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WEB PHOTO SHARE

Design Document

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REVIEW I

I. Acknowledgment

We would like to acknowledge all those who have given support and help us make the project a success.

We wish to express our deep gratitude to all teachers who have been devoting their lives to teach us how to stand-alone and walk ahead.

We are grateful to our families who take care and encourage us even though we are successful or failed, also to our friends who are always care of us. They never leave us alone and always look forward to us when we are on any road of the life.

We are much thankful to the entire staff and chairpersons at the Head Office of Aptech Worldwide, Aptech – Vietnam, and FPT – Aptech Centre who have been organizing and looking after our studying course.

There are no words to show our appreciation for teachers of FPT Aptech Centre who have been organizing and looking after us during our studying course to finish this project. Our special thanks not only Mr Nguyen Ngo Phuoc who works day by day to teach and guide us in our travel to discover the wonder of Java Programming Language but also mentors in e-Project Team at the Head Office who instruct and help us.

Finally, we would like to offer many thanks to all our schoolfellows for their valuable suggestions.

We would like to thank sincerely!

Group 1 – FPT Aptech.

II. Problem Definition

1. Introduction

Our client has a passion of collecting various kinds of pictures. He is having a large collection of photographs of nature, sceneries, miscellaneous ones, and the wild animal s photographs, etc. He now wants to share his collection with everyone. And so he has approached us for building the site for him, where the picture files can be uploaded, and viewed on the site (i.e., downloaded from the site). He also wants the users of the website to be able to upload the file, thereby providing the facility of sharing the pictures of sceneries, miscellaneous pictures, etc. with the help of the site.

So he has approached us for helping him by building a website through which the pictures can be uploaded over the site.

2. Existing Scenario

The website system allows visitor sign up for an account. After approved by Administrator, registered users can upload up to maximum of 35 images over the site and share their own uploaded images. Images could be able to share by these following methods:

- Share with Friends: Friends of user can view and place comments on shared images
- Share to Public: Non-registered/visitors can view shared images
- Share to Social Network: Images can be share to Social network like: Facebook, Twitter...

III. Customer Requirement Specification

The customer wants the following tasks to be implemented in the website.

1. The menu of the website should include the following.
 - Home Page
 - Login Page or Register Page
 - (A) Upload the picture files
 - (B) View the picture files
 - (C) Delete the picture files (the user can only delete the files which are uploaded by him)
 - About the Site
 - Feedback
 - FAQ s
 - Contact Information
2. On the home page the following details are to be displayed.
 - The details of the new pictures that are uploaded
 - The details of the new users of the website (like how many have registered with the site today)
 - The details of the total number of users (total number of registered users of the site)
3. The user after registering with the site will only be able to access the site once approved by the administrator.
4. The administrator once approves, a mail is to be sent to the user's mail id automatically indicating that the registration is accepted. And if the registration is declined, then also the mail is to be sent automatically to the users email id, stating that the registration is declined.
5. The administrator (the site owner will have the right to cancel or allow the user, once they are registered)
6. Only the registered users should be able to upload the file or view the file. i.e., the registered users will only be able to share the file.
7. Once the user logs into the site, the following menu should appear
 - Home Page
 - User Profile (Here the profile of the user is to be displayed. In this page itself the user should be able to edit the profile).
 - View the picture files
 - Upload a picture file
 - The picture files uploaded by me (here only the picture files uploaded by this user will be visible). In this link itself the user should be able to update or re-upload the file, and also should be able to delete the file
 - About the Site
 - Feedback

- FAQ s
 - Contact Information
8. On the upload link page, the following details are to be included
 - The name of the picture file
 - The description of the picture file
 - Link for uploading the file
 9. Each registered user should only be able to upload up to a maximum of 35 images. If this limit is crossed, then it should give an error message stating that the user should delete one of the files to upload a new one.
 10. On the Feedback page, the users of the site should be able to post their feedback or their queries. The queries thus posted will then be answered by the administrator (site owner).
 11. The FAQ s Page will have the following questions, along with their answers.
 - How to view the image files?
 - How to register with the site?
 - How to download the picture file?
 - How to upload the picture file?
 - How to post a Query?
 - Is there any limitation in uploading files?

The administrator will have the right to answer the query, view or edit or delete the FAQ's.

IV. Functional Requirements Specification

1. Website

- The menu of the website should include the following.
 - Home Page
 - Login Page or Register Page
 - About the Site
 - Feedback
 - FAQ s
 - Contact Information
- On the home page the following details are to be displayed.
 - The details of the new pictures that are uploaded
 - The details of the new users of the website (like how many have registered with the site today)
 - The details of the total number of users (total number of registered users of the site)
- The FAQ s Page will have the following questions, along with their answers.
 - How to view the image files?
 - How to register with the site?
 - How to download the picture file?
 - How to upload the picture file?
 - How to post a Query?
 - Is there any limitation in uploading files?

2. Registered User

- The user after registering with the site will only be able to access the site once approved by the administrator.
- Only the registered users should be able to upload the file or view the file. i.e., the registered users will only be able to share the file.
- Once the user logs into the site, the following menu should appear
 - o Home Page
 - o User Profile (Here the profile of the user is to be displayed. In this page itself the user should be able to edit the profile).
 - o View the picture files
 - o Upload a picture file
 - o The picture files uploaded by me (here only the picture files uploaded by this user will be visible). In this link itself the user should be able to update or re-upload the file, and also should be able to delete the file
 - o About the Site
 - o Feedback
 - o FAQ s
 - o Contact Information
- On the upload link page, the following details are to be included
 - o The name of the picture file
 - o The description of the picture file
 - o Link for uploading the file
- Each registered user should only be able to upload up to a maximum of 35 images. If this limit is crossed, then it should give an error message stating that the user should delete one of the files to upload a new one
- On the Feedback page, the users of the site should be able to post their feedback or their queries.

3. Administrator

- Administrator will have ability of managing (include create new / edit / delete):
 - Collections
 - FAQs
 - Contact information with option to answer
 - Uploaded images by users
- Manage user registration:
 - The administrator once approves, a mail is to be sent to the user's mail id automatically indicating that the registration is accepted. And if the registration is declined, then also the mail is to be sent automatically to the users email id, stating that the registration is declined.
 - The administrator (the site owner will have the right to cancel or allow the user, once they are registered)
- Manage Feedback:
 - The queries thus posted will then be answered by the administrator (site owner)

V. Hardware / Software Requirements

1. Hardware Requirements

Component	Requirement
Server	Processor type: Pentium III-compatible processor or faster Processor speed: Recommended: 2.0 GHz or faster
OS	Microsoft Windows Server 2003 or higher
Memory (RAM)	RAM: Minimum: 512 MB Recommended: 2.048 GB or more Maximum: Operating system maximum
Hard Drive	Free space: Minimum: 50 MB Recommended: 50 GB or more Maximum: Operating system maximum

2. Software Requirements

Component	Requirement
JDK	Java Development Kit 7
J2EE	Java 2 Platform, Enterprise Edition 7
IDE	NetBeans IDE 7.3.1
RDBMS	Microsoft SQL Server 2008

VI. Development Software

Component	Requirement
JDK	Java Development Kit 7
J2EE	Java 2 Platform, Enterprise Edition 7
IDE	NetBeans IDE 7.3.1
RDBMS	Microsoft SQL Server 2008
Design tool	Adobe Photoshop CS 6
HTML Editor	Adobe Dreamweaver CS6
SVN	TortoiseSVN 1.8
Application server	GlassFish Server Open Source Edition 4.0

VII. Technology

- HTML 5 & CSS 3.0
- jQuery JavaScript library
- AJAX development techniques
- Model–view–controller (MVC) software architecture pattern
- commons-fileupload-1.3
- commons-io-2.4
- Enterprise JavaBeans (EJB)
- Java 2 Platform, Enterprise Edition 7
- Java Development Kit 7
- Java Servlet programming language class
- Java Database Connectivity

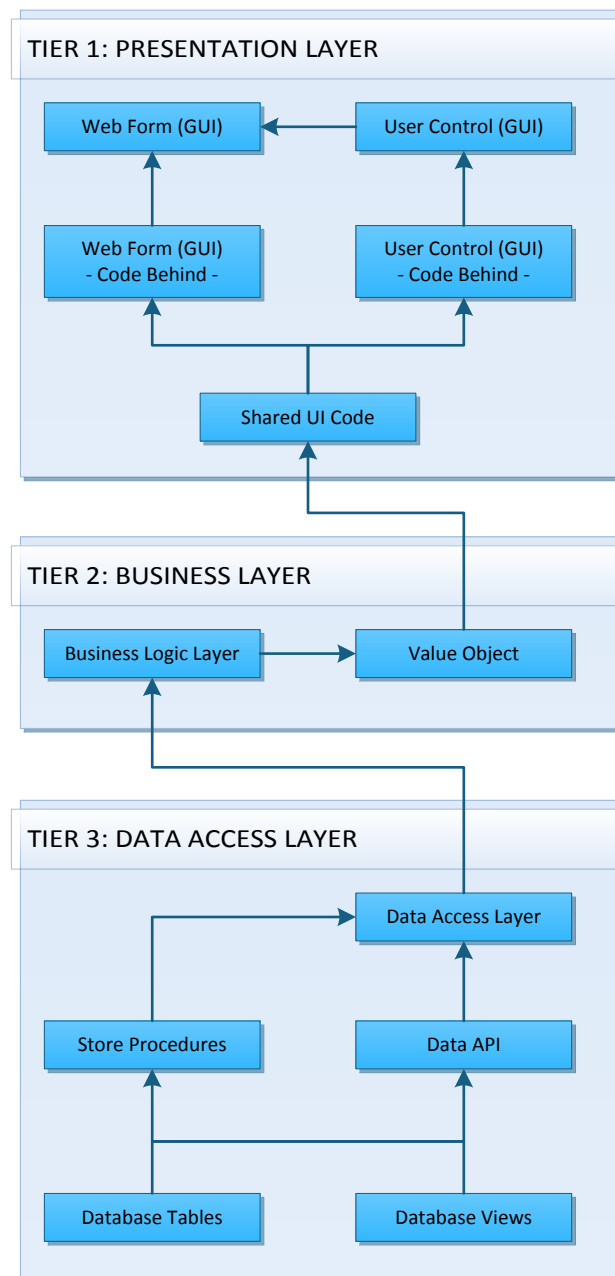
VIII. Task sheet review 1

Project Title: Web Photo Share		Project Ref. No: 1			
		Date of Preparation of Activity Plan			
No.	Task	Start Date	Actual Days	Member Names	Status
01	Acknowledgment	September 23, 2013	3	All Members	Completed
02	Problem Definition				Completed
03	Customer Requirement				Completed
04	Function Requirement				Completed
05	Hardware/Software				Completed
06	Development Software				Completed
07	Technology				Completed
08	Task sheet				Completed

	Prepare By: Group 1	Approved By: Faculty
Date: Sep 26, 2013	Team Leader Nguyen Vu Hung	Nguyen Ngo Phuoc

REVIEW II

I. Architecture & Design of the Project



Three-Tier Architecture of the Project

1. Presentation Tier:

Is the tier in which the users interact with an application. Presentation Tier contents Shared UI code, Code Behind and Designers used to represent information to user.

Technology:, HTML 5 & CSS 3.0, jQuery JavaScript library, AJAX development techniques,

2. Business Logic Tier:

Is mainly working as the bridge between Data Tier and Presentation Tier. All the Data passes through the Business Tier before passing to the Presentation Tier.

Technology: OOP, Java Servlet programming language class

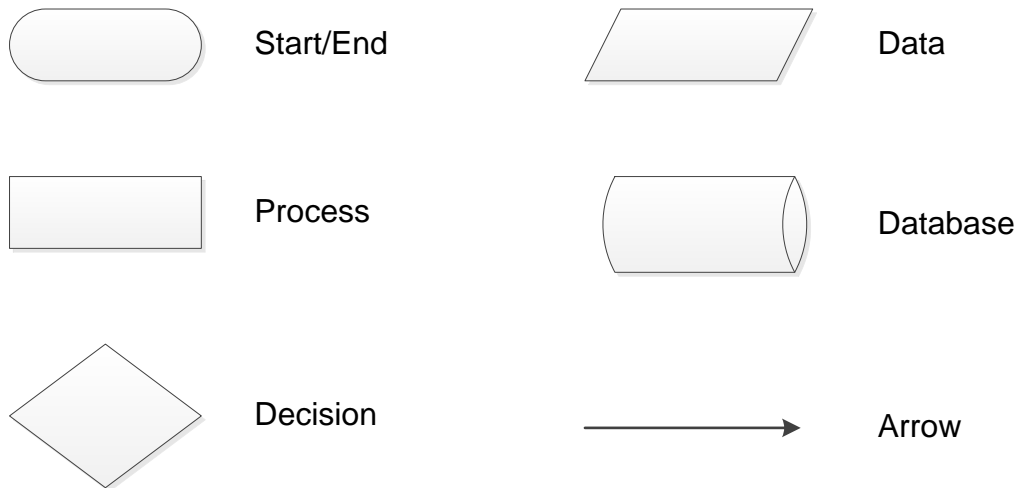
3. Data Access Tier:

Is basically the server which stores all the application's data. Data tier contents Database Tables, Database Views and other means of storing Application Data.

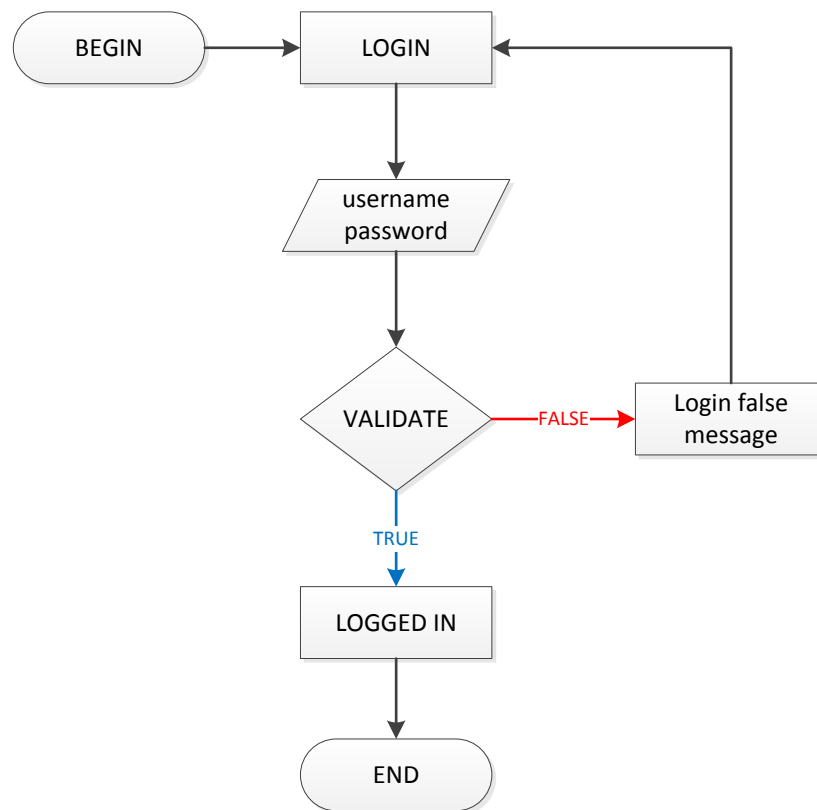
Technology: SQL Server, Java Database Connectivity

II. Algorithms - Data Flowchart

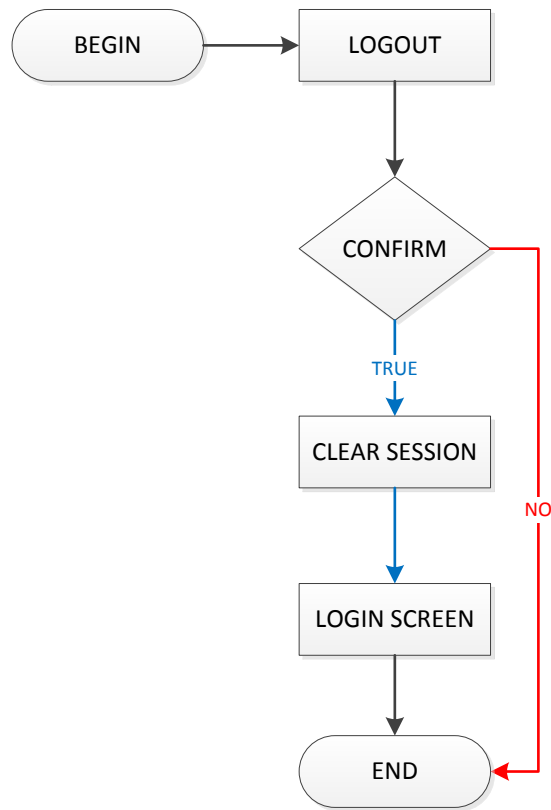
Symbol generates:



