BLOGGING PLATFORM

CONNECTCO

SOFTWARE ENGINEERING (IT - 314)

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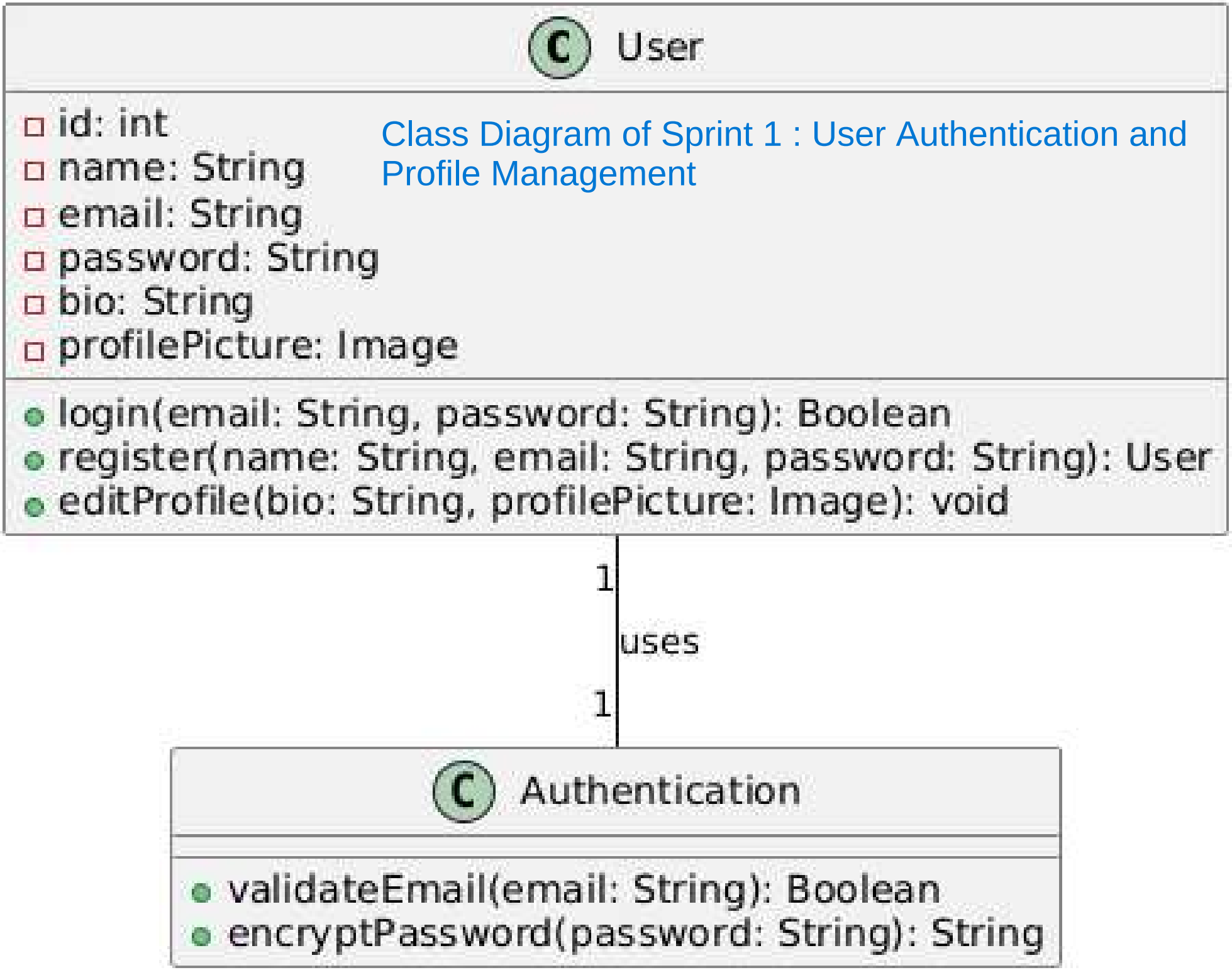
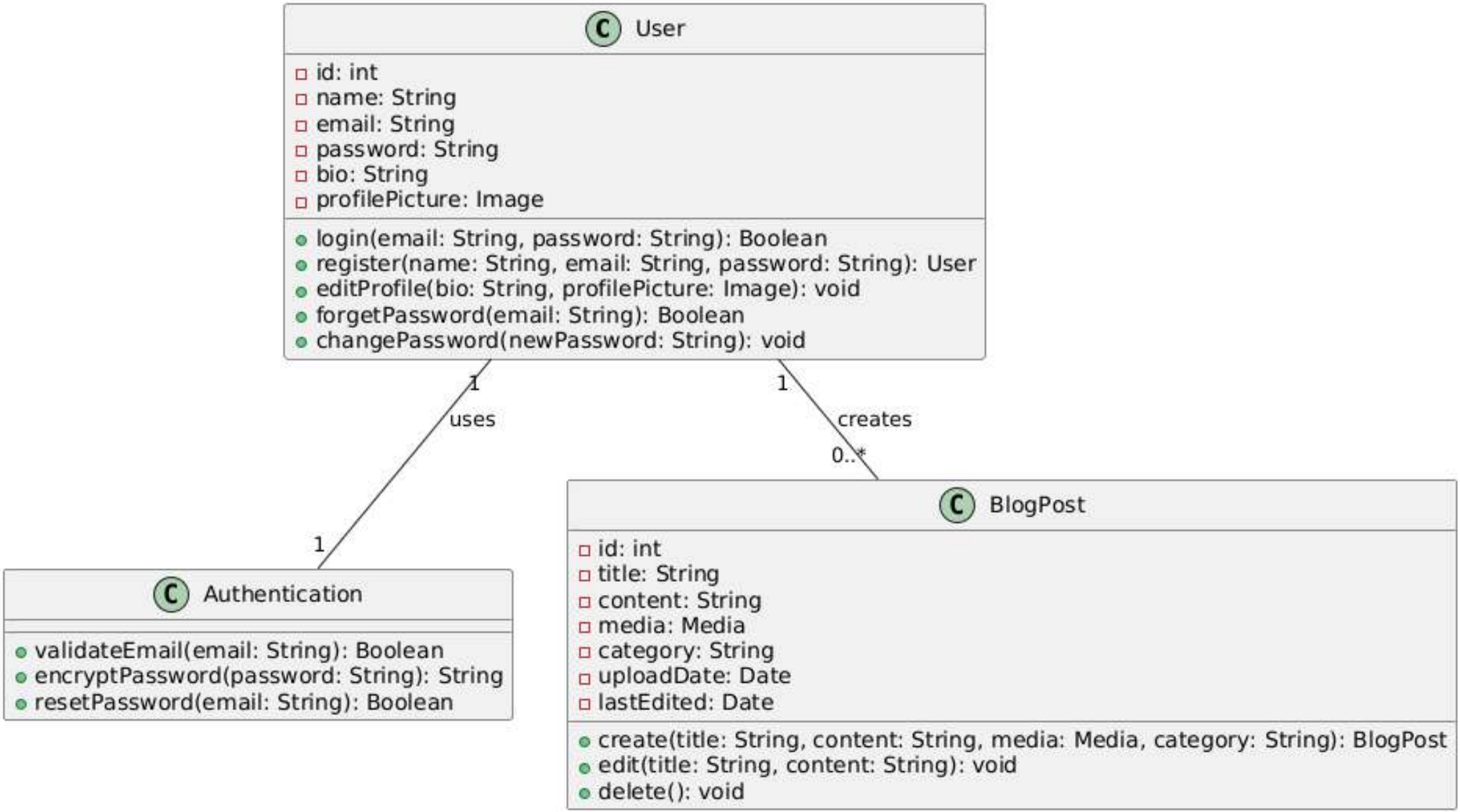
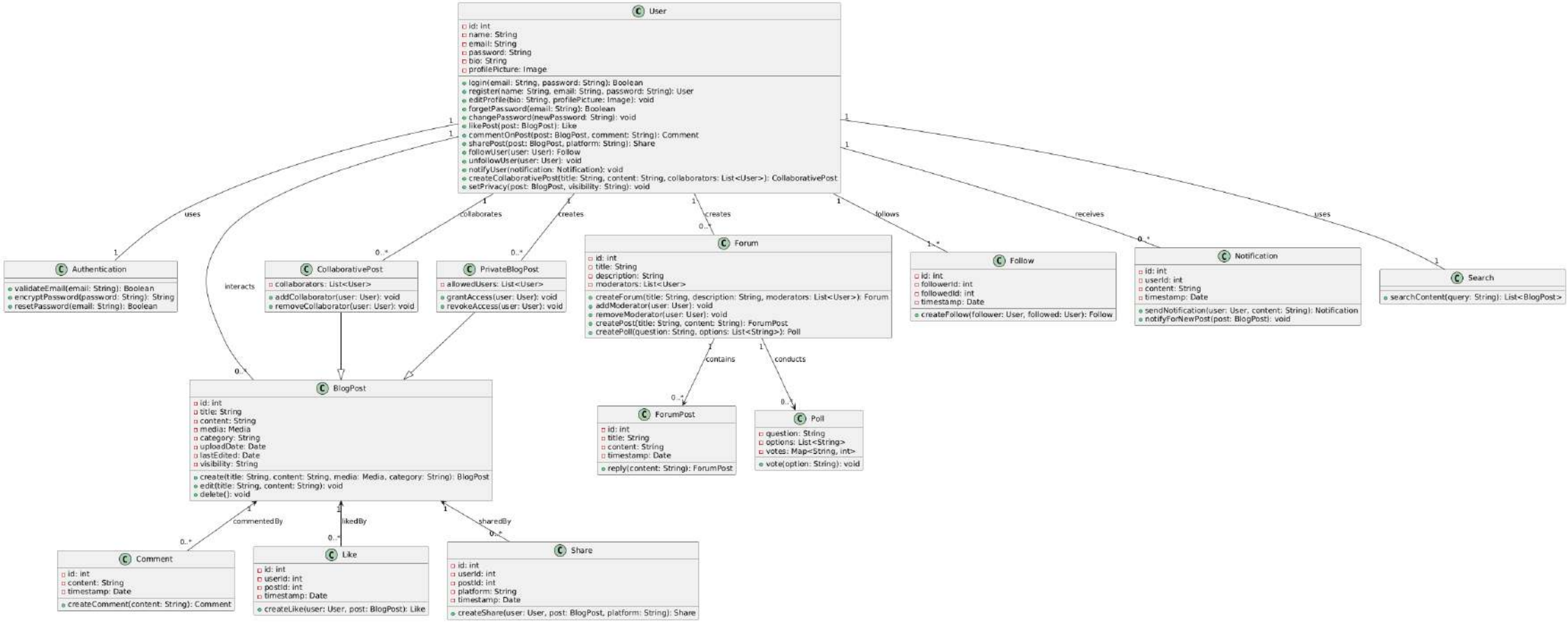

