Assignment 02(Project)

Bear Feed

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1 Project Vision

The vision of this project is to create Baylor University news feed (Bear Feed), news feed portal for all Baylor University students and faculties.

Functional Requirements

- Users can log in to the system
- Users can register to the system
- User can ask for reset password
- Users can change information on their profile
- Users can create posts in the text format
- Users can add media to the post while creating the post
- Users have to add tags to the post
- Users can get notifications
- Users can search by tags
- Users can write comments
- Users can delete comments
- Users can add posts add their favorite
- Users can view other posts
- Users can filter news feeds by tags
- Users can create new tags
- Users can share on social media
- Users can like other posts in the feed
- Users can create events
- The system can fetch information from the external source

Non-Functional Requirements:

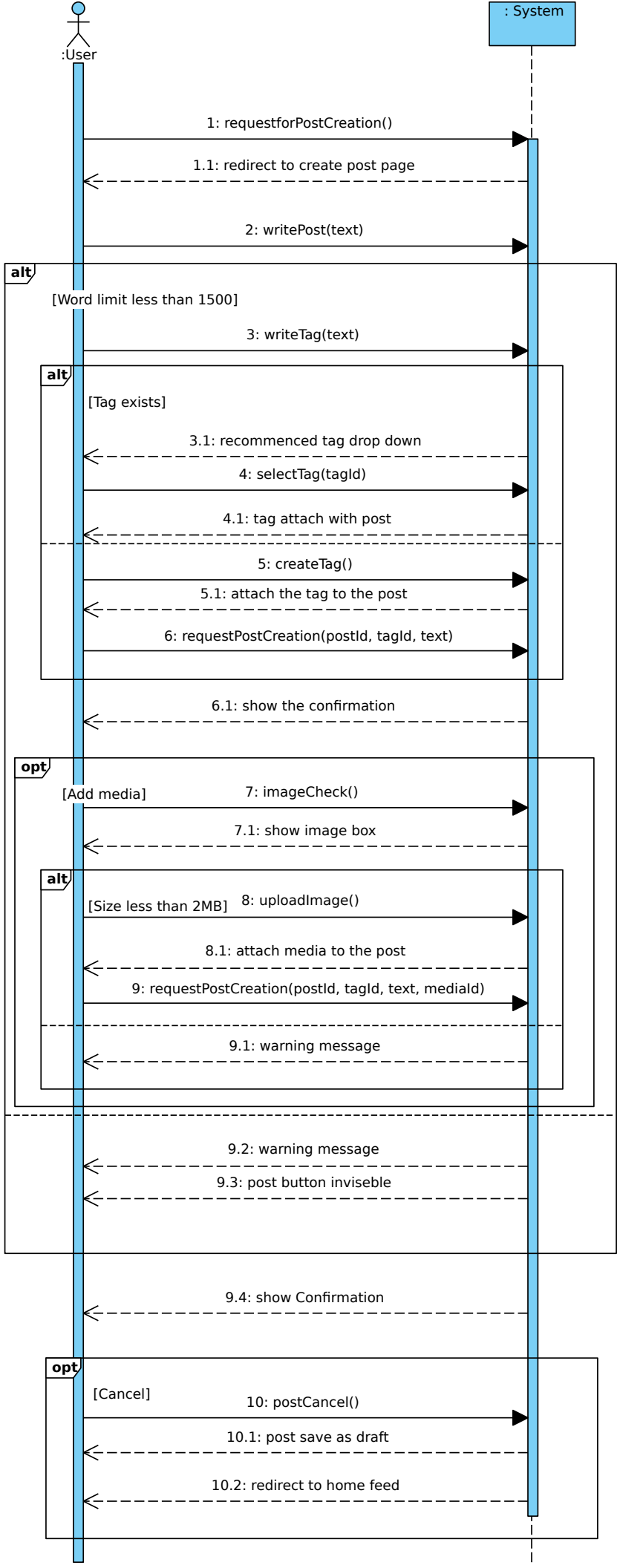
- Authentication to user login
- Password encryption
- Auto-suggestion
- caching
- Message queue

