 0<length<=50 |  | User’s Name |  |
| 3 | dbBirthday | Date box | Not null | Click | User’s Birthday |  |
| 4 | rbMale | Radio button |  | Click | Gender selection |  |
| 5 | rbFemale | Radio button |  | Click | Gender selection |  |
| 6 | txtAddress | Text field | 0<length<=300 |  | User’s Address |  |
| 7 | cbRole | Combo Box | Moderator, Collaborator, Member |  | User’s Role |  |
| 8 | cbStatus | Combo Box | Banned, Active or Non-Active |  | User’s Status |  |
| 9 | cbBanned | Combo Box | 1 hour, 1 days or Forever |  | User’s banned |  |

**14.2.3: Create account:**



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtUsername | Text field | 6<=length<=50  Not exist in the database |  | Username |  |
| 2 | txtFullname | Text field | 0<length<=50 |  | User’s Name |  |
| 3 | dbBirthday | Date box | Not null | Click | User’s Birthday |  |
| 4 | rbMale | Radio button |  | Click | Gender selection |  |
| 5 | rbFemale | Radio button |  | Click | Gender selection |  |
| 6 | txtAddress | Text field | 0<length<=300 |  | User’s Address |  |
| 7 | cbRole | Combo Box | Moderator, Collaborator, Member |  | User’s Role |  |
| 8 | cbStatus | Combo Box | Banned, Active or Non-Active |  | User’s Status |  |
| 9 | cbBanned | Combo Box | 1 hour, 1 days or Forever |  | User’s banned |  |

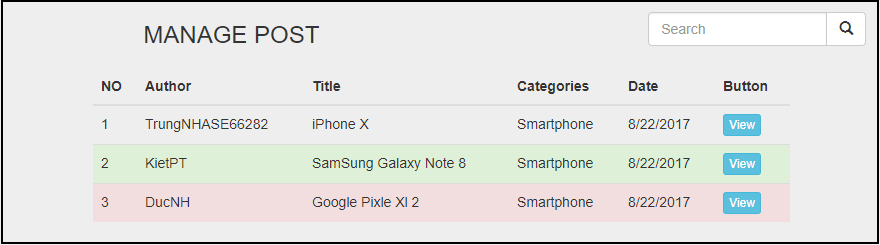
**14.3: Moderator Page:**



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | smProfile | Sub Menu |  | Click | Redirect to Profile Page |  |
| 2 | smChangePassword | Sub Menu |  | Click | Redirect to Change Password Page |  |
| 3 | smManagePost | Sub Menu |  | Click | Redirect to Manage Post Page |  |
| 4 | smSubmittedPost | Sub Menu |  | Click | Redirect to Submitted Post Page |  |
| 5 | smRejectedPost | Sub Menu |  | Click | Redirect to Rejected Post Page |  |
| 6 | smLogOut | Sub Menu |  | Click | Log out account and redirect to Home Page |  |

**14.3.1: Manage Post Page**

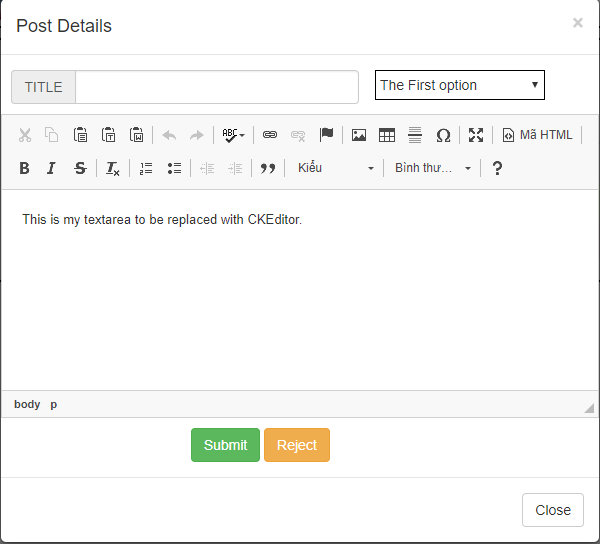
The moderator can view information (Author, Title, Category, Date) all the post of collaborator on this page.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtSearchTitle | Text field | Not blank |  | Content to Search |  |
| 2 | btnSearch | Button |  | Click | Search post by title and display on table. |  |
| 3 | Table | Table |  |  | Diplay information of posts |  |
| 4 | btnView | Button |  | Click | Show popup “Post Details” |  |

**14.3.1.1: Popup Details:**

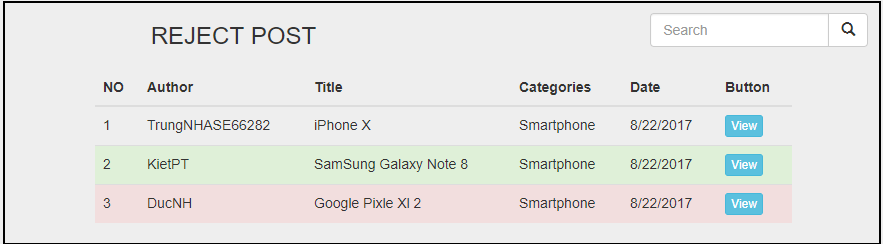
Display content of the post and function button of moderator.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtTitle | Text field | Not blank |  | Title of the post |  |
| 2 | Cbx | ComboBox |  |  | Catetogories of the post |  |
| 3 | Editor | Editor | Only View |  | Display content of the post |  |
| 4 | btnSubmit | Button |  | Click | Submit the post to the server |  |
| 5 | btnReject | Button |  | Click | Reject the post |  |

