|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | |  | | **MINISTRY OF EDUCATION AND TRAINING** | | | **FPT UNIVERSITY** | | |
| Capstone Project Document |
| Family Album Sharing System |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **Group 12** | | | **Group member** | Huỳnh Trần Minh Nhựt – Leader – SE60936  Tô Đình Tân – Member – SE60926 | | **Supervisor** | Nguyễn Huy Hùng | | **Ext. Supervisor** | N/A | | **Capstone Project code** | FAMSAM | | |
| – Ho Chi Minh City, September 2014 – |

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# INTRODUCTION

## PROJECT INFORMATION

* Project name: Family Album Sharing System
* Project code: FAMSAM
* Product Type: Web Application, Mobile Application

## OVERVIEW AND SOLUTION

Nowadays, sharing photos through the internet has become more and more popular. At present, there are several service which provide photo album sharing feature like Facebook, Instagram, Flickr. However, they only support to share photos randomly, not fully support specific characteristics of each family. As result of the fact, users are on demands of a service for family to share their moment such as wedding, baby growing, and ceremonies.

Therefore, the system is created to provide functions like creating albums with stories, sharing albums with other families and users can comment on photos, albums or stories. Photos also can be taken by mobile’s camera and add to album instantly. The system will make families save their memorable moment and connect together easily.

# SOFTWARE PROJECT MANAGEMENT PLAN

## PROBLEM DEFINITION

### NAME OF THIS CAPSTONE PROJECT

Project official name is “Family Album Sharing System”. Project code is “FAMSAM”.

### PROBLEM ABSTRACT

In order to satisfy users demand for a photo sharing system, this project is provide a website and mobile application that allow user to create or join families and share their stories/photos with others.

### PROBLEM OVERVIEW

#### The Current Systems

At moment, there are several services around the world which support photo album sharing as social network:

* Facebook (facebook.com): Facebook is a huge social network, which provide photo album and story sharing feature. However, when using Facebook, people tend to have many friends which they do not even know.
* Instagram (instagram.com): Instagram helps user to take and share picture to friends and family but all its feature only focus on mobile app.
* Flickr (flickr.com): Unlike Instagram, Flickr has rich feature user interface on both website and mobile app while it does not strongly support user to create story.

There are more photo album sharing system but after all, their services are not focus on family characteristic or groups of people that have strong relationship, who want to store, manage and share their specific moment through albums and stories.

#### The Proposed System

This product is a social network that support managing and sharing photo album among families. This also provide the most convenient and effective way to manage photo albums.

For more specific, the system supports the follow features:

* User can create, join or leave one or more families.
* User can request other family to make neighbor.
* While being a member of a family, user can create stories which contain photo albums for him/her family.
* User can manage their stories, also albums and photos.
* User can share their stories and albums with their neighbors.
* User can follow his/her neighbors to see if their added a new stories, albums.
* User can like, comment on stories, albums and photos.
* User can report bad photos to admin.
* User can add photos to an album directly by using phone’s camera.
* Admin can manage all registered user in the system.
* Admin can manage all the posts (photos, albums, stories) in the system.
* Admin can manage reports from users.
* The system can recommend similar posts (photos, albums, stories) for users based on their likes.
* The system can detect blur images added by user which caused by camera shaking, motion or low compressed.

#### Boundaries of the System

At current version, the system support for modern web browser as Chrome, Firefox and Internet Explorer 11.

Due to lack of time, the system does not include below features:

* Chat system.
* Image filter when upload.
* Multi-language.
* Auto detect and censor violent and obscene images.

#### Development Environment

##### Hardware requirement:

* Ram: 2 GB.
* CPU: Intel Core i3 2.5 GHz.
* HDD: 100 GB.

##### Software requirement:

* + Windows 7 or Windows 8.
  + .NET Framework 4.5.
  + Android 4.

## PROJECT ORGANIZATION

### SOFTWARE PROCESS MODEL

Our project use **Scrum** as project model.

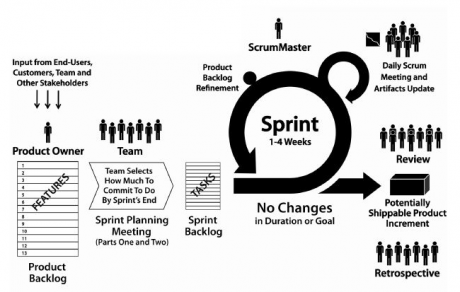


Figure 1 - Scrum Model [URL]

Due to Capstone Project characteristic, we decide each sprint takes one week. At the beginning of each sprint, we have sprint planning meeting, all team members will discuss to define sprint backlog which is suitable to be completed within a week. Daily report is operated through online conference meeting.

### ROLES AND RESPONSIBILITIES

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Full name | Team Role | Scrum Team Role | Responsibilities |
| 1 | Nguyễn Huy Hùng | Supervisor | Product Owner | * Outline work in scrum backlog * Prioritize work * Answer question and deliver direction |
| 2. | Huỳnh Trần Minh Nhựt | Team Leader | Scrum Master | * Facilitate productivity – maximize team performance * Complete all individual work |
| 3. | Tô Đình Tân | Team Member | Scrum Team Member | * Commit individual product on time * Support each other to complete team work |
| 4 | Trần Lê Tuấn | Team Member | Scrum Team Member | * Commit individual product on time * Support each other to complete team work |

### TOOLS AND TECHNIQUES

##### Tools:

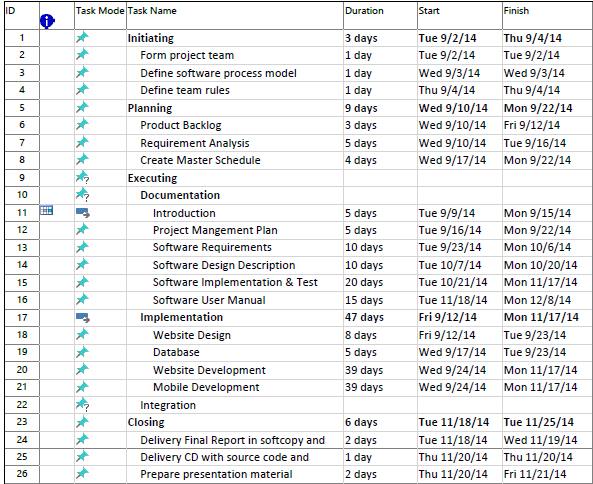
|  |  |
| --- | --- |
| IDE | Visual Studio 2013 Professional |
| SVN | Visual Studio Foundation Server |
| Diagram design | Microsoft Visio 2013, StarUML |

##### Techniques

|  |  |
| --- | --- |
| Server side | * .NET Framework 4.5. * ASP .NET Web API 2 to provide RESTful web service API on server. * Microsoft SQL Server 2012 as database. * Entity Framework 6 as Object-Relational Mapping to access database. |
| Client side | * HTML5. * AngularJS 1.2 to provide MV\* javascript framework. |

## PROJECT MANAGEMENT PLAN

### TASKS



### RISK ASSESSMENT

* Misunderstand user requirement.
* Study process may expand task’s duration.

### DELIVERABLES

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Deliverable | Delivery date | Delivery location | Note |
| 1 | Introduction Document | 15/9/2014 | FU – CMS | Report No. 1 |
| 2 | Software Project Management Plan | 22/9/2014 | FU – CMS | Report No. 2 |
| 3 | Software Requirements Specification | 06/10/2014 | FU – CMS | Report No. 3 |
| 4 | Software Design Description | 10/20/2014 | FU – CMS | Report No. 4 |
| 5 | Software Implementation & Test | 17/11/2014 | FU – CMS | Report No. 5 |
| 6 | Software User Manual | 17/11/2014 | FU – CMS | Report No. 6 |
| 7 | Completed version of Report No. 1 to Report No. 6 | 08/11/2014 | Classroom  FU – CMS | Final version |
| 9 | CD contains all Source code and installable system | 08/11/2014 | Classroom | Final version |

### ALL MEETING MINUTES

## CODING CONVENTION

<https://famsam.googlecode.com/svn/doc/Standard_CSharp%20Coding%20Convention.pdf>

# SOFTWARE REQUIREMENTS SPECIFICATIONS

## USER REQUIREMENT SPECIFICATION

The system is a social network that provides sharing albums services. On this system, users can connect with their family, and share their photos, albums or stories together. The system should provide features that detects the blur photos and recommend stories or albums to user base on their “like”.

More precisely, the system should offer the features listed below.

### WEBSITE USER REQUIREMENTS

A website user should have the following abilities:

* Create new family.
* Invite other users to join family.
* Accept invitation join family from other users.
* Leave family.
* Search family.
* Follow/Unfollow family.
* Create/Edit/Remove Story in Family.
* Create/Edit/Remove Album.
* Create Slideshow for Album/Story.
* Tag neighbors in a story.
* Update user information.

### FAMILY OWNER REQUIREMENTS

A family owner should have the following abilities:

* Send neighbor request to other family.
* Accept neighbor request from other family.
* Change background image of family.

### ADMINISTRATOR REQUIREMENTS

Administrators of the system should have the following abilities:

* Configure recommendation system attributes
* Manage reports from users.
* Manage users’ account.

### SYSTEM REQUIREMENTS

The system should have the following features:

* Automatically detect blur images.
* Automatically recommend stories or albums to user base on user’s “like”.

## SYSTEM REQUIREMENT SPECIFICATION (SPECIFIC REQUIREMENTS)

### SYSTEM FEATURES

This section provides a short overview of all features. Each feature is a group of similar use cases which are given by the system to satisfy user requirements.

Users who can interact directly with the system can be divided into 4 kinds of actors as follows:

|  |  |  |
| --- | --- | --- |
| No. | Actor | Description |
| 1 | Guest | Visitor who is not logged in to the system. |
| 2 | User | Logged in guest. |
| 3 | Family Owner | User who is owner of a family. |
| 4 | Administrator | User who has the right of administration: manage all activities happen in the system. |

Table 1: Actor list



Figure 2: Overall Use-case diagram

### USE CASE DIAGRAM AND USE CASE SPECIFICATION

* 1. **<Guest> Login**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE LOGIN SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Login | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 04/12/2014 | Priority | Normal | | |
| **Actor** | Guest | | | | |
| **Summary** | This use case is about login into system. | | | | |
| **Goal** | Guest becomes Website user. | | | | |
| **Triggers** | * Guest access system’s address in browser. | | | | |
| **Preconditions** | N/A. | | | | |
| **Post Conditions** | * Success: Go to User’s homepage. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Access system’s address. | Show Login page:   * Username: label * txtUsername: textbox * Password: label * txtPassword: textbox * Sign in: button * Sign up for free: button | | 2 | Fill username and password in textboxes and click “Sign in” | Show User homepage. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| N/A | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * Username and password are not null or empty. * If username and password are correct, guest becomes Website user. The System will create a session for user in database. Each user is distinguished by a token. * If username and password are not correct, system send error message to guest. | | | | |  |

* 1. **<Website User> Logout**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE LOGOUT SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Logout | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 04/12/2014 | Priority | Normal | | |
| **Actor** | Guest | | | | |
| **Summary** | This use case is about logout from system. | | | | |
| **Goal** | Website User logged out from system successful. | | | | |
| **Triggers** | * User logged in successful. | | | | |
| **Preconditions** | * Website User click “Log out” link in top-bar menu. | | | | |
| **Post Conditions** | * Success: Go to login page. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Log out” link in top-bar menu. | Show Login page. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| N/A | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If user logged out successful, the session of that user is removed from database. | | | | |  |

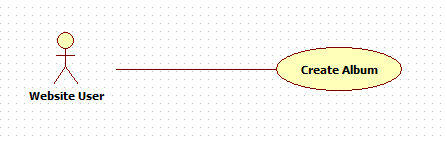
* 1. **<Website User> View Album**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE VIEW ALBUM SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | View Album | | | | |
| Author | To Dinh Tan | | | | |
| Date | 30/09/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about view an album. | | | | |
| **Goal** | User can view album detail. | | | | |
| **Triggers** | * Website user clicks on the name of album in navigation bar. * Website user clicks on the name of album while viewing story detail. * Website user clicks on the name of album while viewing family homepage. * Website user clicks on the name of album while viewing all albums of an user. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: Show album detail page * Fail: Show “Content not found” page. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on the name of album | Show Album Detail Screen with:  + Album Title: text  + Album Owner: link  + Date Time upload  + Album Description: text  + “Like”: link  + “Edit”: link (if current user is owner of album)  + “Remove this album”: link (if current user is owner of album)  + “I don’t like this album”: link (if current user is not owner of album)  + List of photos  + “Share”: link  + List of comments  + Comment: textbox | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If album exists in database, it will be shown in Album Detail page with:   + All photos of album.  + Number of likes on album.  + All comments about album.   * If album does not exist in database, Not Found page is shown. | | | | |  |

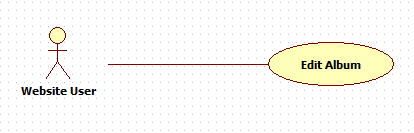
* 1. **<Website User> Create Album**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE CREATE ALBUM SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Create Album | | | | |
| Author | To Dinh Tan | | | | |
| Date | 30/09/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about create an album. | | | | |
| **Goal** | New album is created successfully. | | | | |
| **Triggers** | * Website user clicks on “Create Album” link on top-bar menu. * Website user clicks on “Create New Album” in pop-up “Add Albums” while creating story. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: New album is created, show album detail page * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Create Album” or “Create New Album” link | “Create Album” screen show:   * Story: read-only textbox * Choose Story: button * Title: textbox * Share with Others Family: checkbox * Families to share: textbox * Description: text-area * Hashtags: textbox * Add: button * “Add Photos”: button * Remove Selected Photos: link * “Create”: button | | 2 | Click “Choose Story” button | “Choose a story” pop-up is shown with:   * List of stories of current user. * “Cancel”: button | | 3 | Click on the name of story  [Alternative Scenario 1] | Name of chosen story is filled in Story textbox. | | 4 | Check “Share with Others Family” checkbox | Show “Families to share” textbox | | 5 | Type keyword in “Families to share” checkbox | Show list of current user’s families and neighbors that contains keyword. | | 6 | Click on family in list | Chosen family added into “Families to share” textbox | | 7 | Click “X” link on the top right of textbox “Families to share” | Textbox is removed. | | 8 | Type keyword in “Hashtags” textbox and click “Add” button | New textbox with keyword value is added below. | | 9 | Click “X” link on the top right of textbox “Hashtags” | Textbox is removed. | | 10 | Click “Add Photos” button | Show “Upload Photos” pop-up:   * “Choose Photo”: button * “Auto Detect Bad Quality Image”: checkbox * “Remove Selected Photos”: link * “Finish”: button * “Cancel”: button | | 11 | Click “Choose Photos” | Show Open File dialog | | 12 | Choose image files from local computer then click Open | Photos are listed below. | | 13 | Check the checkbox at the right bottom of photo and click “Remove Selected Photos” in pop-up | Checked Photos are removed. | | 14 | Click “Finish” button  [Alternative Scenario 2] | Show upload process percentage until complete.  Show OK button. | | 15 | Click “Ok” button | All photos in pop-up are uploaded and listed in Create Album screen. | | 16 | Check the checkbox at the right bottom of photo and click “Remove Selected Photos” in “Create Album” Screen | Chosen photos are removed. | | 17 | Click on photo | Show “Description” textbox. | | 18 | Type in “Description” textbox | Photo description is saved. | | 19 | Type in “Title” textbox and “Description” text-area then click “Create” button | Album is created and show Album Detail Screen | | | | | | |
| **Alternative Scenario 1**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Close pop-up. No story is added into Story textbox. |   **Alternative Scenario 2** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Close pop-up. No photos are uploaded. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * Title and Description must not be empty. * If story field is not null, album after creating will belong to that story. * If list of families user want to share album is not empty, album will be shared to families in list after it is created. * When an album is shared to a family, a notification is created and the system sends it (asynchronous) to all members of the family. * If list of hashtag is not empty, they will be added (if new) into database and album contains that list. * Photos are uploaded and album contains list of photos. | | | | |  |