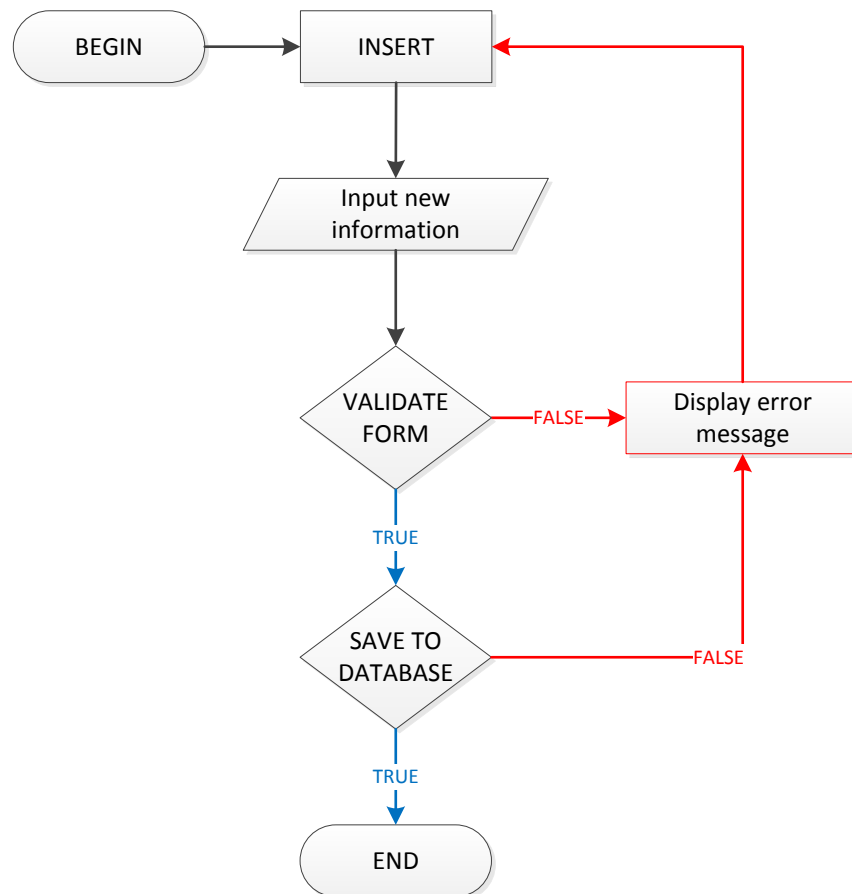
1. Login process



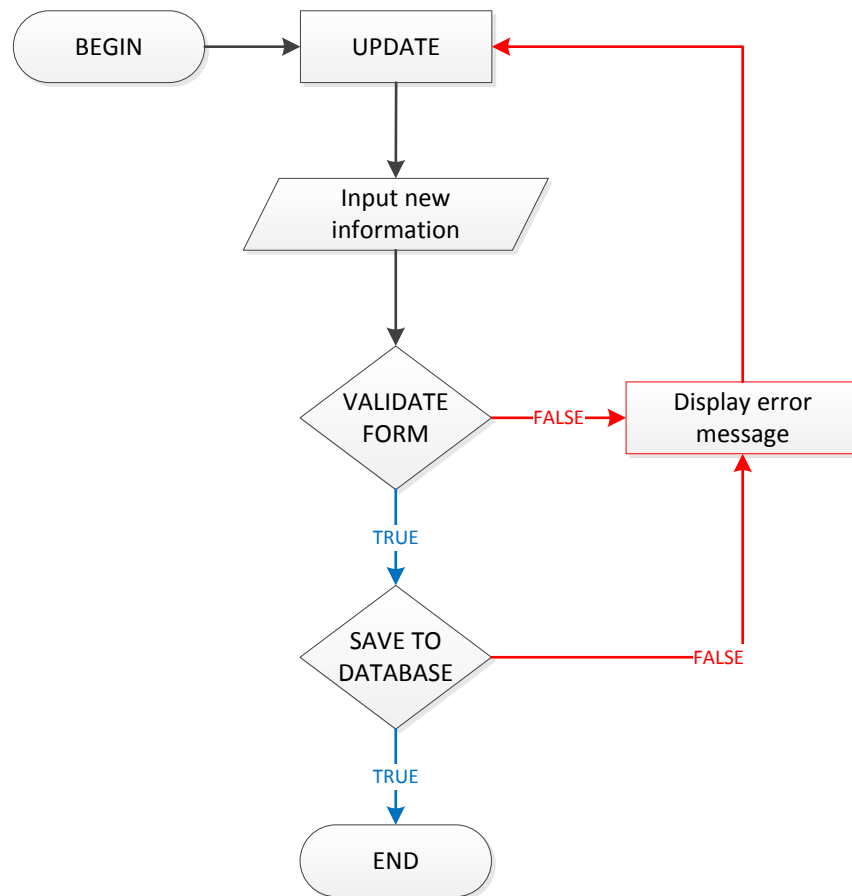
2. Logout process



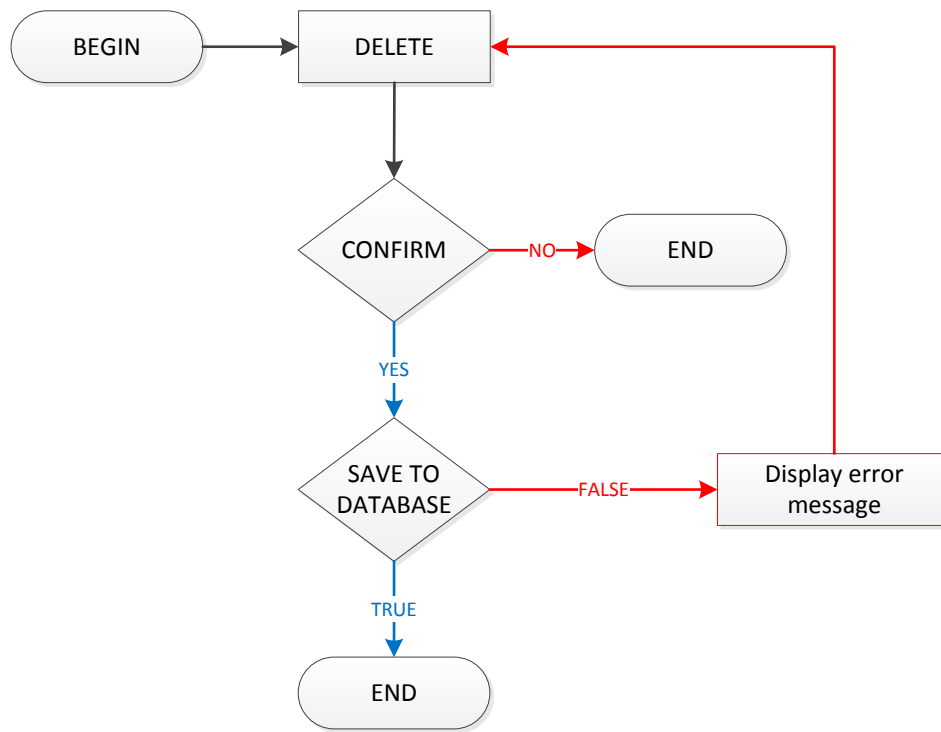
3. Insert process



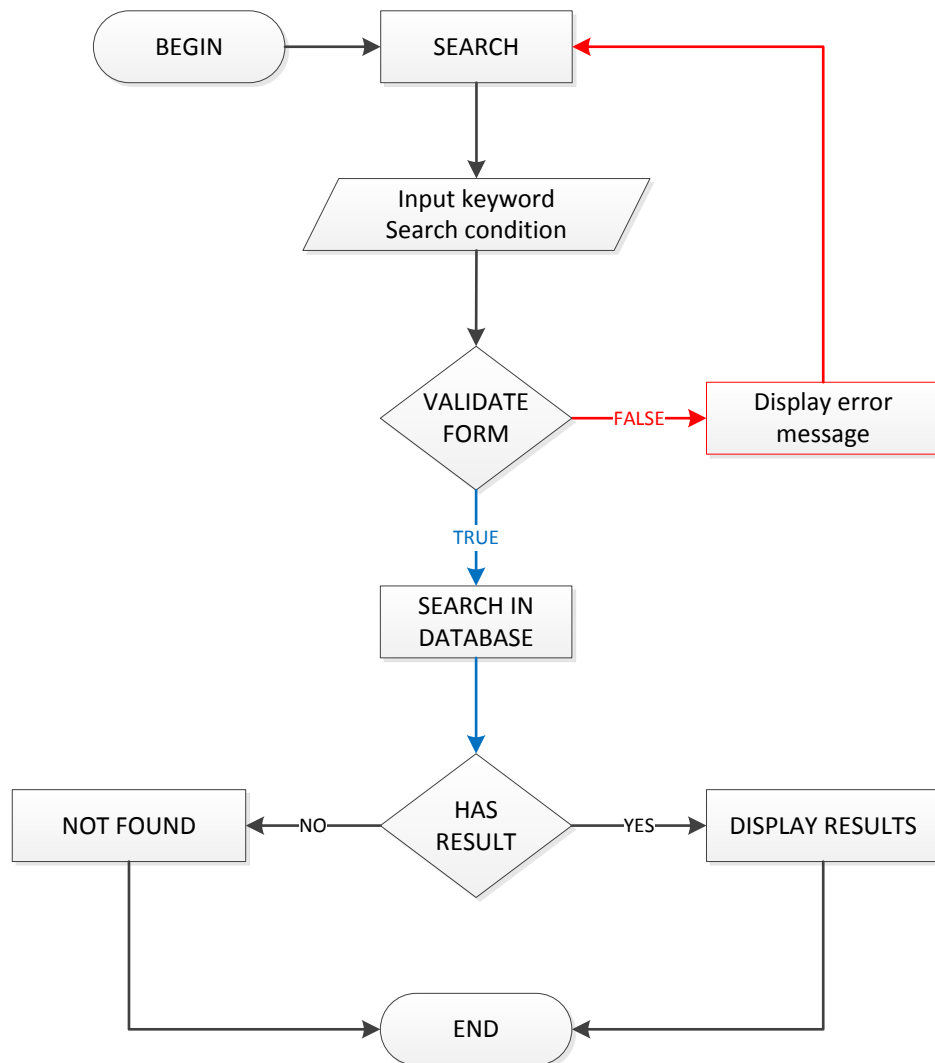
4. Update process



5. Delete process

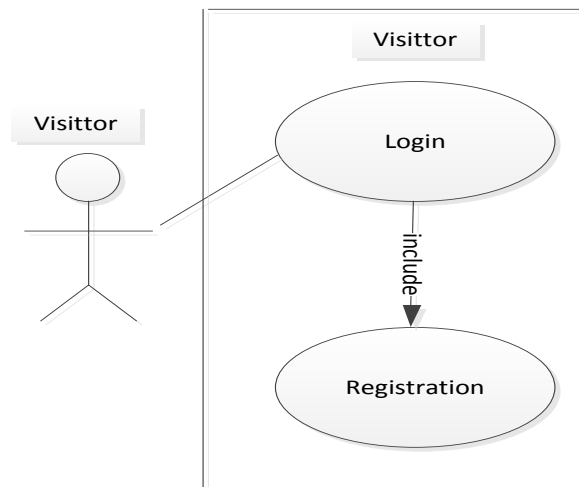


6. Search process

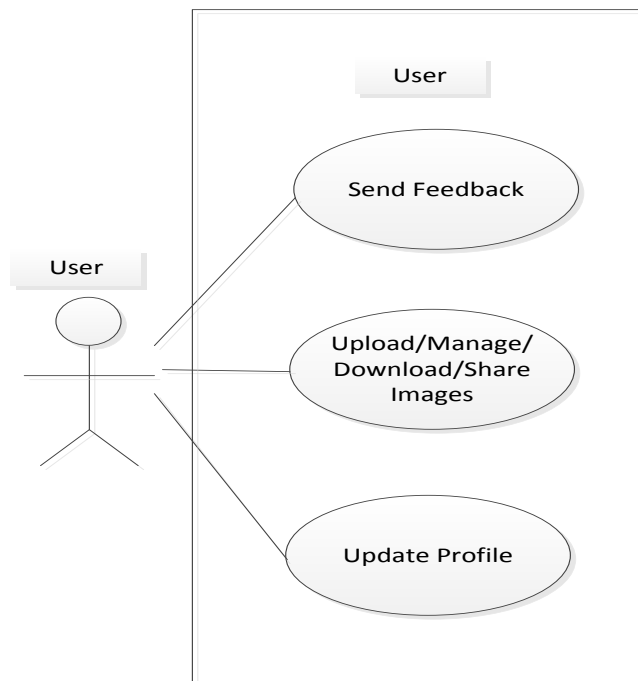


III. Use Case Diagram

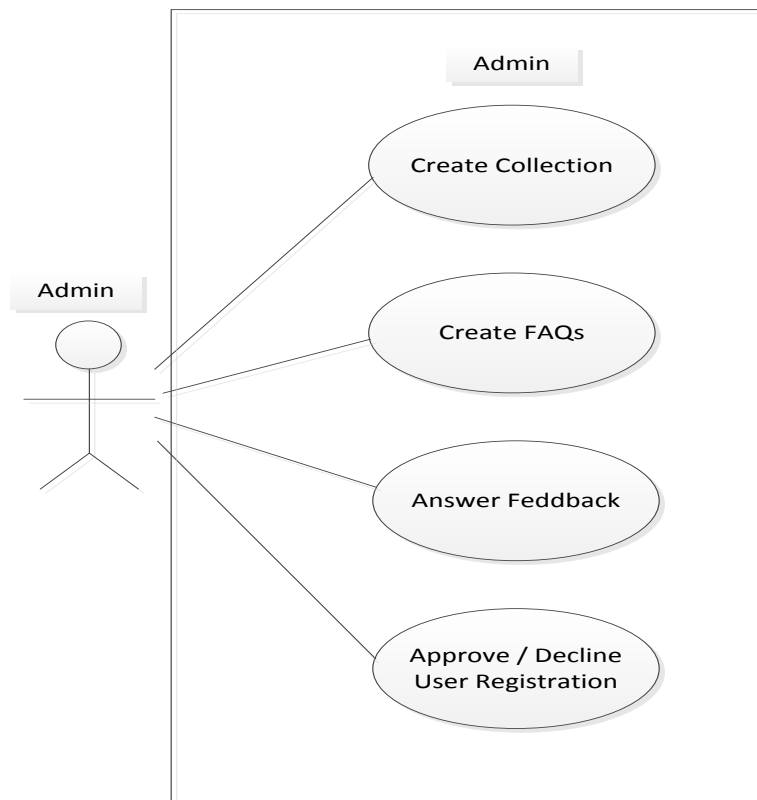
1. Visitor



2. User

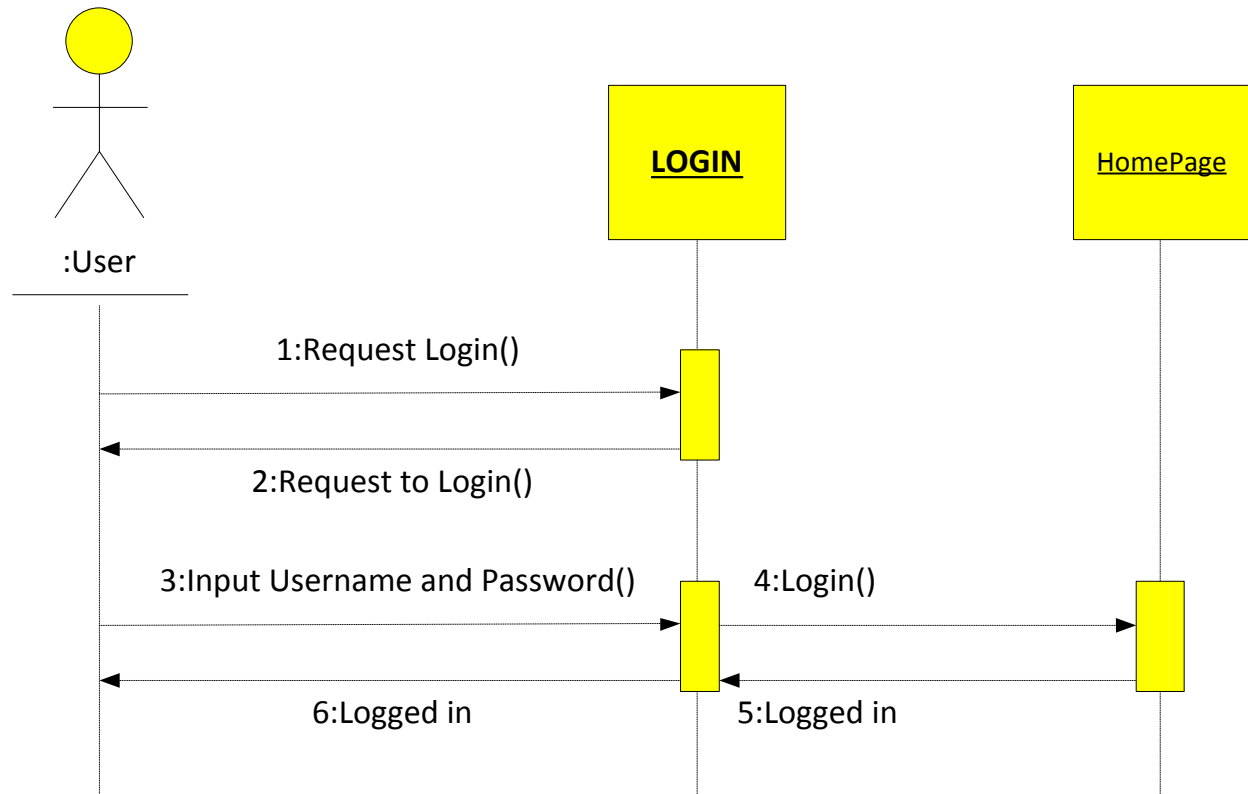


3. Admin



IV. Sequence Diagram

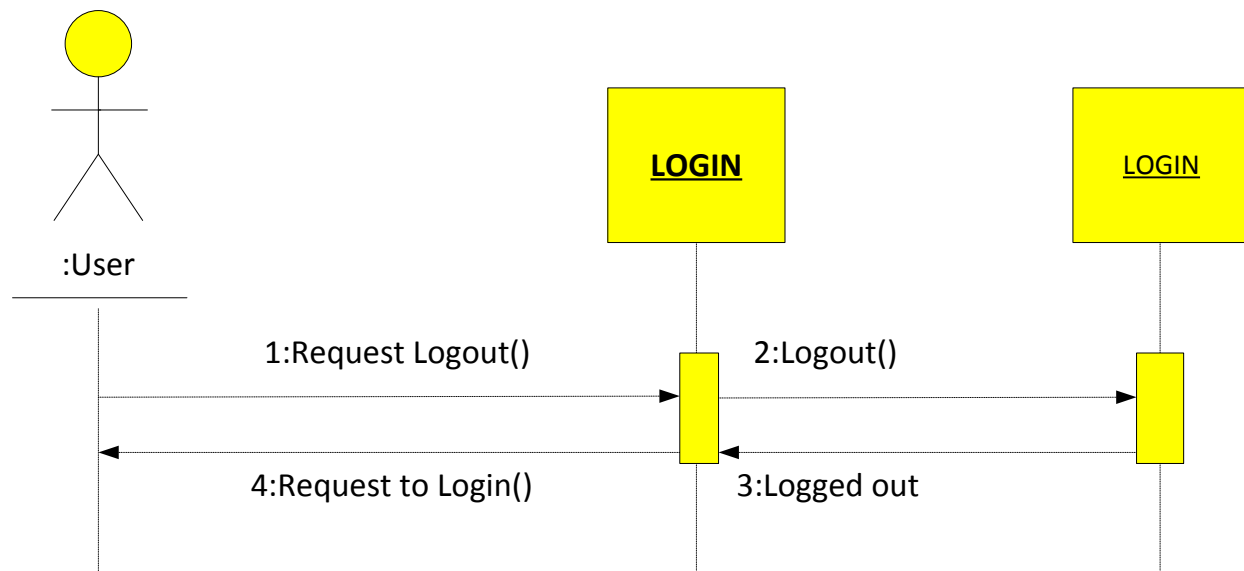
1. Visitor - Login



Use Case Name	Login	
Author	Tran Van Hai	
Actors	Administrator , visitor	
Description	Actors use this use case to login to system	
Requirements		
Pre-Conditions		
Post-Condition		
Basic Flow	<u>Actors action</u> 1. Actors click on "Login " button	<u>System Response</u> 2. The system display "Login" page the following control: - "Username" text field - "Password" text field

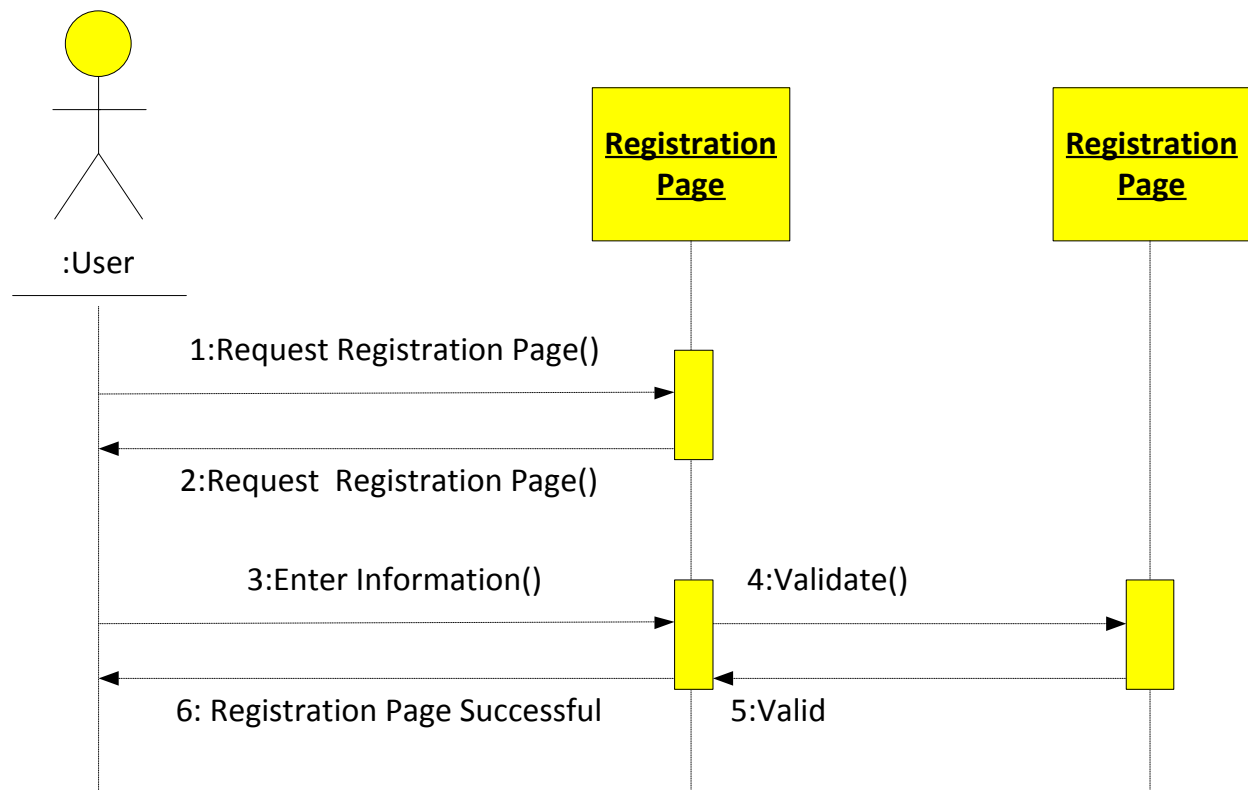
	3. Actors enter username and password into form. 4. Actors click "Login" button [alternative]	- "Login" button - "Cancel" button 5. The system validate Username and Password 6. The system log Actors into system.
Alternative Flow	<u>Actors action</u> [alternative] Actors click Cancel button	<u>System Response</u> System return to Homepage
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid Username and Password	<u>System Response</u> 1. System display message: "The username or password provided are incorrect"

2. User - Logout



Use Case Name	Logout	
Author	Tran Van Hai	
Actors	Administrator, User	
Description	Actors use this use case to login to system	
Requirements		
Pre-Conditions	Already login into the System	
Post-Condition		
Basic Flow	<u>Actors action</u> 1. Actors click on “Logout “ button 3. Actors click “OK” button [alternative]	<u>System Response</u> 2. System display message: “Do you want to logout?” 5. System logout Actors.
Alternative Flow	<u>Actors action</u> [alternative] Actors click Cancel button	<u>System Response</u> System return to previous page
Exceptions		

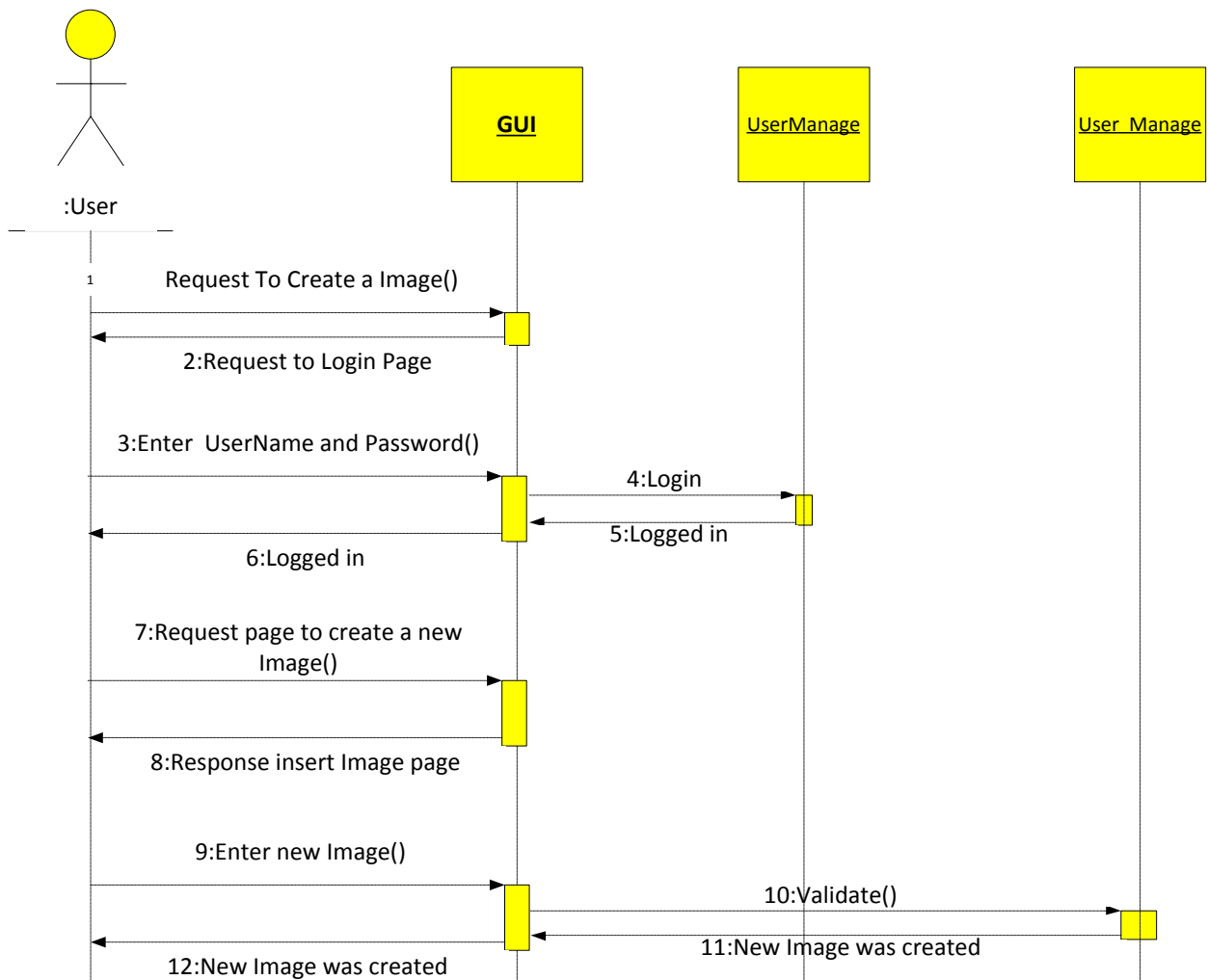
3. Visitor - Registration



Use Case Name	Student Registration	
Author	Tran Van Hai	
Actors	Student	
Description		
Requirements		
Pre-Conditions	Actors has UNIQUEID	
Post-Condition		
Basic Flow	<u>Actors action</u> 1. Actors click on “User Registration “ button 3. Actors click “Submit” button [alternative]	<u>System Response</u> 2.System display Registration page the following input profile User and input optional User 4. Validate form [exception1]