**14.3.2: Rejected Post Page**

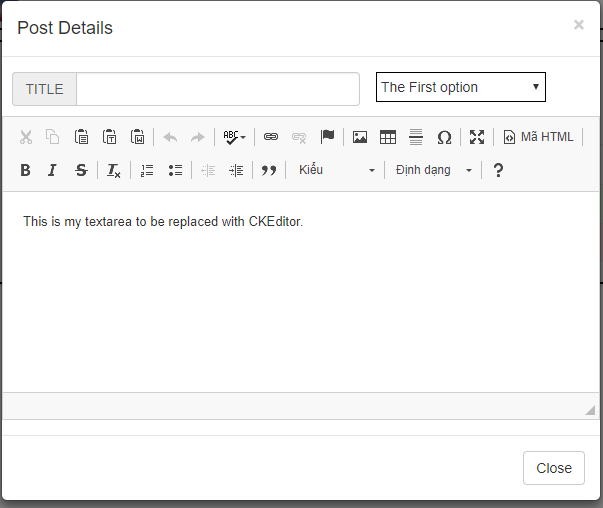
Display the posts be rejected



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtSearchTitle | Text field | Not blank |  | Content to Search |  |
| 2 | btnSearch | Button |  | Click | Search post by title and display on table. |  |
| 3 | Table | Table |  |  | Diplay information of posts |  |
| 4 | btnView | Button |  | Click | Show popup “Post Details” |  |

**14.3.2.1: Popup Details:**

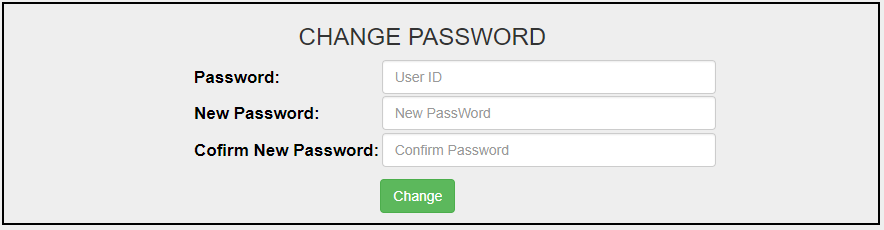
Display content of the post which was rejected.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtTitle | Text field | Not blank |  | Title of the post |  |
| 2 | Cbx | ComboBox |  |  | Catetogories of the post |  |
| 3 | Editor | Editor | Only View |  | Display content of the post |  |

**14.3.3: Change Password Page:**

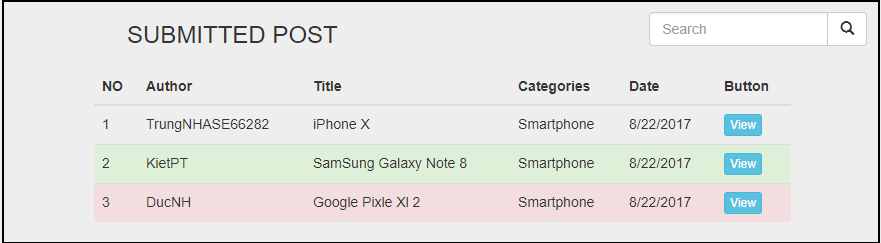
User can change password of their account]



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtOldPass | Text field | Not blank  6<Length<30 |  | Current password of your account |  |
| 2 | txtNewPass | Text field | Not blank  6<Length<30 |  | New Password |  |
| 3 | txtConfirmNewPass | Text field | Not blank  6<Length<30  Equal with New Password |  | Confirm Password |  |
| 4 | btnChange | Button |  | Click | Change password and redirect to Mederator Page |  |

**14.3.4: Submitted Post:**

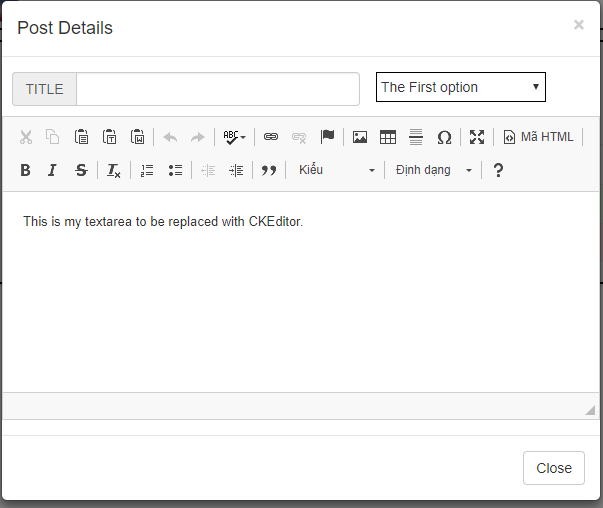
Display the posts be submitted to server.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtSearchTitle | Text field | Not blank |  | Content to Search |  |
| 2 | btnSearch | Button |  | Click | Search post by title and display on table. |  |
| 3 | Table | Table |  |  | Diplay information of posts |  |
| 4 | btnView | Button |  | Click | Show popup “Post Details” |  |

**14.3.4.1: Popup Details:**

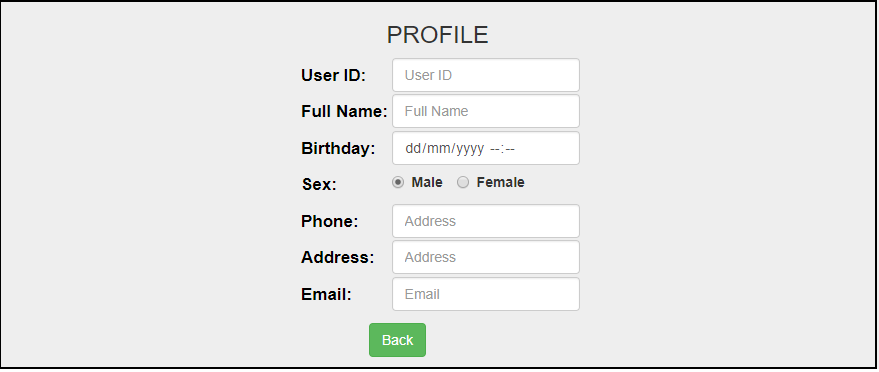
Display content of the post which was submitted.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtTitle | Text field | Not blank |  | Title of the post |  |
| 2 | Cbx | ComboBox |  |  | Catetogories of the post |  |
| 3 | Editor | Editor | Only View |  | Display content of the post |  |