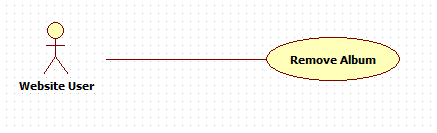
* 1. **<Website User> Edit Album**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE EDIT ALBUM SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Edit Album | | | | |
| Author | To Dinh Tan | | | | |
| Date | 30/09/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about edit an album. | | | | |
| **Goal** | Album is edited successfully. | | | | |
| **Triggers** | * Website user is viewing album detail * Website user clicks arrow symbol link at the right of Album Title. * Website user clicks “Edit” link. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: The album is updated, show album detail page * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Edit” link | “Edit Album” screen show:   * Title: textbox * Description: text-area * “Add Photos”: button * Remove Selected Photos: link * List of photos * “Save”: button | | 2 | Click “Add Photos” button | Show “Upload Photos” pop-up:   * “Choose Photo”: button * “Auto Detect Bad Quality Image”: checkbox * “Remove Selected Photos”: link * “Finish”: button * “Cancel”: button | | 3 | Click “Choose Photos” | Show Open File dialog | | 4 | Choose image files from local computer then click Open | Photos are listed below. | | 5 | Check the checkbox at the right bottom of photo and click “Remove Selected Photos” in pop-up | Checked Photos are removed. | | 6 | Click “Finish” button  [Alternative Scenario 1] | Show upload process percentage until complete.  Show OK button. | | 7 | Click “Ok” button | All photos in pop-up are uploaded and add to list photos of album in Edit Album screen. | | 8 | Check the checkbox at the right bottom of photo and click “Remove Selected Photos” in “Create Album” Screen | Checked photos are removed. | | 9 | Type in “Title” textbox and “Description” text-area then click “Save” button | Album is edited and show Album Detail Screen | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Close pop-up. No photos are uploaded. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * User must be owner of album. * Title and Description must not be empty. * Photos are uploaded and added to album. * If photos are removed from Album, they will not be removed from database. The relationship between photos and album is removed, photos are still in user profile. | | | | |  |

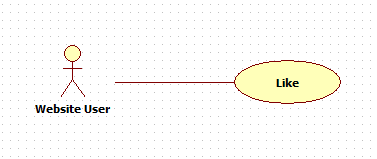
* 1. **<Website User> Remove Album**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE REMOVE ALBUM SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Remove Album | | | | |
| Author | To Dinh Tan | | | | |
| Date | 30/09/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about remove an album. | | | | |
| **Goal** | Album is removed successfully. | | | | |
| **Triggers** | * Website user is viewing album detail * Website user clicks arrow symbol link at the right of Album Title. * Website user clicks “Remove this album” link. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: The album is removed, show homepage * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Remove this album” link | Show “Remove Album” pop-up:   * “Remove album will not effect its photos. Are you sure to remove this album? Restore removed albums is not supported yet.”: text * “Yes”: button * “No”: button | | 2 | Click “Yes” button  [Alternative Scenario 1] | Show success message and “Ok” button. | | 3 | Click “Ok” button | Go to Homepage screen. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “No” button | Close pop-up. Album will not be removed. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * User must be owner of album. * If album is removed successful:   + The relationship between album and stories that contains that album is removed.  + The relationship between photos and album is removed, but photos are still in user profile.  + All likes and comments of users on album are removed.  + All shared posts from album are removed.  + The relationship between keywords (used in recommendation system) and album is removed.  + The reports of album are removed. | | | | |  |

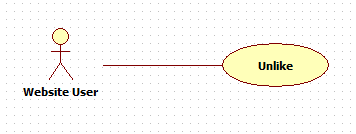
* 1. **<Website User> Like**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE LIKE SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Like | | | | |
| Author | To Dinh Tan | | | | |
| Date | 30/09/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about like story, album, photo, or shared post. | | | | |
| **Goal** | Story/album/photo/shared-post is liked. | | | | |
| **Triggers** | * Website user is viewing story/album/photo detail or user is viewing homepage of a family. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: Story/Album/Photo/Shared-post is liked, and number of likes increase. * Fail: Number of likes unchanged. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Like” link below story/album/photo/shared-post description. | Number of likes increase. Show “Unlike” link, hide “Like” link. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * New record of like is added into database. * If current user is not owner of liked post (story/album/photo/shared-post), a notification is created and sent to owner of the post. | | | | |  |

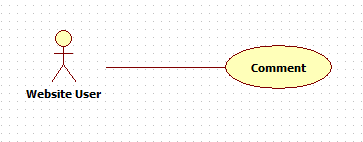
* 1. **<Website User> Unlike**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE UNLIKE SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Unlike | | | | |
| Author | To Dinh Tan | | | | |
| Date | 30/09/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about unlike story, album, photo, or shared post. | | | | |
| **Goal** | Story/album/photo/shared-post is unliked. | | | | |
| **Triggers** | * Website user is viewing story/album/photo detail or user is viewing homepage of a family. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: Story/Album/Photo/Shared-post is unliked, and number of likes decrease. * Fail: Number of likes unchanged. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Unlike” link below story/album/photo/shared-post description. | Number of likes increase. Show “Like” link, hide “Unlike” link. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * A record of like is removed from database. | | | | |  |

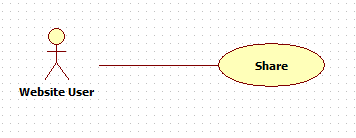
* 1. **<Website User> Comment**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE COMMENT SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Comment | | | | |
| Author | To Dinh Tan | | | | |
| Date | 30/09/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about comment on story, album, or photo. | | | | |
| **Goal** | Story/album/photo/shared-post is unliked. | | | | |
| **Triggers** | * Website user is viewing story/album/photo detail. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: A comment is added to story/album/photo, and shown above Comment textbox * Fail: No comment is added. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Type in Comment textbox and press “Enter” | New comment is shown above Comment textbox. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * A record of comment is added into database. * If current user is not owner of commented post (story/album/photo), notifications are created and sent to owner of the post and users (except current user) who commented before. | | | | |  |

* 1. **<Website User> Share**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE SHARE SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Share | | | | |
| Author | To Dinh Tan | | | | |
| Date | 30/09/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about share a(n) story, or album. | | | | |
| **Goal** | Story/album is shared to a family. | | | | |
| **Triggers** | * Website user is viewing story/album detail. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: Story/Album is shared to family. * Fail: No Post is shared. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | * Click “Share” link below story description in Story Detail Screen * Click “Share” link below list photos of album in Album Detail Screen | Show “Share” pop-up:   * “Choose family” drop-down list. * “Description”: text-area * “Share”: button * “Cancel”: button | | 2 | Choose a family in drop-down list, type in text-area then click “Share”.  [Alternative Scenario 1] | Show success message and close pop-up. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Close pop-up. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * When user shared Story/Album successfully, new record of sharing is added to database and notifications are created. * Members (except current user) of shared family got notifications from system. | | | | |  |

* 1. **<Website User> View photo.**
     1. Use case diagram



* + 1. Use case description

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE VIEW PHOTO SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | View Photo | | | | |
| Author | To Dinh Tan | | | | |
| Date | 2/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about view photo. | | | | |
| **Goal** | User can view a photo. | | | | |
| **Triggers** | * Website user clicks on photo while viewing album detail. * Website user clicks on photo while viewing All Photos of an user. | | | | |
| **Preconditions** | User login success. | | | | |
| **Post Conditions** | * Success: Show photo detail. * Fail: No photo is shown. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | * Click on photo in Album Detail Screen. * Click on photo in tab All Photos of an user | Show Photo Detail pop-up with:  + Image  + Description: text  + Add Description: link (if photo have not description)  + Edit Description: link (if photo have description)  + I don’t like this photo: link (if current user is not owner of this photo)  + Like: link  + Comment: input text. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * Photo detail is taken from database. | | | | |  |
|  | | | | | |

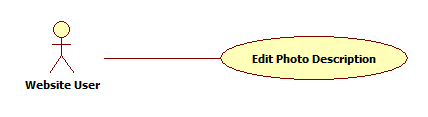
* 1. **<Website User> Add photo description**
     1. Use case diagram



* + 1. Use case description

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE ADD PHOTO DESCRIPTION SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Add Photo Description | | | | |
| Author | To Dinh Tan | | | | |
| Date | 2/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about add photo description. | | | | |
| **Goal** | User can add description into their photo. | | | | |
| **Triggers** | * Website user click on “Add Description” while viewing photo. | | | | |
| **Preconditions** | User login success and viewing photo. | | | | |
| **Post Conditions** | * Success: New description is added into photo. * Fail: No description is added. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Add Description” link | Show “Description” text-area and “Save” button | | 2 | Type in “Description” text-area and click “Save” | Description is added and show in view photo pop-up. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If description is added successful, photo will be updated in database. | | | | |  |
|  | | | | | |

* 1. **<Website User> Edit photo description**
     1. Use case diagram



* + 1. Use case description

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE EDIT PHOTO DESCRIPTION SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Edit photo description | | | | |
| Author | To Dinh Tan | | | | |
| Date | 2/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about edit photo description. | | | | |
| **Goal** | User can edit their photo description. | | | | |
| **Triggers** | * Website User clicks on Arrow symbol link beside photo description while viewing photo and choose “Edit Description” link from list. | | | | |
| **Preconditions** | User login success and viewing photo. | | | | |
| **Post Conditions** | * Success: Photo description is updated. * Fail: Nothing is changed. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Edit Description” link | Show text-area input above photo description for user to edit. Text-area input contain the current description. Show “Save” button. | | 2 | Edit photo description in text-area input and click “Save” | Show new description in view photo pop-up. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules** | | | | |  |
| * If description is edited successful, photo will be updated in database. | | | | | |

* 1. **<Website User> View story**
     1. Use case diagram



* + 1. Use case description

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE VIEW STORY SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 0.1 | |
| Use-case Name | View Story | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 1/10/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about view a story. | | | | |
| **Goal** | To view a story detail. | | | | |
| **Triggers** | * Website user clicks on the name of story in navigation bar. * Website user clicks on the name of story while viewing all stories of an user. * Website user clicks on the name of story while viewing family homepage. | | | | |
| **Preconditions** | User login success. | | | | |
| **Post Conditions** | * Success: Show Story Detail page. * Fail: Show “Content Not Found” page. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on the name of story | Show Story Detail page with:  + Story Title: text  + Family Name: link  + “Edit Title”: link (if current user is owner of story)  + “Edit Description”: link (if current user is owner of story)  + “Add Album”: link (if current user is owner of story)  + “Edit Album”: link (if current user is owner of story)  + “Remove Story”: link (if current user is owner of story)  + “I don’t like this story”: link (if current user is not owner of story)  + Name of story owner: link  + List of neighbors are tagged in story: link  + Story Description: text  + “Share”: link  + “Like”: link  + Number of likes: number  + List of albums (Title, Date Created, Description, “Like” link, photos of album)  + List of hashtags: text  + List of comments: text  + Comment: textbox | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If story exists in database, it will be shown in Story Detail page with:   + All albums of story.  + Number of likes on story.  + All comments about story.  + All families are tagged in story  + All hashtags of story   * If story does not exist in database, Not Found page is shown. | | | | |  |

* 1. **<Website User> Create Story**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE CREATE STORY SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Create Story | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about create an story. | | | | |
| **Goal** | New story is created successfully. | | | | |
| **Triggers** | * Website user clicks on “Create Story” link on top-bar menu. * Website user clicks on “Create New Story” while viewing all stories of an user. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: New story is created, show story detail page * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Create Story” or “Create New Story” link | “Create Story” screen show:   * Family: read-only textbox * “Change Family”: button * Name: textbox * Share with: drop-down list * Tag your neighbors: textbox (show when choose option “Some Neighbors” in Share with drop-down list) * Description: text-area * Hashtags: textbox * “Add”: button * “Add New Album(s)”: link * “+Add Albums”: button * “Create Story”: button | | 2 | Click “Change Family” button. | Show “Choose a family” pop-up:   * List of families * “Cancel”: button | | 3 | Click on the name of a family  [Alternative Scenario 1] | Name of chosen family is filled in Family textbox | | 4 | Choose “Some Neighbors” option in drop-down list “Share with” | Show “Tag your neighbors” label and textbox. | | 5 | Type keyword in textbox | Show list of neighbors of current user that their names contain keyword. | | 6 | Choose one neighbor from list | Name of chosen neighbor is filled into textbox | | 7 | Type keyword in Hashtags textbox then click “Add” button | New read-only textbox with value keyword is added below. | | 8 | Click “Add New Album(s)” link or “+Add Albums” button | Show “Add Albums” pop-up:   * “Create New Album”: button * List of Albums * “Ok”: button * “Cancel”: button | | 9 | Click on checkbox at the bottom right of album and click “Ok”  [Alternative Scenario 1] | Chosen albums are added into creating story. Show “Remove Selected Albums” | | 10 | Click on checkbox at the bottom right of album and click “Remove Selected Albums” link | Chosen albums are removed from creating story. | | 11 | Fill Name textbox and Description text-area then click Create Story | New Story is added and show Story Detail Page. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Create New Album” button | Close pop-up. Go to Create Album Page. |   Reference to Use Case “Create Album” | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * Family textbox must not be empty. * Title and Description must not be empty. * If family textbox is not null, story after creating will belong to that family. * If “Share with” value is “Public”, every user can see this story. * If “Share with” value is “My Family Only”, just members in family can see this story. * If list of families user want to tag is not empty, they will be tagged in story and received notification from system. * If list of hashtag is not empty, they will be added (if new) into database and story contains that list. * If list of albums is not empty, the relationship between story and albums is created. Story will contain those albums. | | | | |  |

* 1. **<Website User> Edit Story Title**
     1. Use Case Diagram

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* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE EDIT STORY TITLE SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Edit Story Title | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about edit story title. | | | | |
| **Goal** | Story title is updated successfully. | | | | |
| **Triggers** | * Website user clicks on “Edit” link on the right of story title while viewing story detail. Then click “Edit Title” from the list options. | | | | |
| **Preconditions** | User login successful and viewing story detail. | | | | |
| **Post Conditions** | * Success: Story title is updated. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Edit Title” link | Show “Edit Story Title” pop-up:   * New Title: label. * Textbox with current title value. * “Ok”: button * “Cancel”: button | | 2 | Edit textbox and click “Ok”  [Alternative Scenario 1] | Close pop-up. Story title is updated. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Close pop-up. Story title unchanged. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If edit successful, story is updated in database with new title. | | | | |  |