		5. System save database
Alternative Flow	<u>Actors action</u> [alternative] Actors click Cancel button	<u>System Response</u> System return to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid User Registration	<u>System Response</u> 1. System display message: "error message"

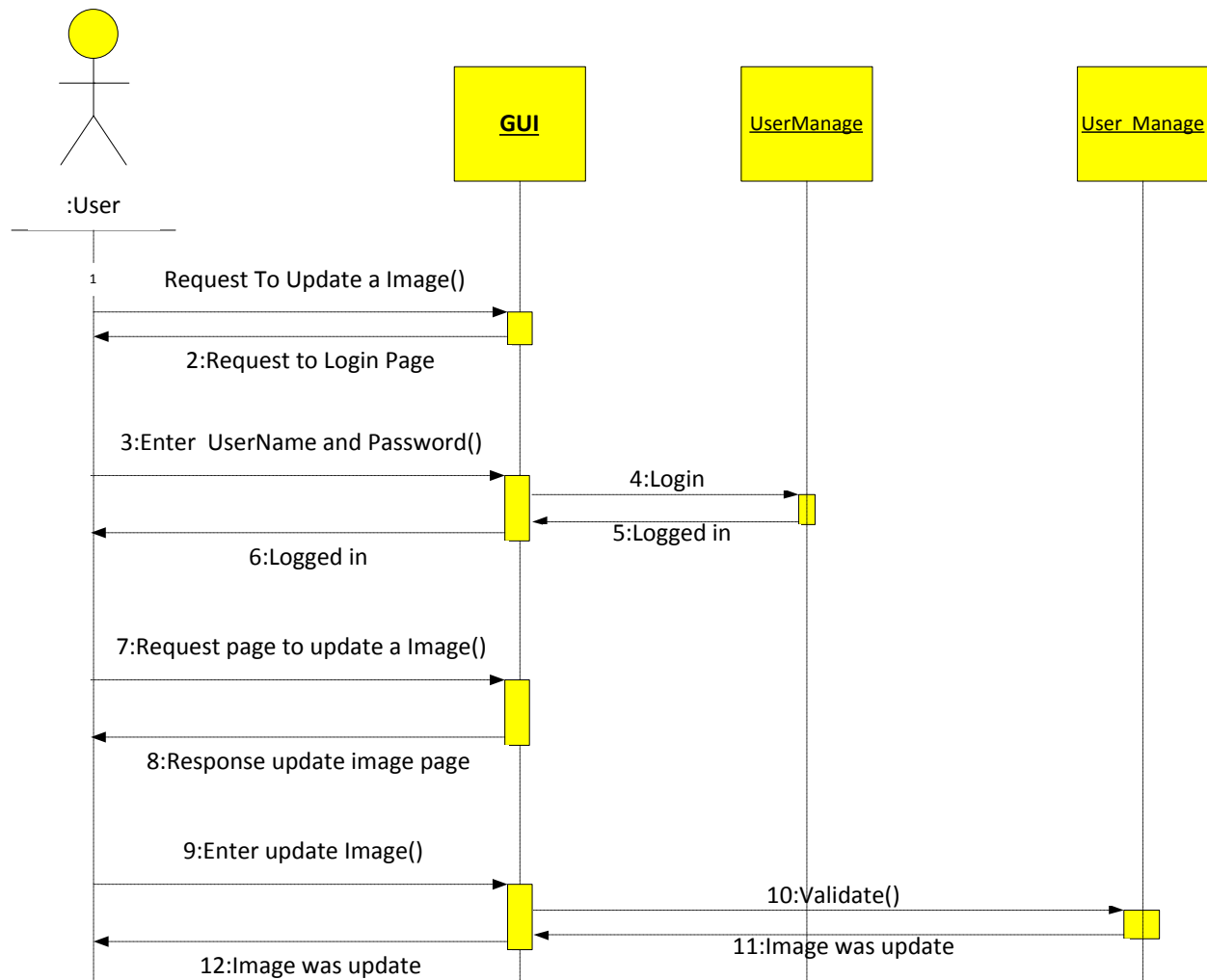
4. User - Insert Image



Use Case Name	Insert	
Author	Tran Van Hai	
Actors	Administrator, User	
Description	Actors use this use case to insert new information into system	
Requirements		
Pre-Conditions	Already logged in to the System as Administrator or User	
Post-Condition	Success: New information is saved into system database Fail: Refill information	
Basic Flow	<u>Actors action</u> 1. Actors click on "Insert image" button	<u>System Response</u> 2. System displays "Insert

	3. Actors enter new information into required fields. 4. Actors click "Submit" button [alternative1]	image" page 5. System validates new information [exception1] 6. System saves new information into Database.
Alternative Flow	<u>Actors action</u> [alternative1] Actors click "Cancel" button	<u>System Response</u> System returns to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid information	<u>System Response</u> 1. System displays error message

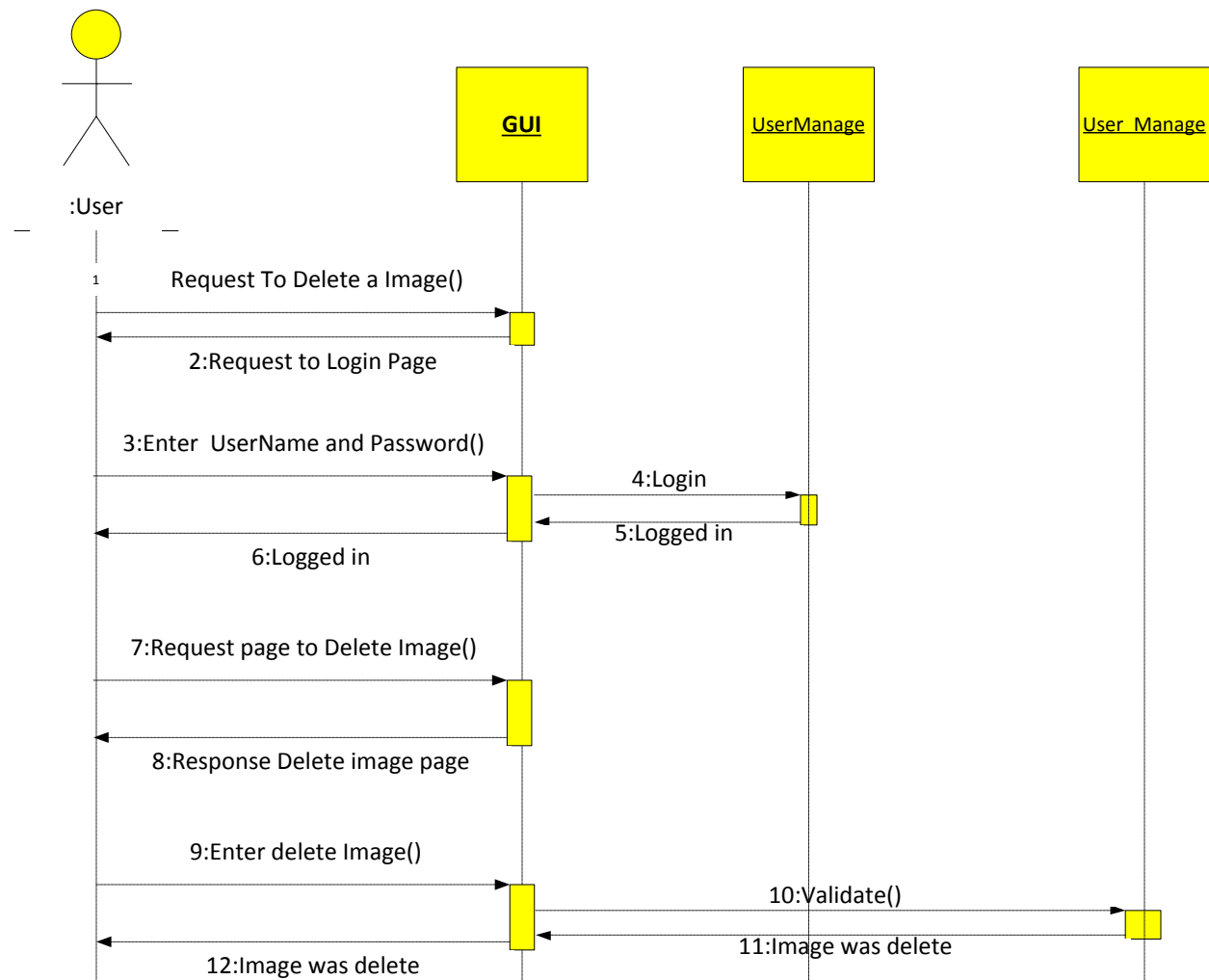
5. User - Update Image



Use Case Name	Update	
Author	Tran Van Hai	
Actors	Administrator, User	
Description	Actors use this use case to insert new information into system	
Requirements		
Pre-Conditions	Already logged in to the System as Administrator or User	
Post-Condition	Success: New information is saved into system database Fail: Refill information	
Basic Flow	<u>Actors action</u>	<u>System Response</u>

	1. Actors click on “update image” button 3. Actors enter update information into required fields. 4. Actors click “Submit” button [alternative1]	2. System displays “update image” page 5. System validates update information [exception1] 6. System saves new information into Database.
Alternative Flow	<u>Actors action</u> [alternative1] Actors click “Cancel” button	<u>System Response</u> System returns to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid information	<u>System Response</u> 1. System displays error message

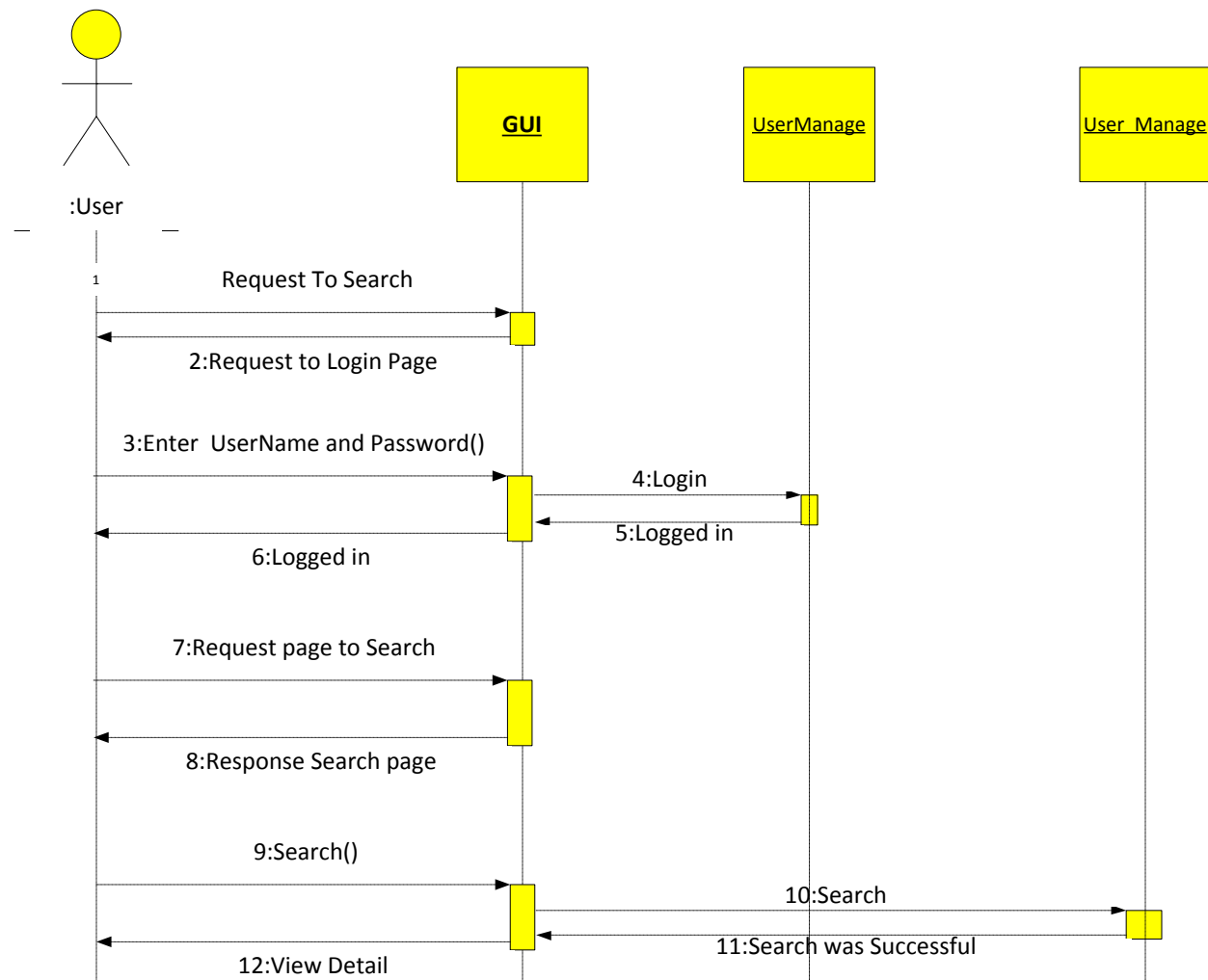
6. User - Delete Image



Use Case Name	Delete	
Author	Tran Van Hai	
Actors	Administrator, User	
Description	Actors use this use case to delete information from system	
Requirements		
Pre-Conditions	Already logged in to the system	
Post-Condition	Success: Selected information is deleted from system database Fail: Refill information	
Basic Flow	<u>Actors action</u>	<u>System Response</u>
	1. Actors click on "Delete" button	2. System displays "Delete

	4. Actors click “Yes” button [alternative]	Confirm” page 5. The system deletes the selected information [exception1]
Alternative Flow	<u>Actors action</u> [alternative] Actors click Cancel button	<u>System Response</u> System returns to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid information	<u>System Response</u> 1. System displays error message

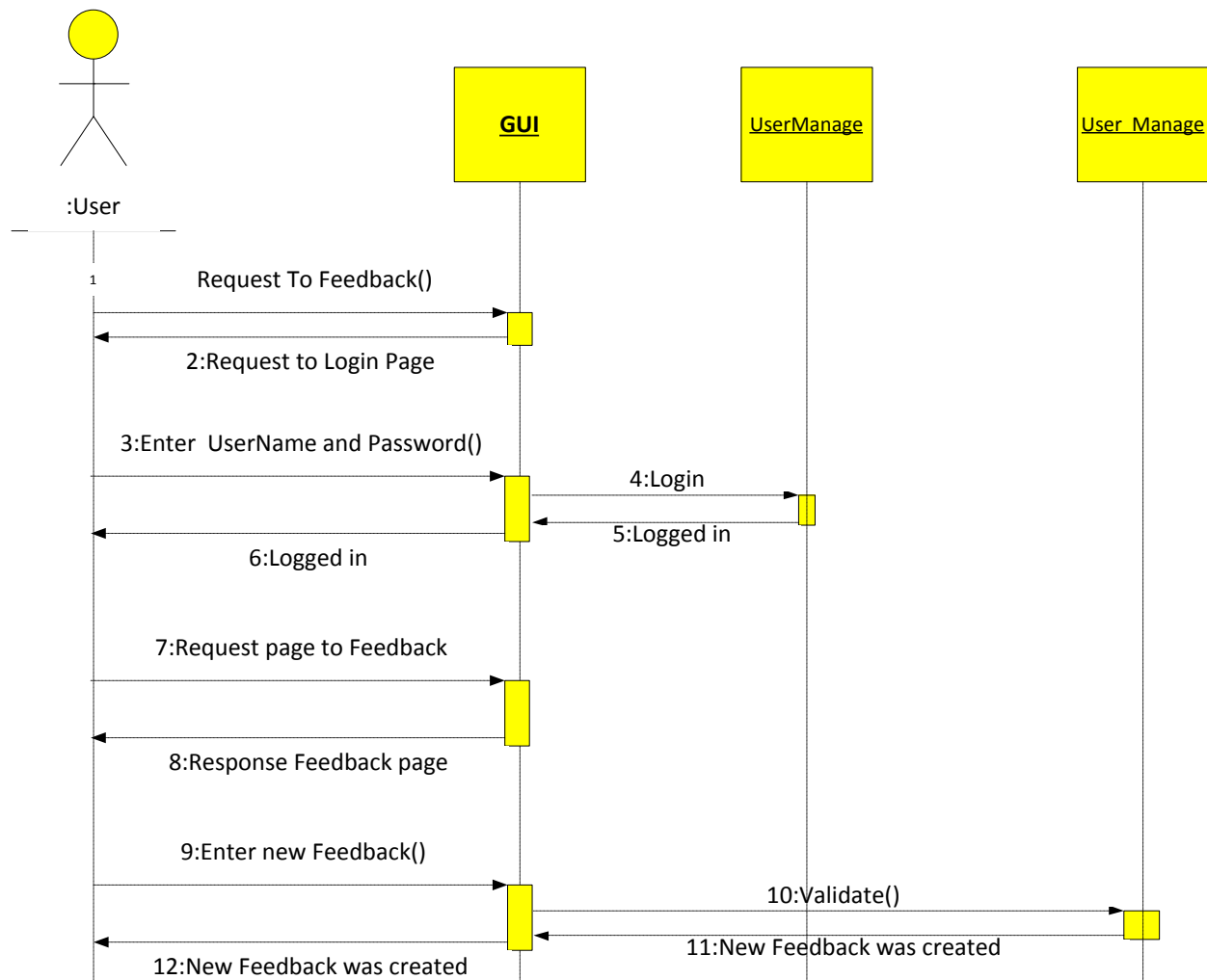
7. Search



Use Case Name	Search	
Author	Tran Van Hai	
Actors	Administrator, User, Visitor	
Description	Actors use this use case to information into system	
Requirements		
Pre-Conditions	Already logged in to the system	
Post-Condition	Success: Found information is displayed on the “Display” page Fail: Refill information	
Basic Flow	<u>Actors action</u>	<u>System Response</u>

	1. Actors input search keyword into Keyword Text Field 2. Actors click on "Search" button	3. System validate keywords [exception1] 4. System display "Search Result" page
Alternative Flow		
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid keywords	<u>System Response</u> 1. System display error message

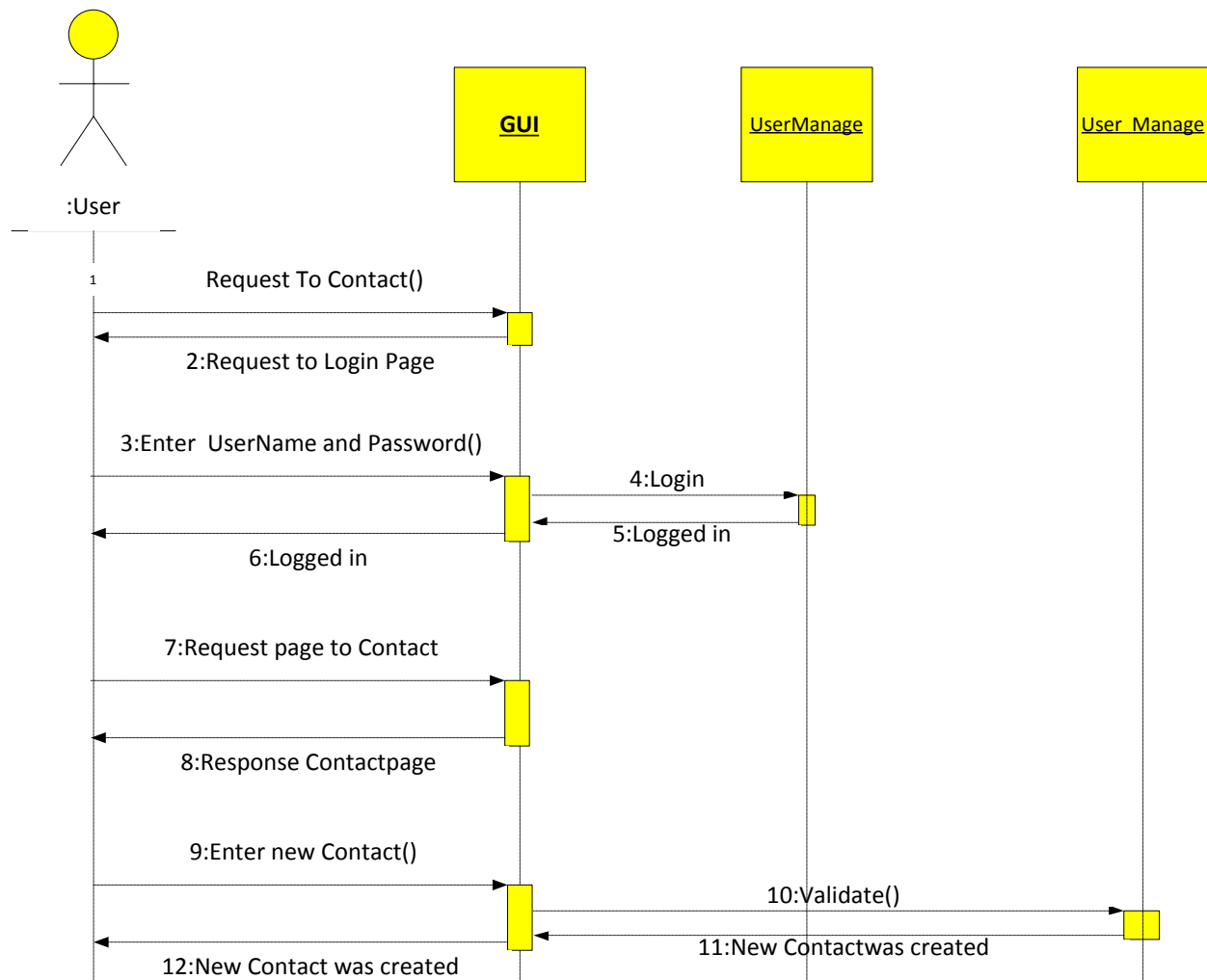
8. User - Feedback



Use Case Name	FeedBack	
Author	Tran Van Hai	
Actors	User	
Description	Actors use this use case to insert new information into system	
Requirements		
Pre-Conditions	Already logged in to the System as Administrator or User	
Post-Condition	Success: New information is saved into system database Fail: Refill information	
Basic Flow	<u>Actors action</u> 1. Actors click on "Feedback" button	<u>System Response</u> 2. System displays "Feedback"