User
id: int
name: String
email: String
password: String
bio: String
profilePicture: Image
Class Diagram of Sprint 1 : User Authentication and Profile Management
login(email: String, password: String): Boolean
register(name: String, email: String, password: String): User
editProfile(bio: String, profilePicture: Image): void
1
uses
1
Authentication
validateEmail(email: String): Boolean
encryptPassword(password: String): String

Class Diagram of Sprint 2 : Blog Post Management and Account Recovery

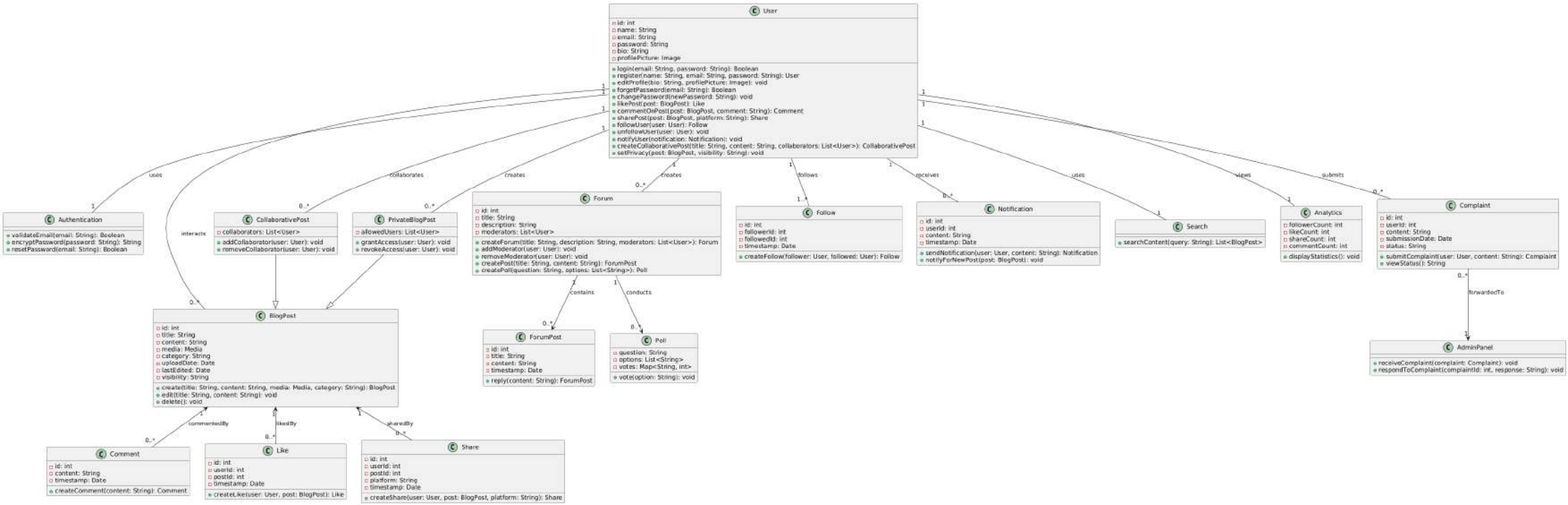


Class Diagram of Sprint 3 : Search and User Interaction

Class Diagram of Sprint 4 : User Collaboration and Forum Features

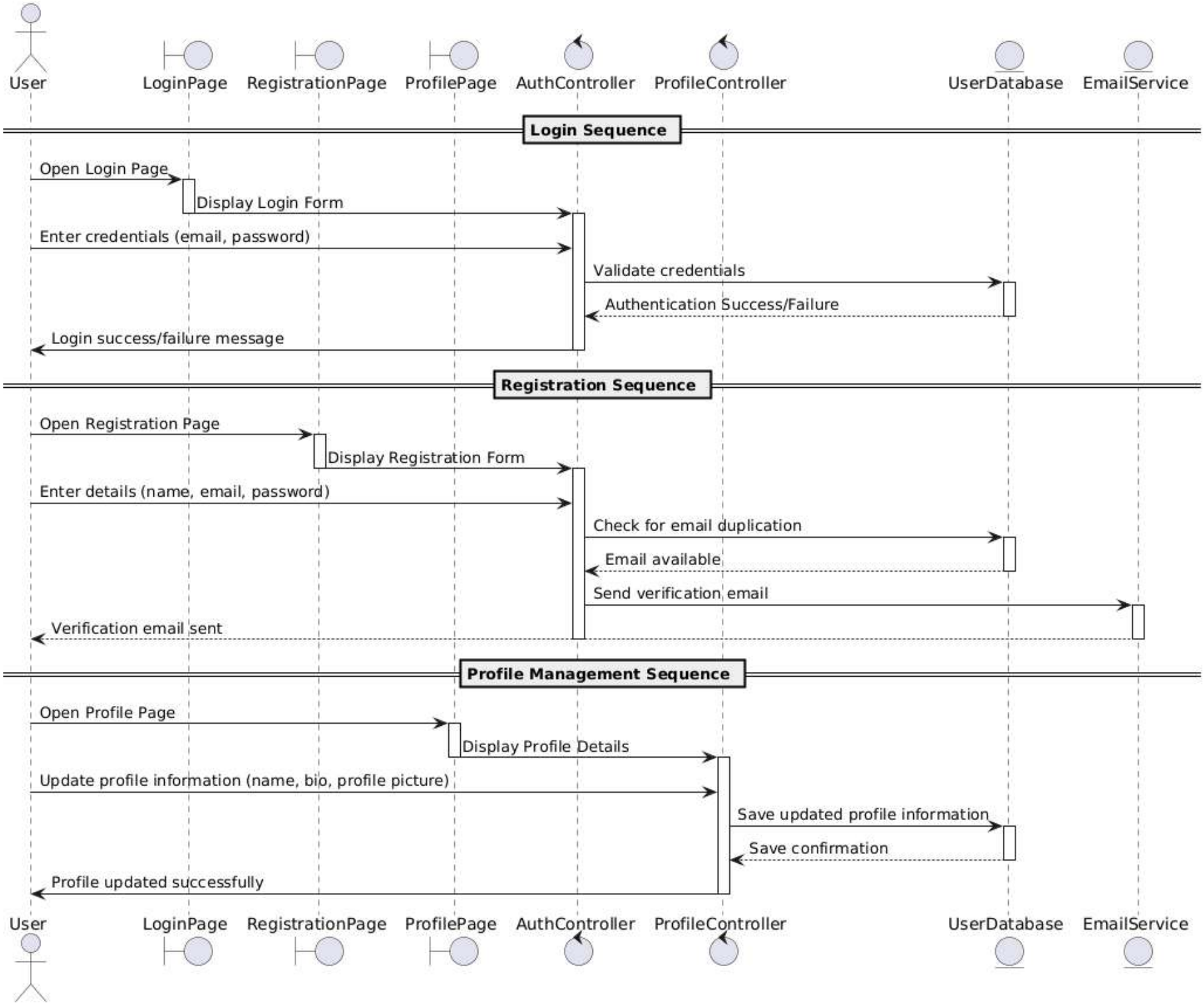


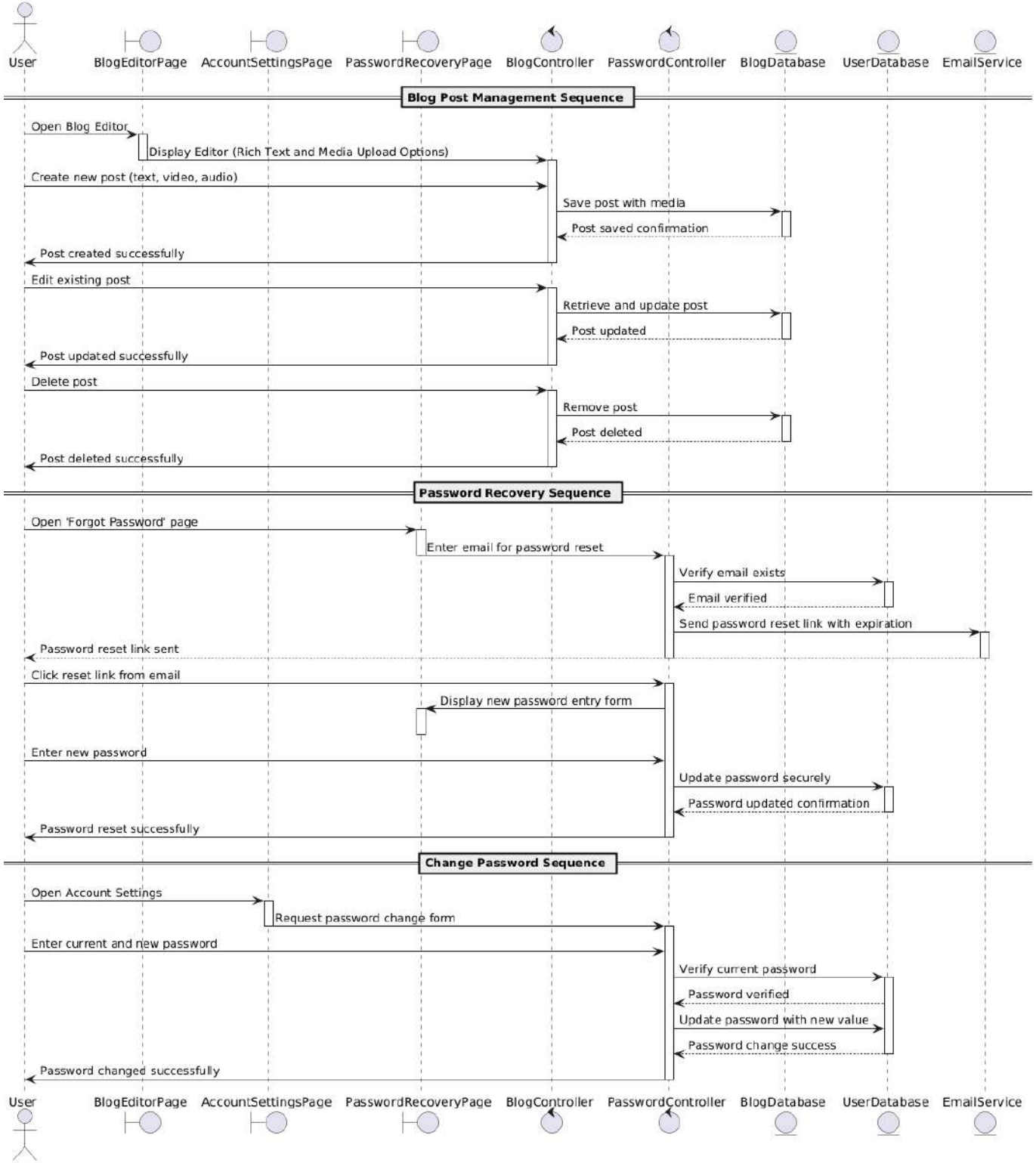
Class Diagram of Sprint 5 : User Engagement and Feedback Mechanisms

