

Part two of report

Use case description:

Use Case 01

ID	UC-01
Use-Case Name	Register
Goal	To allow a new user to create an account in the system.
Initiator	User
Pre-condition(s)	User is not registered.
Post-condition(s)	User account is created and stored in the system.
Main Success Scenario	1. User opens the registration page. 2. User enters required information. 3. System validates and creates an account. 4. User is successfully registered.
Alternative or Unsuccessful Scenarios	- User enters invalid or incomplete data → system shows error message. - User already registered → system notifies user.

Use Case 02

ID	UC-02
Use-Case Name	Set location
Goal	To set the user's current location for group and post relevance.
Initiator	User
Pre-condition(s)	User is registered and logged in.
Post-condition(s)	Location data is saved in the user's profile.
Main Success Scenario	1. User accesses location settings. 2. User selects or shares their location. 3. System updates user profile with location.
Alternative or Unsuccessful Scenarios	- User denies location access → system prompts to manually enter location.

Use Case 03

ID	UC-03
Use-Case Name	Join local group
Goal	To allow users to join a local community group.
Initiator	User
Pre-condition(s)	User has set their location and is logged in.

Post-condition(s)	User becomes a member of the selected local group.
Main Success Scenario	1. User views nearby groups. 2. User sends a join request. 3. Group admin reviews and approves the request. 4. User is added to the group.
Alternative or Unsuccessful Scenarios	- Request rejected by group admin. - User tries to join multiple groups beyond limit → system shows warning.

Use Case 04

ID	UC-04
Use-Case Name	Provide interests info
Goal	To let the user share their interests for better content recommendations.
Initiator	User
Pre-condition(s)	User is registered and logged in.
Post-condition(s)	Interests are stored in user profile.
Main Success Scenario	1. User accesses interests section. 2. User selects preferred categories/interests. 3. System saves and uses interests to filter content.

Alternative or Unsuccessful Scenarios	- User skips this step → system applies general content.
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Use Case 05

ID	UC-05
Use-Case Name	Choose post visibility
Goal	To control who can see the user's post (public, group, etc).
Initiator	User
Pre-condition(s)	User is logged in and ready to create a post.
Post-condition(s)	Visibility setting is saved with the post.
Main Success Scenario	1. User creates a post. 2. User selects visibility option (e.g., public, group only). 3. Post is saved with chosen visibility.
Alternative or Unsuccessful Scenarios	- No visibility selected → system applies default setting.

Use Case 06

ID	UC-06
Use-Case Name	Search for groups
Goal	To allow the user to search for existing local or interest-based groups.

Initiator	User
Pre-condition(s)	User is logged in and has set location.
Post-condition(s)	List of matching groups is displayed to the user.
Main Success Scenario	1. User accesses group search feature. 2. User enters keywords or filters. 3. System displays relevant groups.
Alternative or Unsuccessful Scenarios	- No groups match criteria → system shows "no results found".

Use Case 07

ID	UC-07
Use-Case Name	Find a group page
Goal	To navigate to a specific group's page and view its details.
Initiator	User
Pre-condition(s)	User is logged in and group exists.
Post-condition(s)	Group page is displayed with relevant info.
Main Success Scenario	1. User clicks on a group from search or list. 2. System loads and displays group page.
Alternative or Unsuccessful Scenarios	- Group does not exist anymore → system shows error or redirect.

Use Case 08

ID	UC-08
Use-Case Name	Log in
Goal	To authenticate and access the user's account.
Initiator	User
Pre-condition(s)	User is registered.
Post-condition(s)	User is logged in and session is created.
Main Success Scenario	1. User enters email/username and password. 2. System verifies credentials. 3. User is logged in.
Alternative or Unsuccessful Scenarios	- Invalid credentials → show error. - Account blocked → show message.

Use Case 09

ID	UC-09
Use-Case Name	Post item/service
Goal	To allow users to post items or services they want to offer.
Initiator	User
Pre-condition(s)	User is logged in and has joined a group.

Post-condition(s)	Post is visible to others based on chosen visibility.
Main Success Scenario	1. User clicks "Post item/service". 2. User fills out title, description, image, category. 3. User selects visibility. 4. System saves and publishes the post.
Alternative or Unsuccessful Scenarios	- Required info missing → prompt user to complete. - Post rejected by group rules → notify user.

Use Case 10

ID	UC-10
Use-Case Name	Post lending item
Goal	To allow users to lend (not give away) an item for temporary use.
Initiator	User
Pre-condition(s)	User is logged in and ready to post.
Post-condition(s)	Item is listed as "available for lending" in the system.
Main Success Scenario	1. User selects "Lend" option when creating post. 2. User fills in required details and duration of lending. 3. System lists item as available for lending.
Alternative or Unsuccessful Scenarios	- User forgets to define return terms → system prompts. -

	Lending not allowed in group rules → system blocks post.
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Use Case 11

ID	UC-11
Use-Case Name	Post thank-you message
Goal	To allow a user to express gratitude after receiving an item or service.
Initiator	User
Pre-condition(s)	User has received an item/service through the platform.
Post-condition(s)	Thank-you message is posted and visible to the recipient and others.
Main Success Scenario	1. User navigates to the relevant post or user profile. 2. User writes and submits a thank-you message. 3. System publishes the message.
Alternative or Unsuccessful Scenarios	- Message contains inappropriate content → system rejects or flags.