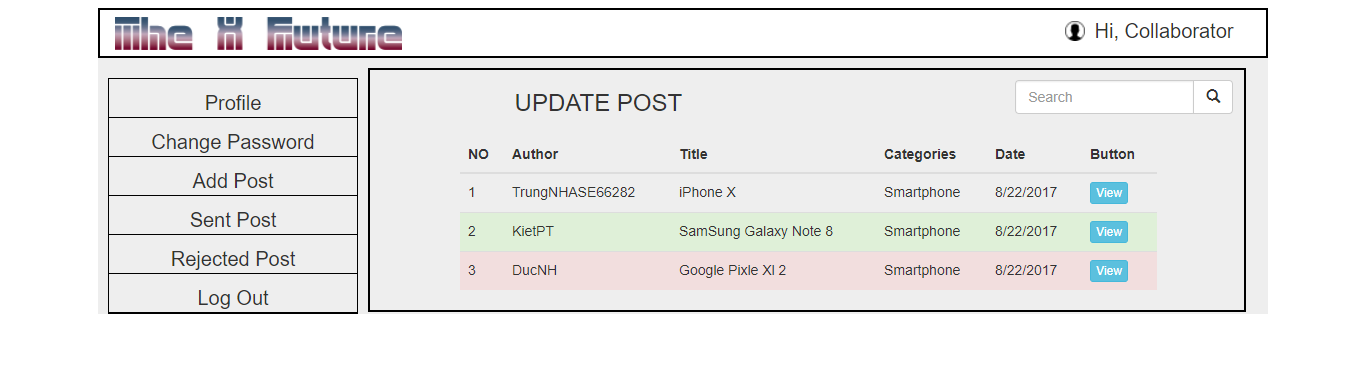
**14.3.5: Profile Page:**

Display profile of the account.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtUsername | Text field | 6<=length<=50  Not exist in the database |  | Username |  |
| 2 | txtFullname | Text field | 0<length<=50 |  | User’s Name |  |
| 3 | dbBirthday | Date box | Not null | Click | User’s Birthday |  |
| 4 | rbMale | Radio button |  | Click | Gender selection |  |
| 5 | rbFemale | Radio button |  | Click | Gender selection |  |
| 6 | txtAddress | Text field | 0<length<=300 |  | User’s Address |  |
| 7 | txtPhone | Text field | 8<length<=11  [0-9] |  | User’s Phone |  |
| 8 | txtEmail | Text field | 0<length<=50  /.+@.+\.[a-z]+/ |  | User’s Email |  |
| 9 | btnRegister | Button |  | Click | Register user with the system and redirect to home page |  |

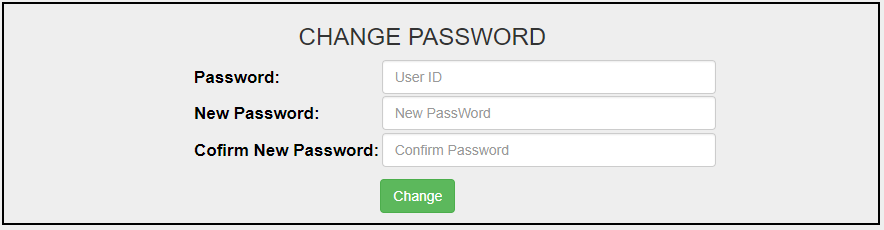
**14.4: Collaborator:**



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | smProfile | Sub Menu |  | Click | Redirect to Profile Page |  |
| 2 | smChangePassword | Sub Menu |  | Click | Redirect to Change Password Page |  |
| 3 | smAddPost | Sub Menu |  | Click | Redirect to Add Post Page |  |
| 4 | smSentPost | Sub Menu |  | Click | Redirect to Sent Post Page |  |
| 5 | smRejectedPost | Sub Menu |  | Click | Redirect to Rejected Post Page |  |
| 6 | smLogOut | Sub Menu |  | Click | Log out account and redirect to Home Page |  |

**14.4.1: Change Password Page:**

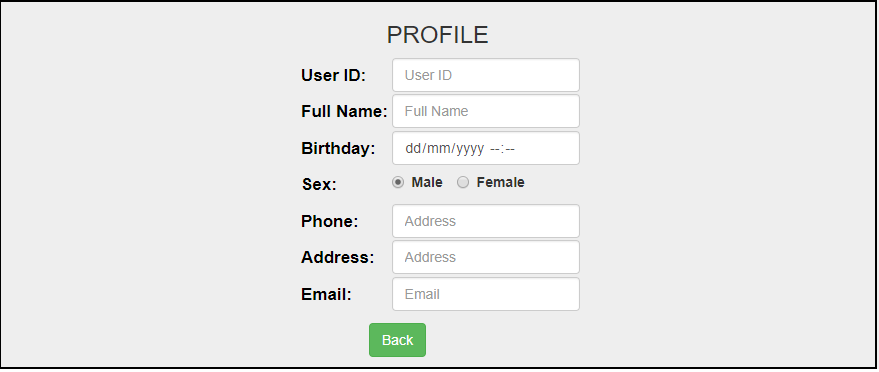
User can change password of their account



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtOldPass | Text field | Not blank  6<Length<30 |  | Current password of your account |  |
| 2 | txtNewPass | Text field | Not blank  6<Length<30 |  | New Password |  |
| 3 | txtConfirmNewPass | Text field | Not blank  6<Length<30  Equal with New Password |  | Confirm Password |  |
| 4 | btnChange | Button |  | Click | Change password and redirect to Collaborator Page |  |