2 Use Case-1: Create Post

2.1 Fully-dressed Use Case

Use Case: Create Post
ID: BN004
Actors: User
Preconditions: The user is logged in and clicks on the create post button
Flow of events: 1. User types/pastes his post in the text box. 2. If the post does not exceed the word limit (1500 characters) 3. User types for available tags. 4. The user selects tag from suggestion. 5. The system attaches a tag from the post. 6. If user chooses to add media. 6.1 User uploads media less than 2 MB 6.2 The system attaches media to the post. 7. User clicks on create button.
Postconditions: The system will display confirmation message
Alternative flow: The user cancels the post without submitting.
Post Conditions: The system saves it as a draft and redirects to home page.
Alternative flow: 2.1 User writes a post exceeds word limit.
Post Conditions: The system will display a warning message and make create button invisible.
Alternative flow: 3.1 User writes tag not available in the system. 3.2 User clicks on create tag icon.
Post Conditions: The system attaches a new tag to the post.
Alternative flow: 6.1.2 User uploads media more than 2 MB.
Post Conditions: The system will display a warning message and make create button invisible.

2.2 System Sequence Diagram(SSD): Create Post

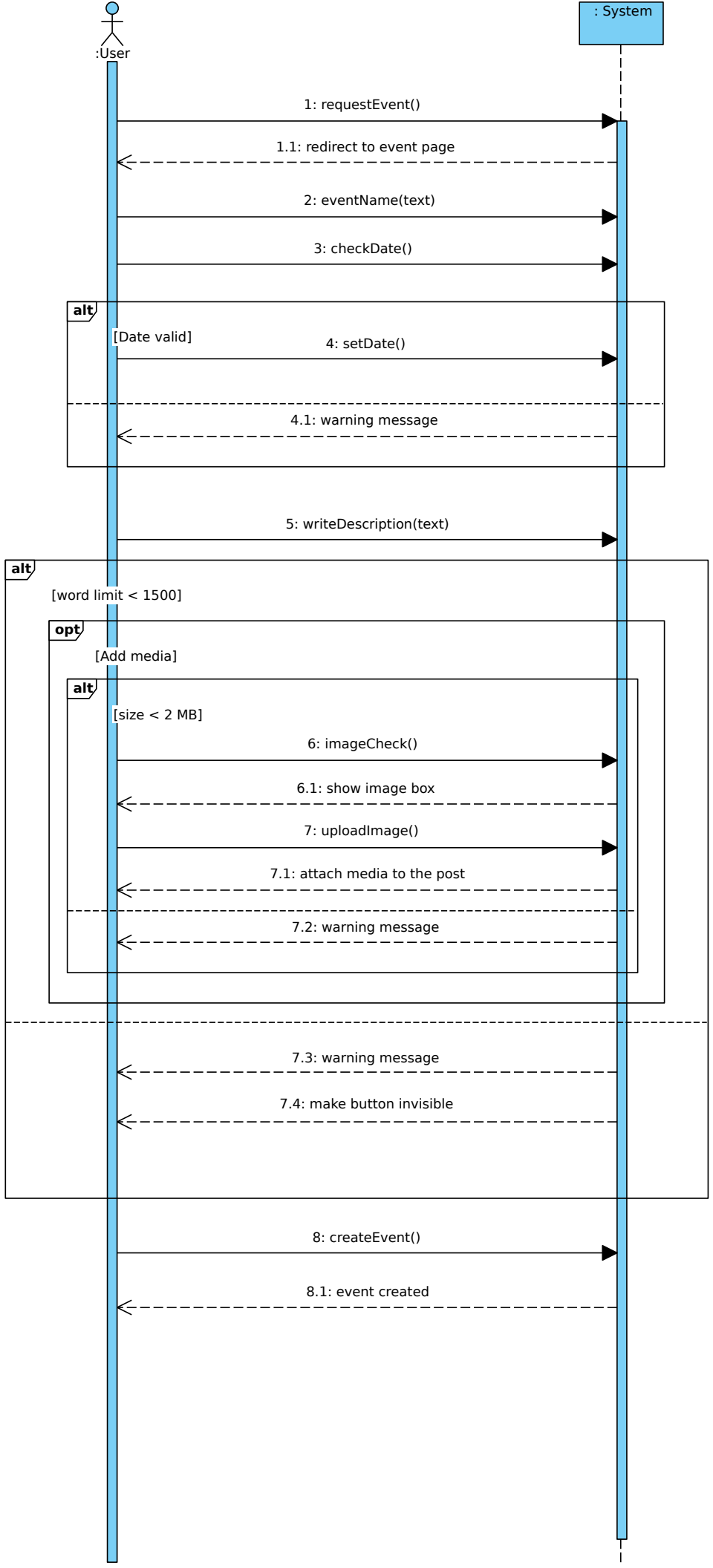

:User
: System
1: requestforPostCreation()
1.1: redirect to create post page
2: writePost(text)
alt
[Word limit less than 1500]
3: writeTag(text)
alt
[Tag exists]
3.1: recommenced tag drop down
4: selectTag(tagId)
4.1: tag attach with post
5: createTag()