Use Case 12

ID	UC-12
Use-Case Name	Post community events
Goal	To allow users to share or promote local community events.

Initiator	User
Pre-condition(s)	User is logged in and has permissions to post.
Post-condition(s)	Community event post is visible to target audience.
Main Success Scenario	1. User creates a new community event post. 2. User enters event details (date, location, description). 3. System saves and displays the post.
Alternative or Unsuccessful Scenarios	- Missing required info → system requests completion. - Event not approved by admin → post is hidden.

Use Case 13

ID	UC-13
Use-Case Name	Bookmark a post
Goal	To allow users to save posts for future reference.
Initiator	User
Pre-condition(s)	User is logged in.
Post-condition(s)	Post is added to user's bookmarked list.

Main Success Scenario	1. User views a post. 2. User clicks the bookmark/save icon. 3. System adds post to user's saved posts.
Alternative or Unsuccessful Scenarios	- Post is deleted later → system notifies or removes it from saved list.

Use Case 14

ID	UC-14
Use-Case Name	Browse local posts
Goal	To allow users to view available posts in their local area.
Initiator	User
Pre-condition(s)	User is logged in and has set location.
Post-condition(s)	Local posts are displayed.
Main Success Scenario	1. User opens “Browse Posts” section. 2. System filters and shows posts relevant to user's location.
Alternative or Unsuccessful Scenarios	- No local posts available → system shows empty result or suggests nearby areas.

Use Case 15

ID	UC-15
Use-Case Name	Comment on a post
Goal	To allow users to ask questions or interact with post owners.
Initiator	User
Pre-condition(s)	User is logged in and viewing a post.
Post-condition(s)	Comment is added to the post's comment section.
Main Success Scenario	1. User types a comment under a post. 2. User submits it. 3. System saves and displays the comment.
Alternative or Unsuccessful Scenarios	- Comment violates rules → system rejects or flags it.

Use Case 16

ID	UC-16
Use-Case Name	Give a feedback
Goal	To allow users to leave feedback on items, services, or other users.
Initiator	User
Pre-condition(s)	User is logged in and has interacted with an item/service or user.

Post-condition(s)	Feedback is stored and visible to others (if public).
Main Success Scenario	1. User opens the post or profile. 2. User writes and submits feedback. 3. System saves and displays the feedback.
Alternative or Unsuccessful Scenarios	- Feedback is flagged as inappropriate → system hides or deletes it.

Use Case 17

ID	UC-17
Use-Case Name	Start a new group
Goal	To allow users to create a new local or themed group on the platform.
Initiator	User
Pre-condition(s)	User is logged in.
Post-condition(s)	New group is created and visible (pending approval if needed).
Main Success Scenario	1. User selects "Start a new group". 2. User enters group name, location, purpose. 3. System creates group and links it to the creator.
Alternative or Unsuccessful Scenarios	- Duplicate group name → system requests a new name. - Group

	requires admin approval → system sets it to pending.
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Use Case 18

ID	UC-18
Use-Case Name	Show free local resources
Goal	To help users discover free local services or public resources.
Initiator	User
Pre-condition(s)	User is logged in and location is set.
Post-condition(s)	List of free local resources is shown.
Main Success Scenario	1. User selects “Free local resources”. 2. System fetches and displays resources based on location.
Alternative or Unsuccessful Scenarios	- No resources available → system shows empty message or invites contribution.

Use Case 19

ID	UC-19
Use-Case Name	Report bad posts
Goal	To allow users to flag inappropriate or suspicious content.

Initiator	User
Pre-condition(s)	User is logged in and viewing a post.
Post-condition(s)	Report is sent to moderators/admins for review.
Main Success Scenario	1. User clicks "Report" on a post. 2. User selects reason or writes explanation. 3. System logs the report and notifies the admin.
Alternative or Unsuccessful Scenarios	- User tries to report own post → system blocks action.

Use Case 20

ID	UC-20
Use-Case Name	Message user
Goal	To allow private communication between two users.
Initiator	User
Pre-condition(s)	Both users are registered and logged in.
Post-condition(s)	Message is sent and appears in chat inbox.
Main Success Scenario	1. User visits a post or profile. 2. User clicks "Message". 3. Message is written and sent. 4. Recipient receives it in their inbox.

Alternative or Unsuccessful Scenarios	- Messaging disabled for this post/user → system prevents access.
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Use Case 21

ID	UC-21
Use-Case Name	Choose method for delivery
Goal	To allow the user to select how the item/service will be delivered.
Initiator	User
Pre-condition(s)	User is interacting with another user about an item/service.
Post-condition(s)	Delivery method is saved and linked to the transaction.
Main Success Scenario	1. User enters the chat or item transaction page. 2. System shows delivery options (e.g., in-person, shipping). 3. User selects preferred method. 4. System confirms the choice.
Alternative or Unsuccessful Scenarios	- User tries to select unavailable method → system shows error.