**14.4.2: Profile Page**

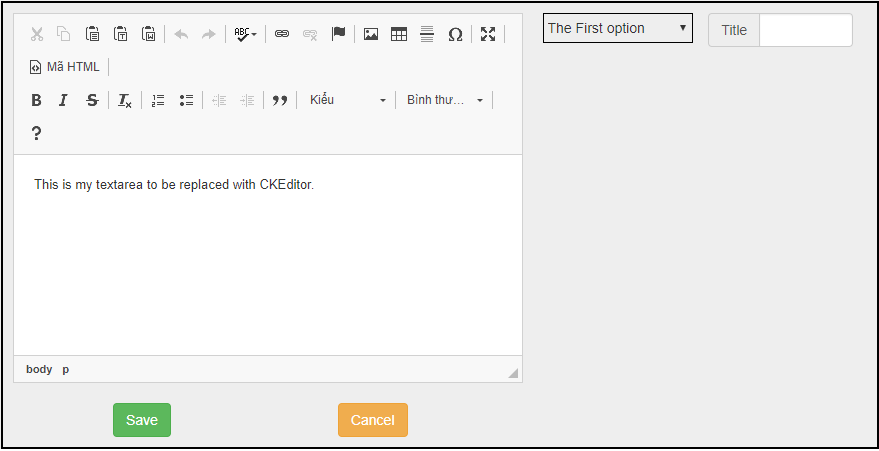
Display profile of the account.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtUsername | Text field | 6<=length<=50  Not exist in the database |  | Username |  |
| 2 | txtFullname | Text field | 0<length<=50 |  | User’s Name |  |
| 3 | dbBirthday | Date box | Not null | Click | User’s Birthday |  |
| 4 | rbMale | Radio button |  | Click | Gender selection |  |
| 5 | rbFemale | Radio button |  | Click | Gender selection |  |
| 6 | txtAddress | Text field | 0<length<=300 |  | User’s Address |  |
| 7 | txtPhone | Text field | 8<length<=11  [0-9] |  | User’s Phone |  |
| 8 | txtEmail | Text field | 0<length<=50  /.+@.+\.[a-z]+/ |  | User’s Email |  |
| 9 | btnRegister | Button |  | Click | Register user with the system and redirect to home page |  |

**14.4.3: Add Post Page:**

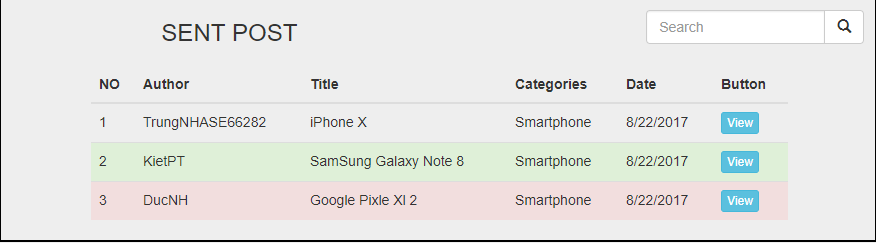
Collaborator can create new post in this page.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtTitle | Text field | Not blank |  | Title of the post |  |
| 2 | Cbx | ComboBox |  |  | Catetogories of the post |  |
| 3 | Editor | Editor | Only View |  | Display content of the post |  |
| 4 | btnSave | Button |  | Click | Submit the post to Collaborator |  |
| 5 | btnCancel | Button |  | Click |  |  |

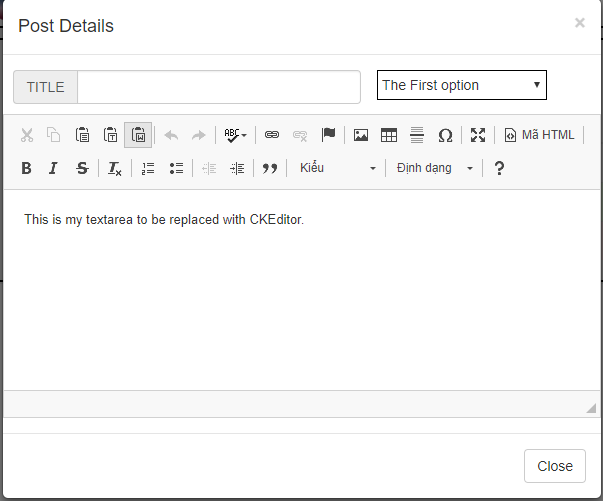
14.4.4: Sent Post:

Display all the post have been sent



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtSearchTitle | Text field | Not blank |  | Content to Search |  |
| 2 | btnSearch | Button |  | Click | Search post by title and display on table. |  |
| 3 | Table | Table |  |  | Diplay information of posts |  |
| 4 | btnView | Button |  | Click | Show popup “Post Details” |  |

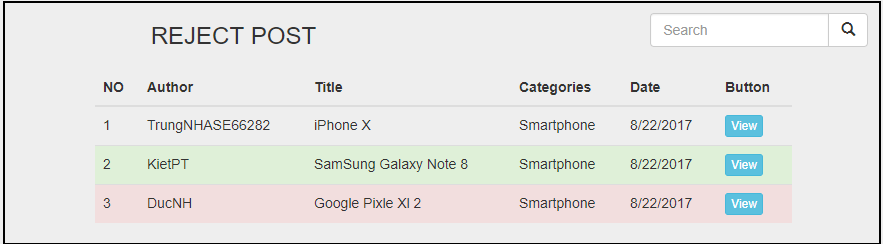
**14.4.4.1: Popup Details:**



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtTitle | Text field | Not blank |  | Title of the post |  |
| 2 | Cbx | ComboBox |  |  | Catetogories of the post |  |
| 3 | Editor | Editor |  |  | Display content of the post |  |