* 1. **<Website User> Edit Story Description**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE EDIT STORY DESCRIPTION SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Edit Story Description | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about edit story description. | | | | |
| **Goal** | Story description is updated successfully. | | | | |
| **Triggers** | * Website user clicks on “Edit” link on the right of story title while viewing story detail. Then click “Edit Description” from the list options. | | | | |
| **Preconditions** | User login successful and viewing story detail. | | | | |
| **Post Conditions** | * Success: Story description is updated. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Edit Description” link | Show “Edit Story Description” pop-up:   * New Description: label. * Text-area with current description value. * “Ok”: button * “Cancel”: button | | 2 | Edit text-area and click “Ok”  [Alternative Scenario 1] | Close pop-up. Story description is updated. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Close pop-up. Story description unchanged. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If edit successful, story is updated in database with new description. | | | | |  |

* 1. **<Website User> Add Album to story**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE ADD ALBUM TO STORY SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Add album to story | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about adding albums to story. | | | | |
| **Goal** | Albums are added into story successfully. | | | | |
| **Triggers** | * Website user clicks on “Edit” link on the right of story title while viewing story detail. Then click “Add Album” from the list options. | | | | |
| **Preconditions** | User login successful and viewing story detail. | | | | |
| **Post Conditions** | * Success: Albums are added into story. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Add Album” link | Show “Add Albums” pop-up:   * List of albums of current user. * “Ok”: button * “Cancel”: button | | 2 | Click checkbox at the bottom right of album and click “Ok” button  [Alternative Scenario 1] | Close pop-up. Chosen albums are added into story and show in story detail page. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Close pop-up. No album is added. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If albums are added successful, the relationship between story and those albums are created in database. | | | | |  |

* 1. **<Website User> Remove album from story**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE REMOVE ALBUM FROM STORY SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Remove album from story | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about remove albums from story. | | | | |
| **Goal** | Albums are removed from story successfully. | | | | |
| **Triggers** | * Website user clicks on “Edit” link on the right of story title while viewing story detail. Then click “Edit Album” from the list options. | | | | |
| **Preconditions** | User login successful and viewing story detail. | | | | |
| **Post Conditions** | * Success: Albums are removed from story. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Edit Album” link | Show:   * “Save Edit”: button * “Cancel”: button * “Remove this album”: link * “Down arrow”: button * “Up arrow”: button | | 2 | Click “Remove this album” beside each album. | Album is removed temporary from story. | | 3 | Click “Save Edit” button  [Alternative Scenario 1] | Album is removed completely from story. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Recovery removed albums. No album is removed. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If albums are removed successful, the relationships between story and those albums are removed from database. | | | | |  |

* 1. **<Website User> Edit album index**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE EDIT ALBUM INDEX SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Edit album index | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about edit the order of albums in story. | | | | |
| **Goal** | Change order of albums successful. | | | | |
| **Triggers** | * Website user clicks on “Edit” link on the right of story title while viewing story detail. Then click “Edit Album” from the list options. | | | | |
| **Preconditions** | User login successful and viewing story detail. | | | | |
| **Post Conditions** | * Success: Albums are reordered. * Fail: Albums index unchanged. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Edit Album” link | Show:   * “Save Edit”: button * “Cancel”: button * “Remove this album”: link * “Down arrow”: button * “Up arrow”: button | | 2 | Click “Down arrow” beside each album. | Album is moved down temporary. Album index decreased 1. | | 3 | Click “Up arrow” beside each album. | Album is moved up temporary. Album index increased 1. | | 3 | Click “Save Edit” button  [Alternative Scenario 1] | Order of albums is changed completely. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Recovery the order of albums. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If the order of albums is changed successful, the relationship between story and albums are updated in database. | | | | |  |

* 1. **<Website User> Remove Story**
     1. Use Case Diagram

****

* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE REMOVE STORY SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Remove Story | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 03/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about remove a story. | | | | |
| **Goal** | Story is removed successfully. | | | | |
| **Triggers** | * Website user is viewing story detail * Website user clicks “Edit” link at the right of Story Title. * Website user clicks “Remove Story” link. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: The story is removed, show homepage * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Remove Story” link | Show “Remove Story” pop-up:   * “Remove story will not effect its albums. Are you sure to remove this story? Restore removed story is not supported yet.”: text. * “Yes”: button * “No”: button | | 2 | Click “Yes” button  [Alternative Scenario 1] | Show success message and “Ok” button. | | 3 | Click “Ok” button | Go to Homepage screen. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “No” button | Close pop-up. Story will not be removed. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * User must be owner of story. * If story is removed successful:   + The relationship between story and its albums is removed. Those albums are still in user profile.  + All likes and comments of users on story are removed.  + All shared posts from story are removed.  + The relationship between keywords (used in recommendation system) and story is removed.  + The reports of story are removed. | | | | |  |

* 1. **<Website User> Create Family**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE CREATE FAMILY SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Create Family | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about create a family. | | | | |
| **Goal** | New family is created successful. | | | | |
| **Triggers** | * Website user clicks on “Families” tab in navigation bar then clicks on “Create New Family” button. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: New family is created. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Create New Family” button | Show Create New Family screen:   * Family Name: label * “Name”: Textbox * Description: label * “Description”: Text-area * “Create”: button | | 2 | Fill “Name” textbox and “Description” text-area then click “Create” | Family is created and show family homepage. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If family is created successful, the relationship between that family and user who created it is created in database with role is owner. | | | | |  |

* 1. **<Website User> Leave Family**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE LEAVE FAMILY SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Leave Family | | | | |
| Author | Huynh Tran Minh Nhut | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about leaving a family. | | | | |
| **Goal** | User left family successful. | | | | |
| **Triggers** | * Website user clicks on “Arrow” button in family homepage then clicks on “Leave this family” link. | | | | |
| **Preconditions** | User login successful and user is a member of family. | | | | |
| **Post Conditions** | * Success: User left family. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Leave this family” link | Family is removed from list families of user. Go to All Families Page. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If user is member of family, the relationship between family and user is removed from database. * If user is owner of family:   + If number of members is larger than two, the relationship between family and user is removed from database and the second member who joined in family after the owner is set to be owner of family.  + If family has one member, the relationship between family and user is removed from database and the family has no member. | | | | |  |

* 1. **<Website User> Follow Family**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE FOLLOW FAMILY SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Follow Family | | | | |
| Author | To Dinh Tan | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about following a family. | | | | |
| **Goal** | User follows family successful. | | | | |
| **Triggers** | * Website user clicks on “Follow” button in family homepage. | | | | |
| **Preconditions** | User login successful and user is not a member of family. | | | | |
| **Post Conditions** | * Success: User followed family. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Follow” button | Family is added to list follow families of current user. Button “Follow” changes to “Unfollow” | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If user follows a family successful, the relationship between family and user is created in database and user can see activities of that family in user homepage. | | | | |  |

* 1. **<Website User> Unfollow Family**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE UNFOLLOW FAMILY SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Unfollow Family | | | | |
| Author | To Dinh Tan | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about unfollow a family. | | | | |
| **Goal** | User unfollows family successful. | | | | |
| **Triggers** | * Website user clicks on “Unfollow” button in family homepage. | | | | |
| **Preconditions** | User login successful and user followed family. | | | | |
| **Post Conditions** | * Success: User unfollowed family. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Unfollow” button | Family is removed from list follow families of current user. Button “Unfollow” changes to “Follow” | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If user unfollows a family successful, the relationship between family and user is removed from database and user cannot see activities of that family in user homepage. | | | | |  |

* 1. **<Website User> Invite family member**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE INVITE FAMILY MEMBER SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Invite family member | | | | |
| Author | To Dinh Tan | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about invite users to join family. | | | | |
| **Goal** | Users are invited to family successful. | | | | |
| **Triggers** | * Website user clicks on “Invite someone” button in family homepage. | | | | |
| **Preconditions** | User login successful and user is member of family. | | | | |
| **Post Conditions** | * Success: Users are invited to family. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Invite someone” button | Show “Invite someone to family” pop-up:   * Someone to invite: label. * “Search”: textbox. * “Search”: button. * “Send invite”: button * “Cancel”: button | | 2 | Type keyword in textbox and click “Search” | List of users which have name contains keyword are displayed. | | 3 | Click on name of a user | Show:   * Invite: label. * List of Name of user: text * “Add Someone Else”: button * Message: label * “Message”: textbox | | 4 | Click “Add Someone Else” | Show:   * Someone to invite: label. * “Search”: textbox. * “Search”: button. | | 5 | Repeat step 2 and 3 | Name of user adds to list. | | 6 | Fill in Message textbox and click “Send Invite”  [Alternative Scenario 1] | Show “Invite” pop-up:   * <Name of users> invited: text. * “Ok”: button | | 7 | Click “Ok” button | Close pop-up. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Close pop-up. No invite sent. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If users are in family already, no invitation sent. * If users are not in family, invitations are added into database and system notify to users. | | | | |  |

* 1. **<Website User> Accept invitation to family.**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE ACCEPT INVITATION TO FAMILY SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Accept Invitation to family | | | | |
| Author | To Dinh Tan | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Website User | | | | |
| **Summary** | This use case is about accepting invitation to join family. | | | | |
| **Goal** | User joined in family successful. | | | | |
| **Triggers** | * Website user clicks on Number on top-bar menu then clicks “You’ve got an invitation from <name of user>” link. | | | | |
| **Preconditions** | User login successful. | | | | |
| **Post Conditions** | * Success: User joined family. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “You’ve got an invitation from <name of user>” link. | Show “Invitation” pop-up:   * Text: “<name of user> has invited you to his <name of family> family.” * Text: “From <name of user>: <message>” * “Join”: button * “Ignore”: button | | 2 | Click “Join” button  [Alternative Scenario 1] | Show “New Member” pop-up:   * Text: “You are now member of <name of family> family. Welcome!” * “Ok”: button. | | 3 | Click “Ok” button | Close pop-up. Go to family homepage. A notification is sent to inviter. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Ignore” button | Close pop-up. User did not join family. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If user accepts invitation, the relationship between family and user is created and role of user is member. A notification is created and sent to inviter. | | | | |  |

* 1. **<Family Owner> Request neighbor.**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE REQUEST NEIGHBOR SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Request neighbor | | | | |
| Author | To Dinh Tan | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Family Owner | | | | |
| **Summary** | This use case is about send request neighbor to a family. | | | | |
| **Goal** | Request neighbor is sent to a family successful. | | | | |
| **Triggers** | * Website user clicks “Invite other family” button in family homepage. | | | | |
| **Preconditions** | User login successful and user is owner of family. | | | | |
| **Post Conditions** | * Success: Request neighbor is sent to a family. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Invite other family” button | Show “Neighbor Request” pop-up:   * Family name to invite: label * “Search”: textbox * “Search”: button * “Send Invite”: button * “Cancel”: button | | 2 | Type keyword in textbox then click “Search” | Show list of families have the name contains keyword. | | 3 | Click on the name of a family from the list | Show:   * Send Request To: label. * <name of family>: text. * Message: label. * “Message”: textbox | | 4 | Click “Send Invite” button  [Alternative Scenario 1] | Show:   * “Neighbor request to test was already sent.”: text * “Ok”: button   An Request Neighbor sent to family owner. | | 5 | Click “Ok” button | Close pop-up. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Cancel” button | Close pop-up. No request sent. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If family owner sent a request neighbor to a family, request is created in database. A notification is created correspond and sent to owner of family. | | | | |  |

* 1. **<Family Owner> Accept neighbor request.**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE ACCEPT NEIGHBOR REQUEST SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Accept neighbor request | | | | |
| Author | To Dinh Tan | | | | |
| Date | 02/12/2014 | Priority | Normal | | |
| **Actor** | Family Owner | | | | |
| **Summary** | This use case is about accepting request neighbor from a family. | | | | |
| **Goal** | User’s family became neighbor of the family. | | | | |
| **Triggers** | * Website user clicks on Number on top-bar menu then clicks “<name of family> family has just request to be neighbor of your <name of user’s family> family” link. | | | | |
| **Preconditions** | User login successful and user is owner of family. | | | | |
| **Post Conditions** | * Success: User’s family is neighbor of the family. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “<name of family> family has just request to be neighbor of your <name of user’s family> family” link | Show “Neighbor Request” pop-up:   * “<name of family owner> from <name of requested family> family has just requested to be neighbor of your family. From <name of family owner>: <message>”: text * “Accept”: button * “Ignore”: button | | 2 | Click “Accept” button  [Alternative Scenario 1] | Show:   * “You are now neighbor with <name of requested family> family”: text * “Ok”: button   Number of neighbors of family increase 1.  Notifications are sent to requested family members. | | 3 | Click “Ok” button | Close pop-up. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Ignore” button | Close pop-up. Request is ignored. | | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If family owner accept a request neighbor from a family, the relationship neighbor between two families is created. Notifications are created and sent to requested family members. | | | | |  |

* 1. **<Administrator> View List of Users.**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE VIEW LIST OF USERS SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | View list of users | | | | |
| Author | To Dinh Tan | | | | |
| Date | 04/12/2014 | Priority | Normal | | |
| **Actor** | Administrator | | | | |
| **Summary** | This use case is about viewing list of users of the system. | | | | |
| **Goal** | Admin can view all of users. | | | | |
| **Triggers** | * Admin click on tab “User” on the left in Admin Dashboard. | | | | |
| **Preconditions** | User login successful as an admin. | | | | |
| **Post Conditions** | * Success: Show list of users. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on tab “User” | Show Users management page:   * Table:   + No., Username, Name, Date Join, Status, Action (Ban/Unban) | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * Get all users in database except admin account. | | | | |  |

* 1. **<Administrator> Search User.**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE SEARCH USER SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Search User | | | | |
| Author | To Dinh Tan | | | | |
| Date | 04/12/2014 | Priority | Normal | | |
| **Actor** | Administrator | | | | |
| **Summary** | This use case is about searching users in system. | | | | |
| **Goal** | Admin can search users by name. | | | | |
| **Triggers** | * Admin click on tab “User” on the left in Admin Dashboard. * Fill in textbox search and click “Search” | | | | |
| **Preconditions** | User login successful as an admin. | | | | |
| **Post Conditions** | * Success: Show all matched users. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Type keyword in textbox then click “Search” button | Show Table with list of users which have the name contain keyword. | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * Get all users have the name contain search keyword in database. | | | | |  |

* 1. **<Administrator> Search User.**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE BAN USER SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Ban User | | | | |
| Author | To Dinh Tan | | | | |
| Date | 04/12/2014 | Priority | Normal | | |
| **Actor** | Administrator | | | | |
| **Summary** | This use case is about banning an user in system. | | | | |
| **Goal** | Admin can ban an user. | | | | |
| **Triggers** | * Admin click on tab “User” on the left in Admin Dashboard. * Click “Ban” link in column “Action”. | | | | |
| **Preconditions** | User login successful as an admin. | | | | |
| **Post Conditions** | * Success: User is banned. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Ban” link | “Ban” change to “Unban” link | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * If user is banned, status of that user in database is changed to “banned”. | | | | |  |