Use Case 22

ID	UC-22
Use-Case Name	End chat after delivery

Goal	To allow users to close a conversation after the exchange is complete.
Initiator	User
Pre-condition(s)	Chat between users exists and delivery has occurred.
Post-condition(s)	Chat is archived or marked as completed.
Main Success Scenario	1. User opens chat. 2. User clicks "End Chat". 3. System archives the conversation and marks it as completed.
Alternative or Unsuccessful Scenarios	- User tries to end chat before delivery → system asks for confirmation.

Use Case 23

ID	UC-23
Use-Case Name	Deliver the item
Goal	To record that the item has been delivered to the recipient.
Initiator	Shipping clerk
Pre-condition(s)	Delivery task is assigned to the shipping clerk.
Post-condition(s)	Item marked as delivered in the system.

Main Success Scenario	1. Clerk accesses delivery record. 2. Marks item as delivered. 3. System updates status and notifies users.
Alternative or Unsuccessful Scenarios	- Clerk fails to deliver → marks delivery failed and informs support.

Use Case 24

ID	UC-24
Use-Case Name	Receive shipping money
Goal	To confirm receipt of shipping payment.
Initiator	Shipping clerk
Pre-condition(s)	Delivery has been scheduled with payment required.
Post-condition(s)	System marks payment as received.
Main Success Scenario	1. Clerk receives payment. 2. Confirms in the system. 3. System records the payment and updates delivery record.
Alternative or Unsuccessful Scenarios	- User refuses to pay → system flags issue and alerts admin.

Use Case 25

ID	UC-25
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Use-Case Name	Contacts customer services
Goal	To allow users to reach customer service for help or complaints.
Initiator	User
Pre-condition(s)	User is logged in.
Post-condition(s)	Inquiry or complaint is submitted to customer service.
Main Success Scenario	1. User navigates to “Contact Customer Service”. 2. User writes message or selects issue type. 3. System sends message to customer service team.
Alternative or Unsuccessful Scenarios	- Network failure → message not sent, user is notified.

Use Case 26

ID	UC-26
Use-Case Name	Help in technical issues
Goal	To assist users facing technical problems in the platform.
Initiator	Customer services
Pre-condition(s)	A technical issue is reported by a user.
Post-condition(s)	The issue is resolved or escalated if necessary.

Main Success Scenario	1. Customer service receives a technical issue report. 2. Diagnoses the issue. 3. Provides instructions or support to the user. 4. Confirms issue resolution.
Alternative or Unsuccessful Scenarios	- Issue cannot be resolved → escalated to technical team.

Use Case 27

ID	UC-27
Use-Case Name	Provide customer services
Goal	To respond to users' inquiries, complaints, or assistance requests.
Initiator	Customer services
Pre-condition(s)	User has contacted customer service.
Post-condition(s)	User receives support or a resolution.
Main Success Scenario	1. Customer service reviews user message. 2. Responds with guidance or resolution. 3. Records the support action in the system.
Alternative or Unsuccessful Scenarios	- Issue outside scope → refer user to relevant admin or department.

Use Case 28

ID	UC-28
Use-Case Name	Market for system's purpose
Goal	To promote the purpose and mission of the gift economy system.
Initiator	Customer services
Pre-condition(s)	Customer service is active and engaged with users or external platforms.
Post-condition(s)	Public awareness about the system's values is increased.
Main Success Scenario	1. Customer service prepares promotional content. 2. Shares posts or answers questions on forums or social media. 3. Tracks engagement.
Alternative or Unsuccessful Scenarios	- Miscommunication → requires clarification or correction.

Use Case 29

ID	UC-29
Use-Case Name	Chat in volunteers' group
Goal	To allow volunteers to communicate and coordinate tasks.

Initiator	Volunteer
Pre-condition(s)	Volunteer is added to a group chat.
Post-condition(s)	Messages are shared among group members.
Main Success Scenario	1. Volunteer opens the group chat. 2. Sends messages or reads updates. 3. System notifies others and logs chat.
Alternative or Unsuccessful Scenarios	- Connection lost → message not sent.

Use Case 30

ID	UC-30
Use-Case Name	Review group join requests
Goal	To approve or reject user requests to join a local group.
Initiator	Group admin
Pre-condition(s)	Users have submitted join requests.
Post-condition(s)	Requests are approved or denied.
Main Success Scenario	1. Group admin opens the join requests list. 2. Reviews user details or reason. 3. Approves or rejects the request. 4. System updates group membership.

Alternative or Unsuccessful Scenarios	- No requests pending → system shows empty list.
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Use Case 31

ID	UC-31
Use-Case Name	Remove a post on social media platforms
Goal	To remove a post shared on social platforms if it violates rules or is outdated.
Initiator	Group admin
Pre-condition(s)	The post has been shared externally and is accessible.
Post-condition(s)	The post is deleted or hidden from the platform.
Main Success Scenario	1. Admin identifies a problematic or outdated post. 2. Accesses the social media management tool. 3. Deletes the post. 4. System confirms deletion.
Alternative or Unsuccessful Scenarios	- Admin lacks permission → request sent to system manager.

Use Case 32

ID	UC-32
Use-Case Name	Monthly volunteer report
Goal	To generate a monthly report on volunteer activities.
Initiator	Group admin
Pre-condition(s)	Volunteers have performed activities during the month.
Post-condition(s)	Report is generated and saved or shared.
Main Success Scenario	1. Admin opens the report section. 2. Selects the month. 3. System compiles volunteer data. 4. Report is generated and exported.
Alternative or Unsuccessful Scenarios	- No data found → system shows "no activity" message.