	3. Actors enter new information into required fields. 4. Actors click "Submit" button [alternative1]	page 5. System validates new information [exception1] 6. System saves new information into Database.
Alternative Flow	<u>Actors action</u> [alternative1] Actors click "Cancel" button	<u>System Response</u> System returns to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid information	<u>System Response</u> 1. System displays error message

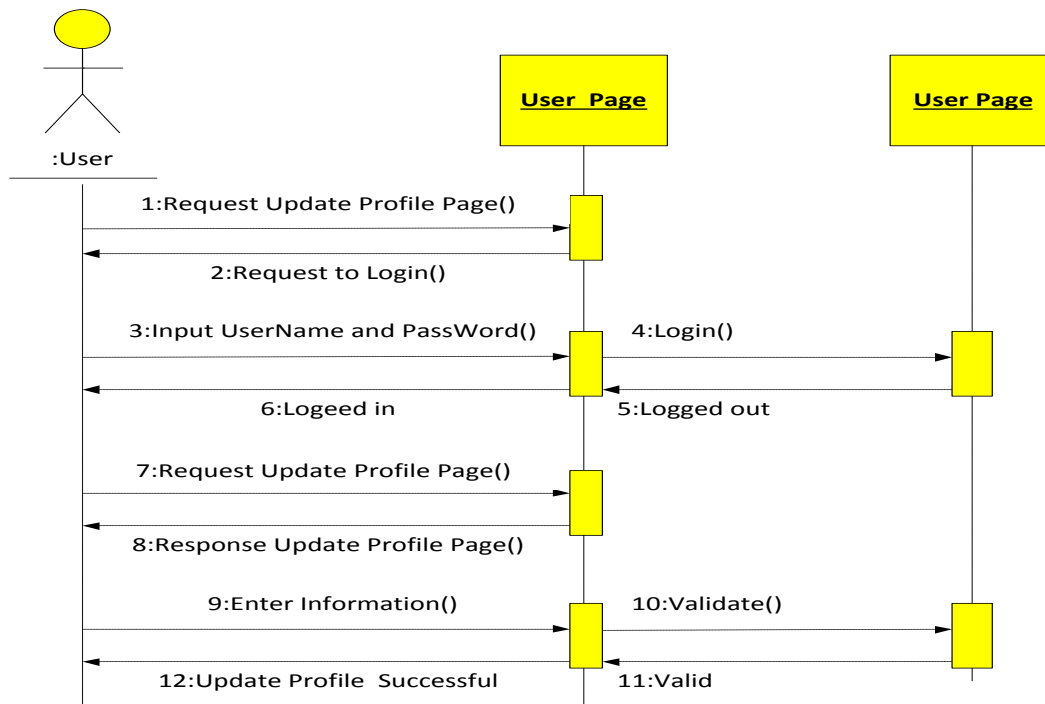
9. Contact



Use Case Name	Contact	
Author	Tran Van Hai	
Actors	Visitor	
Description	Actors use this use case to insert new information into system	
Requirements		
Pre-Conditions	Already logged in to the System as Administrator or User	
Post-Condition	Success: New information is saved into system database Fail: Refill information	
Basic Flow	<u>Actors action</u>	<u>System Response</u>

	1. Actors click on "Feedback" button 3. Actors enter new information into required fields. 4. Actors click "Submit" button [alternative1]	2. System displays "Feedback" page 5. System validates new information [exception1] 6. System saves new information into Database.
Alternative Flow	<u>Actors action</u> [alternative1] Actors click "Cancel" button	<u>System Response</u> System returns to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid information	<u>System Response</u> 1. System displays error message

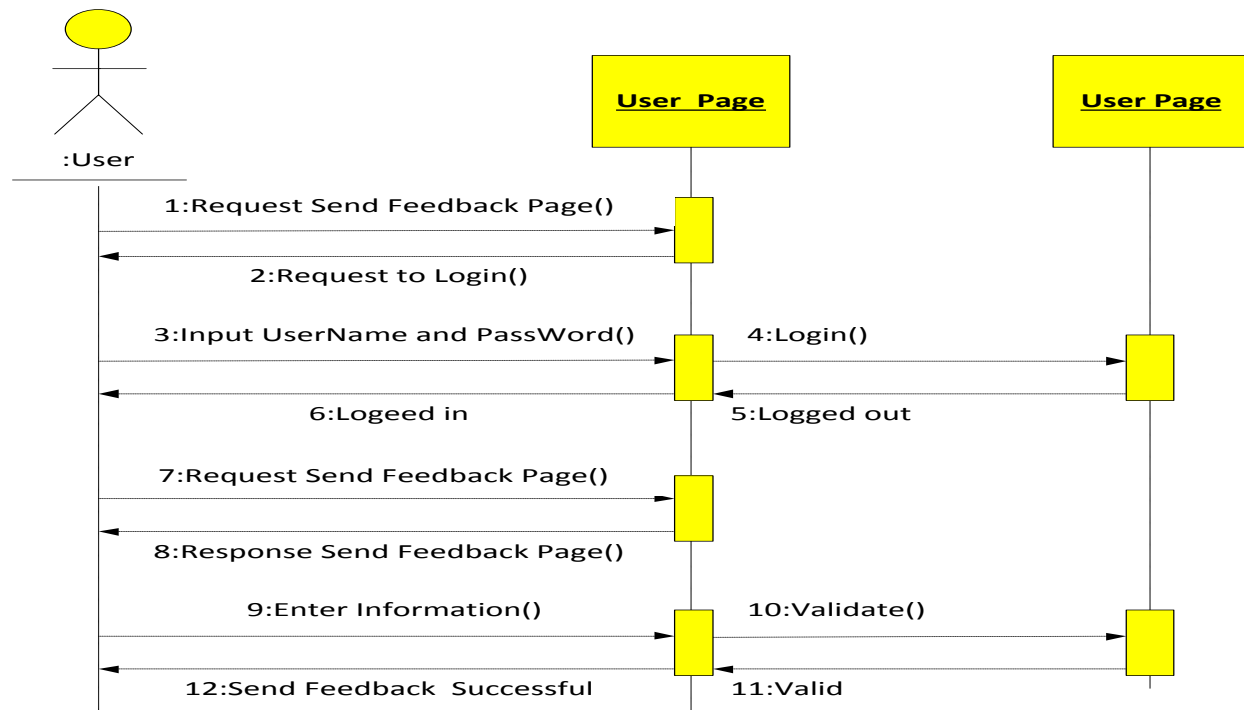
10. User - User Profile



Use Case Name	User Profile	
Author	Tran Van Hai	
Actors	User	
Description	Actors use this use case to insert new information into system	
Requirements		
Pre-Conditions	Already logged in to the System as Administrator or User	
Post-Condition	Success: New information is saved into system database Fail: Refill information	
Basic Flow	<u>Actors action</u> 1. Actors click on "User Profile " button 3. Actors enter new information into required fields. 4. Actors click "Submit" button [alternative1]	<u>System Response</u> 2. System displays " User Profile" page 5. System validates new

		information [exception1] 6. System saves new information into Database.
Alternative Flow	<u>Actors action</u> [alternative1] Actors click “Cancel” button	<u>System Response</u> System returns to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid information	<u>System Response</u> 1. System displays error message

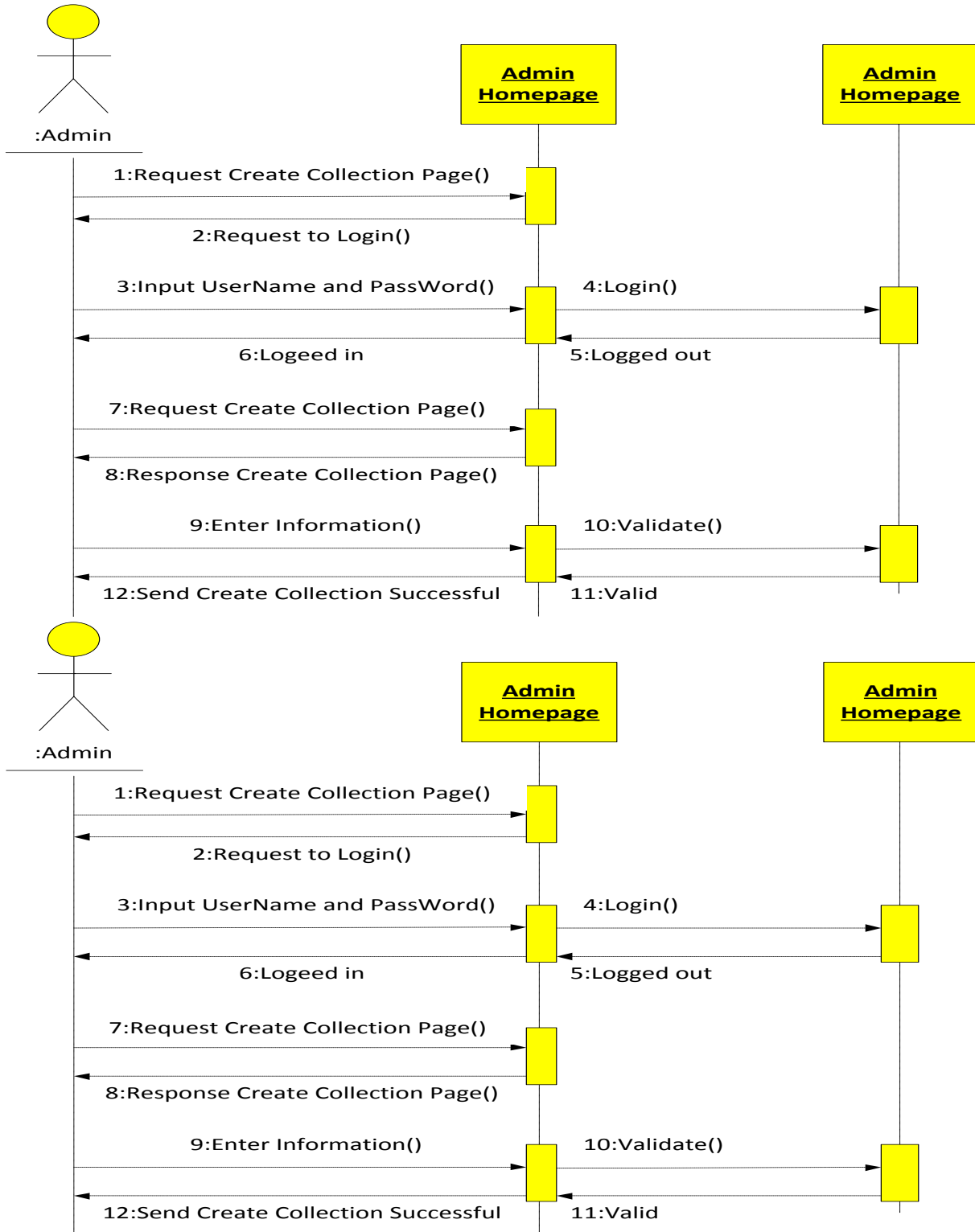
11. Administrator - Send Feedback



Use Case Name	Send Feedback	
Author	Tran Van Hai	
Actors	User	
Description	Actors use this use case to insert new information into system	
Requirements		
Pre-Conditions	Already logged in to the System as Administrator or User	
Post-Condition	Success: New information is saved into system database Fail: Refill information	
Basic Flow	<u>Actors action</u> 1. Actors click on "Send Feedback" button 3. Actors enter new information into required fields. 4. Actors click "Submit" button	<u>System Response</u> 2. System displays " Send Feedback" page

	[alternative1]	5. System validates new information [exception1] 6. System saves new information into Database.
Alternative Flow	<u>Actors action</u> [alternative1] Actors click "Cancel" button	<u>System Response</u> System returns to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid information	<u>System Response</u> 1. System displays error message

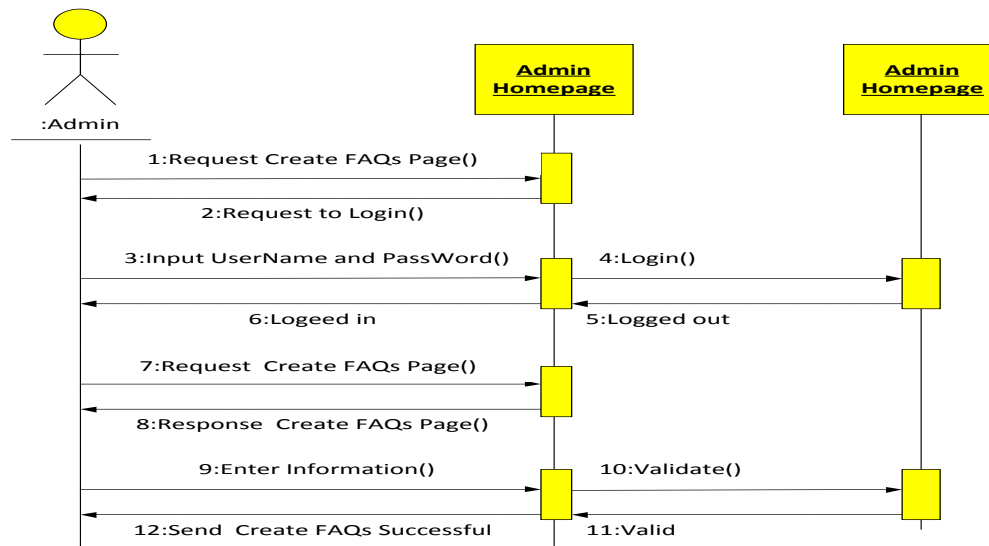
12.Administrator - Create Collection



Use Case Name	Create Collection
---------------	-------------------

Author	Tran Van Hai	
Actors	Administrator	
Description	Actors use this use case to insert new information into system	
Requirements		
Pre-Conditions	Already logged in to the System as Administrator or User	
Post-Condition	Success: New information is saved into system database Fail: Refill information	
Basic Flow	<u>Actors action</u> 1. Actors click on "Create Collection" button 3. Actors enter new information into required fields. 4. Actors click "Submit" button [alternative1]	<u>System Response</u> 2. System displays " Create Collection" page 5. System validates new information [exception1] 6. System saves new information into Database.
Alternative Flow	<u>Actors action</u> [alternative1] Actors click "Cancel" button	<u>System Response</u> System returns to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid information	<u>System Response</u> 1. System displays error message

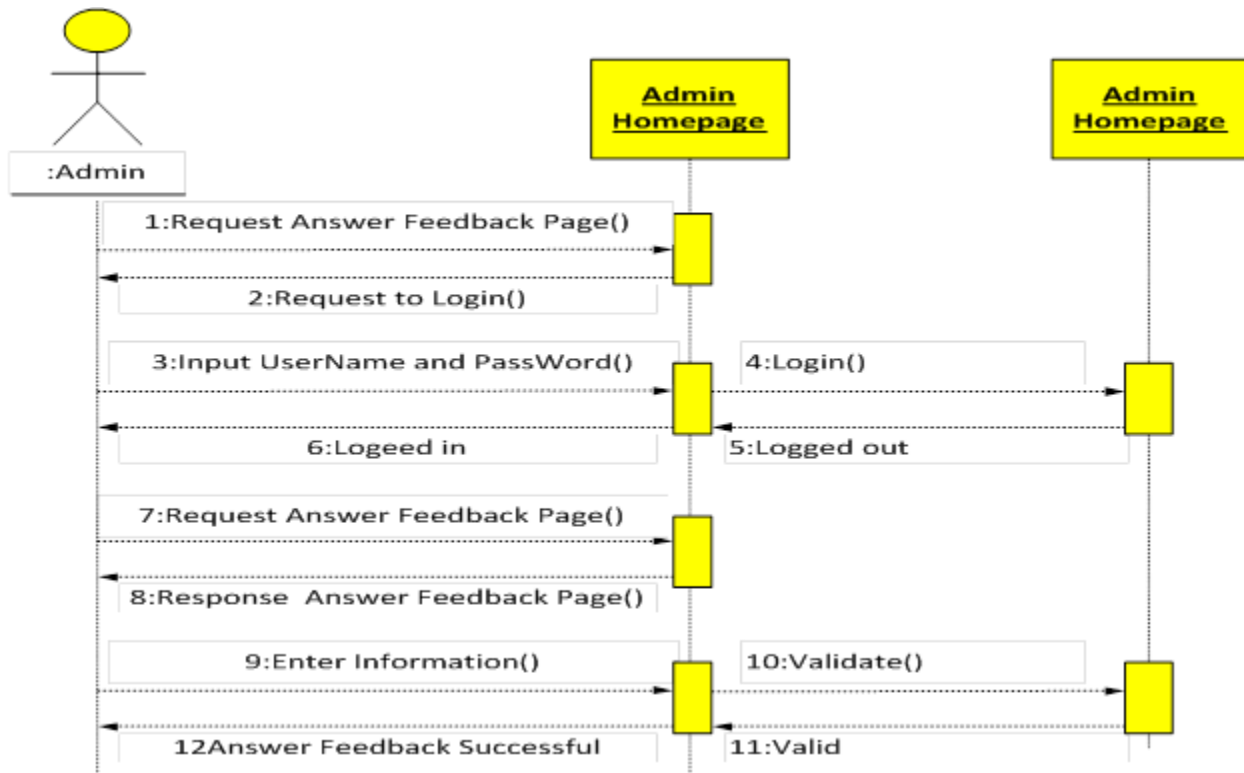
13. Administrator - Create FAQs



Use Case Name	Create FAQs	
Author	Tran Van Hai	
Actors	Administrator	
Description	Actors use this use case to insert new information into system	
Requirements		
Pre-Conditions	Already logged in to the System as Administrator or User	
Post-Condition	Success: New information is saved into system database Fail: Refill information	
Basic Flow	<u>Actors action</u> 1. Actors click on "Create FAQs" button 3. Actors enter new information into required fields. 4. Actors click "Submit" button [alternative1]	<u>System Response</u> 2. System displays " Create FAQs" page 5. System validates new information [exception1]

		6. System saves new information into Database.
Alternative Flow	<u>Actors action</u> [alternative1] Actors click "Cancel" button	<u>System Response</u> System returns to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid information	<u>System Response</u> 1. System displays error message

14. Administrator - Answer Feedback

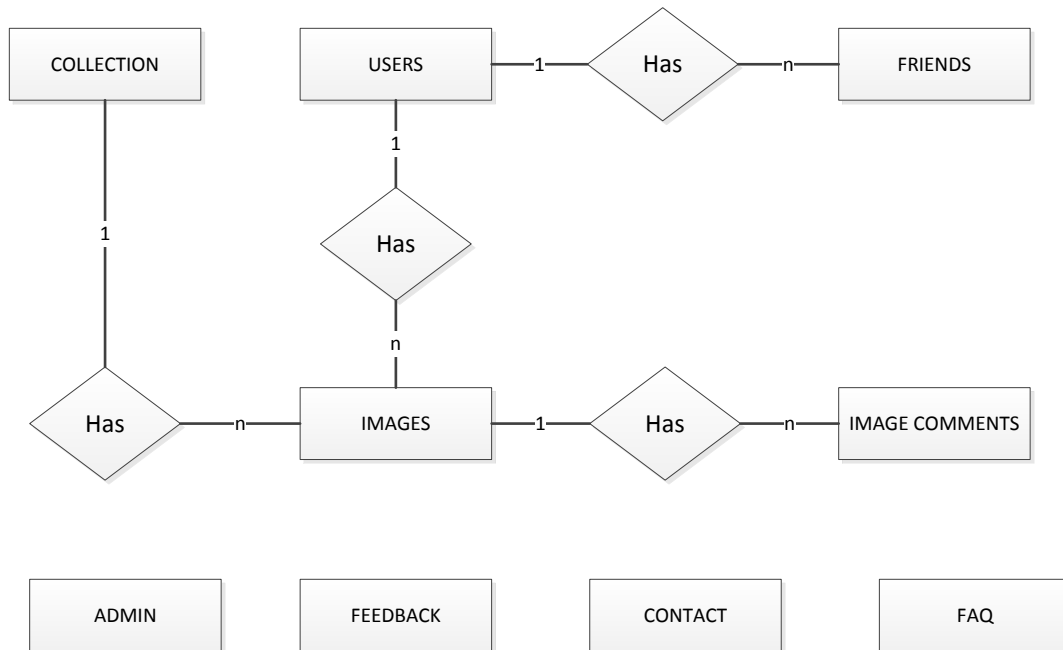


Use Case Name	Answer Feedback	
Author	Tran Van Hai	
Actors	Administrator	
Description	Actors use this use case to insert new information into system	
Requirements		
Pre-Conditions	Already logged in to the System as Administrator or User	
Post-Condition	Success: New information is saved into system database Fail: Refill information	
Basic Flow	<u>Actors action</u> 1. Actors click on "Answer Feedback" button 3. Actors enter new information into required fields.	<u>System Response</u> 2. System displays Answer Feedback" page