* 1. **<Administrator> View Report.**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE VIEW REPORT SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | View Report | | | | |
| Author | To Dinh Tan | | | | |
| Date | 04/12/2014 | Priority | Normal | | |
| **Actor** | Administrator | | | | |
| **Summary** | This use case is about viewing all reports from users. | | | | |
| **Goal** | Admin can view all reports from users. | | | | |
| **Triggers** | * Admin click on tab “Reports” on the left in Admin Dashboard. | | | | |
| **Preconditions** | User login successful as an admin. | | | | |
| **Post Conditions** | * Success: Show list of reports. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on tab “Reports”. | Show 2 table “Newest Report” and “Posts with most reports”:   * “Newest Reports”: No., Message, Post Type, Post Title, From (username), Date * “Posts with most reports”: No, Type, Title, Created By (username), Reports (number of reports about that post) | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * Get all reports from database and sort by time and number of reports about a post. | | | | |  |

* 1. **<Administrator> Set Time of Recommend Service.**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE SET TIME OF RECOMMEND SERVICE SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Set Time of Recommend Service | | | | |
| Author | To Dinh Tan | | | | |
| Date | 04/12/2014 | Priority | Normal | | |
| **Actor** | Administrator | | | | |
| **Summary** | This use case is about setting time of recommend service. | | | | |
| **Goal** | Admin can change time of recommend service. | | | | |
| **Triggers** | * Admin click on tab “Recommend Service” on the left in Admin Dashboard. * Choose Hour, Minute, Second and click “Save” button | | | | |
| **Preconditions** | User login successful as an admin. | | | | |
| **Post Conditions** | * Success: Time is changed. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Choose Hour, Minute, Second then click “Save” button | Show success message: “Recommend System Configuration Saved.” | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * Time of recommend service is changed. * Recommend Service run on established time. | | | | |  |

* 1. **<Administrator> Run Recommend Service.**
     1. Use Case Diagram



* + 1. Use Case Specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USE CASE RUN RECOMMEND SERVICE SPECIFICATION | | | | | |
| Use-case No. |  | Use-case Version | | 1.0 | |
| Use-case Name | Run Recommend Service | | | | |
| Author | To Dinh Tan | | | | |
| Date | 04/12/2014 | Priority | Normal | | |
| **Actor** | Administrator | | | | |
| **Summary** | This use case is about running recommend service. | | | | |
| **Goal** | Admin can run recommend service immediately. | | | | |
| **Triggers** | * Admin click on tab “Recommend Service” on the left in Admin Dashboard. * Admin click “Do Recommend Now” button. | | | | |
| **Preconditions** | User login successful as an admin. | | | | |
| **Post Conditions** | * Success: Recommend Service is run. * Fail: Show error message. | | | | |
| **Main Success Scenario** | | | | | |
| |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Do Recommend Now” button | Show success message: “Action sent.” | | | | | | |
| **Alternative Scenario 1** | | | | | |
| N/A | | | | | |
| **Exceptions** |  | | | | |
| |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User Session Time Out | Go to login page. | | | | | | |
| **Relationships**  N/A | | | | |  |
| **Business Rules**   * Recommend Service is run immediately. * System detects and suggests posts to users. All posts and users are saved in database. | | | | |  |

### SOFTWARE SYSTEM ATTRIBUTES

#### Reliability

When user needs to log in to the website over a given period of time for using some specified services, the system should deliver those services as user’s expectation. The system must be prevented from producing unexpected situation or incorrect output. Based on the situation and users’ operation, reliability requirement can be different. However, in general, system must ensure the followings:

* Certain system functions are visible for only appreciate user, e.g. only administrator can manage users, only family owner can change background image of family.
* Give appropriate response to user operation, e.g. moving from screen to screen.
* In case of failure, system will show error message instead crash.

#### Availability

The system has to run 24/7 that means when any request at any given time is coming, the system should be available and able to respond. Therefore, to guarantee availability level for the entire system, some factors are required:

* Recovery from system failure
* Restarting after system failure
* Backing up data after a specific period of time, e.g. once per day

#### Security

There is no specific security requirement. In general:

* Only user with valid account and appropriate role can access certain system functions.
* Prevent everyone, including system administrator, from knowing users’ passwords, except the owner.
* Keep specific log and history data.
* Check data integrity and validate input before execute recording into system.

#### Maintainability

When the system is deployed, there may be new or extra requirements. So that the system itself must be changeable that means development process must provide the ease to modify and extend. For the need to be easy to maintain, even though for new software team:

* Delivery product must have the software application packaged with all documented software requirements, software design, testing report and other material if any.
* For source code, all files and modules should have java doc and/or comment with short description and records of modification.
* In case of maintenance, a maintaining message should be shown to users when they enter to the website.

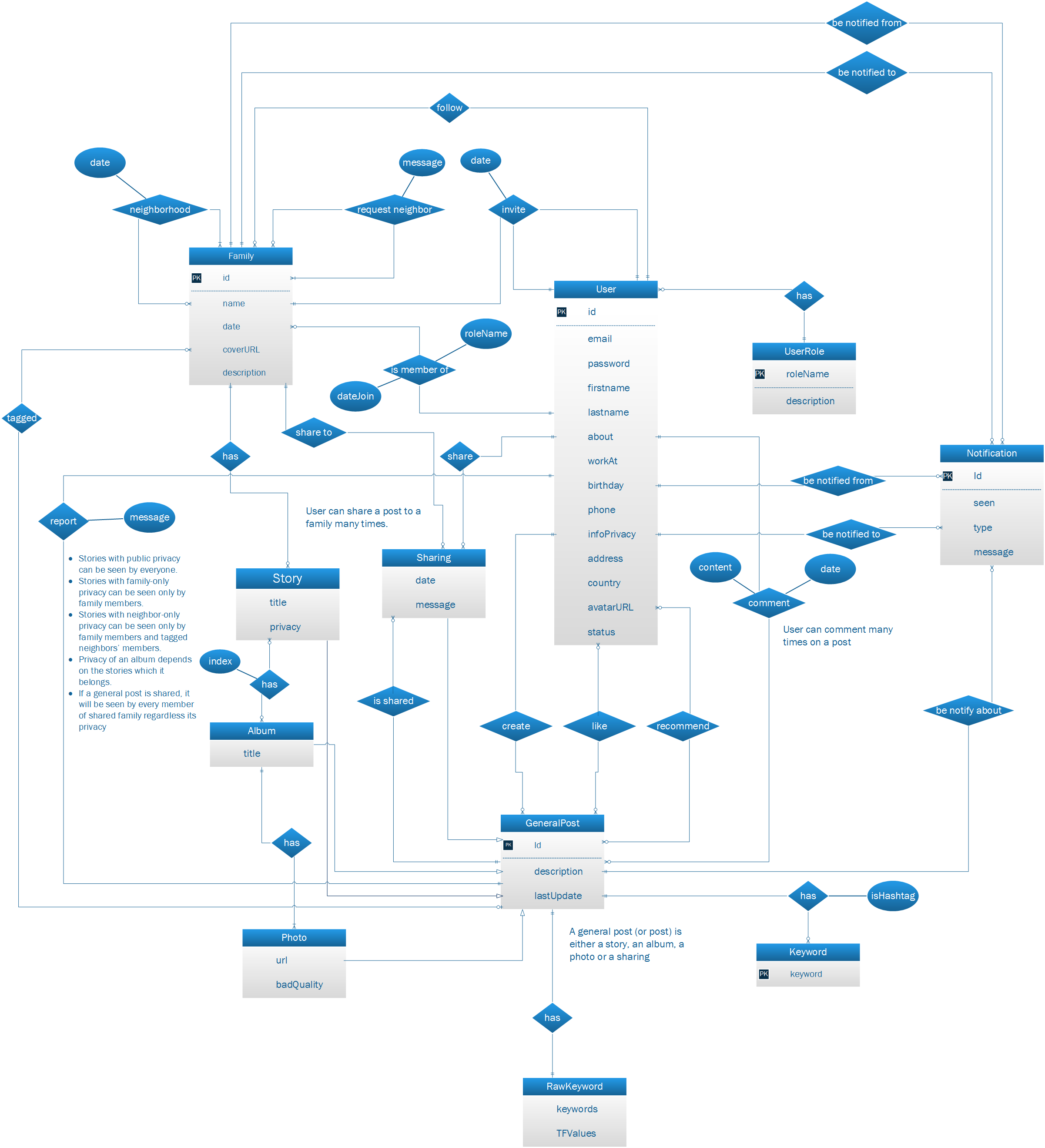
#### Portability

Any personal computer, which has an internet browser, is able to use this system. Therefore, the website must be developed and tested to make sure it can run smoothly with some popular web browsers, such as Internet Explorer, Mozilla Firefox and Google Chrome.

#### Performance

The system should use the memory and processor in most efficient way. Additionally, it should cost the least time interval for user to finish their operation. Hence, screen layout, color block, style sheet and all web controls should be well arranged and easy to use, in order to help users save their time when interacting with the system.

### ENTITY RELATIONSHIP DIAGRAM



# SOFTWARE DESIGN DESCRIPTION

## *DESIGN OVERVIEW*

The intention of this document is to specify the design of the FAMSAM system in detail to describe the system implementation. This document will contain information about the system architecture, detailed description of components, data structures, user interface design and so on. This is to give the reader, a better understanding of the design process and procedure for this application. This document is also used by the developers as a “template” in order to continue with the coding.

Overview of document:

* The first section describes the introduction of document.
* The second section describes the system architecture.
* ~~The third section gives the component diagrams that describe the connection and integration of the system.~~
* ~~The fourth section consists of detailed description of the modules or components of the system.~~
* ~~The fifth section brings out the sequence diagrams that describe the order of actions.~~
* ~~The sixth section provides the information of user interface design.~~
* ~~The seventh section gives the detailed database design~~.

## *SYSTEM ARCHITECTURAL DESIGN*

### CHOICE OF SYSTEM ARCHITECTURE

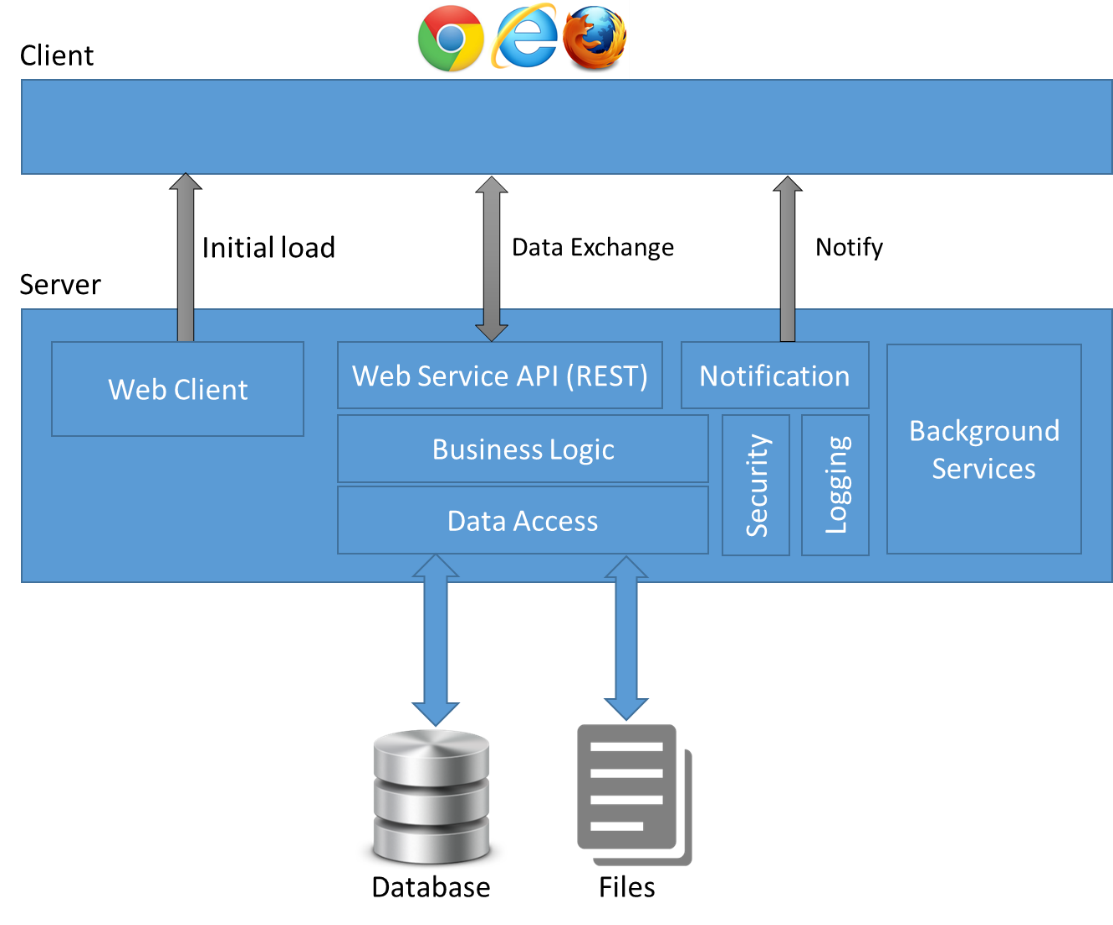


Figure 3. FAMSAM system architecture

* The aim of this architecture is to build single-page application.
* Client is presentation layer. It major responsible for UI rendering, client side routing, dynamic view, server data access. Client’s contents (presented in the diagram by Web Client) are first in server, once it initial loaded to client, no further browser refresh is needed, client-server transaction is data-only (using JSON). The Web Client is built on HTML5 with AngularJS framework.
* Server
  + Web Server API: to provide an API for data-exchange from client to server. This component is implemented using ASP.NET Web API 2.
  + Have function of notifying to client using SignalR.
  + Do the business logic.
  + Data gathering and accessing with database and files using Entity Framework 6.
  + Database using Microsoft SQL 2012.
* The background services contain services handled behind client-server transaction to improve system performance. They are window services run on Window Server.

### DISCUSSION OF ALTERNATIVE DESIGNS

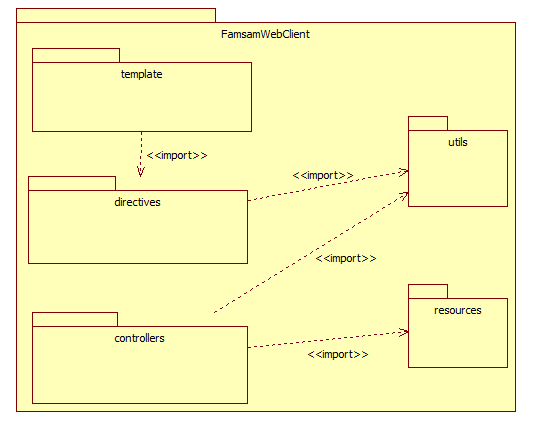
N/A

### DESCRIPTION OF SYSTEM INTERFACE

N/A

## *PACKAGE DIAGRAM*

### WEB CLIENT PACKAGE DIAGRAM



Package diagram for Web Client implementation

* “template”: HTML, CSS for states of views (a state of view contains three major properties: URL to access state, template and controller).
* “directives”: define custom HTML elements or attributes which make richer template view.
* “controllers”: contains controllers, to define code behind for each state of views.
* “resources”: contains all the elements by which controllers can communicate with server.
* “utils”: code of utilities.