5.1: attach the tag to the post
6: requestPostCreation(postId, tagId, text)
6.1: show the confirmation
opt
[Add media]
7: imageCheck()
7.1: show image box
alt
[Size less than 2MB]
8: uploadImage()
8.1: attach media to the post
9: requestPostCreation(postId, tagId, text, mediaId)
9.1: warning message
9.2: warning message
9.3: post button inviseble
9.4: show Confirmation
opt
[Cancel]
10: postCancel()
10.1: post save as draft
10.2: redirect to home feed

3 Use Case-2: Create Event

3.1 Fully-dressed Use Case

Use Case: Create Event
ID: BN015
Actors: User
Preconditions: The user is logged in and clicks on the create an event button
Flow of events: 1. User types/pastes title to the post in the text box. 2. The user sets a specific date for the event. 3. The user writes description of the event(1500 characters) 4. If user chooses to add media. 4.1 The user uploads media less than 2 MB 4.2 The system attaches media to the post. 5. User clicks on create event button.
Postconditions: The system will display confirmation message
Alternative flow: The user cancels the post without submitting.
Post Conditions: Redirects to the home feed.
Alternative flow: 2.1 User sets a date that is in the past.
Post Conditions: The system will display a warning message and make create button invisible.
Alternative flow: 3.1 User writes a description that has exceeded the word limit.
Post Conditions: The system will display a warning message.
Alternative flow: 4.1.1 User uploads media more than 2 MB.
Post Conditions: The system will display a warning message and make create button invisible.