	4. Actors click "Submit" button [alternative1]	5. System validates new information [exception1] 6. System saves new information into Database.
Alternative Flow	<u>Actors action</u> [alternative1] Actors click "Cancel" button	<u>System Response</u> System returns to previous page
Exceptions	<u>Actors action</u> [exception1] Actors provide invalid information	<u>System Response</u> 1. System displays error message

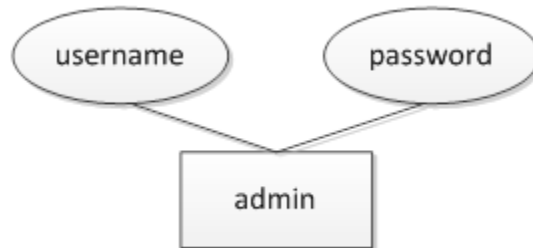
V. Entity–Relationship Design

1. Entity–Relationship Diagram

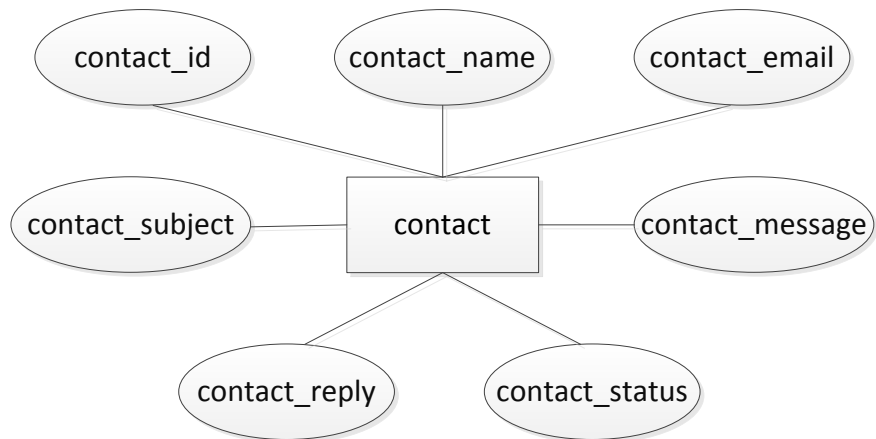


2. Entities and Properties

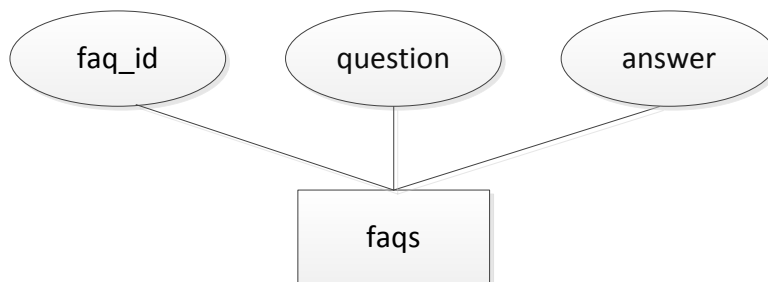
2.1. Table admin



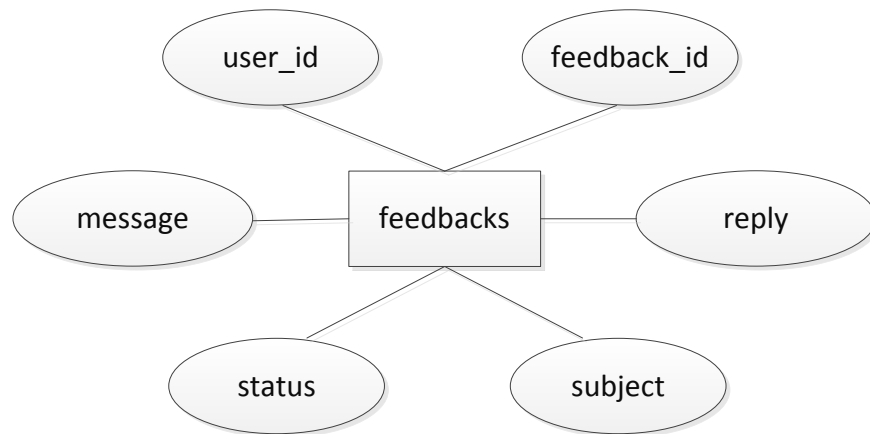
2.2. Table contact



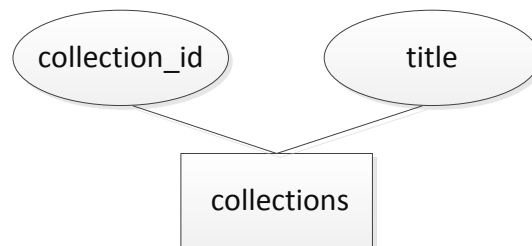
2.3. Table faqs



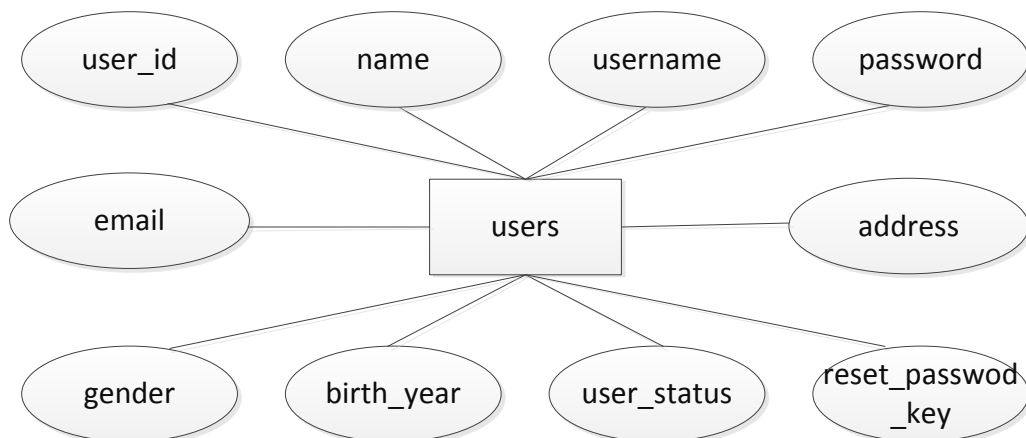
2.4. Table feedbacks



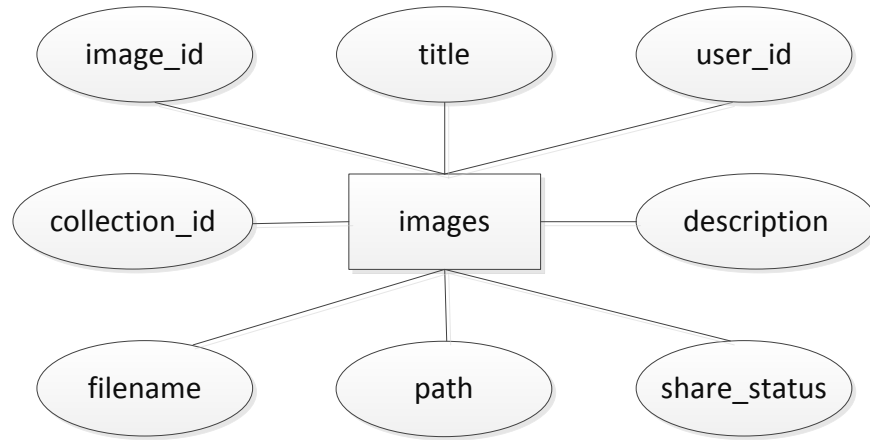
2.5. Table collections



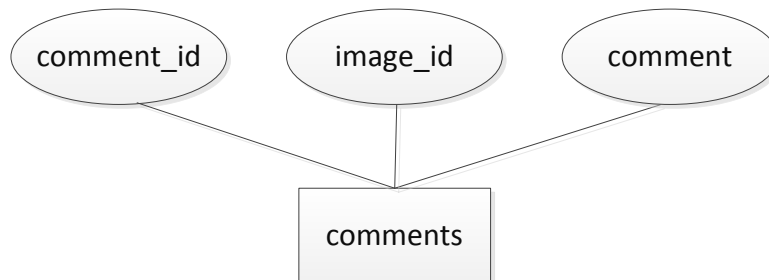
2.6. Table users



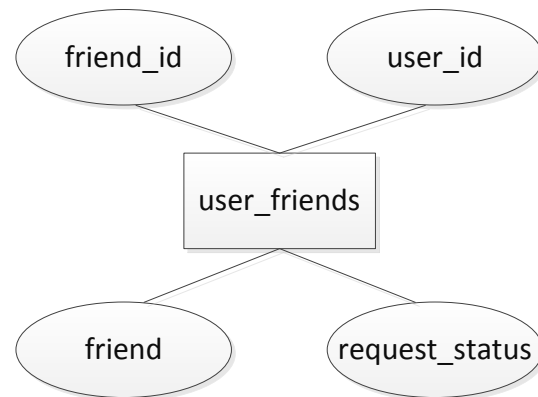
2.7. Table images



2.8. Table comments



2.9. Table user_friends



VI. Task sheet review 2

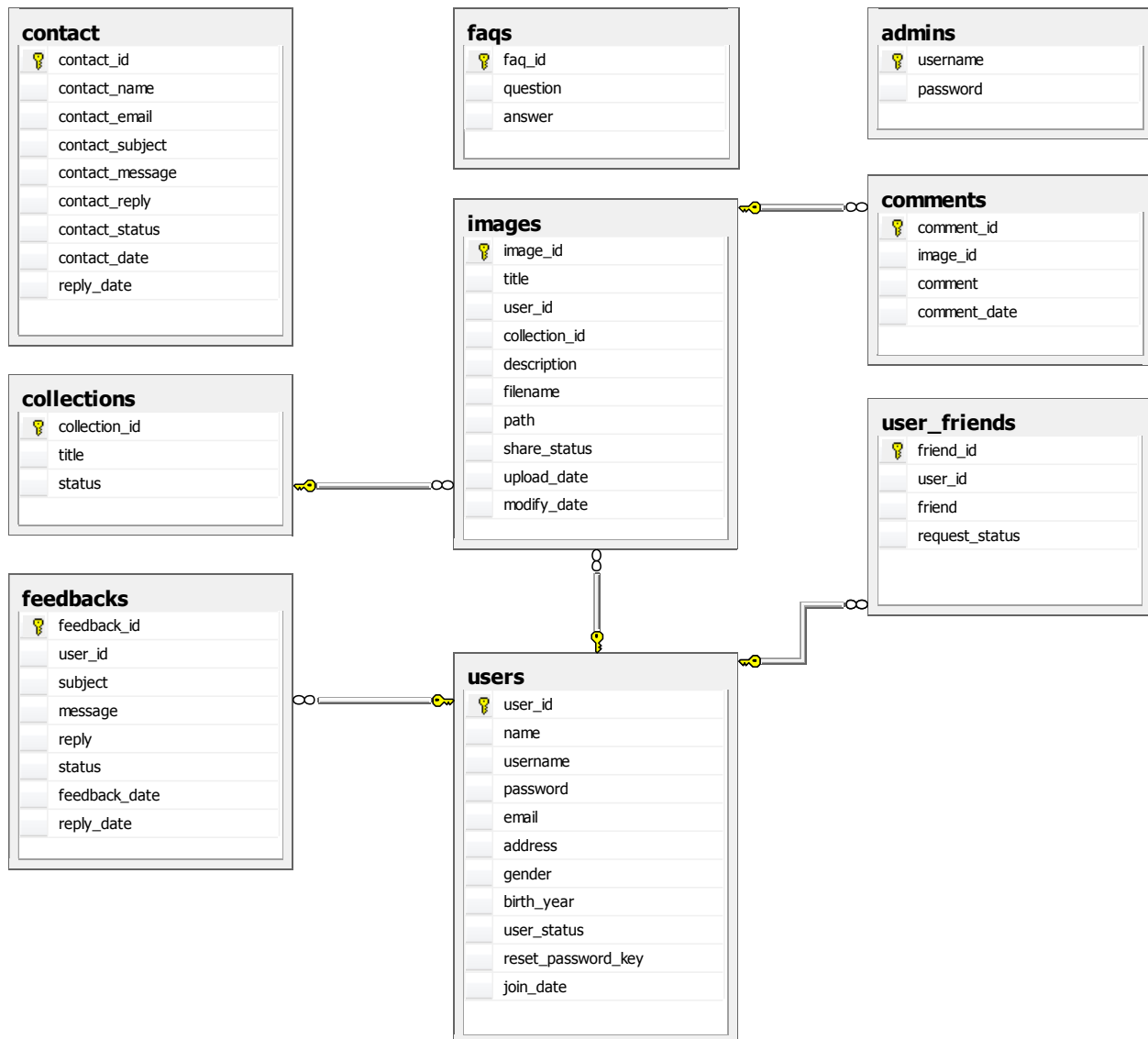
Project Title: Web Photo Share		Project Ref. No: 1			
		Date of Preparation of Activity Plan			
No.	Task	Start Date	Actual Days	Member Names	Status
01	Architecture & Design	September 26, 2013	7	Nguyen Anh Tuan	Completed
02	Algorithms & Data Flowchart			Nguyen Anh Tuan	Completed
03	User Case Diagram			Le Ngoc Nhut	Completed
04	Sequence Diagram			Tran Van Hai	Completed
05	Entity Relationship Design			Nguyen Vu Hung	Completed
06	Task sheet			All Members	Completed

	Prepare By: Group 1	Approved By: Faculty
Date: Oct 02, 2013	Team Leader Nguyen Vu Hung	 Nguyen Ngo Phuoc

REVIEW III

I. Database Design

1. Database Relationship Diagram (DRD)



2. Database Structure

2.1. Table: admin

Field	Type	Null	Key	Default	Extra	Comment
username	VARCHAR(32)	NO	PK	(NULL)		
Password	VARCHAR(32)	NO		(NULL)		

2.2. Table: contact

Field	Type	Null	Key	Default	Extra	Comment
contact_id	INT	NO	PK		IDENTITY(1,1)	
contact_name	VARCHAR(255)	NO				
contact_email	VARCHAR(255)					
contact_subject	VARCHAR(255)					
contact_message	TEXT(1000)					
contact_reply	TEXT(1000)					
contact_status	TINYINT	NO		0		0: Unread 1: Read 2: Replied
contact_date	DATETIME					
reply_date	DATETIME					

2.3. Table: faqs

Field	Type	Null	Key	Default	Extra	Comment
faq_id	INT	NO	PK		IDENTITY(1,1)	
question	VARCHAR(255)					
answer	TEXT(1000)					

2.4. Table: feedbacks

Field	Type	Null	Key	Default	Extra	Comment
feedback_id	INT	NO	PK		IDENTITY(1,1)	
user_id	INT	NO	FK		users.user_id	
subject	VARCHAR(255)					
message	TEXT(1000)					

Field	Type	Null	Key	Default	Extra	Comment
reply	TEXT(1000)					
status	TINYINT	NO		0		0: Unread 1: Read 2: Replied
feedback_date	DATETIME					
reply_date	DATETIME					

2.5. Table: collections

Field	Type	Null	Key	Default	Extra	Comment
collection_id	INT	NO	PK		IDENTITY(1,1)	
title	VARCHAR(255)					
status	TINYINT			0		

2.6. Table: users

Field	Type	Null	Key	Default	Extra	Comment
user_id	INT	NO	PK		IDENTITY(1,1)	
name	VARCHAR(255)	NO				
username	VARCHAR(32)	NO			UNIQUE	
password	VARCHAR(32)	NO				
email	VARCHAR(255)	NO			UNIQUE	
address	VARCHAR(255)	YES				
gender	BIT	NO		0		
birth_year	VARCHAR(4)					
user_status	TINYINT	NO		0		0: Pending 1: Approved 2: Declined
reset_password_key	VARCHAR(32)	YES				
join_date	DATETIME					

2.7. Table: images

Field	Type	Null	Key	Default	Extra	Comment
image_id	INT	NO	PK		IDENTITY(1,1)	

Field	Type	Null	Key	Default	Extra	Comment
title	VARCHAR(255)	NO				
user_id	INT	NO	FK		users.user_id	
collection_id	INT	NO	FK		collection.collection_id	
description	TEXT(1000)					
filename	VARCHAR(255)	NO				File name of image
path	VARCHAR(255)	NO				Location of image
share_status	TINYINT	NO				0: Private 1: Friend 2: Public
upload_date	DATETIME					
modify_date	DATETIME					

2.8. Table: comments

Field	Type	Null	Key	Default	Extra	Comment
comment_id	INT	NO	PK		IDENTITY(1,1)	
image_id	INT	NO	FK		images.image_id	
comment	TEXT(1000)					
comment_date	DATETIME					

2.9. Table user_friends

Field	Type	Null	Key	Default	Extra	Comment
friend_id	INT	NO	PK		IDENTITY(1,1)	
user_id	INT	NO	FK		users.user_id	
friend	INT	NO	FK		users.user_id	
request_status	BIT	NO		0		0: Requested 1: Approved
comment_date	DATETIME					

3. Database Constrains

3.1. Table: users

Constraint:

- UNIQUE: username must be unique
- UNIQUE: email must be unique

Name	Add	Delete	Update
users	+ (username) (email)	-	+ (username) (email)

3.2. Table: feedbacks

Constraint:

- FOREIGN KEY: user_id must exist

Name	Add	Delete	Update
feedbacks	+ users.user_id must exist	-	+ users.user_id must exist

3.3. Table: images

Constraint:

- FOREIGN KEY: user_id must exist
- FOREIGN KEY: collection_id must exist

Name	Add	Delete	Update
images	+ users.user_id must exist collections.collection_id must exist	-	+ users.user_id must exist collections.collection_id must exist

3.4. Table: comments

Constraint:

- FOREIGN KEY: image_id must exist

Name	Add	Delete	Update
comments	+ images.image_id must exist	-	+ images.image_id must exist

3.5. Table: user_friends

Constraint:

- FOREIGN KEY: user_id must exist
- FOREIGN KEY: friend must exist

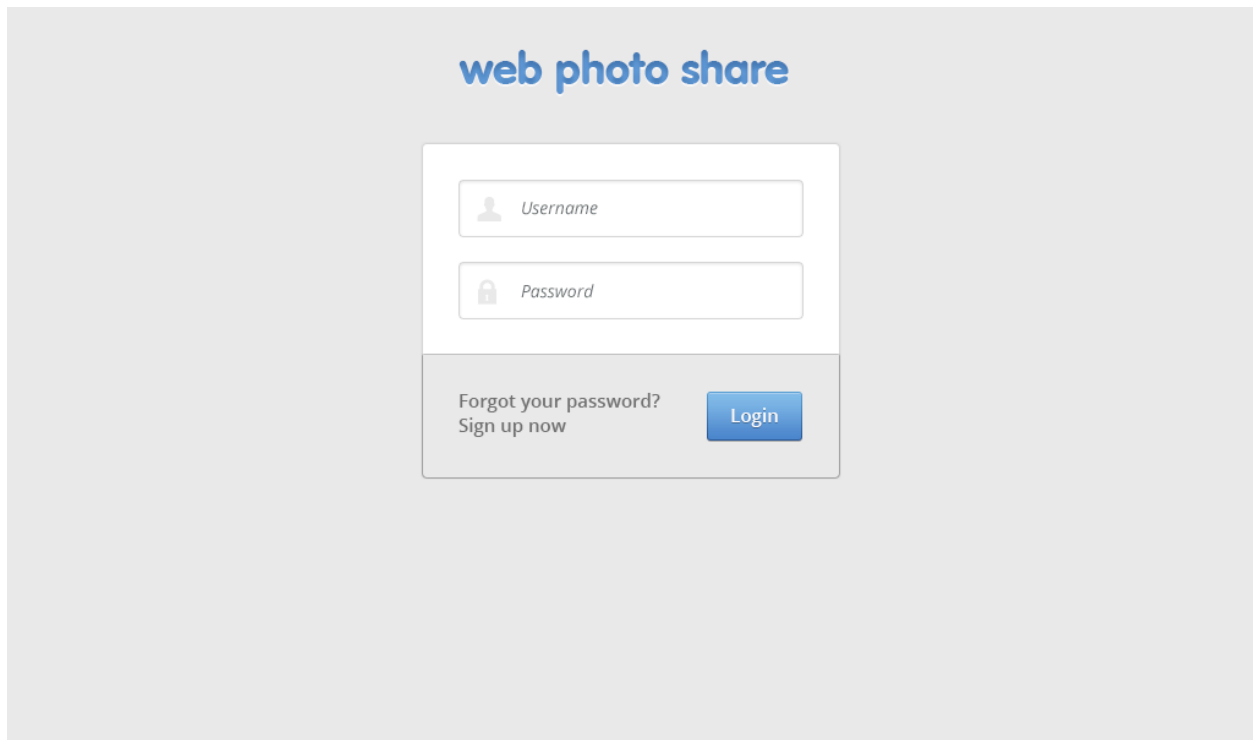
Name	Add	Delete	Update
user_friends	+ users.user_id must exist users.user_id must exist	-	+ users.user_id must exist users.user_id must exist