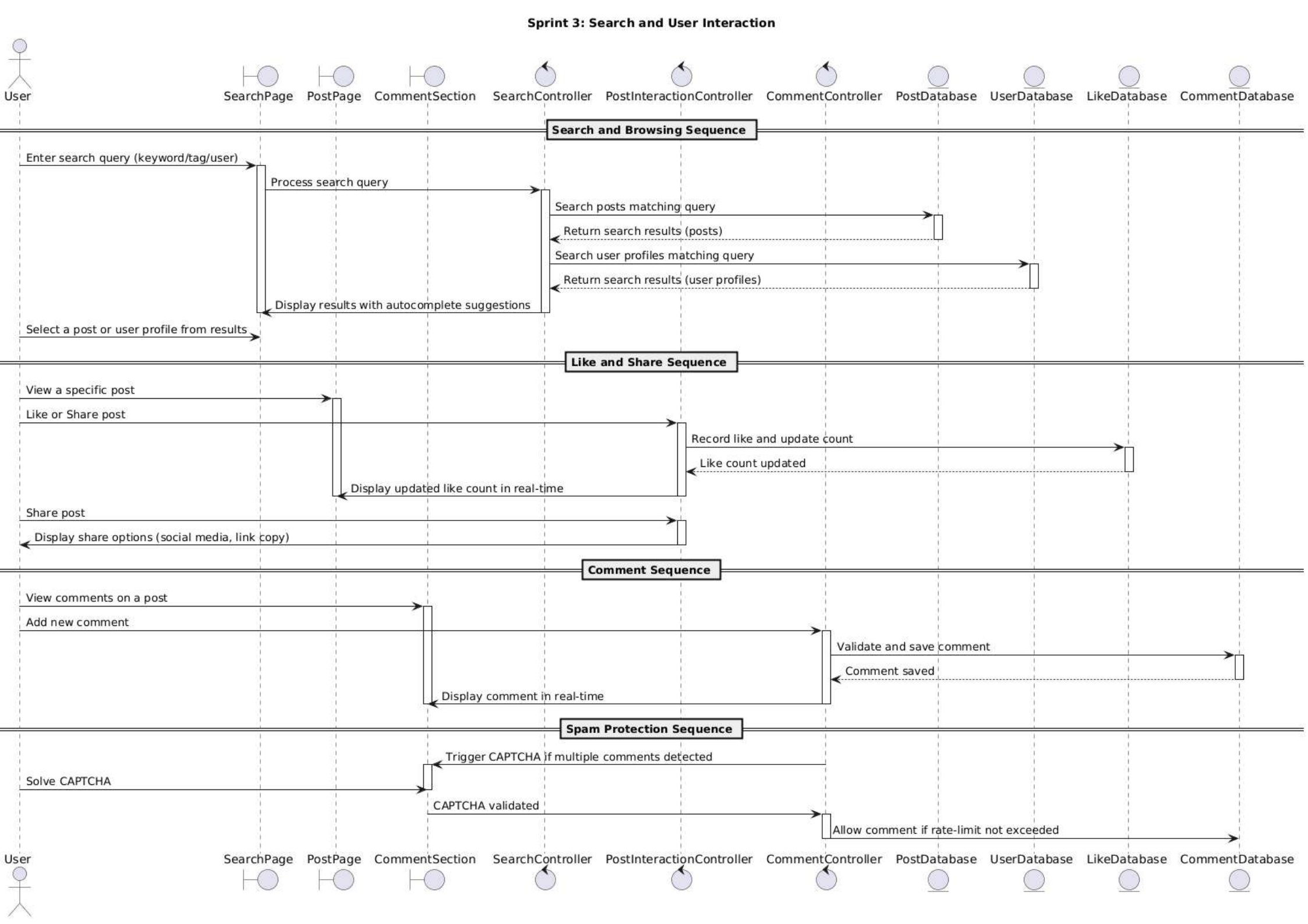


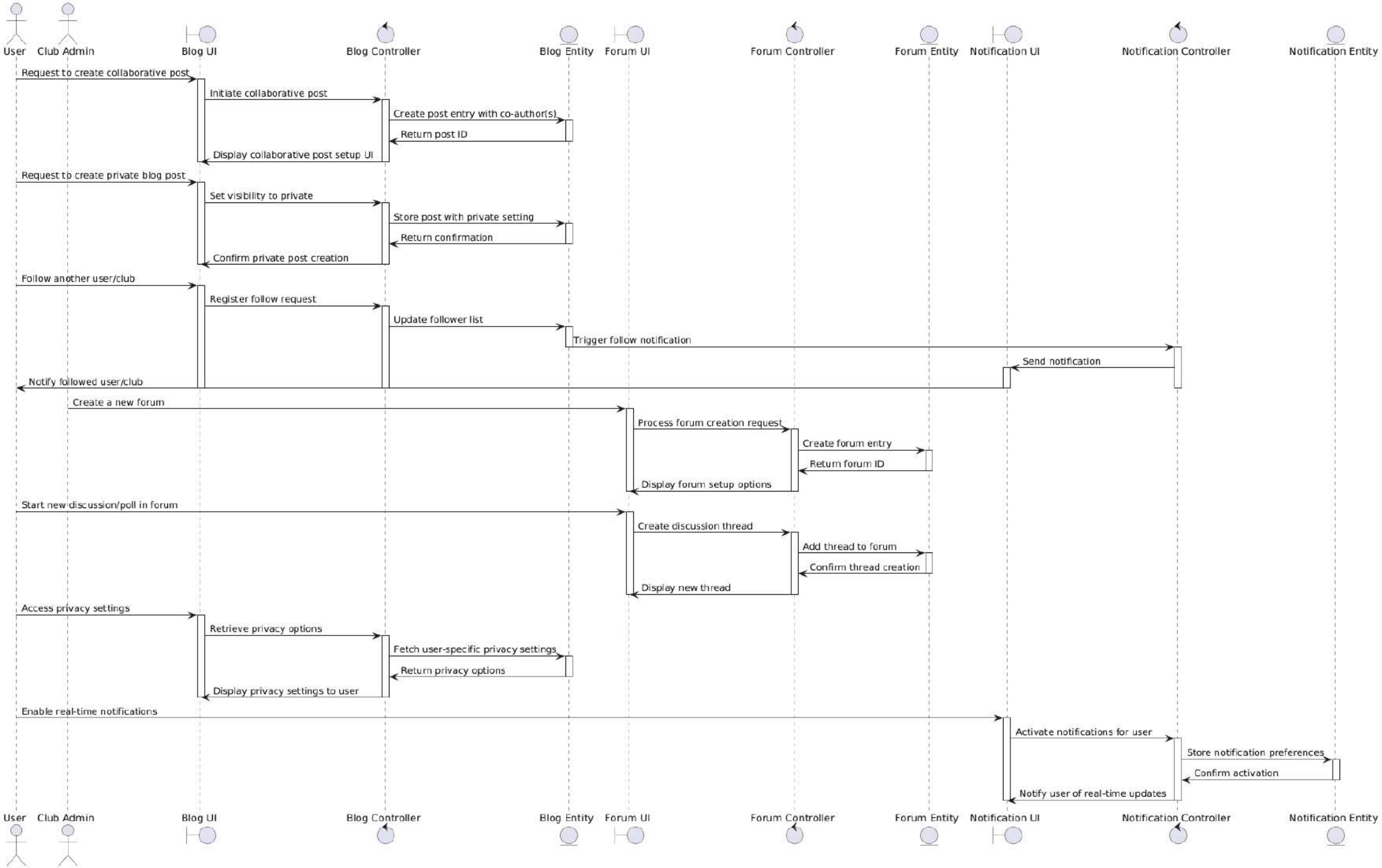
Class Diagram of Sprint 6 Notifiactions and moderation Features