3.2 System Sequence Diagram(SSD): Create Event

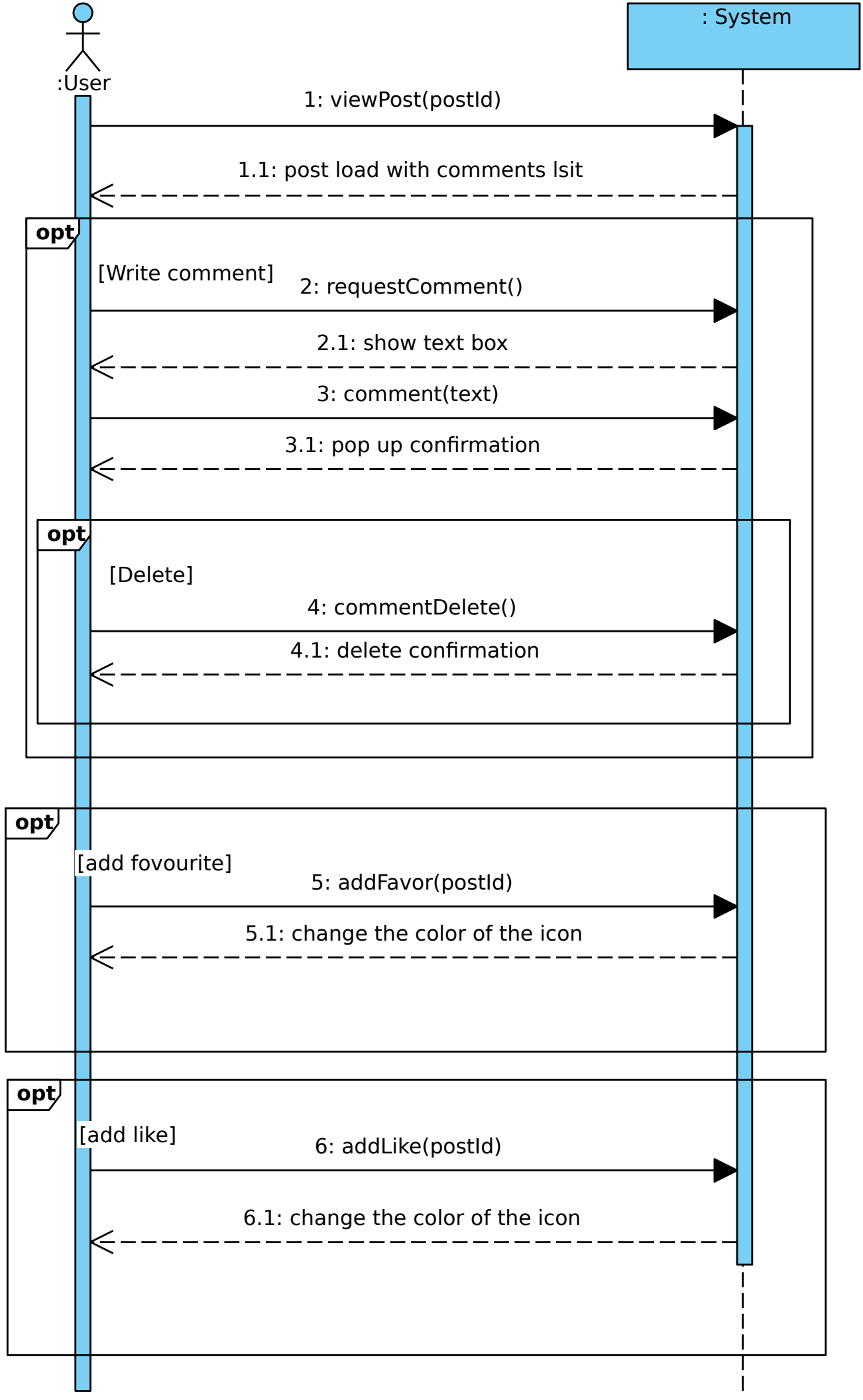

:User
: System
1: requestEvent()
1.1: redirect to event page
2: eventName(text)
3: checkDate()
alt
[Date valid]
4: setDate()
4.1: warning message
5: writeDescription(text)
alt
[word limit < 1500]
opt
[Add media]
alt
[size < 2 MB]
6: imageCheck()
6.1: show image box
7: uploadImage()
7.1: attach media to the post
7.2: warning message
7.3: warning message
7.4: make button invisible
8: createEvent()
8.1: event created

4 Use Case-3: View Post

4.1 Fully-dressed Use Case

Use Case: View Post
ID: BN009
Actors: User
Preconditions: The user must be logged in and click on the view post button of a specific post.
Flow of events: 1. Loads post with the list of comments. 2. If the user writes a comment in a text box and clicks on the add button. 2.1 The system will display a confirmation message. 3. If the user clicks on the add to favorite icon. 3.1 The system will change the color of the icon. 3.2 The system will add to favourites list. 4. If the user clicks on the like button. 4.1 The system will change the color of the icon.
Postconditions:
Alternative flow: The user closes the post without doing anything.
Post Conditions: Redirects to the home feed.
Alternative flow: 2.1 the user clicks on the delete icon.
Post Conditions: The system will display delete confirmation text.