II. GUI Designs – Front-End

1. Homepage



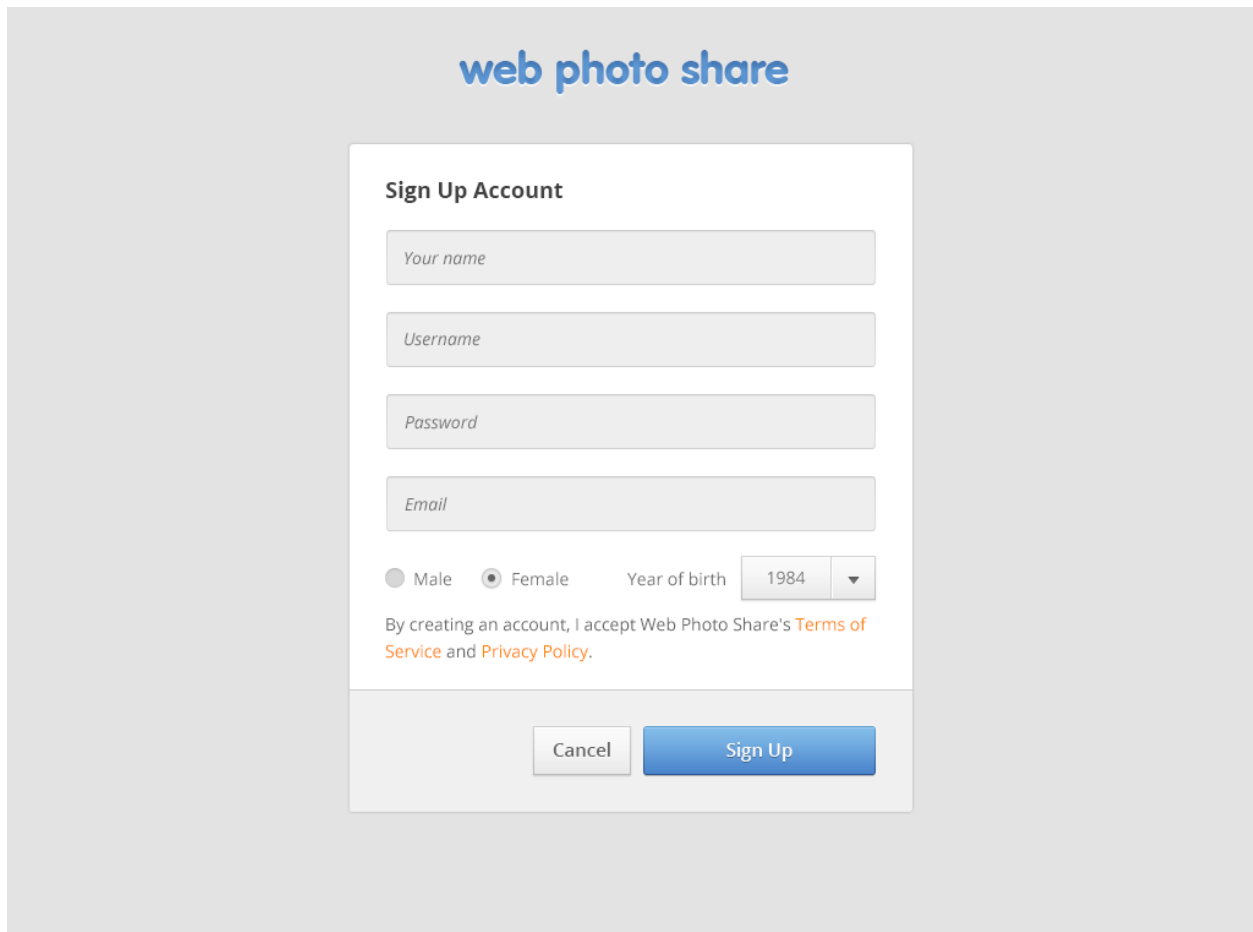
2. Login



The image shows a login form for a web application titled "web photo share". The form is centered on a light gray background. It consists of a white container with a light gray border. Inside the container, there are two input fields: the first is labeled "Username" with a user icon, and the second is labeled "Password" with a lock icon. Below these fields, there is a link "Forgot your password? Sign up now" and a blue "Login" button.

No.	Name	Type	Validation	Event	Description	Status
1	txtUsername	Textbox	Not null		Username of User	Enable
2	txtPassword	Textbox (Mode Password)	Not null		Password of User	Enable
3	btnLogin	Button		Click	Process Login Request	Enable

3. Sign Up



The image shows a web page for 'web photo share' with a 'Sign Up Account' form. The form is centered on a light gray background. It contains several input fields: 'Your name', 'Username', 'Password', and 'Email'. Below these is a row with radio buttons for 'Male' and 'Female' (with 'Female' selected), a 'Year of birth' field with a dropdown menu showing '1984', and a line of text stating 'By creating an account, I accept Web Photo Share's Terms of Service and Privacy Policy.' At the bottom of the form are two buttons: 'Cancel' and 'Sign Up'.

web photo share

Sign Up Account

Your name

Username

Password

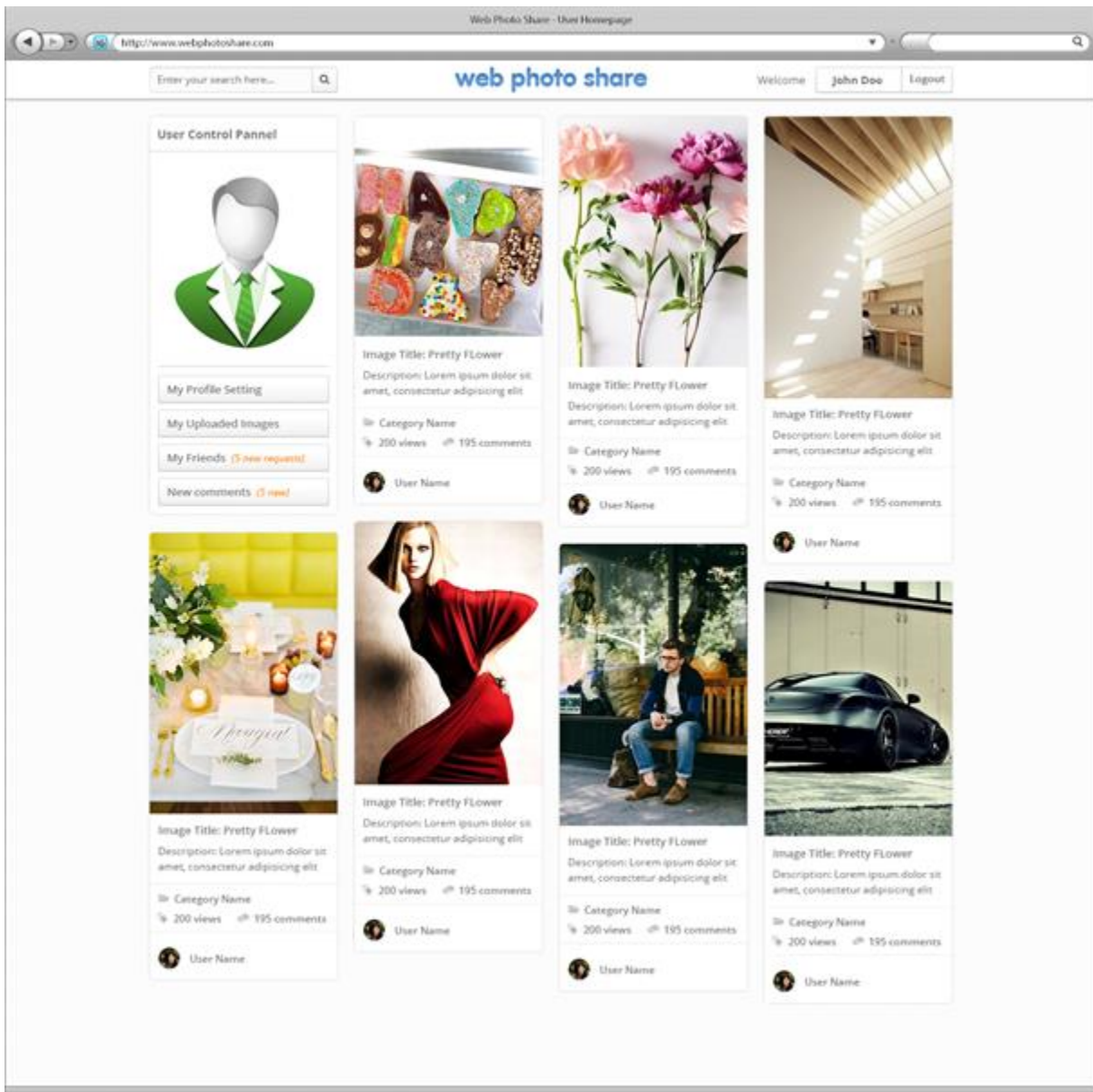
Email

☐ Male ☒ Female Year of birth 1984 ▼

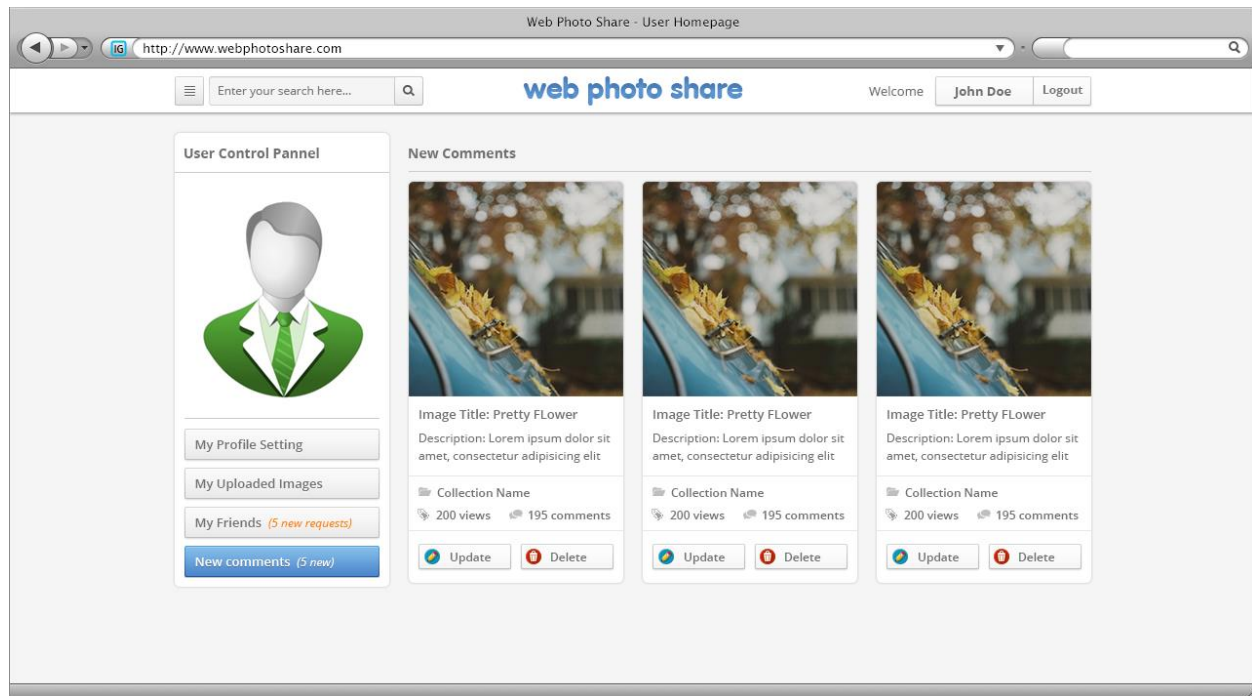
By creating an account, I accept Web Photo Share's [Terms of Service](#) and [Privacy Policy](#).

Cancel Sign Up

4. Homepage



5. User Comments



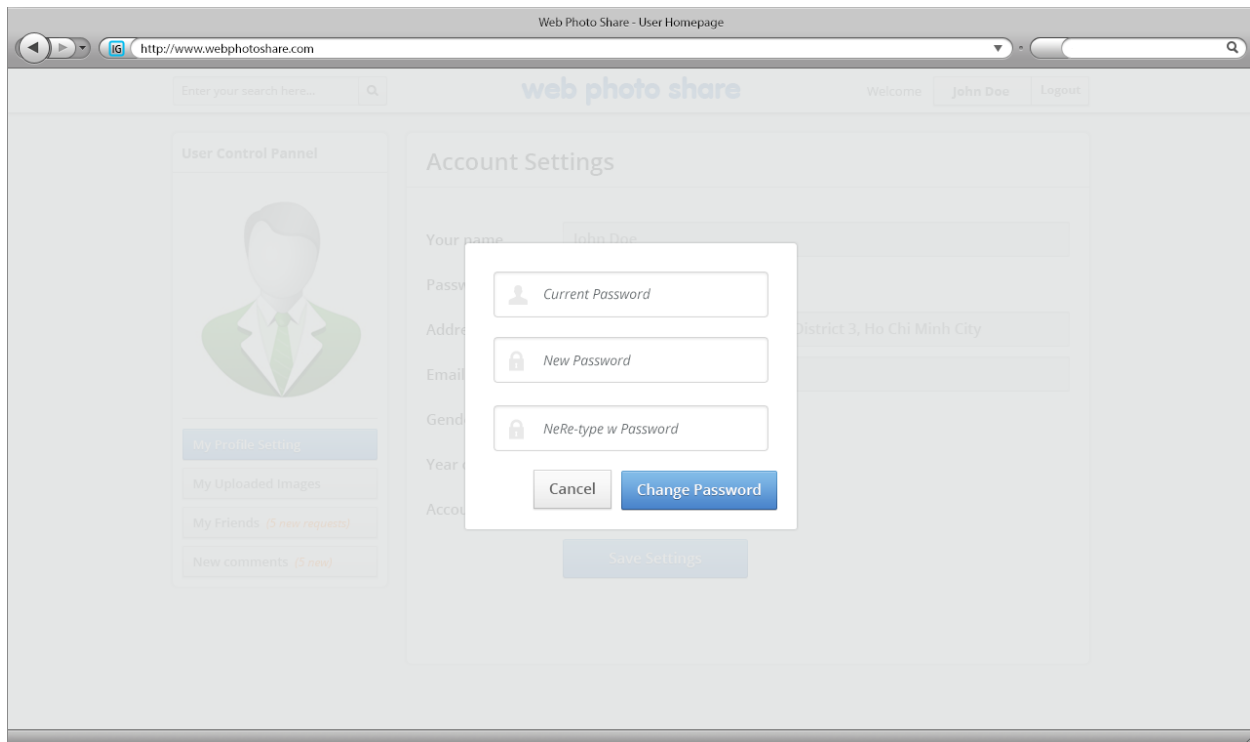
No.	Name	Type	Validation	Event	Description	Status
1	btnUpdate	Button		Click	Update Image of User	Enable
2	btnDelete	Button		Click	Delete Image of User	Enable

6. User Friends



No.	Name	Type	Validation	Event	Description	Status
1	btnFriend	Button		Click	Add Friends	Enable
2	btnUnfriend	Button		Click	Un Friends	Enable

7. User Profile Change Password



No.	Name	Type	Validation	Event	Description	Status
1	txtPassword	Textbox	Not null		Password of User	Enable
2	txtNewpassword	Textbox	Not null		New Password	Enable
3	txtComfim	Textbox	Not null		Comfim Password	Enable
4	btnCancel	Button		Click	Return to previous page	Enable
5	btnChangePassword	Button		Click	Request Change Password	Enable

8. User Upload Image

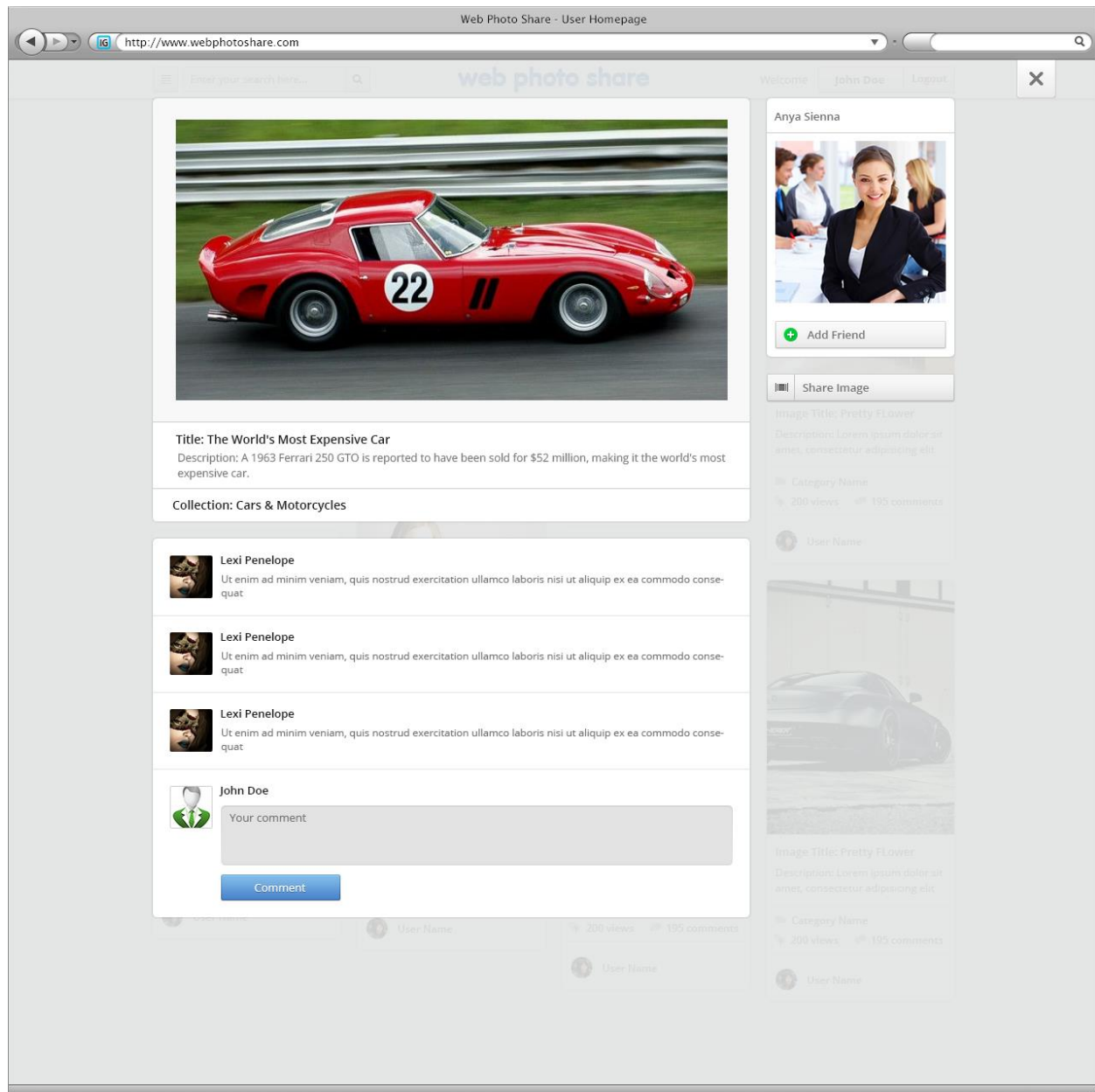
The screenshot displays the 'Web Photo Share - User Homepage' in a browser. The page features a navigation bar with a search bar, the site logo, and user information (Welcome John Doe, Logout). The main content area is divided into three columns:

- User Control Panel:** Includes a user profile picture, a 'My Profile Setting' button, and links to 'My Uploaded Images', 'My Friends (5 new requests)', and 'New comments (5 new)'.
- Upload Image:** A form with fields for 'Title' (labeled 'Image Title'), 'Description', 'Collection' (dropdown menu with 'Nature' selected), 'Privacy' (dropdown menu with 'Public' selected), and 'Image' (file upload button labeled 'Choose File' with 'No file chosen' text). An 'Upload' button is at the bottom.
- Image Preview:** Shows a preview of the selected image, which is a night view of the Golden Gate Bridge.

Below the upload form, there is a grid of four image thumbnails. Each thumbnail has a title 'Image Title: Pretty Flower', a description 'Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit', a collection name 'Collection Name', and statistics '200 views' and '195 comments'. Each thumbnail also has 'Update' and 'Delete' buttons.