Use Case 33

ID	UC-33
Use-Case Name	Monthly exchange report
Goal	To provide a summary of all exchanges made during the month.
Initiator	System manager
Pre-condition(s)	Exchange transactions exist for the selected period.

Post-condition(s)	Report is available for review or download.
Main Success Scenario	1. System manager opens report panel. 2. Chooses reporting month. 3. System generates report with stats. 4. Report is viewed or downloaded.
Alternative or Unsuccessful Scenarios	- Report fails to generate → system shows error and suggests retry.

Use Case 34

ID	UC-34
Use-Case Name	Notify admins to monitor all activity on different platforms
Goal	To ensure admins are aware of and can track platform activity.
Initiator	System manager
Pre-condition(s)	Platform activity is ongoing and requires supervision.
Post-condition(s)	Admins are notified and start monitoring.
Main Success Scenario	1. System manager sends notification to group admins. 2. Admins receive alerts (email/system message). 3. Begin reviewing activity.

Alternative or Unsuccessful Scenarios	- Admins fail to respond → system logs delay and escalates.
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Use Case 35

ID	UC-35
Use-Case Name	Remove posts in system platform
Goal	To delete inappropriate or expired posts from the platform.
Initiator	System manager
Pre-condition(s)	Post exists and violates rules or is outdated.
Post-condition(s)	Post is removed and no longer visible to users.
Main Success Scenario	1. Manager reviews reported/inactive posts. 2. Selects post(s) to remove. 3. Confirms deletion. 4. System deletes and updates view.
Alternative or Unsuccessful Scenarios	- Deletion fails → error message appears, retry suggested.

Use Case 36

ID	UC-36
Use-Case Name	Show Exchange's rules

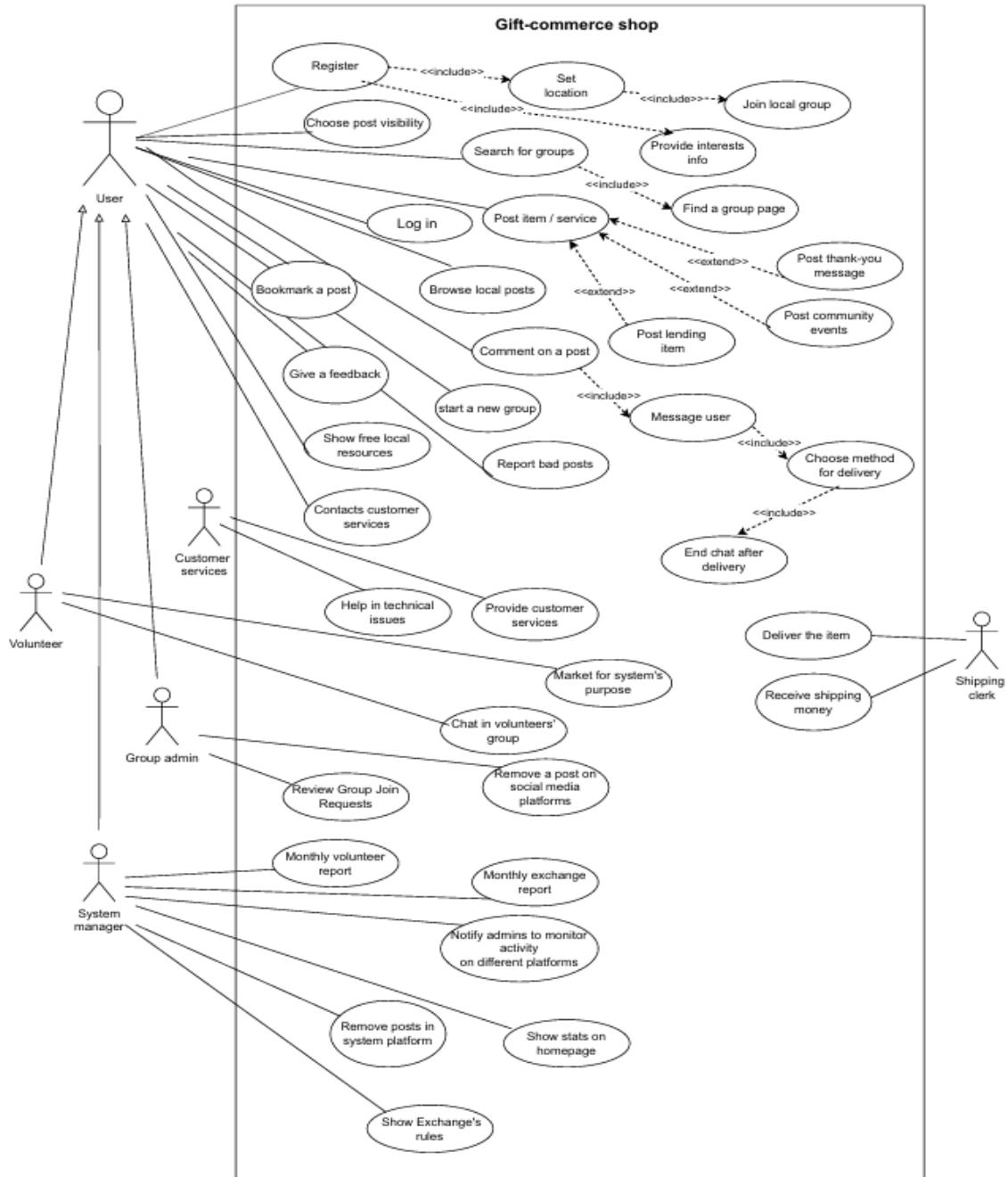
Goal	To display the rules and guidelines for participating in the gift economy platform.
Initiator	System manager
Pre-condition(s)	System has predefined exchange rules saved in the database.
Post-condition(s)	Users view the current rules.
Main Success Scenario	1. System manager updates or confirms current rules. 2. User requests to view rules. 3. System displays them on the platform.
Alternative or Unsuccessful Scenarios	- Rules content missing → system displays message: "No rules available."