4.2 System Sequence Diagram(SSD): View Post

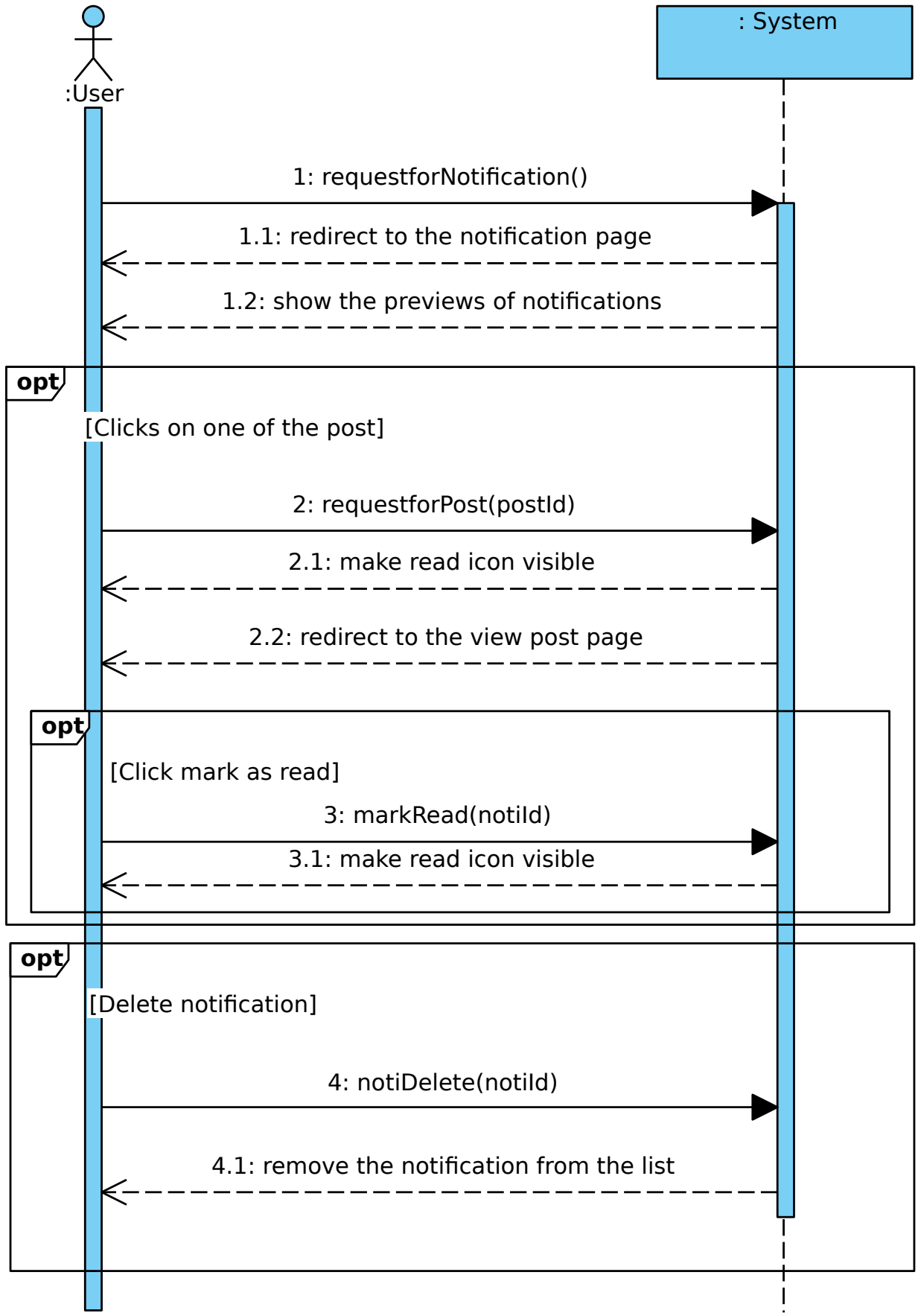

: System
:User
1: viewPost(postId)
1.1: post load with comments lsit
opt
[Write comment]
2: requestComment()
2.1: show text box
3: comment(text)
3.1: pop up confirmation
opt
[Delete]
4: commentDelete()
4.1: delete confirmation
opt
[add fovourite]
5: addFavor(postId)
5.1: change the color of the icon
opt
[add like]
6: addLike(postId)
6.1: change the color of the icon

5 Use Case-4: Notification

5.1 Fully-dressed Use Case

Use Case: Notification
ID: BN015
Actors: User
Preconditions: User is logged in and user click on notification icon
Flow of events: 1. The user clicks on the icon. 2. The system redirects to the notification page. 3. The Notification page will show all the previews of the notifications. 4. If the user clicks one of the posts in the list . 4.1 Redirect the user to that view page that loads the corresponding post. 5. If the user clicks on the mark as read button. 5.1 System will make the read icon visible. 6. If the user clicks on delete notification icon. 6.1 System removes the notification from the list.
Postconditions: Change the appearance of the notification icon
Alternative flow: User does not click on any notification, clicks on the home button.
Post Conditions: The system redirects to home.