### SERVER PACKAGE DIAGRAM

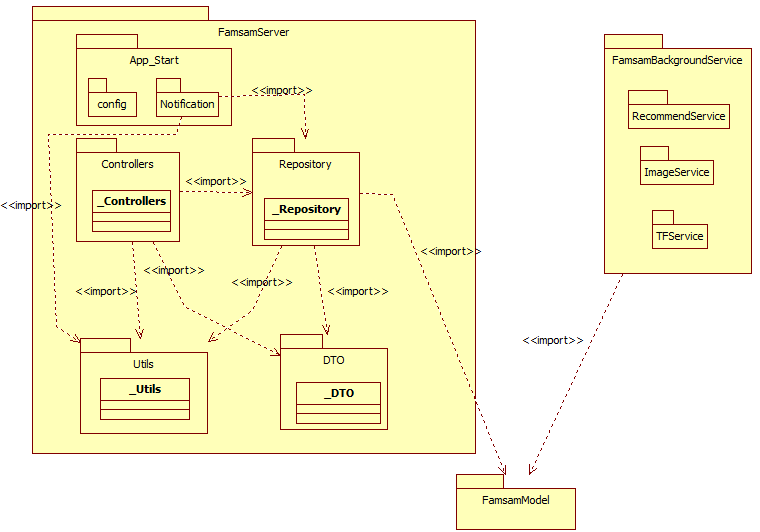
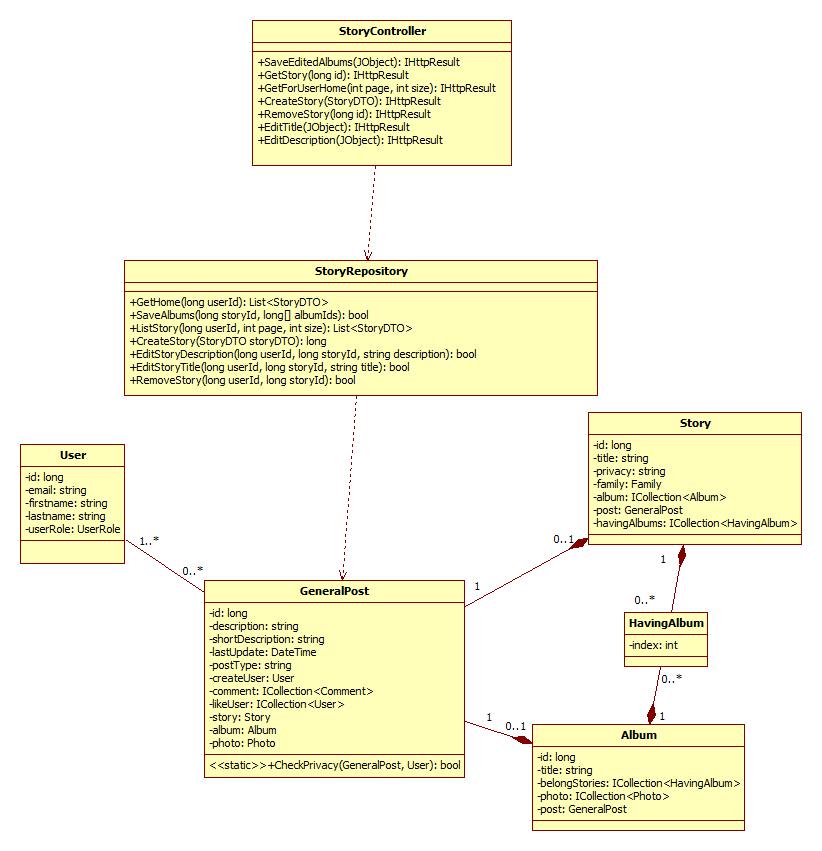


Figure 4 - Package diagram for FAMSAM Server and Background Services implementation

* FamsamServer:
  + App\_Start:
    - Server configurations.
    - Notification process.
  + Controllers: contains ApiControllers of .Net Web API.
  + Repository: has responsible for access to model and prepare DTOs using Entity Framework.
  + DTO: contains data transfer objects which are used for client-server data exchange.
  + Utils: code for utilities.
  + All classes in each sub-packages of FamsamServer have package name as suffix.
* FamsamBackgroudService: contains background services.
* FamsamModel: contains entities from Entity Framework Code-First.