**14.4.5: Rejected Post Page**

Display the posts be rejected



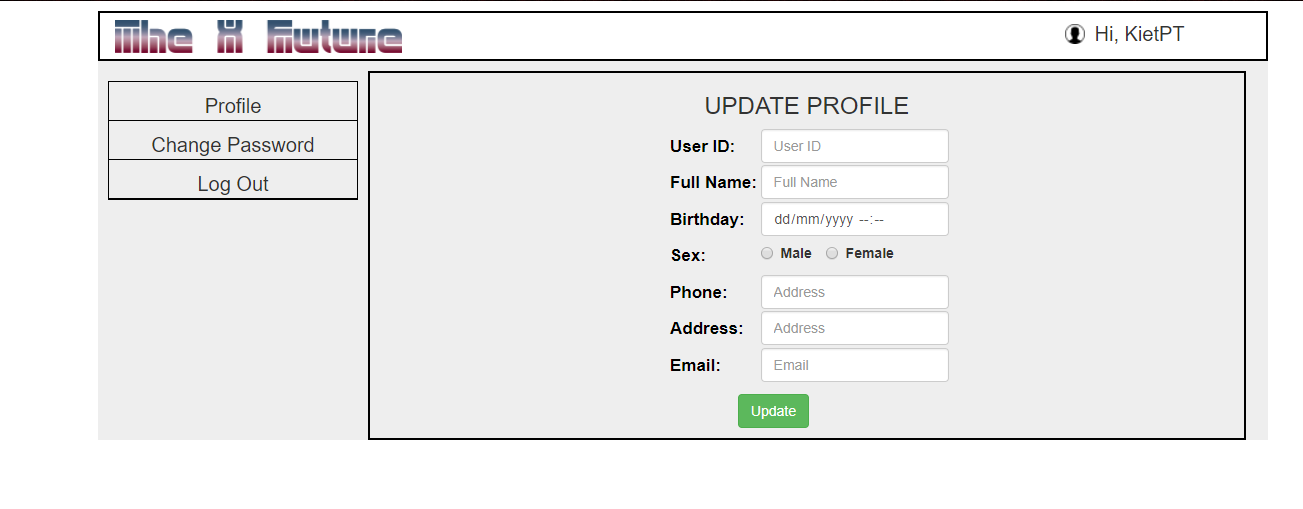
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtSearchTitle | Text field | Not blank |  | Content to Search |  |
| 2 | btnSearch | Button |  | Click | Search post by title and display on table. |  |
| 3 | Table | Table |  |  | Diplay information of posts |  |
| 4 | btnView | Button |  | Click | Show popup “Post Details” |  |

**14.4.5.1: Popup Details:**

Display content of the post which was rejected.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtTitle | Text field | Not blank |  | Title of the post |  |
| 2 | Cbx | ComboBox |  |  | Catetogories of the post |  |
| 3 | Editor | Editor | Only View |  | Display content of the post |  |

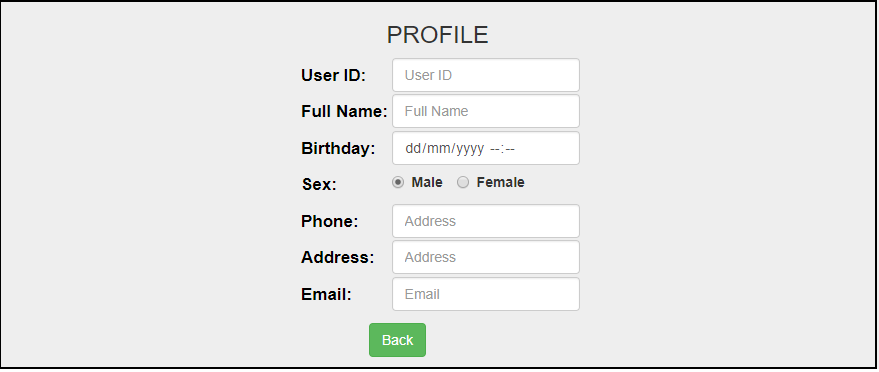
**14.5: Member Page:**



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | smProfile | Sub Menu |  | Click | Redirect to Profile Page |  |
| 2 | smChangePassword | Sub Menu |  | Click | Redirect to Change Password Page |  |
| 3 | smLogout | Sub Menu |  | Click | Log out account and redirect to Home Page |  |

**14.5.1: Profile Page**

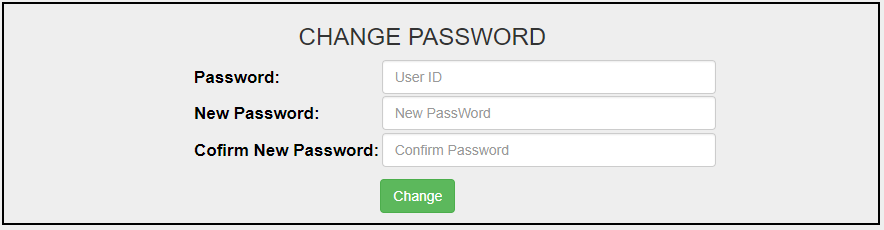
Display profile of the account.



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtUsername | Text field | 6<=length<=50  Not exist in the database |  | Username |  |
| 2 | txtFullname | Text field | 0<length<=50 |  | User’s Name |  |
| 3 | dbBirthday | Date box | Not null | Click | User’s Birthday |  |
| 4 | rbMale | Radio button |  | Click | Gender selection |  |
| 5 | rbFemale | Radio button |  | Click | Gender selection |  |
| 6 | txtAddress | Text field | 0<length<=300 |  | User’s Address |  |
| 7 | txtPhone | Text field | 8<length<=11  [0-9] |  | User’s Phone |  |
| 8 | txtEmail | Text field | 0<length<=50  /.+@.+\.[a-z]+/ |  | User’s Email |  |
| 9 | btnRegister | Button |  | Click | Register user with the system and redirect to home page |  |

**14.5.2: Change Password Page:**

User can change password of their account



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | txtOldPass | Text field | Not blank  6<Length<30 |  | Current password of your account |  |
| 2 | txtNewPass | Text field | Not blank  6<Length<30 |  | New Password |  |
| 3 | txtConfirmNewPass | Text field | Not blank  6<Length<30  Equal with New Password |  | Confirm Password |  |
| 4 | btnChange | Button |  | Click | Change password and redirect to Collaborator Page |  |