5.2 System Sequence Diagram(SSD): Notification

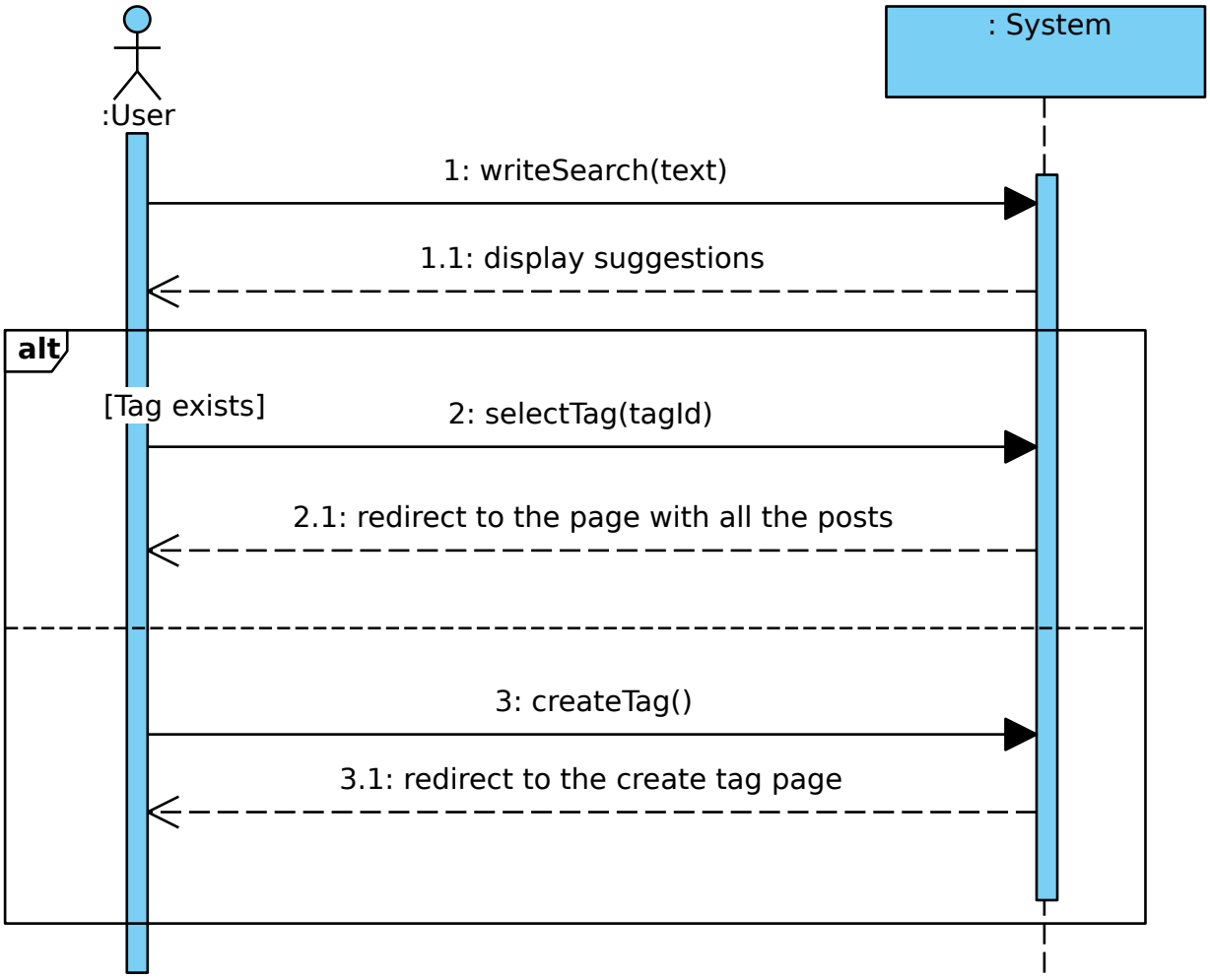

:User
: System
1: requestforNotification()
1.1: redirect to the notification page
1.2: show the previews of notifications
opt
[Clicks on one of the post]
2: requestforPost(postId)
2.1: make read icon visible
2.2: redirect to the view post page
opt
[Click mark as read]
3: markRead(notiId)
3.1: make read icon visible
opt
[Delete notification]
4: notiDelete(notiId)
4.1: remove the notification from the list