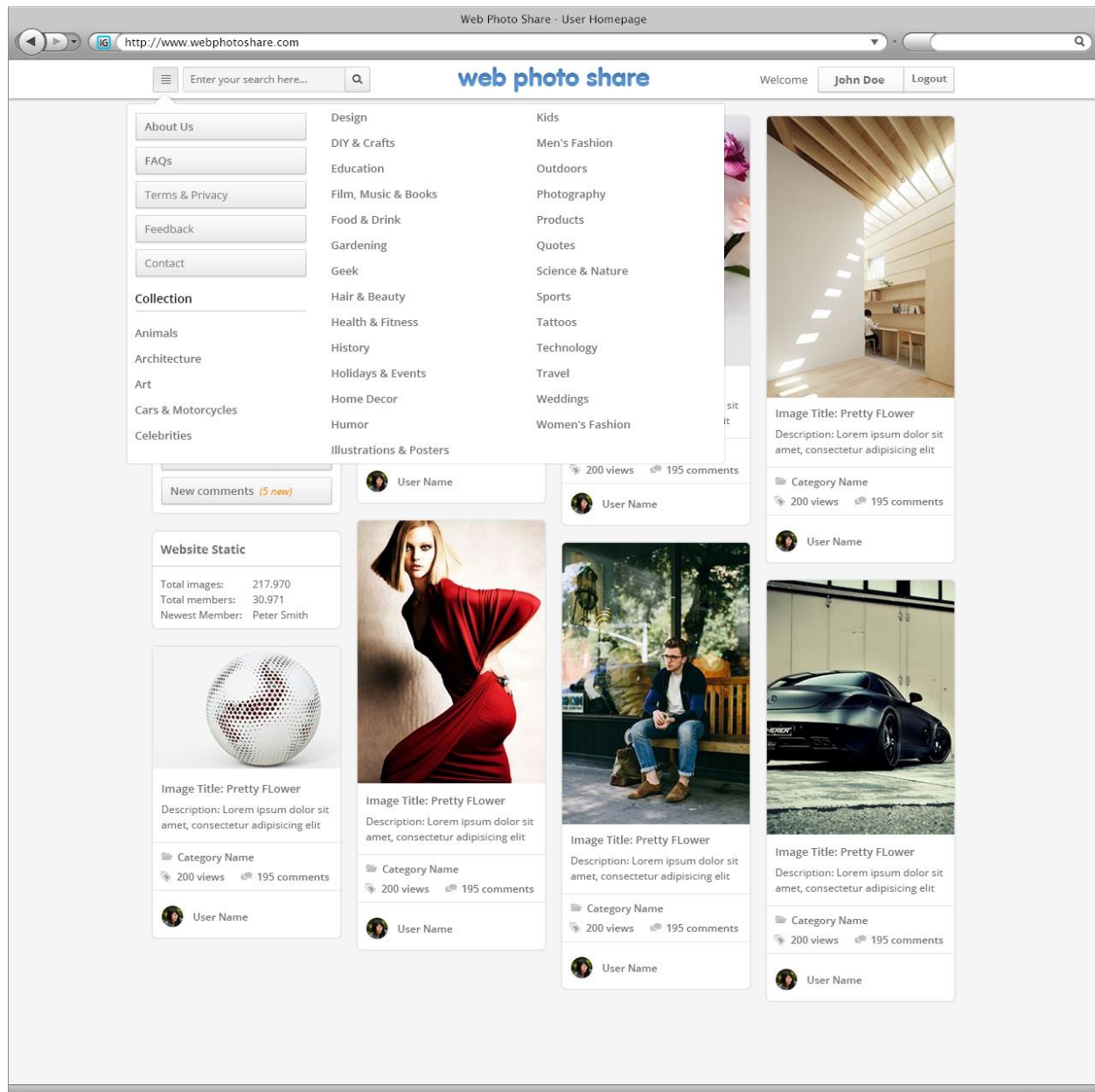
No.	Name	Type	Validation	Event	Description	Status
1	txtTitle	Textbox	Not null		Title Image	Enable
2	txtDescription	Textbox			Description of Image	Enable
3	cboCollection	ComboBox				Enable
4	cboPrivacy	ComboBox				Enable
5	fullImage	File Upload				Enable
6	btnUpload	Button		Click	Upload Image	Enable

9. View Image

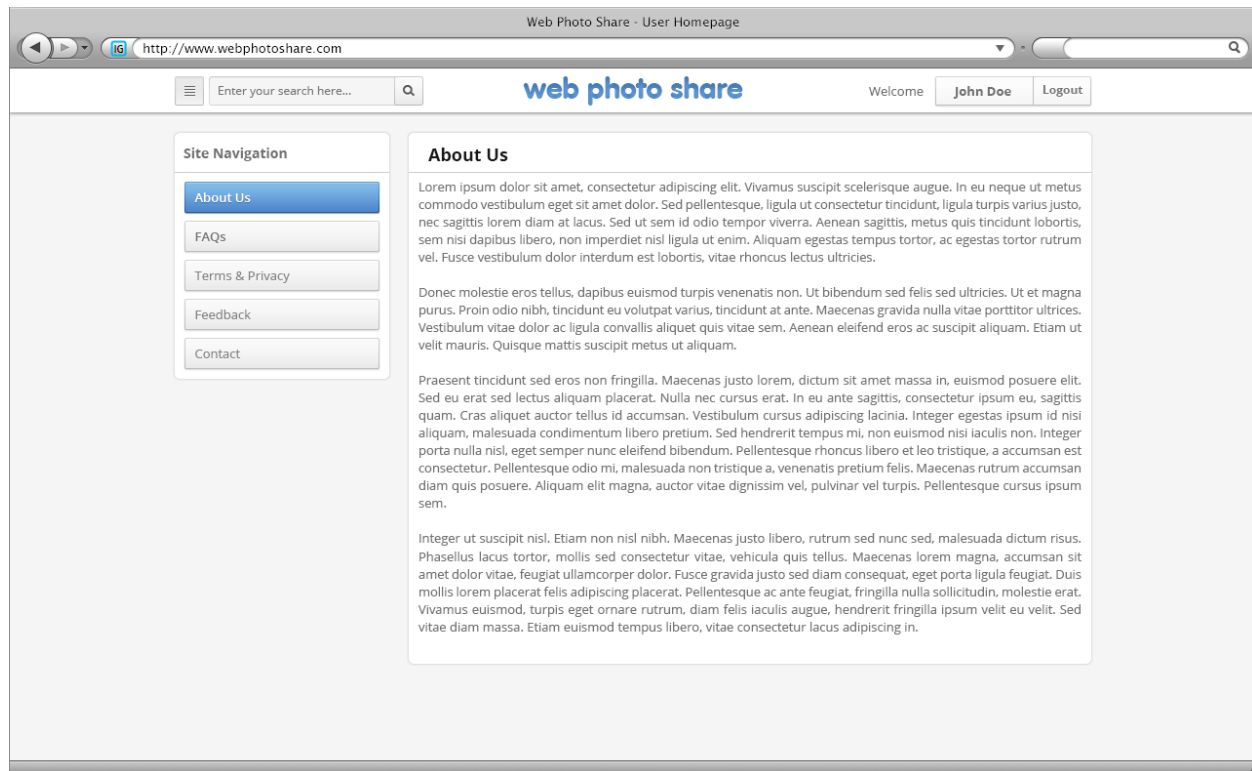


No.	Name	Type	Validation	Event	Description	Status
1	txtComment	Textbox	Not null		Comment of Igame	Enable
2	btnComment	Button		Click	Requet Comment of Igame	Enable

10. View Menu



11. Page About Us



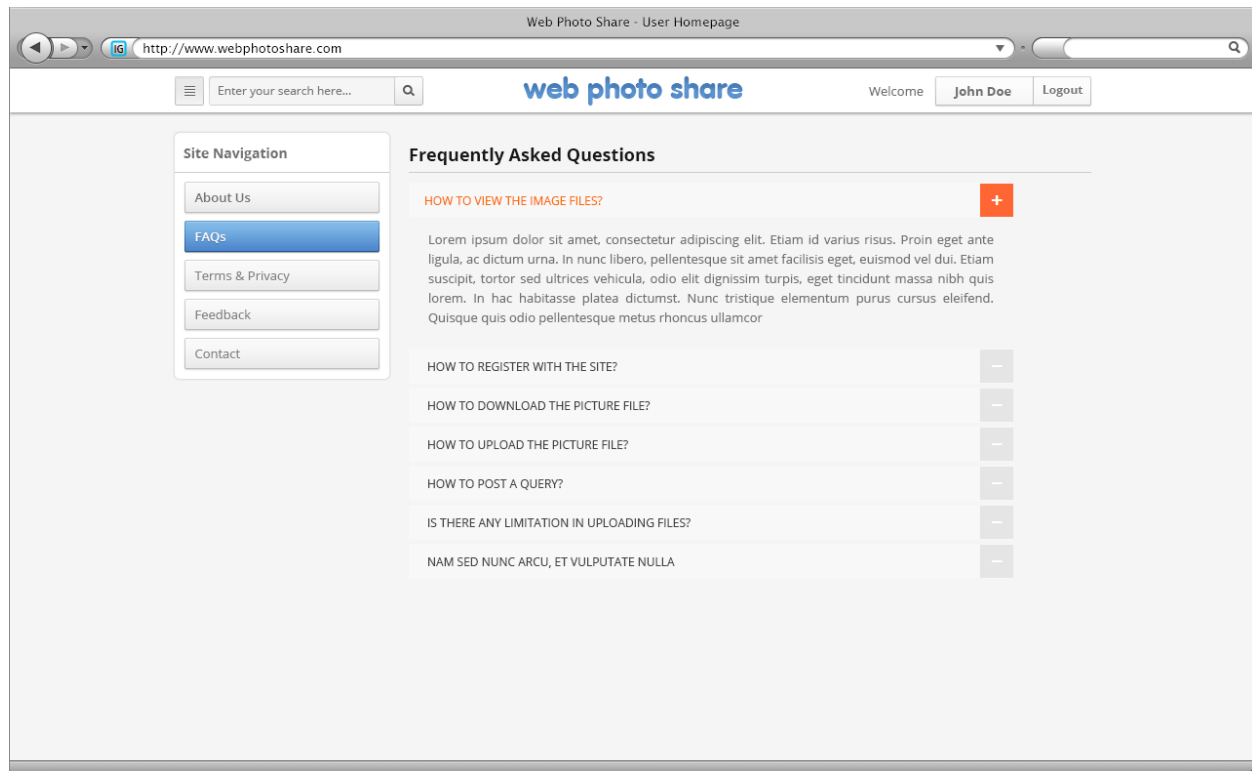
12. Page Contact

The screenshot shows the 'Contact' page of the 'web photo share' application. The browser address bar shows 'http://www.webphotoshare.com'. The page header includes the site logo, a search bar, and a user profile for 'John Doe' with a 'Logout' link. The left sidebar contains a 'Site Navigation' menu with links to 'About Us', 'FAQs', 'Terms & Privacy', 'Feedback', and 'Contact' (which is highlighted). The main content area is titled 'Contact' and contains a form with the following fields:

- Subject ***: A text input field with a placeholder 'Briefly describe the area of the site that you are using'.
- Message ***: A large text area with a placeholder 'Briefly describe the area of the site that you are using'.
- Your Name ***: A text input field.
- Your Email ***: A text input field.
- Send Contact**: A blue button to submit the form.

No.	Name	Type	Validation	Event	Description	Status
1	txtSubject	Textbox	Not null		Subject of Contact	Enable
2	txtMessage	Textbox	Not null		Message of Contact	Enable
3	txtYourname	Textbox	Not null			Enable
4	txtYourEmail	Textbox	Not null		Email of User	Enable
5	btnContact	Button		Click	Requet send Contact	Enable

13. Page FAQs

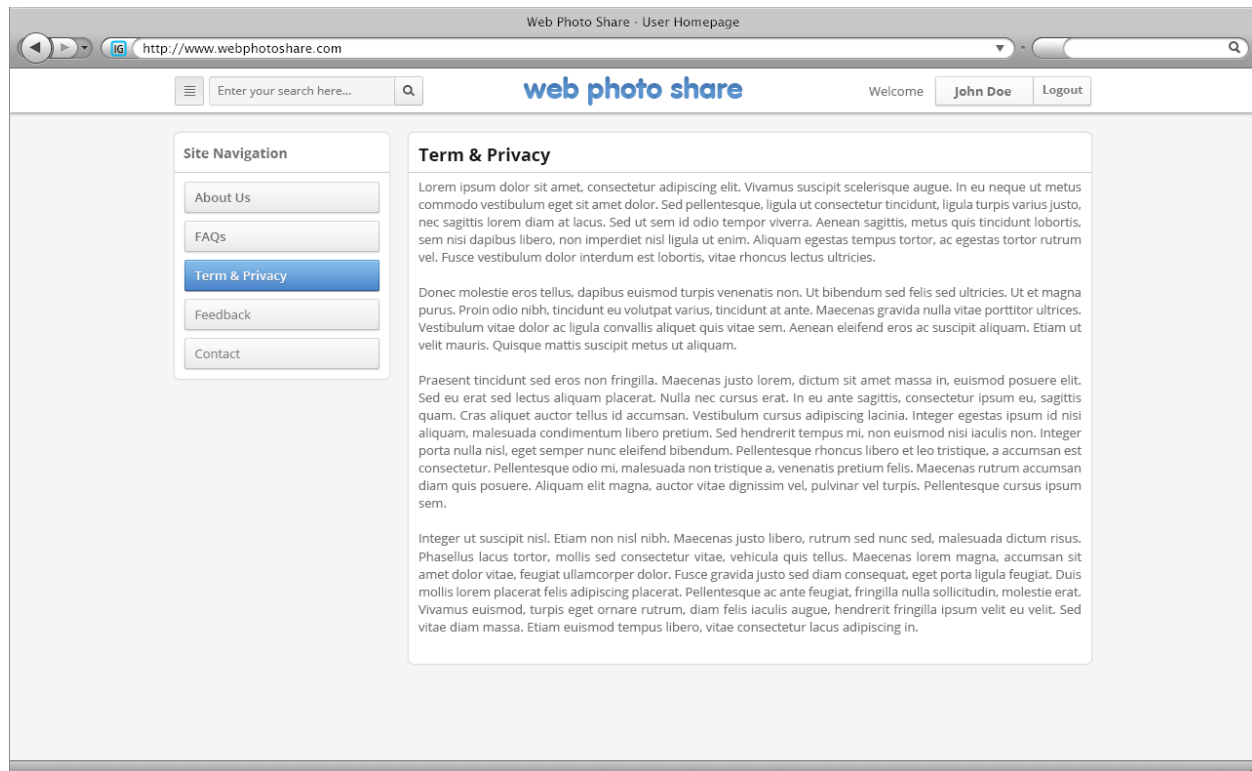


14. Page Feedback

The screenshot shows the 'web photo share' user homepage. The browser address bar displays 'http://www.webphotoshare.com'. The page has a navigation bar with a search bar, the site logo, and a user profile 'John Doe' with a 'Logout' button. A 'Site Navigation' sidebar on the left lists links: 'About Us', 'FAQs', 'Terms & Privacy', 'Feedback' (highlighted), and 'Contact'. The main content area features a 'Give us your feedback!' form. This form includes two text input fields for 'What page or feature are you using?' and 'Detail*', each with a placeholder 'Briefly describe the area of the site that you are using'. Below these are two satisfaction dropdown menus, both currently set to 'Satisfied', for 'How satisfied are you with this specific page and/or feature?' and 'How satisfied are you with the new site overall?'. A blue 'Send Feedback' button is at the bottom of the form.

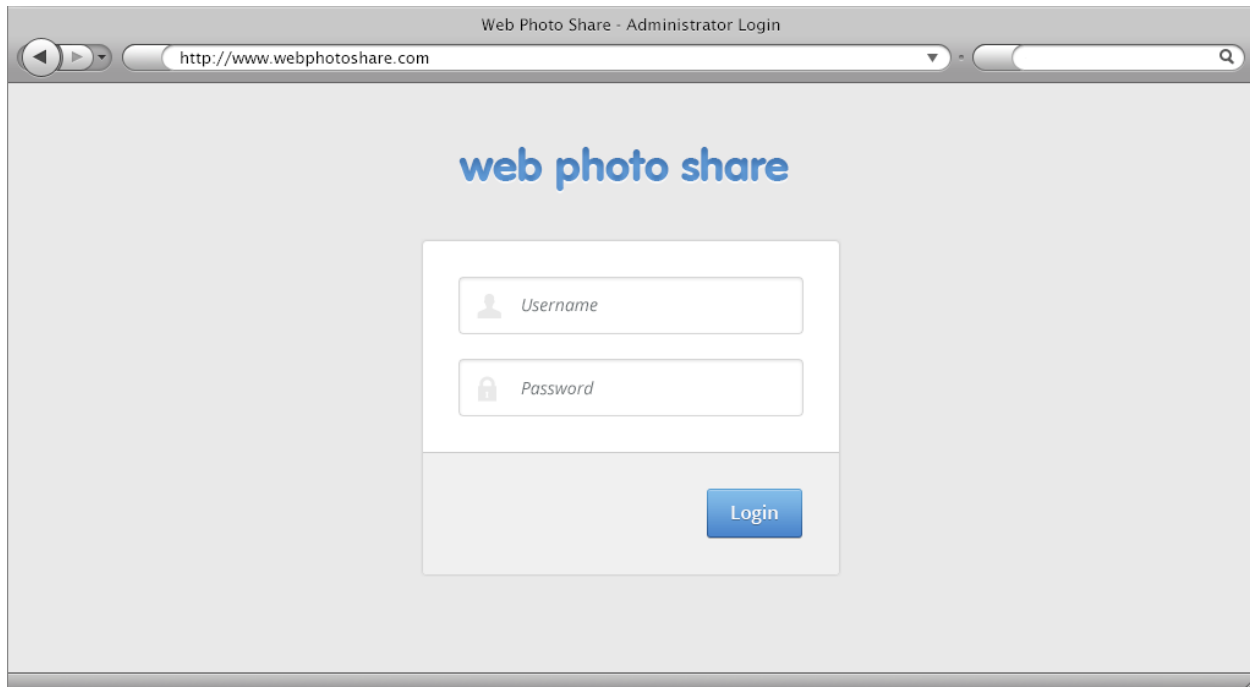
No.	Name	Type	Validation	Event	Description	Status
1	txtQuestion	Textbox	Not null		Question of FeedBack	Enable
2	txtAnswer	Textbox	Not null		Answer FeedBack	Enable
3	cboAnswer_1	ComboBox				Enable
4	cboAnswer_2	ComboBox				Enable
5	btnFeedback	Button		Click	Requet send FeedBack	Enable

15. Page Term and Privacy



III. GUI Design – Back-End

1. Login



No.	Name	Type	Validation	Event	Description	Status
1	txtUsername	Textbox	Not null		Username of User	Enable
2	txtPassword	Textbox (Mode Password)	Not null		Password of User	Enable
3	btnLogin	Button		Click	Process Login Request	Enable

2. Administrator Dashboard

Web Photo Share - Admin Dashboard

http://www.webphotoshare.com

web photo share

NAVIGATION: Dashboard, Users, Collections, Images, FAQs, Feedback, Contact

Dashboard | Change Password | Logout

Quick Search

Find User: Username

Find Collection: Collection name

Find Image: Image title, description

Site Static

Total Members	30.971
Awaiting Validation	Manage (10)
Locked Accounts	Manage (0)
Newest user	Peter Smith
Image	217.970

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No.	Name	Type	Validation	Event	Description	Status
1	txtUsername	Textbox	Not null		Username of User	Enable
2	txtCollectionName	Textbox	Not null		Collection Name	Enable
3	txtImage	Textbox	Not null		Image Title ,Description	Enable
4	btnGo	Button	Click		Search	Enable

3. User Manage

Web Photo Share - Admin Dashboard

http://www.webphotoshare.com

web photo share

Logged in as Administrator (Log Out)

NAVIGATION

- Dashboard
- Users**
- Collections
- Images
- FAQs
- Feedback
- Contact

User Management

Users Validating Declined

Search User Enter your search here...

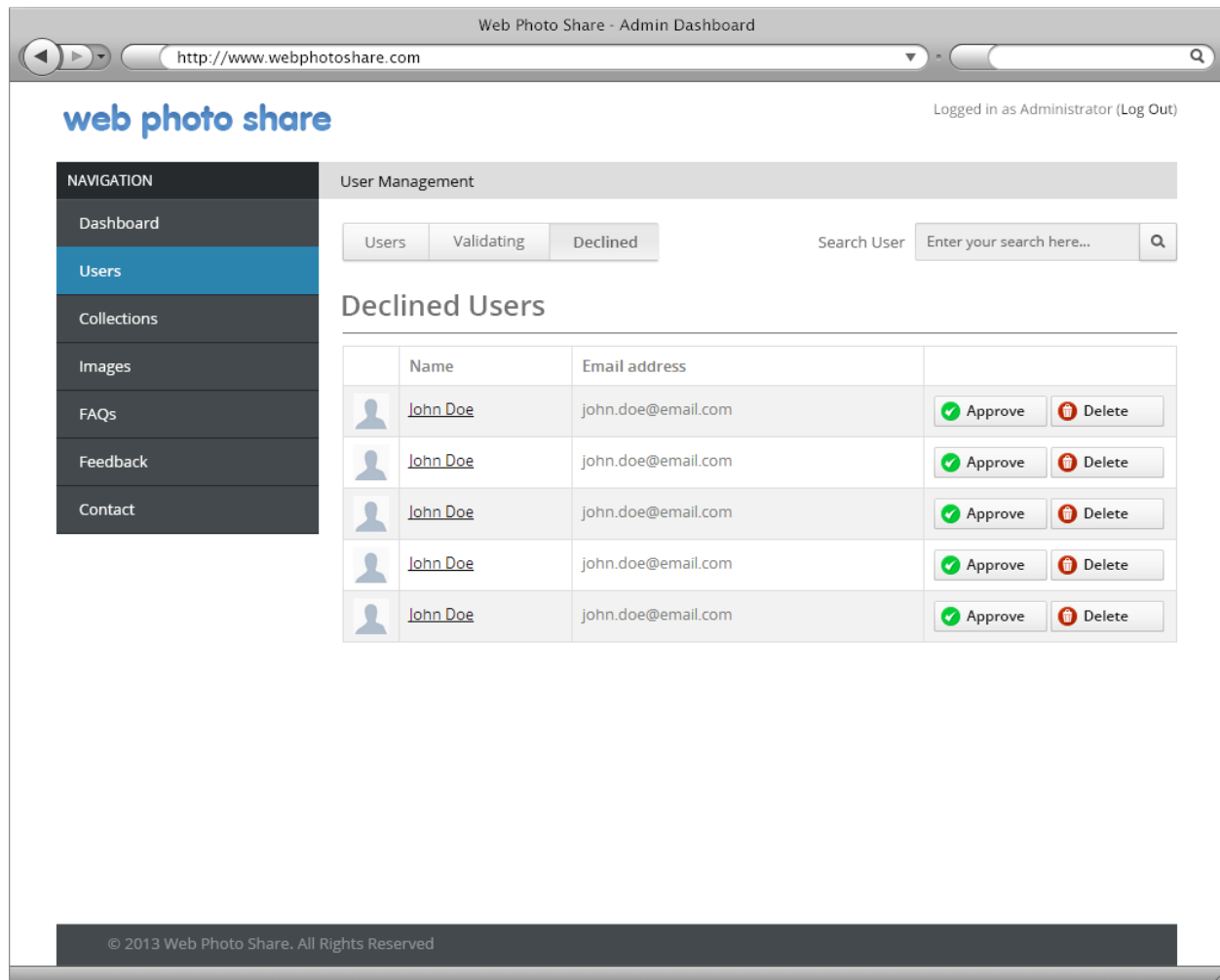
Users

	Name	Email address	Status
	John Doe	john.doe@email.com	Waiting validation
	John Doe	john.doe@email.com	Waiting validation
	John Doe	john.doe@email.com	Waiting validation
	John Doe	john.doe@email.com	Waiting validation
	John Doe	john.doe@email.com	Waiting validation
	John Doe	john.doe@email.com	Waiting validation
	John Doe	john.doe@email.com	Waiting validation
	John Doe	john.doe@email.com	Waiting validation
	John Doe	john.doe@email.com	Waiting validation
	John Doe	john.doe@email.com	Waiting validation

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No.	Name	Type	Validation	Event	Description	Status
1	txtSearch	Textbox	Not null		Search Users	Enable
2	btnSearch	Button	Not null	Click	Process Search Request	Enable
3	User,Validating,Declined	Menu				Enable