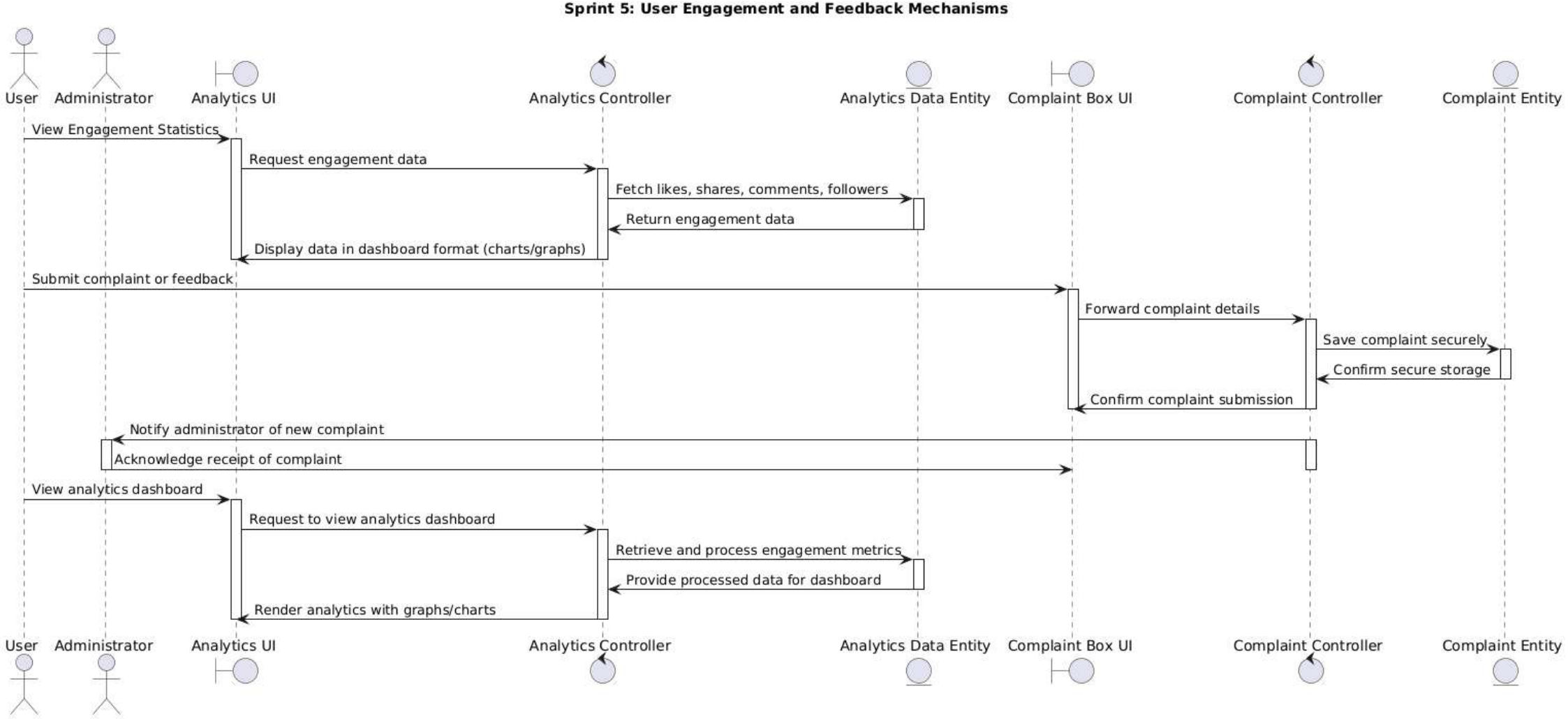
Sprint 1: User Authentication and Profile Management