Use Case 37

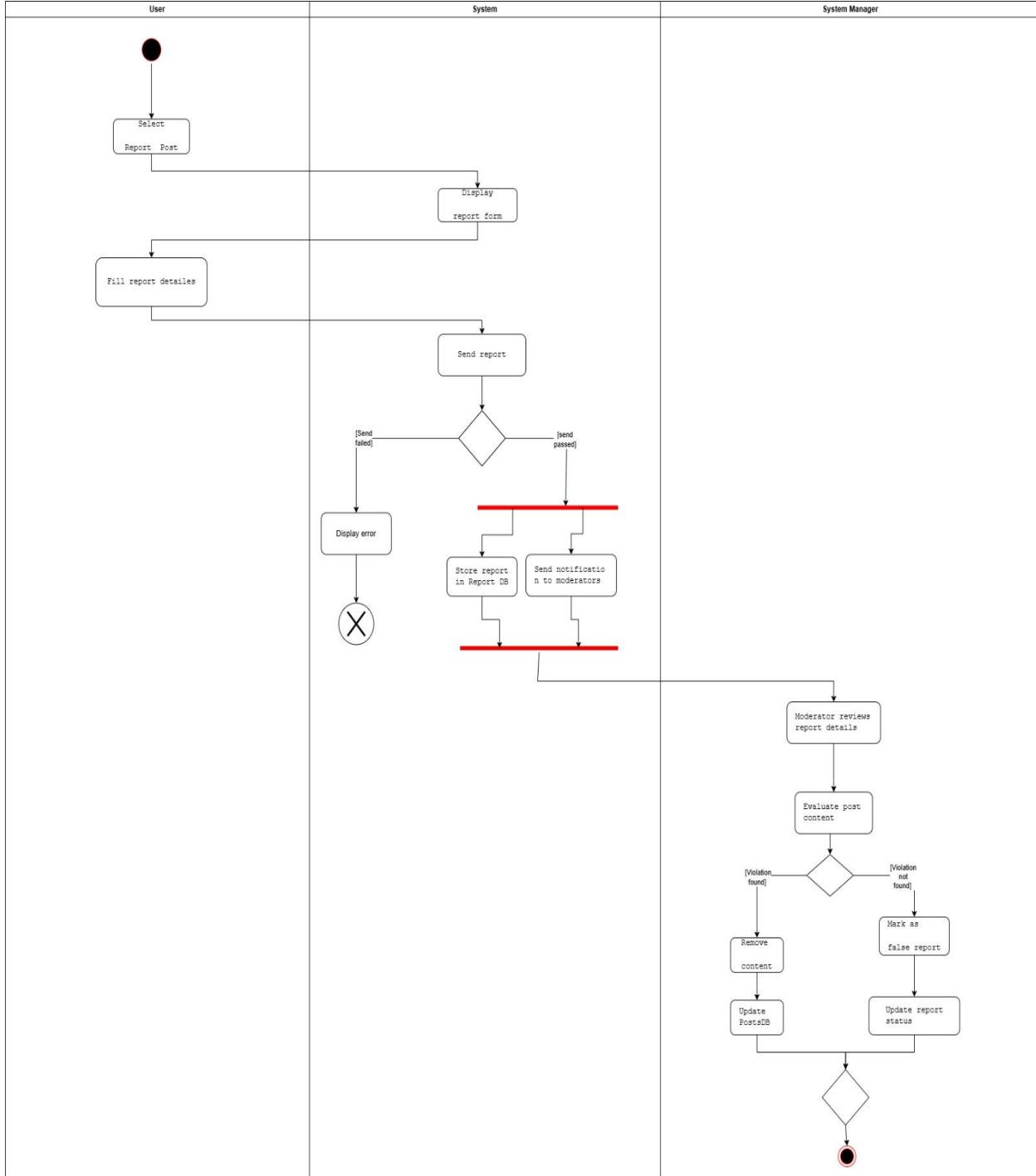
ID	UC-37
Use-Case Name	Show stats on homepage
Goal	To present system usage statistics (e.g., number of exchanges, active users) on the homepage.
Initiator	System manager
Pre-condition(s)	System has collected data and statistics.
Post-condition(s)	Homepage displays updated stats.

Main Success Scenario	1. System manager selects which statistics to show. 2. System gathers updated data. 3. Homepage is refreshed to reflect stats.
Alternative or Unsuccessful Scenarios	- No data available → default values or “No data” message shown.