4. User Manage Declined



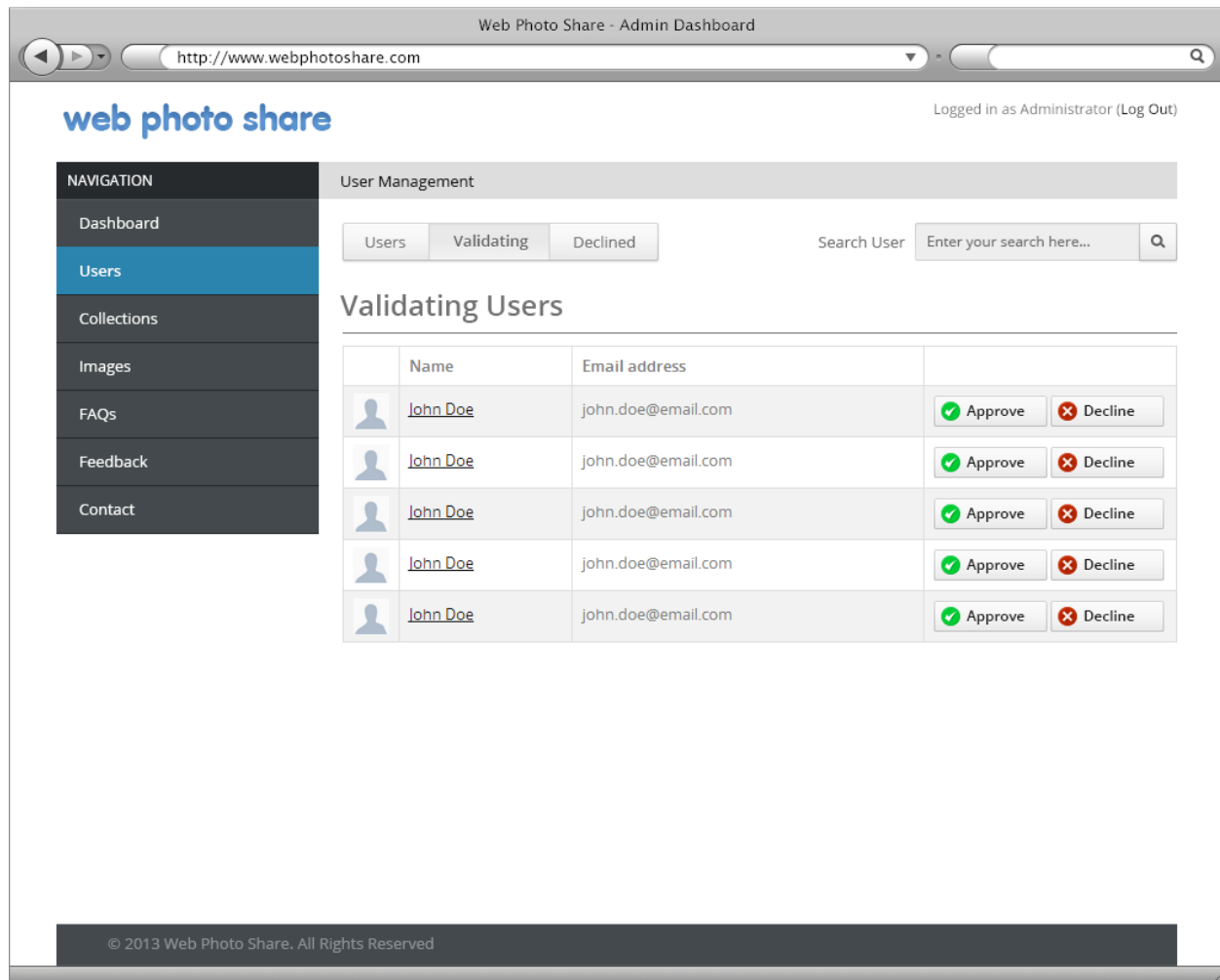
No.	Name	Type	Validation	Event	Description	Status
1	txtSearch	Textbox	Not null		Search Users	Enable
2	btnSearch	Button	Not null	Click	Process Search Request	Enable
3	User,Validating,Declined	Menu				Enable
4	btnApprove	Button		Click	Approve User	Enable
5	btnDelete	Button		Click	Delete User	Enable

5. User Manage Edit User

The screenshot displays the 'Web Photo Share - Admin Dashboard' interface. The browser address bar shows 'http://www.webphotoshare.com'. The page is titled 'web photo share' and indicates the user is 'Logged in as Administrator (Log Out)'. A left sidebar contains a 'NAVIGATION' menu with links to Dashboard, Users (selected), Collections, Images, FAQs, Feedback, and Contact. The main content area is titled 'User Management' and 'Editing John Doe'. It features a 'Decline' button and a 'Delete' button. The 'User Profile' section includes fields for User ID (165), Name (John Doe), Email (j.doe@mail.com), Gender (Male selected), Year of Birth (1984), and Status (Activated). Below this is a 'Change password' section with fields for New Password and Re-enter New Password, and a 'Save User' button. A placeholder image of a user is shown on the right. The footer contains the copyright notice '© 2013 Web Photo Share. All Rights Reserved'.

No.	Name	Type	Validation	Event	Description	Status
1	txtUserId	Textbox	Not null		UserId	Disable
2	txtUserName	Textbox	Not null		UserName	Enable
3	txtEmail	Textbox	Not null		Email	Enable
4	radGender	RadioButton		Click	Gender(Male,Female)	Enable
5	cboYearOfBirth	Combobox	Not null		Year Of Birth	Enable
6	txtNewPassword	Textbox			New Password	Enable
7	txtReNewPassword	Textbox			Re-Enter New Password	Enable
8	btnSave	Button		Click	Save User Edit	Enable
9	btnDecline	Button		Click	Decline User	Enable
10	btnDelete	Button		Click	Delete User	Enable

6. User Manage Validating



No.	Name	Type	Validation	Event	Description	Status
1	txtSearch	Textbox	Not null		Search Users	Enable
2	btnSearch	Button	Not null	Click	Process Search Request	Enable
3	User,Validating,Declined	Menu				Enable
4	btnApprove	Button		Click	Approve User	Enable
5	btnDelete	Button		Click	Delete User	Enable

7. Collection Manage

Web Photo Share - Admin Dashboard

http://www.webphotoshare.com

Logged in as Administrator (Log Out)

web photo share

NAVIGATION

- Dashboard
- Users
- Collections**
- Images
- FAQs
- Feedback
- Contact

Collection Management

Collections

Collection	
Animals	Edit Delete
Architecture	Edit Delete
Art	Edit Delete
Cars & Motorcycles	Edit Delete
Celebrities	Edit Delete
Design	Edit Delete
DIY & Crafts	Edit Delete
Education	Edit Delete
Film, Music & Books	Edit Delete
Food & Drink	Edit Delete
Gardening	Edit Delete

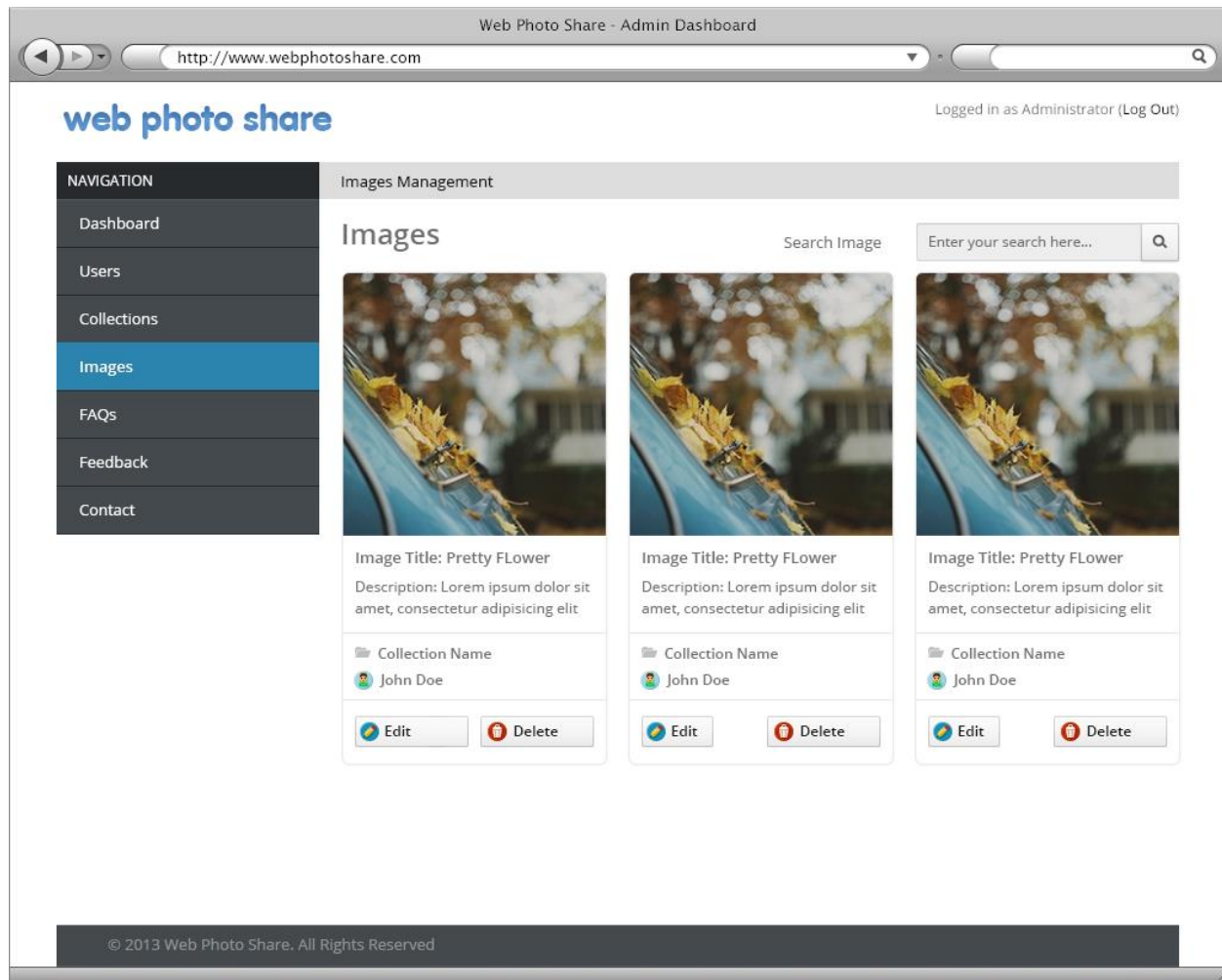
Collection Form

Collection	<input type="text" value="Collection name"/>
Description	<input type="text" value="Description"/>
<input type="button" value="Save Collection"/>	

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No.	Name	Type	Validation	Event	Description	Status
1	btnEdit	Button		Click	Edit Question	Enable
2	btnDelete	Button		Click	Delete Question	Enable
3	txtCollection	Textbox	Not Null		Collection Name	Enable
4	txtDescrption	Textbox	Not Null		Description	Enable
5	btnSave	Button		Click	Save Collection	Enable

8. Image Manage



No.	Name	Type	Validation	Event	Description	Status
1	txtSearch	Textbox	Not Null		Search Image	Enable
2	btnSearch	Button		Click	Start Search	Enable
3	btnEdit	Button		Click	Edit Image Detail	Enable
4	btnDelete	Button		Click	Delete Image	Enable
5	btnSearch	Button		Click	Search Image	Enable
6	txtSearch	Textbox			Search Image	Enable

9. Image Manage Edit

The screenshot shows the 'Web Photo Share - Admin Dashboard' interface. The browser address bar displays 'http://www.webphotoshare.com'. The user is logged in as 'Administrator' with a 'Log Out' link. The 'web photo share' logo is in the top left. A navigation sidebar on the left lists: Dashboard, Users, Collections, Images (highlighted), FAQs, Feedback, and Contact. The main content area is titled 'Images Management' and 'Editing Image'. It features a preview of a photo of a blue car wheel with yellow leaves. Below the preview, it states 'Uploaded by: John Doe', 'Dimensions: 2048 x 1536 px', and 'Size: 517.96 kB'. To the right of the preview is a form with fields for 'Image title', 'Description' (containing placeholder text), 'Collection' (set to 'Gardening'), and 'Access' (set to 'Public'). An orange 'Save Image' button is at the bottom right of the form. The footer contains the text '© 2013 Web Photo Share. All Rights Reserved'.

No.	Name	Type	Validation	Event	Description	Status
1	txtTitle	Textbox	Not Null		Title of Image	Enable
2	txtDescription	Textbox	Not Null		Depscription of Image	Enable
3	cboCollection	Combobox	Not Null		Collection Name	Enable
4	cboAccess	Combobox	Not Null		Status Image	Enable
5	btnSave	Button		Click	Save Image	Enable

10. FAQs Manage

Web Photo Share - Admin Dashboard

http://www.webphotoshare.com

web photo share

Logged in as Administrator (Log Out)

NAVIGATION

- Dashboard
- Users
- Collections
- Images
- FAQs**
- Feedback
- Contact

FAQs Management

Frequently asked questions

Question	
How to register with the site?	Edit Delete
How to download the picture file?	Edit Delete
How to upload the picture file?	Edit Delete
How to post a Query?	Edit Delete
Is there any limitation in uploading files?	Edit Delete
Nam sed nunc arcu, et vulputate nulla	Edit Delete

New FAQs

Question

Answer

Save FAQs

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No.	Name	Type	Validation	Event	Description	Status
1	btnEdit	Button		Click	Edit Question	Enable
2	btnDelete	Button		Click	Delete Question	Enable
3	txtQuestion	Textbox	Not Null		Question	Enable
4	txtAnswer	Textbox	Not Null		Answer	Enable
5	btnSave	Button		Click	Save FAQs	Enable

11. Contact Manage

The screenshot displays the 'Web Photo Share - Admin Dashboard' interface. The browser address bar shows 'http://www.webphotoshare.com'. The user is logged in as 'Administrator' with a 'Log Out' link. The 'web photo share' logo is in the top left. A 'NAVIGATION' sidebar on the left lists: Dashboard, Users, Collections, Images, FAQs, Feedback, and Contacts (highlighted). The main content area is titled 'Contact Management' and 'Contacts'. It features a search bar labeled 'Search Contact' with the placeholder 'Enter your search here...' and a magnifying glass icon. Below the search bar is a table with columns: Sender, Subject, Date, and action buttons. The table contains 10 rows of contact data, each with a 'Reply' button (blue speech bubble icon) and a 'Delete' button (red trash can icon). The footer of the dashboard shows '© 2013 Web Photo Share. All Rights Reserved'.

Sender	Subject	Date	
John Doe	Lorem ipsum dolor sit amet	Mon, Feb 11, 2013 at 9:38 PM	
John Doe	Lorem ipsum dolor sit amet	Mon, Feb 11, 2013 at 9:38 PM	
John Doe	Lorem ipsum dolor sit amet	Mon, Feb 11, 2013 at 9:38 PM	
John Doe	Lorem ipsum dolor sit amet	Mon, Feb 11, 2013 at 9:38 PM	
John Doe	Lorem ipsum dolor sit amet	Mon, Feb 11, 2013 at 9:38 PM	
John Doe	Lorem ipsum dolor sit amet	Mon, Feb 11, 2013 at 9:38 PM	
John Doe	Lorem ipsum dolor sit amet	Mon, Feb 11, 2013 at 9:38 PM	
John Doe	Lorem ipsum dolor sit amet	Mon, Feb 11, 2013 at 9:38 PM	
John Doe	Lorem ipsum dolor sit amet	Mon, Feb 11, 2013 at 9:38 PM	
John Doe	Lorem ipsum dolor sit amet	Mon, Feb 11, 2013 at 9:38 PM	

No.	Name	Type	Validation	Event	Description	Status
1	btnDelete	Button		Click	Delete Contact	Enable
2	btnReply	Button		Click	Content Reply	Enable
3	btnSearch	Button		Click	Search Contacts	Enable
4	txtSearch	Textbox			Search Contacts	Enable

12. Contact Manage Reply

The screenshot shows the 'web photo share' Admin Dashboard. The left sidebar contains a 'NAVIGATION' menu with links to Dashboard, Users, Collections, Images, FAQs, Feedback, and Contacts (highlighted). The main content area is titled 'Contact Management' and displays a 'Reply' form for a contact named John Doe. The form includes fields for Sender, Email, Date, Subject, and Message. A 'Delete' button is located at the top right of the form. Below the message field is a 'Reply' section with a text input area and a 'Send Message' button. The footer indicates '© 2013 Web Photo Share. All Rights Reserved'.

Web Photo Share - Admin Dashboard

http://www.webphotoshare.com

web photo share

Logged in as Administrator (Log Out)

NAVIGATION

- Dashboard
- Users
- Collections
- Images
- FAQs
- Feedback
- Contacts

Contact Management

Reply Delete

Sender: John Doe

Email: j.doe@mail.com

Date: Mon, Feb 11, 2013 at 9:38 PM

Subject: Lorem ipsum dolor sit amet

Message: Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt.

Reply

Reply message

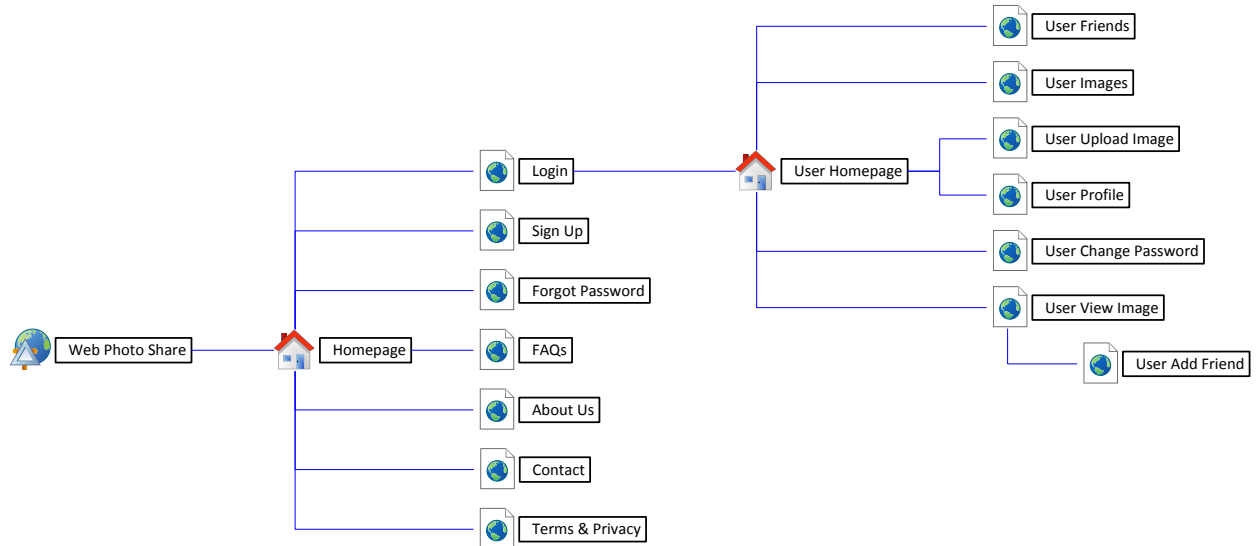
Send Message

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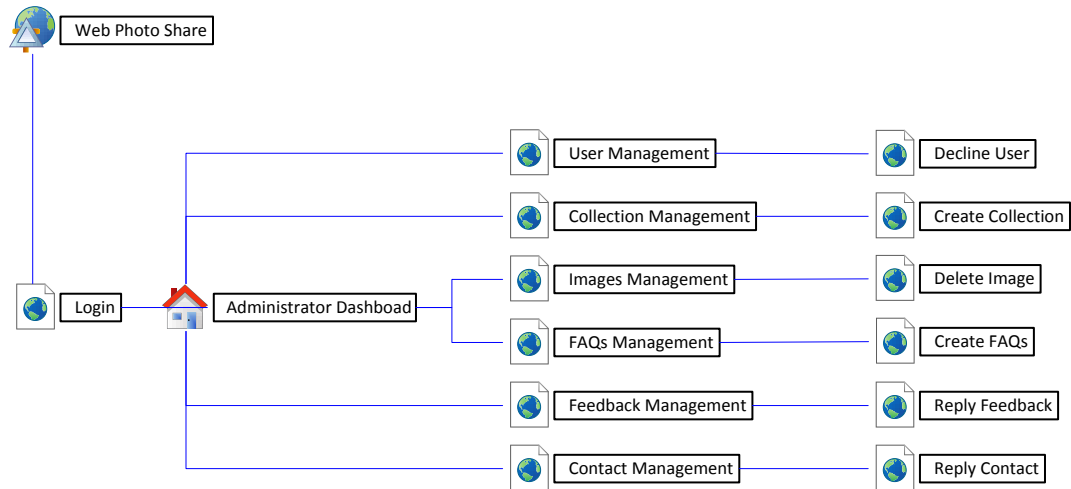
No.	Name	Type	Validation	Event	Description	Status
1	btnDelete	Button		Click	Delete Contact	Enable
2	txtReply	Textbox	Not null		Content Reply	Enable
3	btnSend	Button		Click	Process Send Reply	Enable

IV. Sitemap

1. Front-End Sitemap



2. Back-End Sitemap



V. Task sheet review 3

Project Title: Web Photo Share		Project Ref. No: 2			
		Date of Preparation of Activity Plan			
No.	Task	Start Date	Actual Days	Member Names	Status
01	Database Relationship	03 October, 2013	10	Le Ngoc Nhut Nguyen Van Hai	Completed
02	Database Structure			Le Ngoc Nhut	Completed
03	Database Constrains			Nguyen Van Hai	Completed
04	GUI Design Front-End			Nguyen Vu Hung	Completed
05	GUI Design Back-End			Nguyen Vu Hung	Completed
06	Site Map			Nguyen Anh Tuan	Completed

	Prepare By: Group 1	Approved By: Faculty
Date: Oct 12, 2013	Team Leader Nguyen Vu Hung	Nguyen Ngo Phuoc