6 Use Case-5: Search By Tag

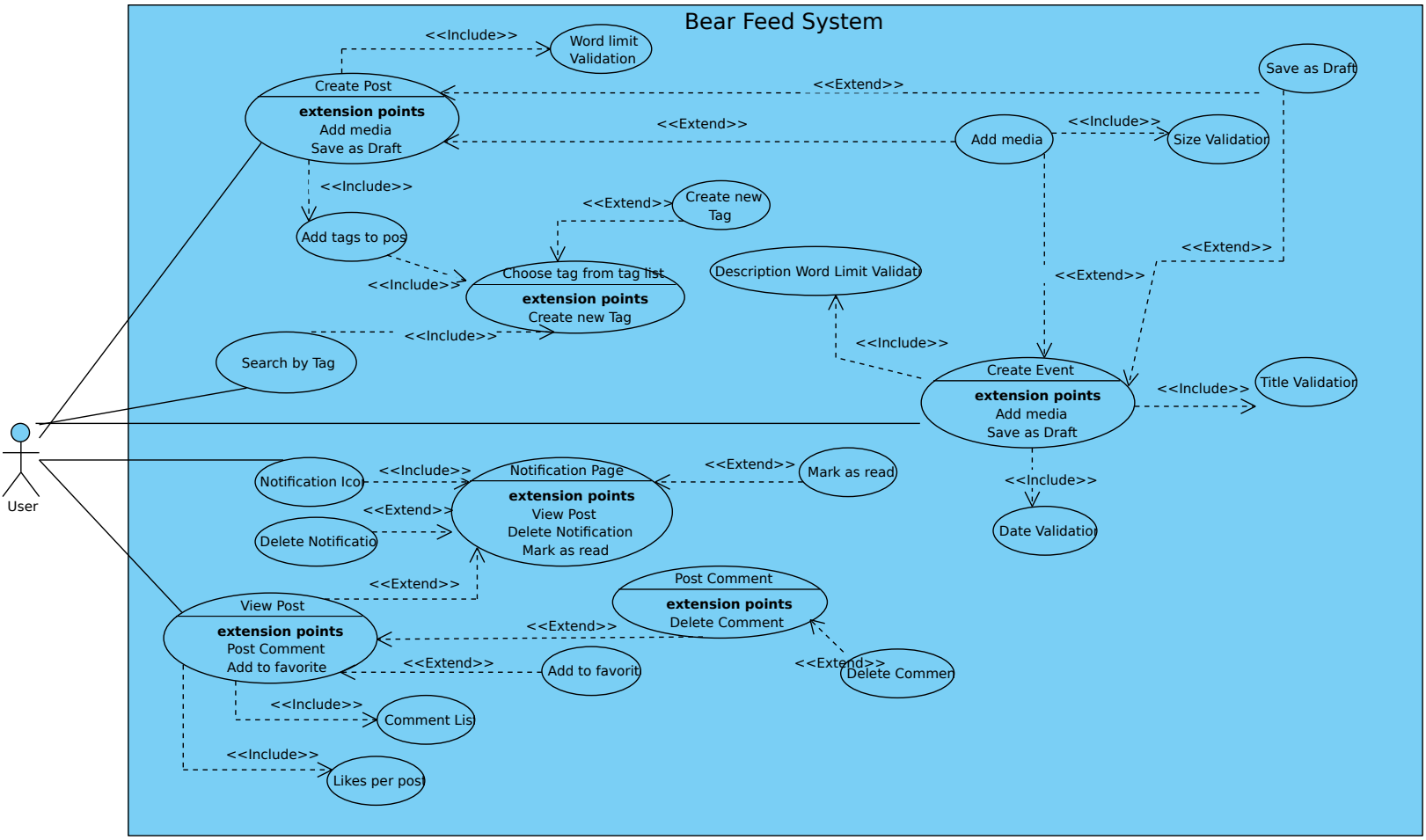
6.1 Fully-dressed Use Case

Use Case: Search By Tag
ID: BN007
Actors: User
Preconditions: User is logged in the system
Flow of events: 1. User writes the text from the tag search. 2. User selects tag from suggestions. 3. User clicks on the search icon
Postconditions: User is redirected to the page loads preview of the posts
Alternative flow: 4.User writes a tag that doesn't exist in system. 5. User selects the create tag option.
Post Conditions: The system will redirect to the create tag page.
Alternative flow: User might not click the search icon.
Post Conditions: The system will keep the user in the current page.

6.2 System Sequence Diagram(SSD): Search By Tag


: System
:User
1: writeSearch(text)
1.1: display suggestions
alt
[Tag exists]
2: selectTag(tagId)
2.1: redirect to the page with all the posts
3: createTag()
3.1: redirect to the create tag page

7 Use Case Diagram



8 System Operation