## *CLASS DIAGRAM*

### MANAGE STORY CLASS DIAGRAM



Manage story class diagram

### MANAGE ALBUM CLASS DIAGRAM

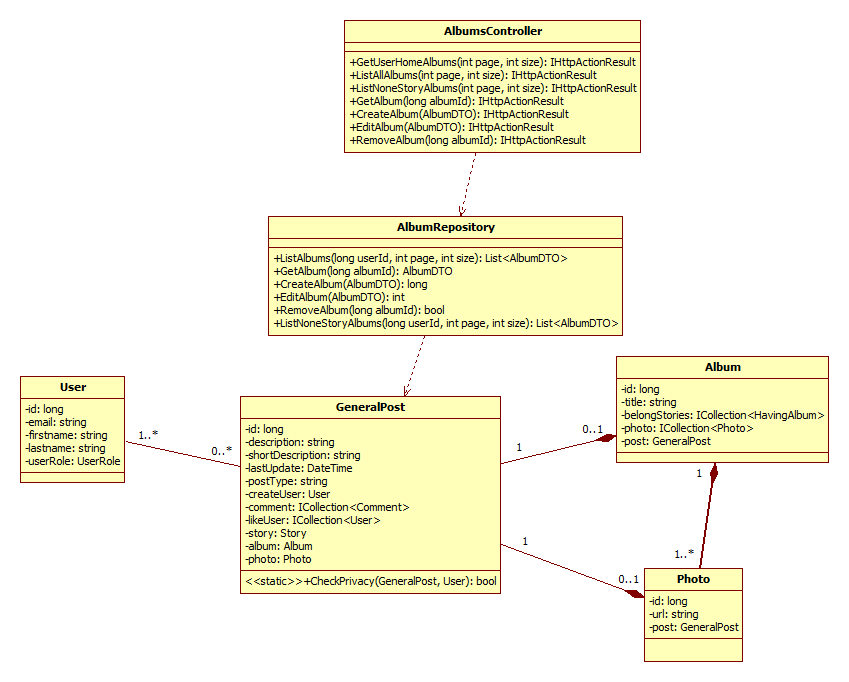


Figure 5 - Manage Album Class Diagram

### FAMILY CLASS DIAGRAM

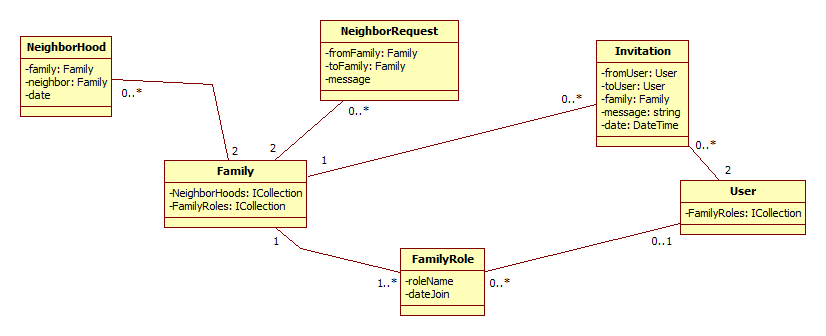


Figure 6 - Family Class Diagram

### NOTIFICATION CLASS DIAGRAM

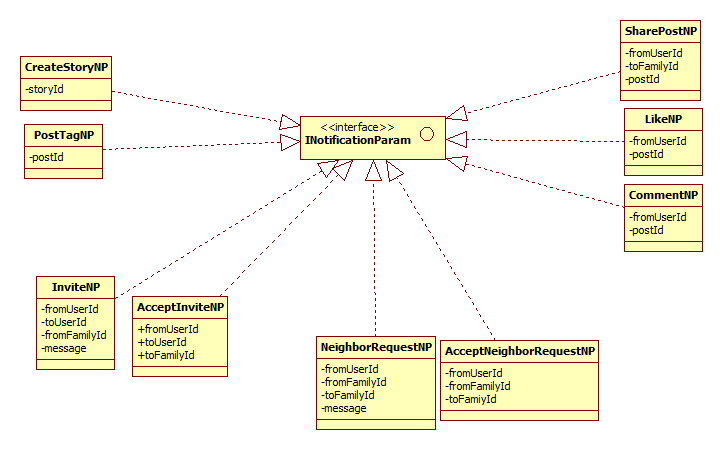


Figure 7 - Notification Class Diagram

## *SEQUENCE DIAGRAM*

### LOGIN

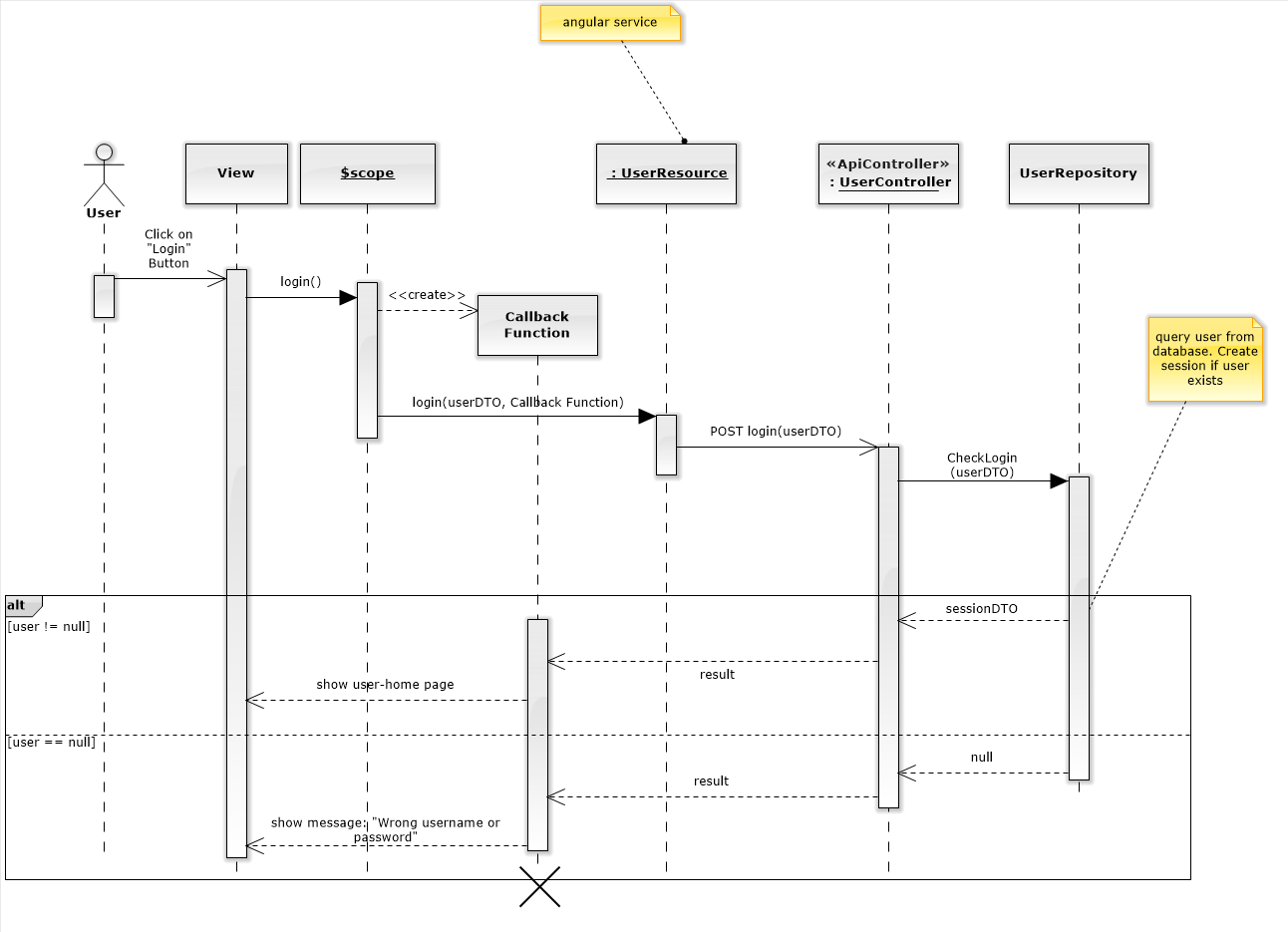


Figure 8: Login sequence diagram

### SERVER AUTHORIZE

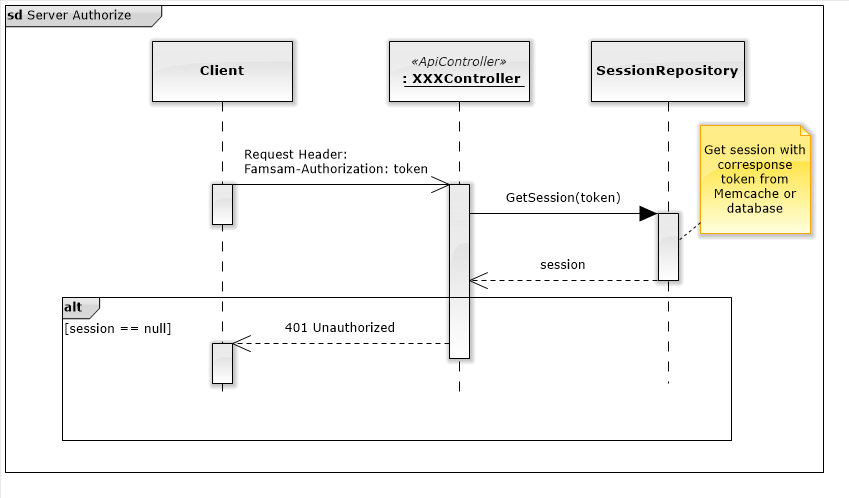


Figure 9: Server authorize sequence diagram

### CREATE STORY

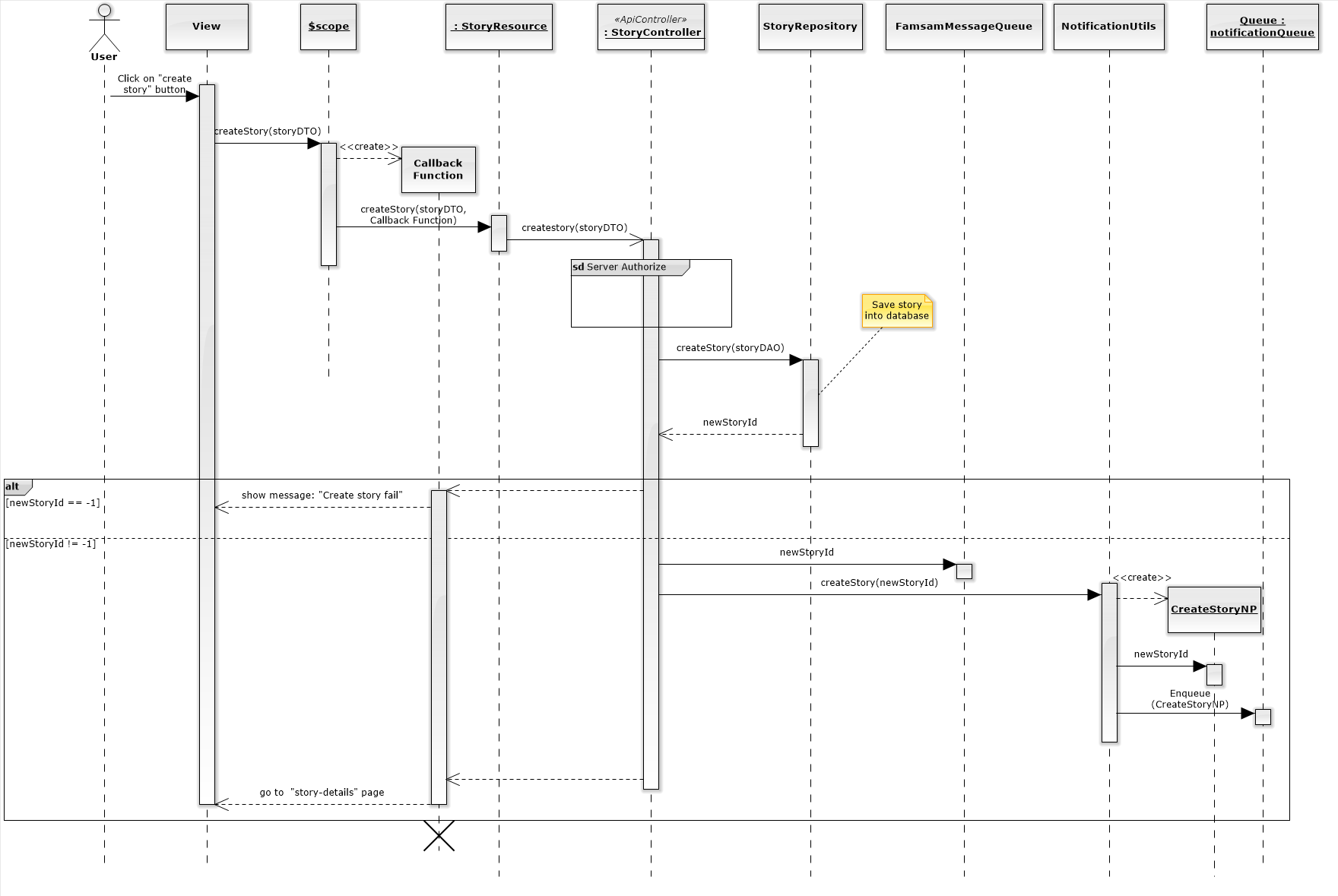


Figure 10: Create Story sequence diagram

### INVITE A PERSON TO A FAMILY

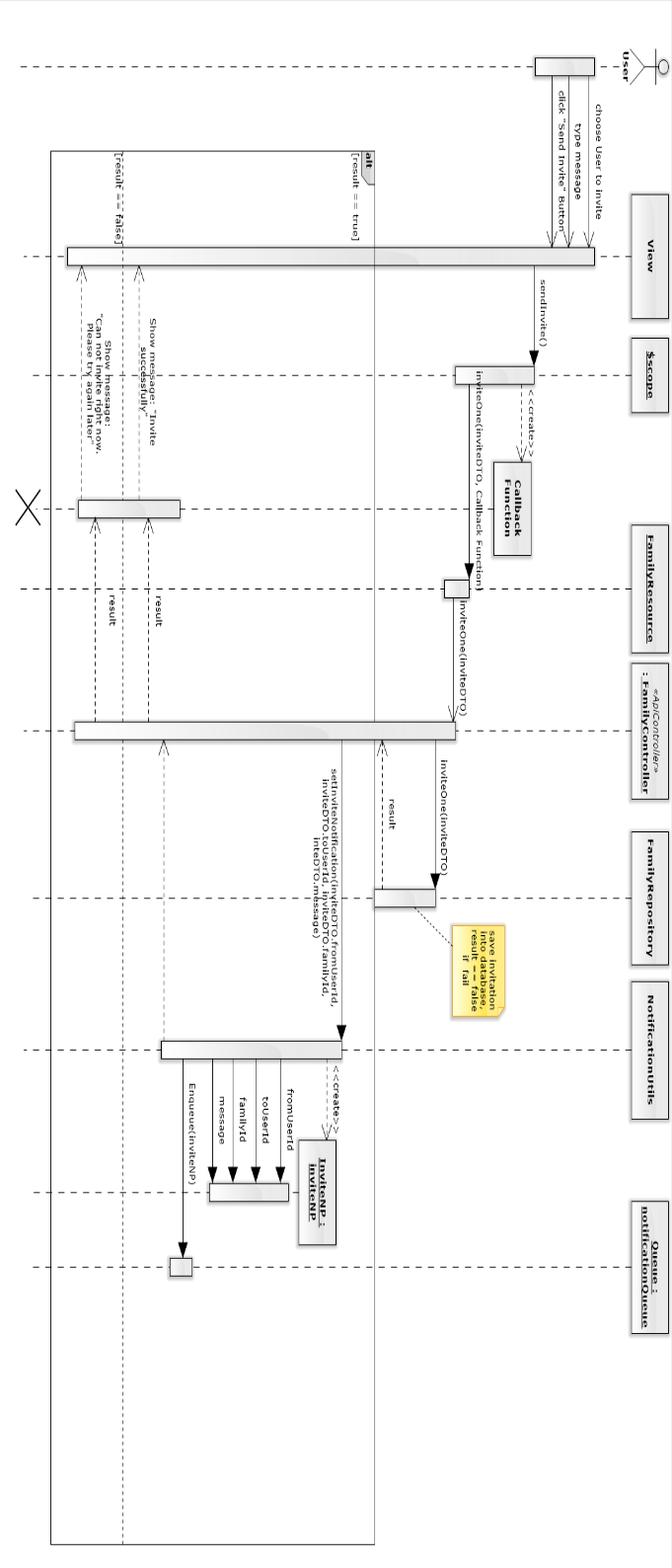


Figure 11: Invite a person to family sequence diagram

### SELECT PHOTO TO UPLOAD

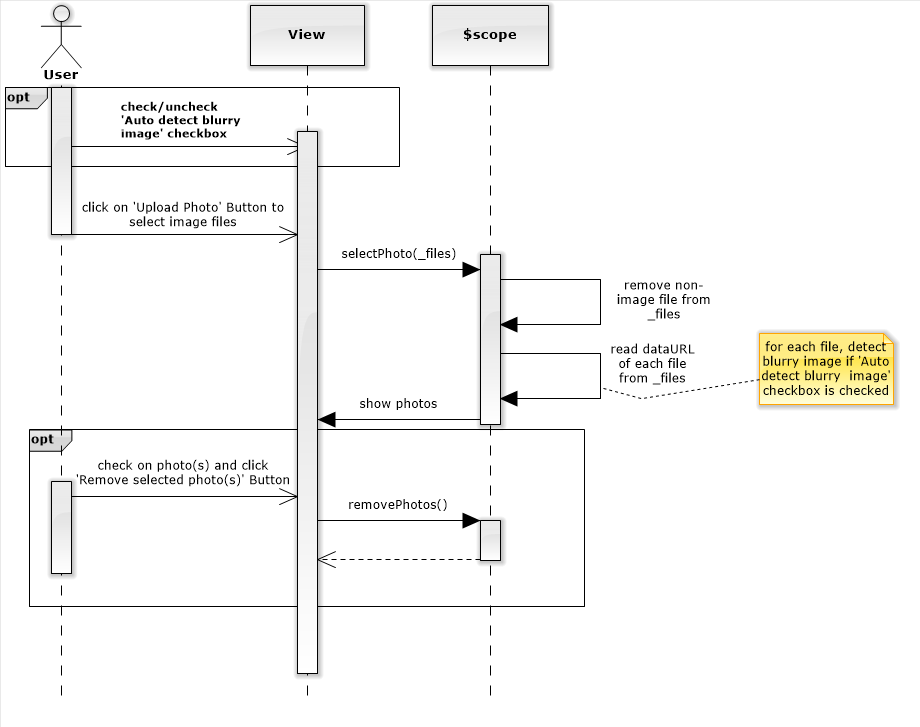


Figure 12: Select photo to upload sequence diagram

### UPLOAD PHOTO

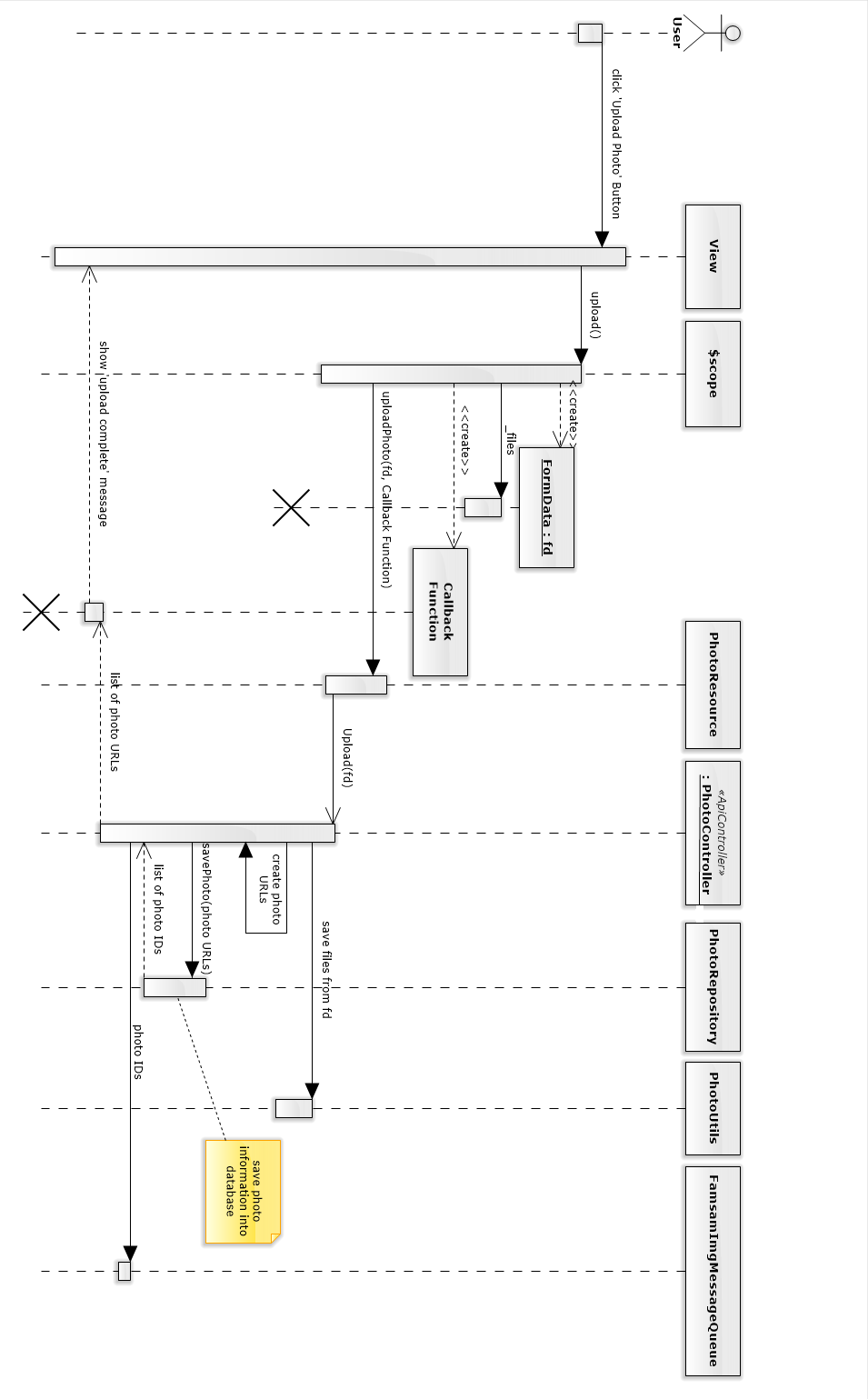


Figure 13: Upload photo sequence diagram

### SHARING A POST (STORY/ALBUM)

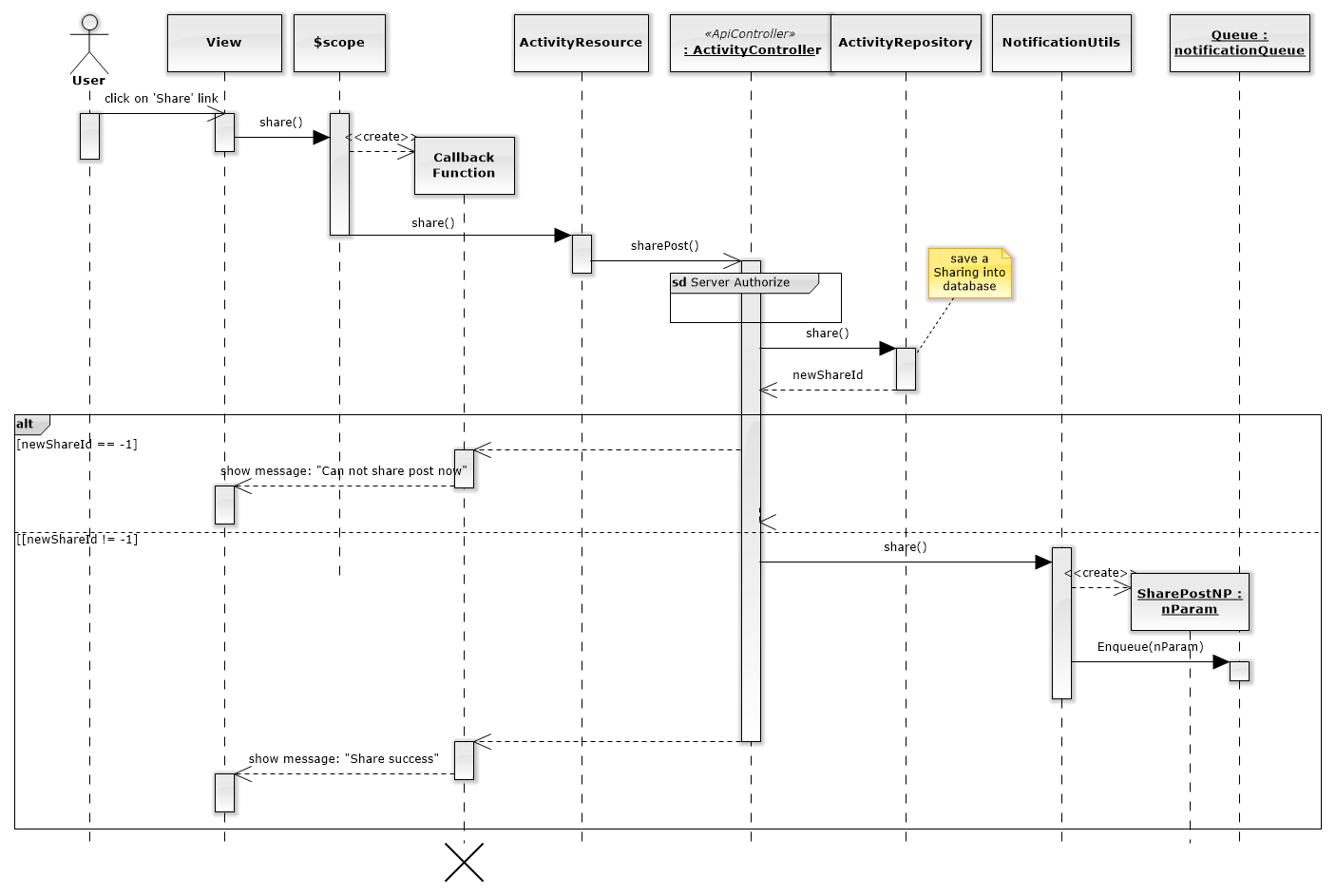


Figure 14: Sharing sequence diagram

### CREATE THUMBNAIL IMAGE

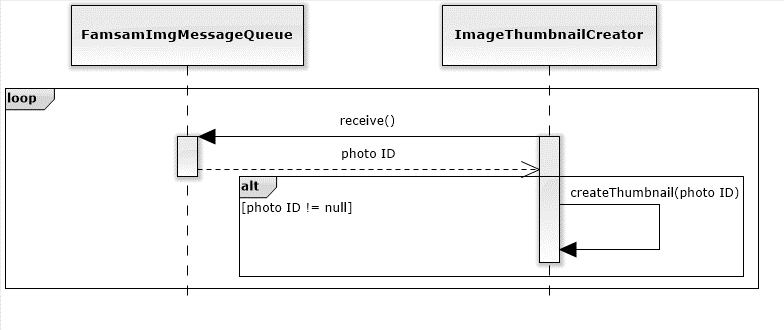


Figure 15: Create thumbnail image sequence diagram

### NOTIFICATION

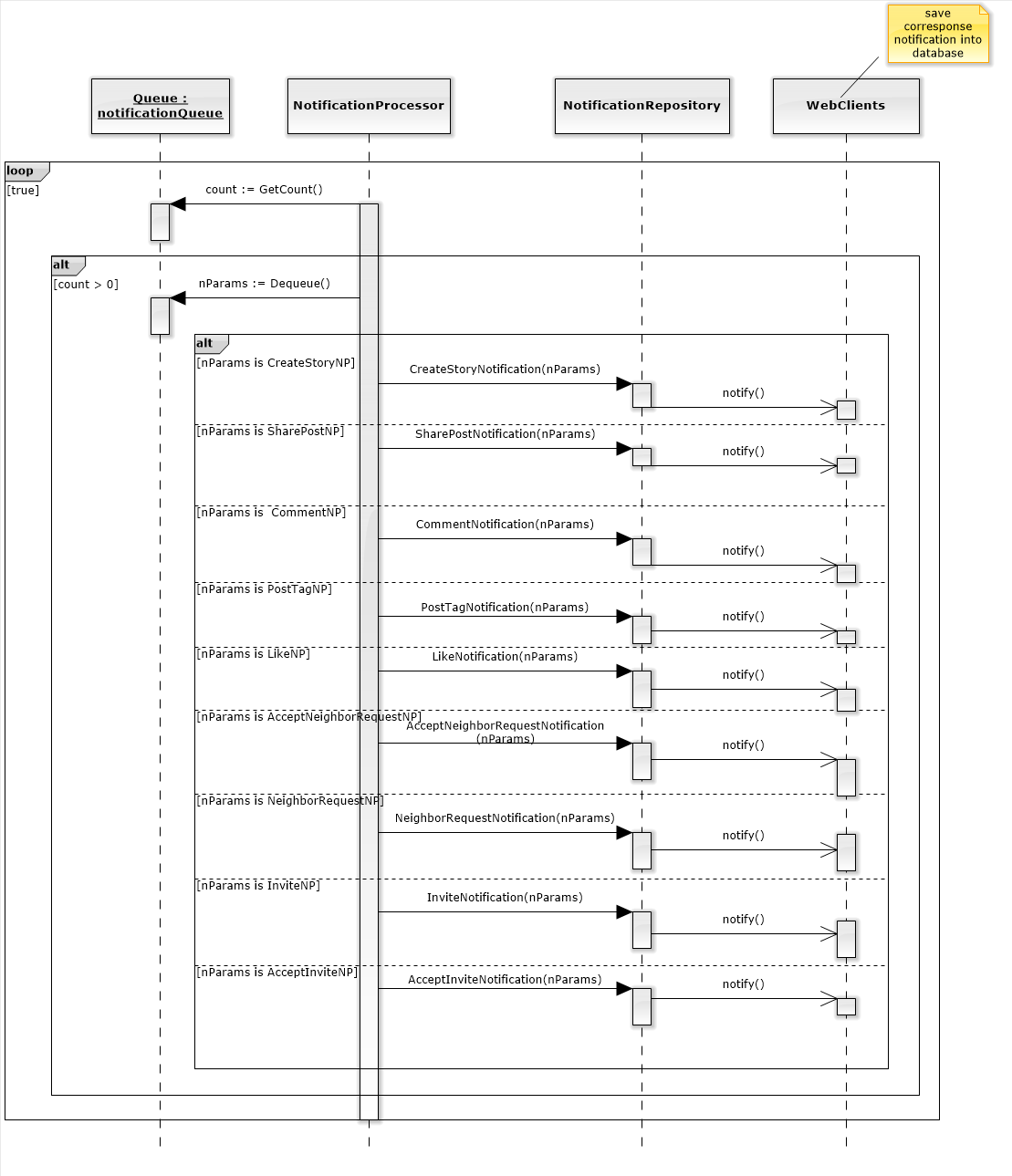


Figure 16: Notification sequence diagram

### CALCULATE TF VALUES

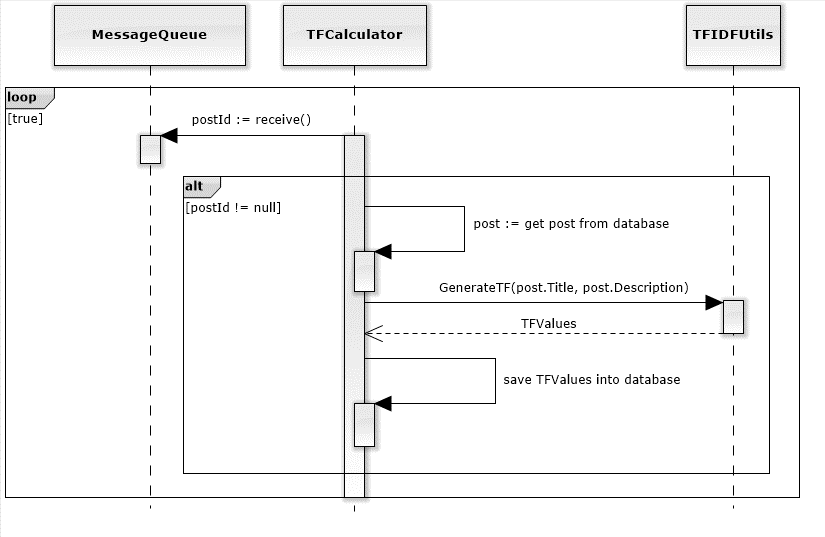
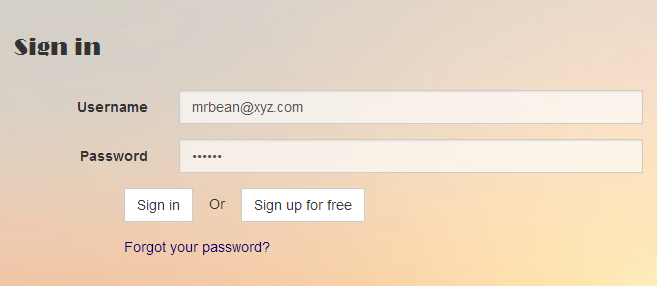
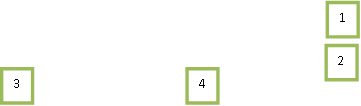


Figure 17: Calculate TF Values sequence diagram

## *USER INTERFACE DESIGN*

### LOGIN (SIGN IN) SCREEN

* 1. Screen Images



* 1. Objects and Actions

Data Fields

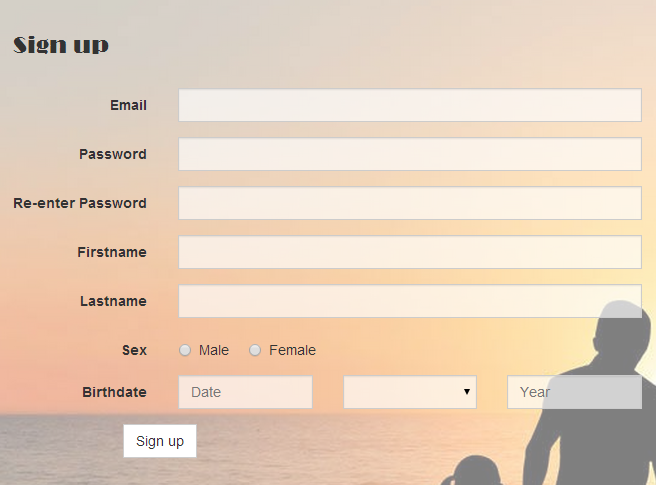
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Mandatory** | **Data type** | **Max length** | **Description** |
| 1 | Username | text | Y | nvarchar | 255 | User email to login |
| 2 | Password | password | Y | nvarchar | 255 | Password to login |

Data Actions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Action** | **Description** | **Validation** |
| 3 | Sign in | Button | On click | Sign in (login) |  |
| 4 | Sign up for free | Button | On click | Go to register (sign up) page |  |

### REGISTER (SIGN UP) SCREEN

* 1. Screen Images



1

2

3

4

5

6

7

8

9

10

* 1. Objects and Actions

Data Fields

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Mandatory** | **Data type** | **Max length** | **Description** |
| 1 | Email | text | Y | nvarchar | 255 | User email to sign up |
| 2 | Password | password | Y | nvarchar | 255 | Password to sign up |
| 3 | Re-enter Password | password | Y | nvarchar | 255 | Confirm password to login |
| 4 | Firstname | text | Y | nvarchar | - | First name of user |