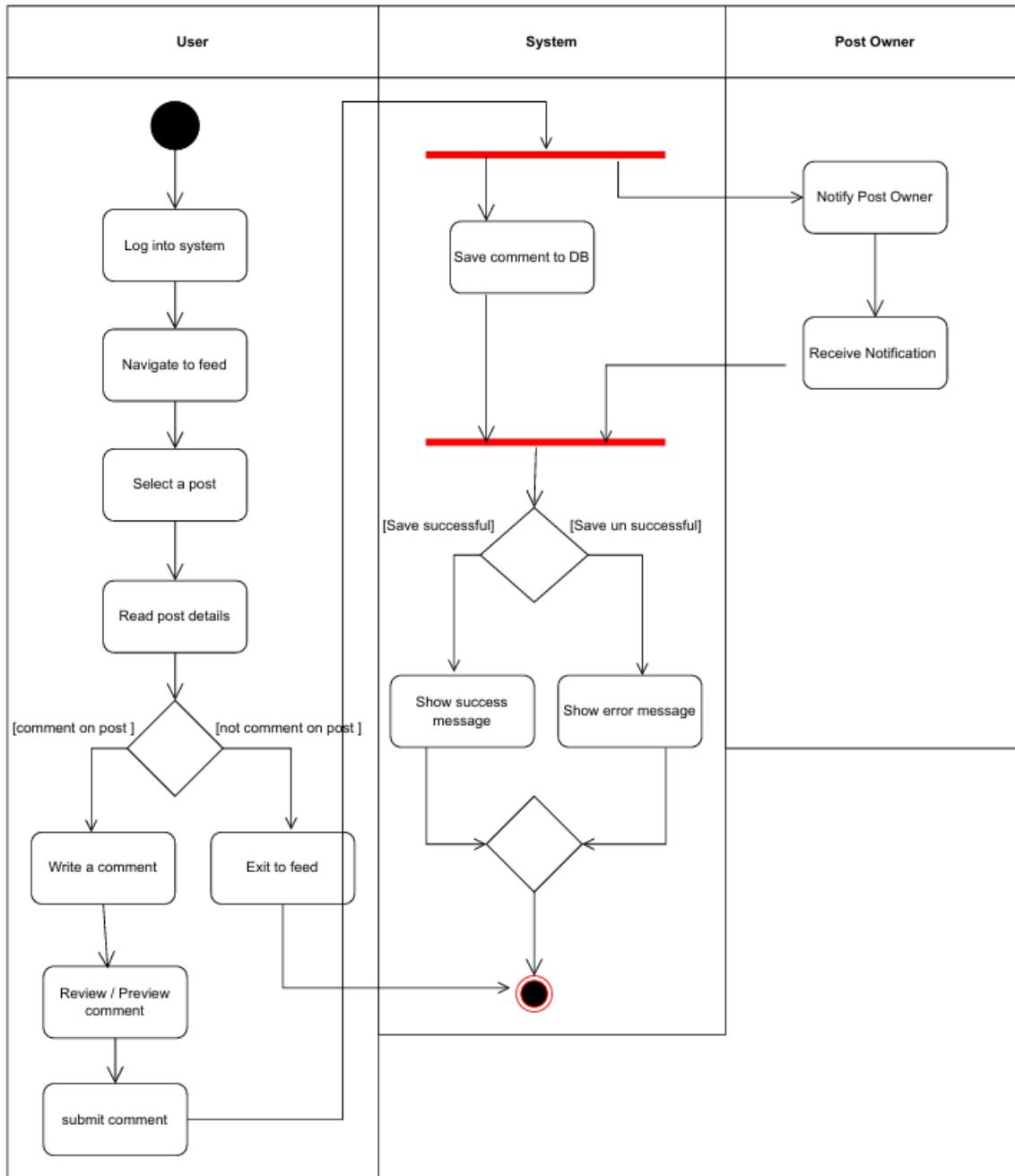
Use case Diagram :