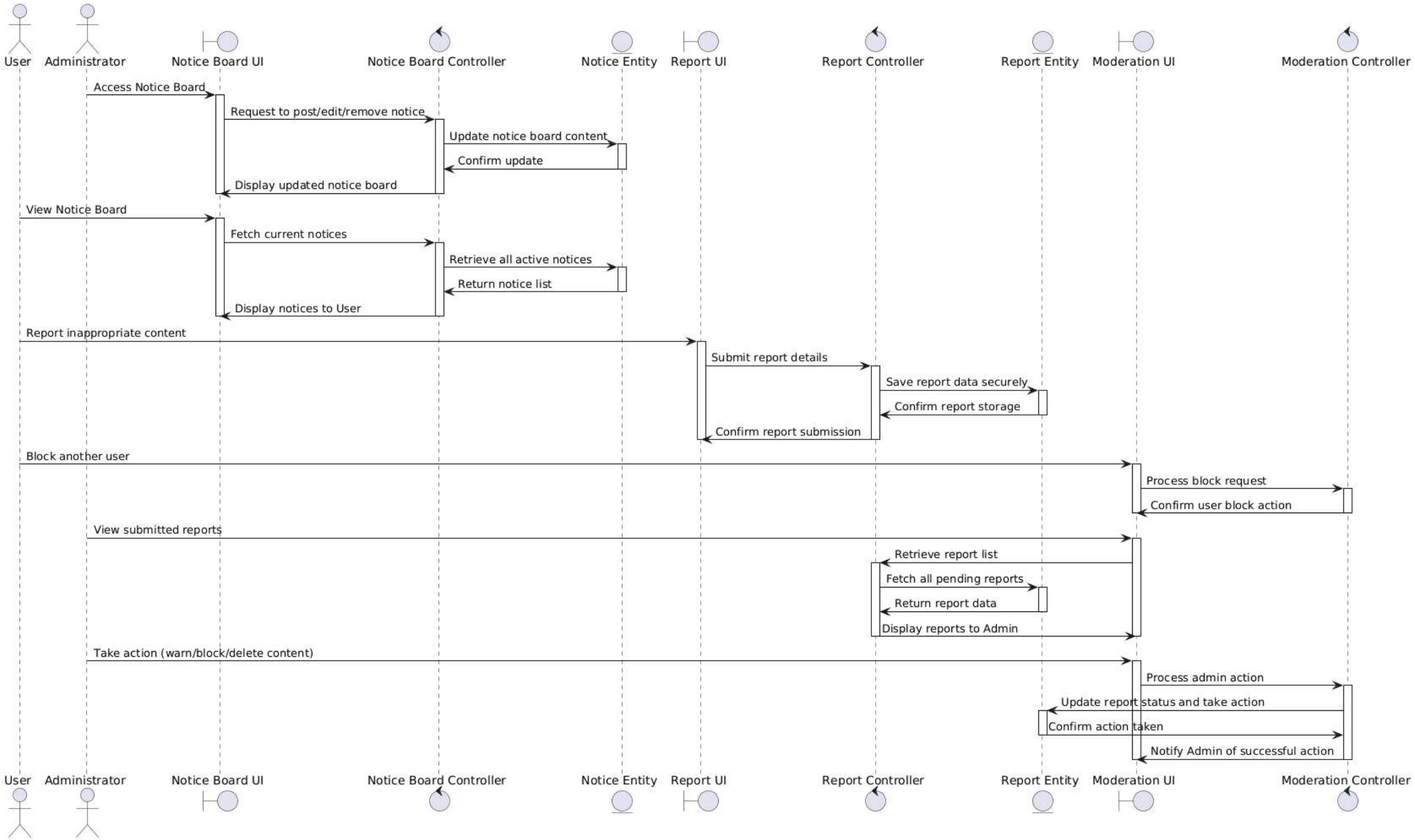



Sprint 2: Blog Post Management and Account Recovery
User
BlogEditorPage
AccountSettingsPage
PasswordRecoveryPage
BlogController
PasswordController
BlogDatabase
UserDatabase
EmailService
Blog Post Management Sequence
Open Blog Editor
Display Editor (Rich Text and Media Upload Options)
Create new post (text, video, audio)
Save post with media
Post saved confirmation
Post created successfully
Edit existing post
Retrieve and update post
Post updated
Post updated successfully
Delete post
Remove post
Post deleted
Post deleted successfully
Password Recovery Sequence
Open 'Forgot Password' page
Enter email for password reset
Verify email exists
Email verified
Send password reset link with expiration
Password reset link sent
Click reset link from email
Display new password entry form
Enter new password
Update password securely
Password updated confirmation
Password reset successfully
Change Password Sequence
Open Account Settings
Request password change form
Enter current and new password
Verify current password
Password verified
Update password with new value
Password change success
Password changed successfully
User
BlogEditorPage
AccountSettingsPage
PasswordRecoveryPage
BlogController
PasswordController
BlogDatabase
UserDatabase
EmailService


Sprint 3: Search and User Interaction
User
SearchPage
PostPage
CommentSection
SearchController
PostInteractionController
CommentController
PostDatabase
UserDatabase
LikeDatabase
CommentDatabase
Search and Browsing Sequence
Enter search query (keyword/tag/user)
Process search query
Search posts matching query
Return search results (posts)
Search user profiles matching query
Return search results (user profiles)
Display results with autocomplete suggestions
Select a post or user profile from results
Like and Share Sequence
View a specific post
Like or Share post
Record like and update count
Like count updated
Display updated like count in real-time
Share post
Display share options (social media, link copy)
Comment Sequence
View comments on a post
Add new comment
Validate and save comment
Comment saved
Display comment in real-time
Spam Protection Sequence
Trigger CAPTCHA if multiple comments detected
Solve CAPTCHA
CAPTCHA validated
Allow comment if rate-limit not exceeded


Sprint 4: User Collaboration and Forum Features
User
Club Admin
Blog UI
Blog Controller
Blog Entity
Forum UI
Forum Controller
Forum Entity
Notification UI
Notification Controller
Notification Entity
Request to create collaborative post
Initiate collaborative post
Create post entry with co-author(s)
Return post ID