MONITORING REPORT

Unit Test

# Login

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | | | | | |
| **Test case name** | Login | | | | | |
| **Actor** | Reader | | | | | |
| **Pre-requisite** |  | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Login | 1 | From ‘Login’ popup, left all textfield blank and then click on to the ‘Login’ button. |  | A red message line appears with content: “UserName and Password is invalid” |  | DONE |
| 2 | Enter UserName in ‘UserName’ textfield and then click ‘Login’ button. | Abcdef | A red message box appears with content: “Password can’t be blank” |  | DONE |
| 3 | Enter Password in ‘Password’ textfield and then click ‘Login’ button. | Abcdef | A red message box appears with content: “Username can’t be blank.” |  | DONE |
| 4 | Enter UserName in ‘UserName’ textfield, enter Password in ‘Password’ textfield (with UserName and Password of an member account) and then click ‘Login’ button. | UserName: ducnh62389  Password: ducnh62389 | Redirect to Home Page. |  | DONE |
| 5 | Enter UserName in ‘UserName’ textfield, enter Password in ‘Password’ textfield (with UserName and Password of an Collaborator account) and then click ‘Login’ button. | UserName: ducnh102  Password: ducnh102 | Redirect to Collaborator page. |  | DONE |
| 6 | Enter UserName in ‘UserName’ textfield, enter Password in ‘Password’ textfield (with UserName and Password of an Moderator account) and then click ‘Login’ button. | UserName: ducnh100297  Password: ducnh100297 | Redirect to Moderator page. |  | DONE |
| 7 | Enter UserName in ‘UserName’ textfield, enter Password in ‘Password’ textfield (with UserName and Password of an Admin account) and then click ‘Login’ button. | UserName: ducnhse62389  Password: ducnhse62389 | Redirect to Admin page. |  | DONE |

# Register

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | | | | | |
| **Test case name** | Register | | | | | |
| **Actor** | reader | | | | | |
| **Pre-requisite** |  | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Register | 1 | From ‘Home’ page, click on to the ‘Register’ button. |  | Show popup Register |  | DONE |
| 2 | From ‘Register’ page, left all textfield blank and then click on to the ‘Register’ button. |  | A validation message point to ‘UserName’ text field with content: “UserName cannot be blank” |  | DONE |
| 3 | Enter UserName in ‘UserName’ textfield and then click ‘Register’ button. | Duc | A validation message point to ‘Password’ text field with content: “Password cannot be blank” |  | DONE |
| 4 | Enter Password in ‘Password’ textfield and then click ‘Register’ button. | Hien | A validation message point to ‘ConFirm Password’ text field with content: “Password Confirm cannot be blank” |  | DONE |
| 5 | Enter Confirm Password in ‘ConFirm Password’ textfield and then click ‘Register’ button. | hien1 | A validation message point to ‘‘Name’ text field with content: “Name cannot be blank” |  | DONE |
| 6 | Enter Name in FullName’ textfield and then click ‘Register’ button. | Duc | A validation message point to ‘Birthday’ datebox with content: “Birthday cannot be blank” |  | DONE |
| 7 | Select current date from the ‘Birthday’ datebox and then click ‘Register’ button. | 10-02-1997 | A validation message point to ‘Address’ text field with content: “Address cannot be blank” |  | DONE |
| 8 | Enter Address in ‘Address’ textfield and then click ‘Register’ button. | TPHCM | A validation message point to ‘Phone’ int box with content: “Phone cannot be blank” |  | DONE |
| 9 | Enter Phone in ‘Phone’ int box and then click ‘Register’ button. | 1 | A validation message point to ‘Email’ text field with content: “Email cannot be blank” |  | DONE |
| 10 | Enter Email in ‘Email’ text field and then click ‘Register’ button. | duc | A validation message point to ‘Email’ text field with content: “Email is invalid” |  | DONE |
| 11 | Enter Email in ‘Email’ text field and then click ‘Register’ button. | ducnh@gmail.com | A validation message point to ‘Username’ text field with content: “UserName must be 6 to 30 characters” |  | DONE |
| 12 | Enter another UserName in ‘UserName’ textfield and then click ‘Register’ button. | Ducduc | A validation message point to ‘Confirm Password’ text field with content: “Confirm Password not match Password” |  | DONE |
| 15 | Enter Username in “Username” textfield and then click “Register” button | EMEHe | A message box appears with content: “This Username has already exist!” |  | DONE |

# View Profile

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | | | | | |
| **Test case name** | View Profile | | | | | |
| **Actor** | Member | | | | | |
| **Pre-requisite** | Actor has already logged into the System as a member, moderator, collaborator, admin | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| View  Profile | 1 | From Home Page, member click button “Profile” |  | Redirect to ‘Update Profile’ page, load all User profile information, and fill onto the form. |  | DONE |

# Change Password

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | | | | | |
| **Test case name** | Change Password | | | | | |
| **Actor** | All Users | | | | | |
| **Pre-requisite** | Actor has already logged into the System as member, moderator, collaborator, admin | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Change Password | 1 | Actor click “Change password” button |  | Redirect to “Change Password” page. |  | DONE |
| 2 | Left ‘Old Password’ text field and then click OK button. |  | A message box appears with content: “The Old Password cannot be blank.” |  | DONE |
| 3 | Left ‘New Password’ text field and then click OK button. |  | A message box appears with content: “The New Password cannot be blank.” |  | DONE |
| 4 | Left ‘Confirm New Password’ text field and then click OK button. |  | A message box appears with content: “The Confirm New Password cannot be blank.” |  | DONE |
|  | 5 | Input Old Password, New password, Confirm Password | Old Password: abc123  New Password: cba321  Confirm New Password: qazxsw123 | A message box appears with content: “The Confirm New Password must be equal with Old Password.” |  | DONE |

1. **Log out**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Nguyễn Hồng Đức | | | | | |
| **Test case name** | Log out | | | | | |
| **Actor** | All users | | | | | |
| **Pre-requisite** | Actor has already logged into the System as a member, moderator, collaborator, admin | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Log out | 1 | User click “Log out” button |  | Show popup message:  “Are you sure to log out!?” |  | DONE |
|  | 2 | User click button “Yes” |  | Redirect to homepage |  | DONE |
|  | 3 | User click button “No” |  | Popup is disappeared |  | DONE |