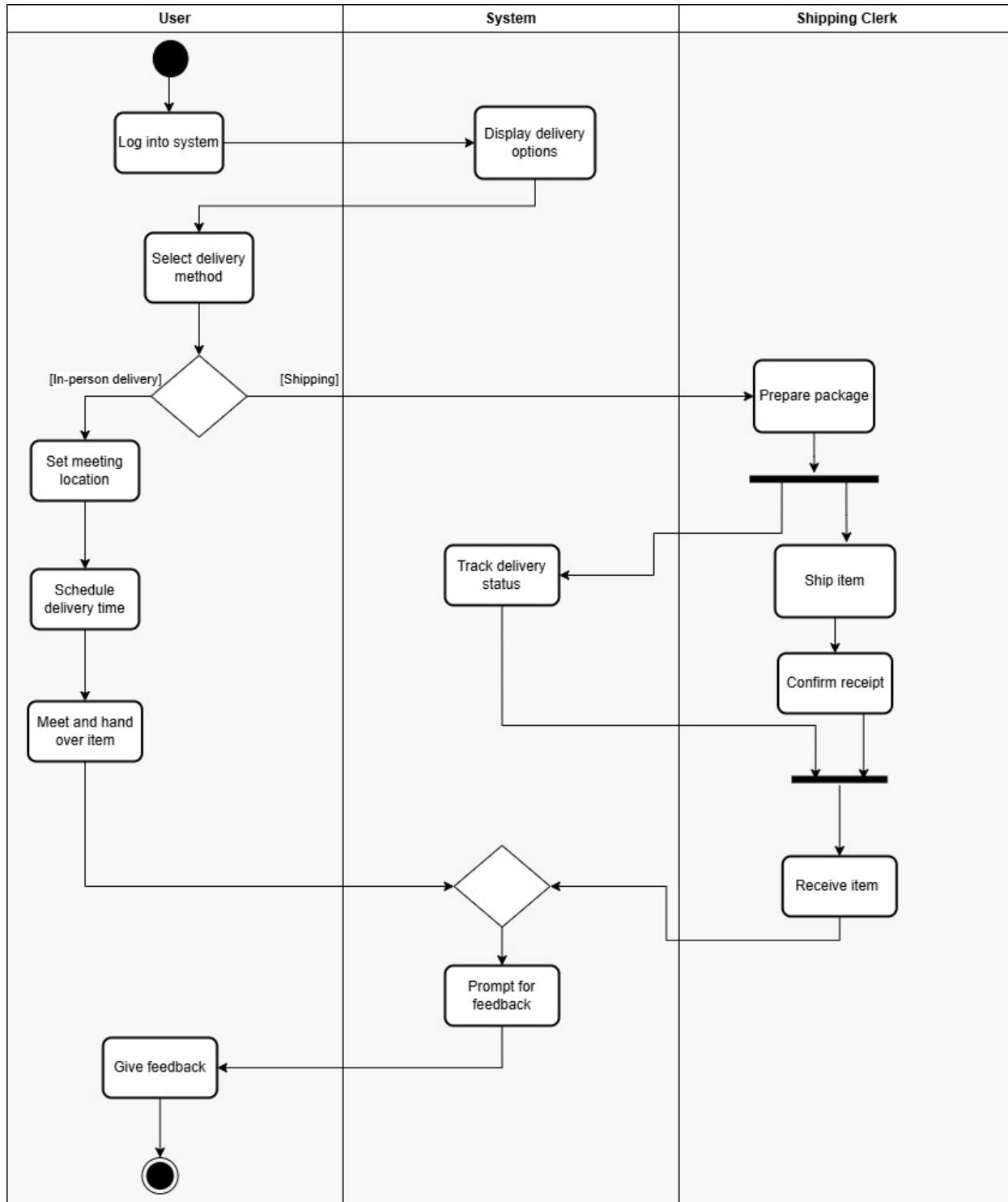
Activity diagram: report a post



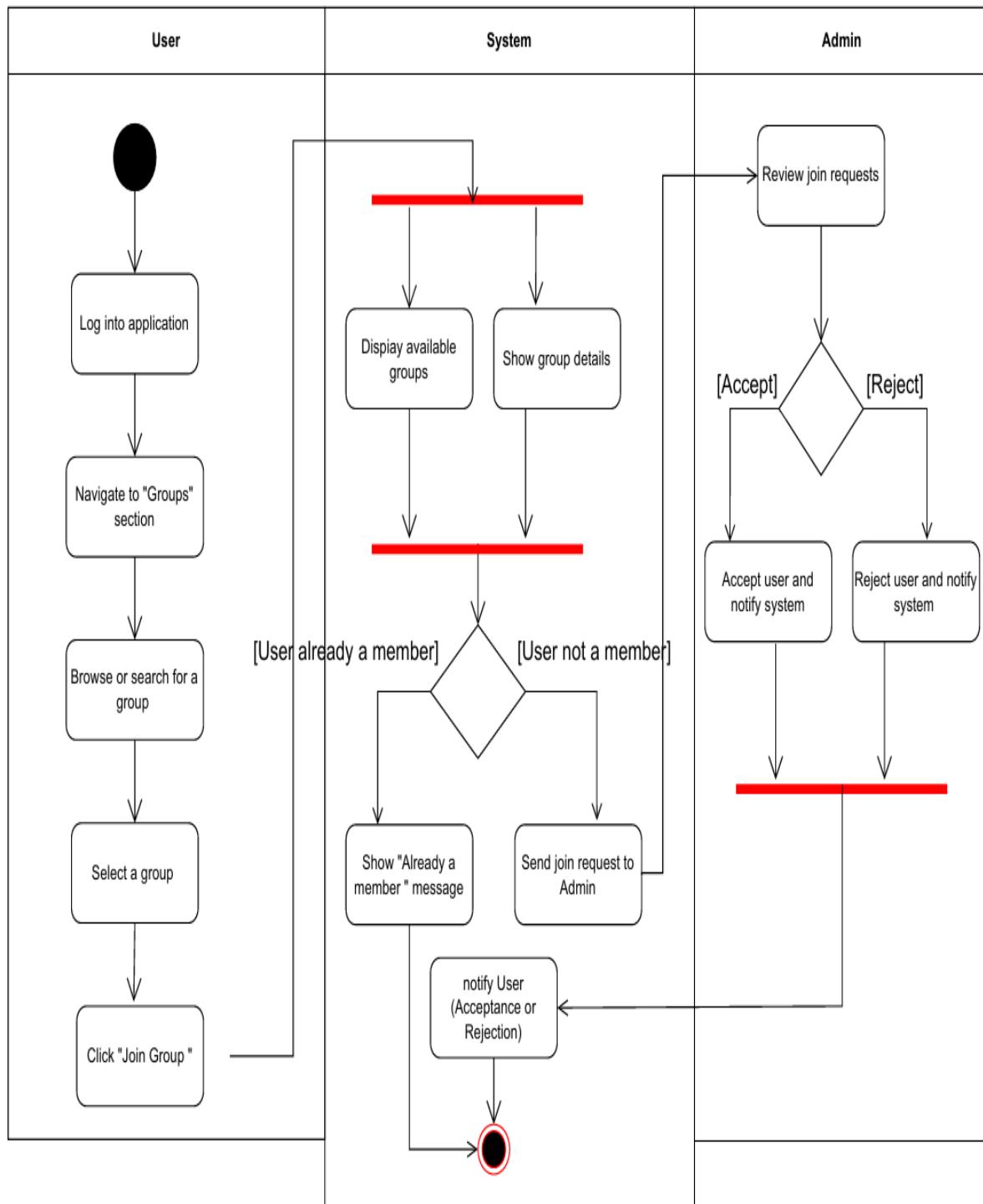
Activity diagram: comment on a post.