Display collaborative post setup UI
Request to create private blog post
Set visibility to private
Store post with private setting
Return confirmation
Confirm private post creation
Follow another user/club
Register follow request
Update follower list
Trigger follow notification
Send notification
Notify followed user/club
Create a new forum
Process forum creation request
Create forum entry
Return forum ID
Display forum setup options
Start new discussion/poll in forum
Create discussion thread
Add thread to forum
Confirm thread creation
Display new thread
Access privacy settings
Retrieve privacy options
Fetch user-specific privacy settings
Return privacy options
Display privacy settings to user
Enable real-time notifications
Activate notifications for user
Store notification preferences
Confirm activation
Notify user of real-time updates


Sprint 5: User Engagement and Feedback Mechanisms
User
Administrator
Analytics UI
Analytics Controller
Analytics Data Entity
Complaint Box UI
Complaint Controller
Complaint Entity
View Engagement Statistics
Request engagement data
Fetch likes, shares, comments, followers
Return engagement data
Display data in dashboard format (charts/graphs)
Submit complaint or feedback
Forward complaint details
Save complaint securely
Confirm secure storage
Confirm complaint submission
Notify administrator of new complaint
Acknowledge receipt of complaint
View analytics dashboard
Request to view analytics dashboard
Retrieve and process engagement metrics
Provide processed data for dashboard
Render analytics with graphs/charts
User
Administrator
Analytics UI
Analytics Controller
Analytics Data Entity
Complaint Box UI
Complaint Controller
Complaint Entity


Sprint 6: Notifications and Moderation Features
User
Administrator
Notice Board UI
Notice Board Controller
Notice Entity
Report UI
Report Controller
Report Entity
Moderation UI
Moderation Controller
Access Notice Board
Request to post/edit/remove notice
Update notice board content
Confirm update
Display updated notice board
View Notice Board
Fetch current notices
Retrieve all active notices
Return notice list
Display notices to User
Report inappropriate content
Submit report details
Save report data securely
Confirm report storage
Confirm report submission
Block another user
Process block request
Confirm user block action
View submitted reports
Retrieve report list
Fetch all pending reports
Return report data
Display reports to Admin
Take action (warn/block/delete content)
Process admin action
Update report status and take action
Confirm action taken
Notify Admin of successful action