1. **Add Post By Collaborator**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Pham Tuấn Kiệt | | | | | |
| **Test case name** | Add Post | | | | | |
| **Actor** | Collaborator | | | | | |
| **Pre-requisite** |  | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Add Post | 1 | From “Add Post” page, left all content of post ( title – text filed, symbol Picture-file, Main Content-text filed, content-text area) and after that click “Send” button |  | A message box appears with content: please input title, main content, symbol Pic |  | DONE |
| 2 | From “Add Post” page, left Title-text field and after that click “Submit” button. |  | A message box appears with content: “Please input title ” |  | DONE |
| 3 | From “Add Post” page, left Main Content - text field and after that click “Submit” button |  | A message box appears with content: “Please input Main Content ” |  | DONE |
| 4 | From “Add Post” page, left Symbol Pic-file and after that click “Submit” button. |  | A message box appears with content: “Please choose file ” |  | DONE |
| 5 | From “Add Post” page, left Content – text Area and after that click “Submit” button. |  | A message box appears with content: “Please input Content ” |  | DONE |
|  | 6 | From “Add Post” page, input full of content of post ( title – text filed, symbol Picture-file, Main Content-text filed, content-text area) and after that click “Submit” button |  | A message box appears with content: “Send Successfully” |  | DONE |
| 7 | From “Add Post” page, click “Cancel” button |  | Redirect “Add Post” page |  | DONE |
|  | 8 | From “Add Post” page, click “Save Draft” button |  | A message box appears with content: “Save Draft Successfully” |  | DONE |

1. **Update Post By Collaborator**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Pham Tuấn Kiệt | | | | | |
| **Test case name** | Add Post | | | | | |
| **Actor** | Collaborator | | | | | |
| **Pre-requisite** |  | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Add Post | 1 | From “Update Post” page, click “View” button |  | Display a contain of detail post page , “Submit” button |  | DONE |
| 2 | From “Update Post” page, left all content of post (title – text filed, symbol Picture-file, Main Content-text filed, content-text area) and after that click “Update” button |  | A message box appears with content: please input title, main content symbol Pic |  | DONE |
| 3 | From “Update Post” page, left Title-text field and after that click “Update” click button. |  | A message box appears with content: “Please input title ” |  | DONE |
|  | 4 | From “Update Post” page, left Main Content - text field and after that click “Update” button |  | A message box appears with content: “Please input Main Content ” |  | DONE |
|  | 5 | From “Update Post” page, left Symbol Pic-file and after that click “Update” button. |  | A message box appears with content: “Please choose file ” |  | DONE |
|  | 6 | From “Update Post” page, left Content – text Area and after that click “Update” button. |  | A message box appears with content: “Please input Content ” |  | DONE |
|  | 7 | From “Update Post” page, input full of content of post (Category-Combo box, title – text filed, symbol Picture-file, Main Content-text filed, content-text area) and after that click “Update” button |  | A message box appears with content: “Update Successfully” |  | DONE |
|  | 8 | From “Update Post” page, left search-text field and after that click “Search” button |  | A message box appears with content: “please input title to search” |  | DONE |
|  | 2 | From “Submitted Post” page, input search-text field and after that click  “Search” button |  | A Table of display  table(No, Author, Date Submitted, Category “View” button) |  | DONE |

1. **Save Draft Post By Collaborator**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Pham Tuấn Kiệt | | | | | |
| **Test case name** | Save Draft Post | | | | | |
| **Actor** | Collaborator | | | | | |
| **Pre-requisite** |  | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Add Post | 1 | From “Save Draft Post” page, click “View” button |  | Display a detail post page , “Submit” button |  | DONE |
| 2 | From “Update Post” page, left all content of post (title – text filed, symbol Picture-file, Main Content-text filed, content-text area) and after that click “Submit” button |  | A message box appears with content: please input title, main content symbol Pic |  | DONE |
| 3 | From “Post Detail Page” page, left Title-text field and after that click “Update” click button. |  | A message box appears with content: “Please input title ” |  | DONE |
|  | 4 | From “Post Detail Page” , left Main Content - text field and after that click “Update” button |  | A message box appears with content: “Please input Main Content ” |  | DONE |
|  | 5 | From “Post Detail Page” page, left Symbol Pic-file and after that click “Update” button. |  | A message box appears with content: “Please choose file ” |  | DONE |
|  | 6 | From “Post Detail Page” page, left Content – text Area and after that click “Update” button. |  | A message box appears with content: “Please input Content ” |  | DONE |
|  | 7 | From “Post Detail Page” page, input full of content of post (Category-Combo box, title – text filed, symbol Picture-file, Main Content-text filed, content-text area) and after that click “Update” button |  | A message box appears with content: “Submit Successfully” |  | DONE |
|  | 8 | From “Save Draft Post Page” page, left search-text field and after that click “Search” button |  | A message box appears with content: “please input title to search” |  | DONE |
|  | 9 | From “Save Draft Post Page”, input search-text field and after that click  “Search” button |  | A Table of display  table(No, Author, Date Submitted, Category “View” button) |  | DONE |
|  | 10 | From “Save Draft Post Page”, input search-text field and after that click  “Search” button but not found |  | A message box appears with content “Not Found” |  | DONE |

1. **Submitted Post by Collaborator**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Pham Tuấn Kiệt | | | | | |
| **Test case name** | Add Post | | | | | |
| **Actor** | Collaborator | | | | | |
| **Pre-requisite** |  | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Add Post | 1 | From “Submitted Post” page, left search-text field and after that click “Search” button |  | A message box appears with content: “please input title to search” |  | DONE |
| 2 | From “Submitted Post” page, input search-text field and after that click  “Search” button |  | A Table of display  table(No, Author, Date Submitted, Category “View” button) |  | DONE |
| 3 | From “Submitted Post” page, click “View” button |  | Display a contain of detail post page |  | DONE |
|  | 4 | From “Submitted Post” page, input to search-text field and after that click “Search” button but not found |  | A message box appears with content: “Not found” |  | DONE |