| 5 | Lastname | text | Y | nvarchar | - | Last name of user |
| 6 | Sex | radio | Y | bit | - | Indicate wheather user is male or female. |
| 7 | Birthday | number | Y | int | - | Day of birth of user |
| 8 | Birthmonth | number | Y | int | - | Month of birth of user |
| 9 | Birthyear | number | Y | int | - | Year of birth of user |

Data Actions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Action** | **Description** | **Validation** |
| 10 | Sign up | Button | On click | Sign up (register) |  |

### HOMEPAGE SCREEN

* 1. Screen Images

3

2

1

4



* 1. Objects and Actions

Data Fields

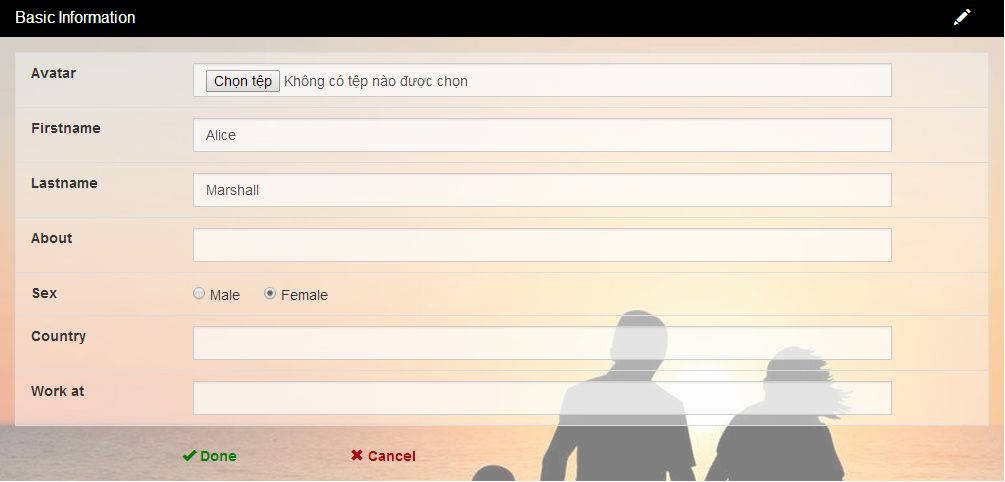
(n/a)

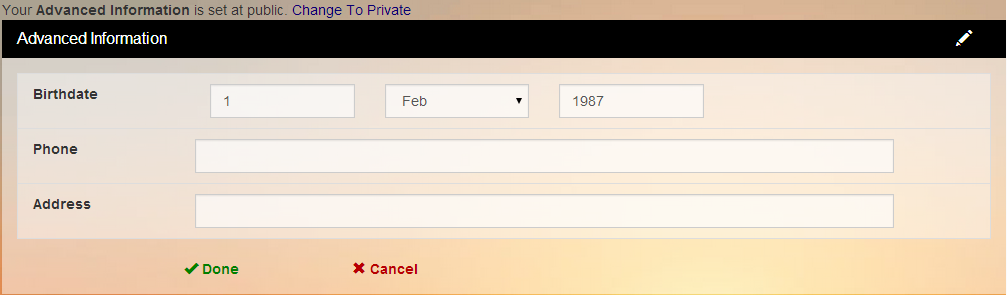
Data Actions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Action** | **Description** | **Validation** |
| 1 | Family Name | link | On click | Forward to family home page |  |
| 2 | Story Name | link | On click | Forward to story details page |  |
| 3 | Album Title | link | On click | Forward to album details page |  |
| 4 | Album Image | image | On click | Forward to album details page |  |

### USER PERSONAL INFORMATION SCREEN

* 1. Screen Images





* 1. Objects and Actions

Data fields

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Mandatory** | **Data type** | **Max length** | **Description** |
| 1 | Avatar | file | N | file | - | Avatar of user |
| 2 | Firstname | text | Y | nvarchar | 255 | First name of user |
| 3 | Lastname | text | Y | nvarchar | 255 | Last name of user |
| 4 | About | text | N | nvarchar | - | Description about user |
| 5 | Sex | checkbox | Y | bit | - | Indicate whether user is male or female. |
| 6 | Country | text | N | nvarchar | 20 | Country of user |
| 7 | Work at | text | N | nvarchar | 20 | Company’s name of user |
| 8 | Birthday | number | Y | int | - | Day of birth of user |
| 9 | Birthmonth | number | Y | int | - | Day of month of user |
| 10 | Birthyear | number | Y | int | - | Day of month of user |
| 11 | Phone | text | N | nvarchar | 20 | Phone number of user |
| 12 | Address | text | N | nvarchar | 255 | Address of user |

Data Actions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Action** | **Description** | **Validation** |
| 13 | Done basic info | button | On click | Submit basic info data to server | Inputted data must be valid |
| 14 | Cancel basic info | button | On click | Cancel edit basic info |  |
| 15 | Change To Private | link | On click | Submit private privacy of user’s advance info to server |  |
| 16 | Change To Public | link | On click | Submit public privacy of user’s advance info to server |  |
| 17 | Done Advance information | button | On click | Submit advance info data to server | Inputted data must be valid |
| 18 | Cancel basic info | button | On click | Cancel edit basic info |  |