**10 Manage Post**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Pham Tuấn Kiệt | | | | | |
| **Test case name** | Add Post | | | | | |
| **Actor** | Moderator | | | | | |
| **Pre-requisite** |  | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Manage Post | 1 | From “Manage Post” page, left search-text field and after that click “Search” button |  | A message box appears with content: “please input title to search” |  | DONE |
| 2 | From “Manage Post” page, input search-text field and after that click Search button |  | A Table of display  table(No, Author, Date Submitted, Category “View” button) |  | DONE |
| 3 | From “Manage Post” page, click “View” button |  | Display a detail post detail page, “Submit” button, “Reject” button ,title, category combobox , main content, symbolPic |  | DONE |
| 4 | From “Post detail Page” click “Submit” button |  | A message box appears with content: “Submitted Successfully ” redirect Manage Post Page |  | DONE |
| 5 | From “Post detail” frame, click “Reject” button |  | A message box appears with content: “Reject Successfully” and redirect “Manage Post” Page |  | DONE |
|  | 7 | From “Manage Post” page, input special letter to search-text field and after that click “Search” button | !@$$#%#%#^^^# | A message box appears with content: “Not found” |  | DONE |
|  | 4 | From “Manage Post” page, input to search-text field and after that click “Search” button but not found |  | A message box appears with content: “Not found” |  | DONE |

**11 Summited Post By Moderator**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Pham Tuấn Kiệt | | | | | |
| **Test case name** | Add Post | | | | | |
| **Actor** | Moderator | | | | | |
| **Pre-requisite** |  | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Add Post | 1 | From “Submitted Post” page, left search-text field and after that click “Search” button |  | A message box appears with content: “please input title to search” |  | DONE |
| 2 | From “Submitted Post” page, input search-text field and after that click  “Search” button |  | A Table of display  table(No, Author, Date Submitted, Category “View” button) |  | DONE |
| 3 | From “Submitted Post” page, click “View” button |  | Display a contain of detail post page |  | DONE |
|  | 4 | From “Submitted Post” page, input to search-text field and after that click “Search” button but not found |  | A message box appears with content: “Not found” |  | DONE |

**12 Rejected Post By Moderator**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Author** | Pham Tuấn Kiệt | | | | | |
| **Test case name** | Add Post | | | | | |
| **Actor** | Moderator | | | | | |
| **Pre-requisite** |  | | | | | |
| **Process** | **Step No.** | **Action/Description** | **Input Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| Add Post | 1 | From “Rejected Post” page, left search-text field and after that click “Search” button |  | A message box appears with content: “please input to search” |  | DONE |
| 2 | From “Rejected Post” page, input search-text field and after that click Search button |  | A Table of display  table(No, Author, Date Submitted, Category “View” button) |  | DONE |
| 3 | From “Rejected Post” page, click “View” button |  | Display Post Detail Page |  | DONE |
|  | 4 | From “Rejected Post” page, input to search-text field and after that click “Search” button but not found |  | A message box appears with content: “Not found” |  | DONE |

TASK SHEET

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Ref. No 1** | | **Project Title** | **Activity Plan Prepared By** | **Date of Preparation of Activity Plan** | | | | |
| **Sr. No** | **Task** | **Start Date** | **End Date** | **Actual Days** | **Member’s name** | **Status** |
| **CRS document** | | | | | | | | |
| 1 | Introduction | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 3 | All of Team | FINISH |
| 2 | Existing Scenario | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 3 | All of Team | FINISH |
| 3 | Customer Requirement Specification | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 3 | All of Team | FINISH |
| 4 | Functional Requirement Specification | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 3 | All of Team | FINISH |
| 5 | System Requirements | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 3 | All of Team | FINISH |
| 6 | Development Software | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 3 | All of Team | FINISH |
| **Use Case and Sequence Diagrams** | | | | | | | | |
| 7 | Login | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hồng Đức | FINISH |
| 8 | Logout | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hồng Đức | FINISH |
| 9 | Update Profile | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hồng Đức | FINISH |
| 10 | Change Pass | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hồng Đức | FINISH |
| 11 | Create Account | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hồng Đức | FINISH |
| 12 | View Information | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hồng Đức | FINISH |
| 13 | Ban Account | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hồng Đức | FINISH |
| 14 | Set role | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hồng Đức | FINISH |
| 15 | Create Comment | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 16 | Show Comment | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 17 | Add Post | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt | FINISH |
| 18 | Submit Post | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt | FINISH |
| 19 | Save Draft Post | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt | FINISH |
| 20 | Update Post | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt | FINISH |
| 21 | Manage Post | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt | FINISH |
| 22 | View Post Detail | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt | FINISH |
| 23 | Reject Post | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt | FINISH |
| **ERD** | | | | | | | | |
| 23 | Conceptual | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt Nguyễn Hồng Đức | FINISH |
| 24 | Logical | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt Nguyễn Hồng Đức | FINISH |
| 25 | Table | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt Nguyễn Hồng Đức | FINISH |
| 26 | Database Relationship | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt Nguyễn Hồng Đức | FINISH |
| 27 | Table Definition | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt Nguyễn Hồng Đức | FINISH |
| **GUI** | | | | | | | | |
| 28 | home | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 29 | Login Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 30 | Register Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 31 | Laptop Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 32 | Camera Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 33 | Mobile Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 34 | Post Detail Index Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 35 | UpdateProfile Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 36 | Change Password Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 37 | Add Post Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 38 | Save Draft Post Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 39 | Summited Post Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 40 | Update Post Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 41 | Manage Post Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 42 | Summited Post Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 43 | Rejected Post Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 44 | Create Account By Admin Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 45 | Manage Account By Admin Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 46 | Manage Post By Admin Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 47 | Post Detail Manage Page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| **Permission Security** | | | | | | | | |
| 110 | Home page | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Nguyễn Hoàng Anh Trung | FINISH |
| 48 | Admin | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 4 | Phạm Tuấn Kiệt  Nguyễn Hồng Đức | FINISH |
| **Task sheet** | | | | | | | | |
| 112 | Task sheet | X-Future | Phạm Tuấn Kiệt | 09/16/2017 | 09/22/2017 | 1 | Phạm Tuấn Kiệt | FINISH |