### FAMILY HOMEPAGE SCREEN

* 1. Screen Images



1

2

3

4

4

5

6

5



* 1. Object and Actions

Data fields

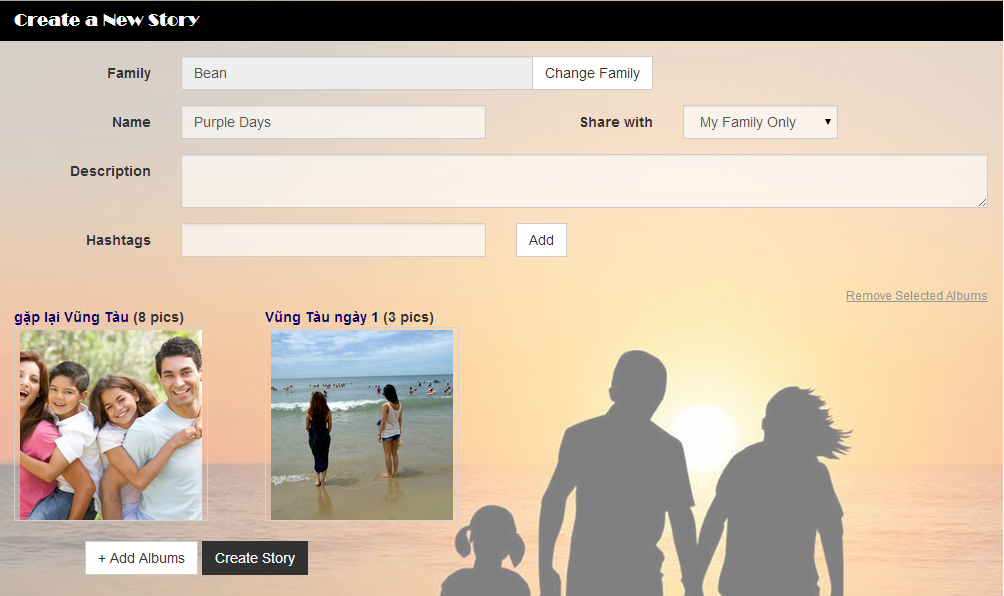
N/A

Data actions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Action** | **Description** | **Validation** |
| 1 | Invite Someone | Button | On click | Open ‘invite someone to family’ pop-up | - |
| 2 | Invite Neighbor | Button | On click | Open ‘invite neighbor’ pop-up | - |
| 3 | Change family background | Button | On click | To chang family background | - |
| 4 | User’s name | Link | On Click | forward to user’s personal info | - |
| 5 | Post title | Link | On click | forward to post (story/album) details page | - |
| 6 | Like | Link | On click | like the post (story/album) | - |

### CREATE STORY SCREEN

* 1. Screen Images



11

10

7

9

8

6

5

4

3

2

1

Figure 18 - Create Story Screen

* 1. Object and Actions

Data Fields

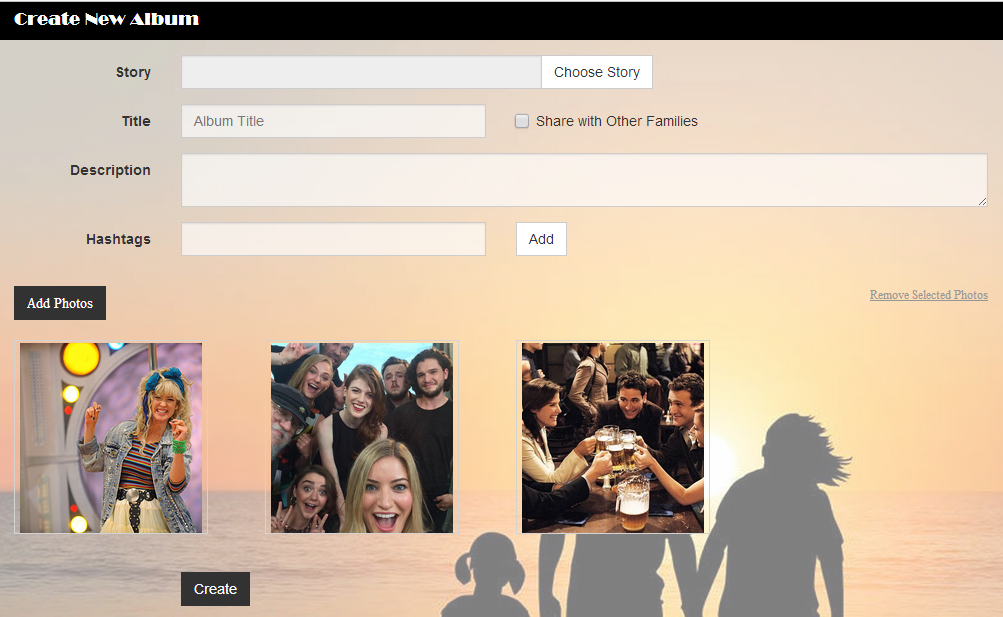
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Mandatory** | **Data type** | **Max length** | **Description** |
| 1 | Family Name | Text | Y | nvarchar | 20 | Family Name of the story |
| 3 | Story Name | Text | Y | nvarchar | 20 | Name (Title) of the story |
| 4 | Share with | Select | Y | nvarchar | 10 | Privacy of the story |
| 5 | Description | Text | N | nvarchar | 255 | Description of the story |
| 6 | HashTag | Text | N | nvarchar | 100 | Hash tag of the story |

Data Actions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Action** | **Description** | **Validation** |
| 2 | Change Family | Button | On click | Show pop-up to choose story’s family | - |
| 7 | Add HashTag | Button | On click | Add typed hashtag into current story | - |
| 8 | Add Albums | Button | On click | Show pop-up to choose or create album | - |
| 9 | Create Story | Button | On click | Create Story | - |
| 10 | Remove selected albums | Link | On click | Remove selected album | - |
| 11 | Select album | Image | On click | Click to select album | - |

### CREATE ALBUM SCREEN

* 1. Screen Images



11

10

9

8

7

6

5

4

2

1

3

* 1. Object and Actions

Data Fields

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Mandatory** | **Data type** | **Max length** | **Description** |
| 1 | Story name | Text | N | nvarchar | 20 | Story name which contains the album |
| 3 | Album Title | Text | Y | nvarchar | 20 | Title of the album |
| 5 | Description | Text | N | nvarchar | 255 | Description of the album |
| 6 | HashTag | Text | N | nvarchar | 100 | Hash tag of the story |

Data Actions

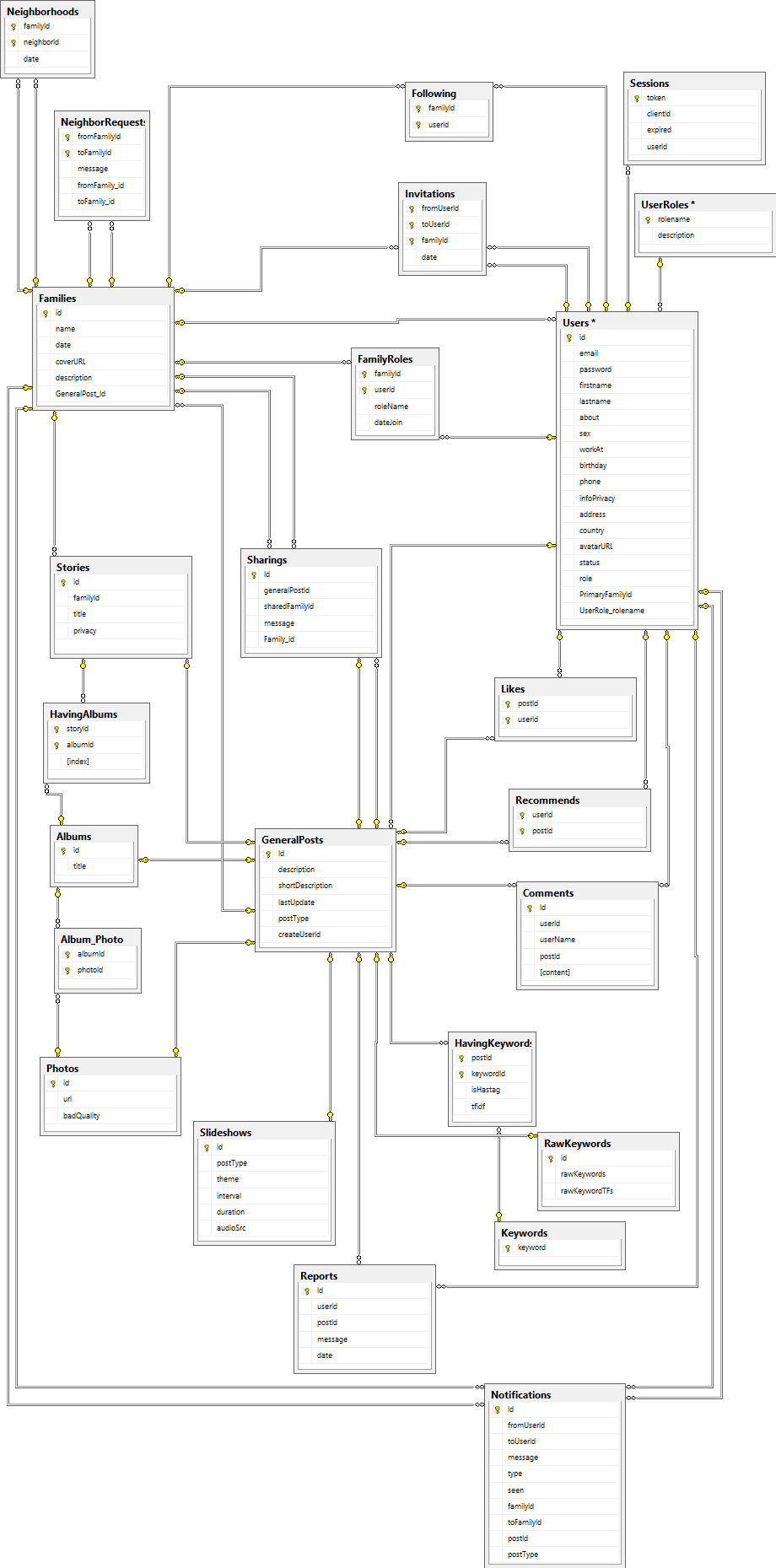
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field No** | **Field name** | **Type** | **Action** | **Description** | **Validation** |
| 2 | Choose Story | Button | On click | Show pop-up to choose story for the album | - |
| 4 | Share with other families | Checkbox | On click | Indicate whether the album is shared with other families or not | - |
| 7 | Add HashTag | Button | On click | Add typed hashtag into current album | - |
| 8 | Add Photo | Button | On click | Show pop-up to upload photo | - |
| 9 | Remove selected photos | Link | On click | Remove selected photos | - |
| 10 | Select photo | Image | On click | Click to select photo | - |
| 11 | Create | Button | On click | Submit form to create album | - |

### UPLOAD PHOTO SCREEN

### STORY DETAIL SCREEN

### PHOTO DETAIL SCREEN

## *DATABASE DESIGN*



# SOFTWARE TEST DOCUMENTATION

## *INTRODUCTION*

### SYSTEM OVERVIEW

This document describes the approach and methodologies used to plan, organize and manage the testing of FAMSAM system. It describes the implementation details of test cases and technical details of how the product features should work.

This document also provides the checklists of validation and submission as well as the test results.

### TEST APPROACH

Test goals: the testing aims to identify the remaining bugs in the system before releasing and confirm the consistency in design and implementation.

Test type: black box testing.

Test level: system and integration test.

## *TEST PLAN*

The following part describes the features to be tested or not to be tested, testing tools and test environment.

### FEATURES TO BE TESTED

There are four areas to be focused on during the test:

1. **Guest – Common functions**

Function for user who first visit the website.

* Login.
* Register.

1. **Logged in User – Family functions**

Functions for logged user to manage his/her family and make neighbor:

* Create family.
* Invite a person to family.
* Make neighbor with other family.
* View family homepage.

1. **Logged in User – General Post (Story/Album) functions**

Functions for logged user to manage story, album:

* Create album
* Edit album
* Remove album
* Create story
* Edit story title
* Edit story description
* Add album to story
* Remove album from story
* Change order of album in story
* Remove story

1. **Logged in User – Social network functions**

Functions for logged user to do their activity of social network:

* Share story/album
* Like story/album/photo
* Comment on story/album/photo
* Follow family

### FEATURES NOT TO BE TESTED

* Admin management.
* Report.
* Create slideshow for story/album.

### TESTING TOOLS AND ENVIRONMENT

Testing tools: no special testing tools

Testing environment:

* Operating system: Microsoft Window 8
* Browser: Google Chrome 36+

## *TEST CASES*

### GUEST – COMMON FUNCTIONS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| Module Register | | | | | | | |
| [Guest-1] | Test empty field email and password | none | 1.Click "Sign up for free" button at login page  2. Fill all information in register form as follow:  +Email:  +Password:  +Re-enter Password:  +Firstname: “abc”  +Lastname: “abc”  +Sex: Male  +Birthdate: 1/2/1987 | “Sign up” button is disabled | Untested | 1-12-2014 | NhutHTM |
| [Guest-2] | Test register when success | there’s no User with email=[alice@yahoo.com](mailto:alice@yahoo.com) in database | 1.Click "Sign up for free" button at login page  2. Fill all information in register form as follow:  +Email: alice@yahoo.com  +Password: “Password1”  +Re-enter Password: “Password1”  +Firstname: “Alice”  +Lastname: “Marshall”  +Sex: Female  +Birthdate: 1/2/1987  3. Click on “Sign up” button | - Redirect to login page.  - Show message: “Sign up success, you can now login”.  - Username input is filled with “alice@yahoo.com” | Untested | 1-12-2014 | NhutHTM |
| [Guest-3] | Test register with existed email | there’s already existed a User with email=[alice@yahoo.com](mailto:alice@yahoo.com) in database | 1. Click “Sign up for free” button at login page.  2. Fill all information in register form as follow:  + Email: [alice@yahoo.com](mailto:alice@yahoo.com)  + Password: “Password1”  + Re-enter Password: “Password1”  + Firstname: “Alice”  + Lastname: “Marshall”  + Sex: Female  + Birthdate: 1/2/1987 | A message showed bellow Email input with content: “This email has already existed. Please try another” | Untested | 1-12-2014 | NhutHTM |
| Module Login | | | | | | | |
| [Guest-4] | Test login success | a User with username=[alice@yahoo.com](mailto:alice@yahoo.com) and password=”Password1” is created in database | 1.Fill login form with username=”alice@yahoo.com” and password=”Password1”  2. Click “Sign in” button | Forward to user home page | Untested | 1-12-1987 | NhutHTM |
| [Guest-5] | Test wrong username and password | database has no user with username=[alice@yahoo.com](mailto:alice@yahoo.com) and password=”Password1” | 1.Fill login form with username=”alice@yahoo.com” and password=”Password1”  2. Click “Sign in” button | Show Message: “Wrong Username or Password” | Untested | 1-12-1987 | NhutHTM |

### LOGGED IN USER – FAMILY FUNCTIONS

### LOGGED IN USER – GENERAL POST (STORY/ALBUM) FUNCTIONS

### LOGGED IN USER – SOCIAL NETWORK FUNCTIONS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| Register | | | | | | | |
|  |  |  |  |  |  |  |  |

## *CHECKLISTS*

### CHECKLIST OF VALIDATION

|  |  |  |
| --- | --- | --- |
| **No.** | **Question** | **Yes/No** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Table 2: Checklist of validation

### SUBMISSION CHECKLIST

N/A

## *OTHER MATERIAL*

### TEST RESULT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module** | **Pass** | **Fail** | **Untested** | **Number of test cases** |
| Total | 73 | 0 | 0 | 73 |
| Guest – Register | 3 | 0 | 0 | 3 |

Table 3: Test result

### INCIDENT REPORT

N/A