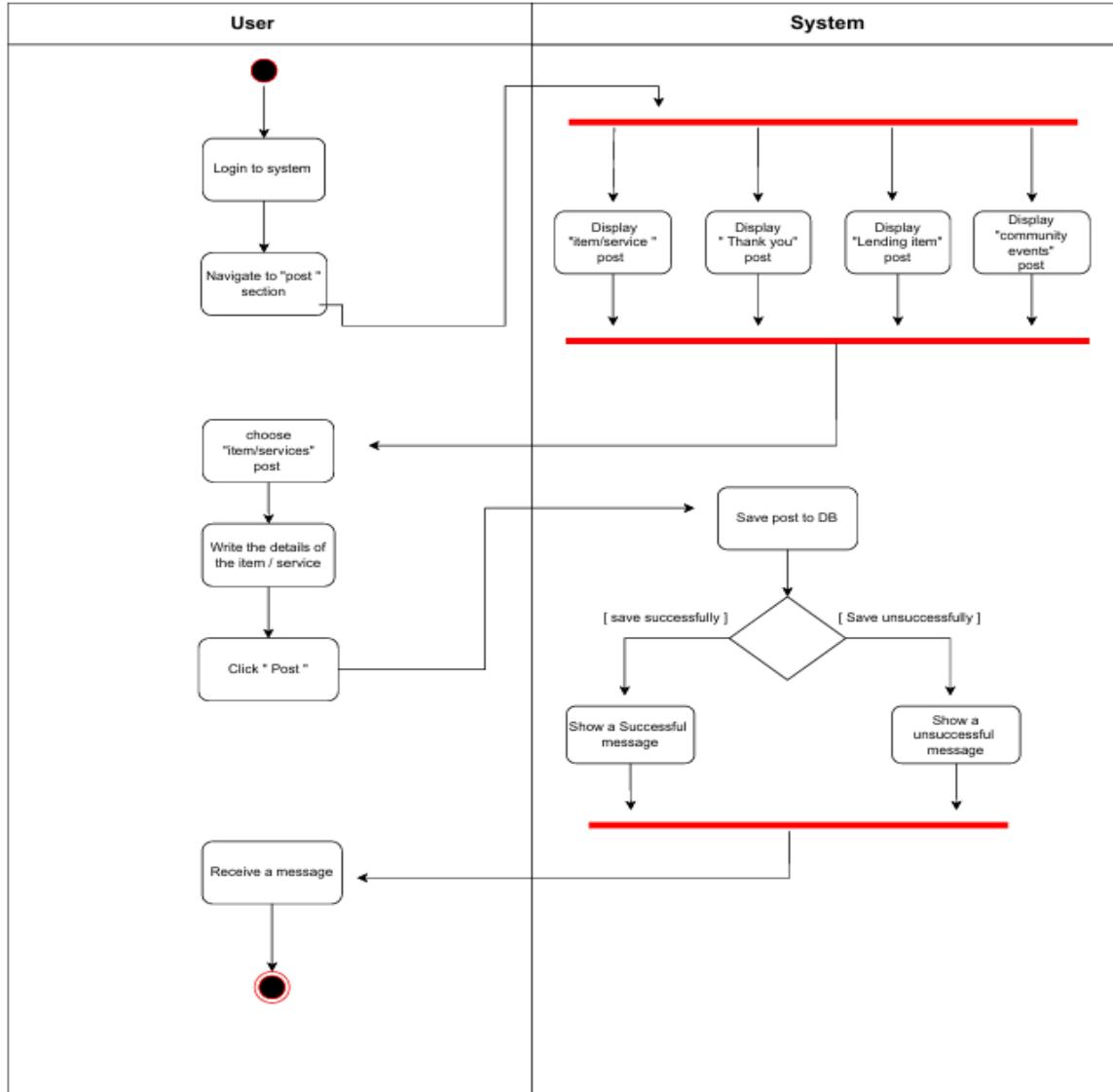
Activity diagram: delevier an item



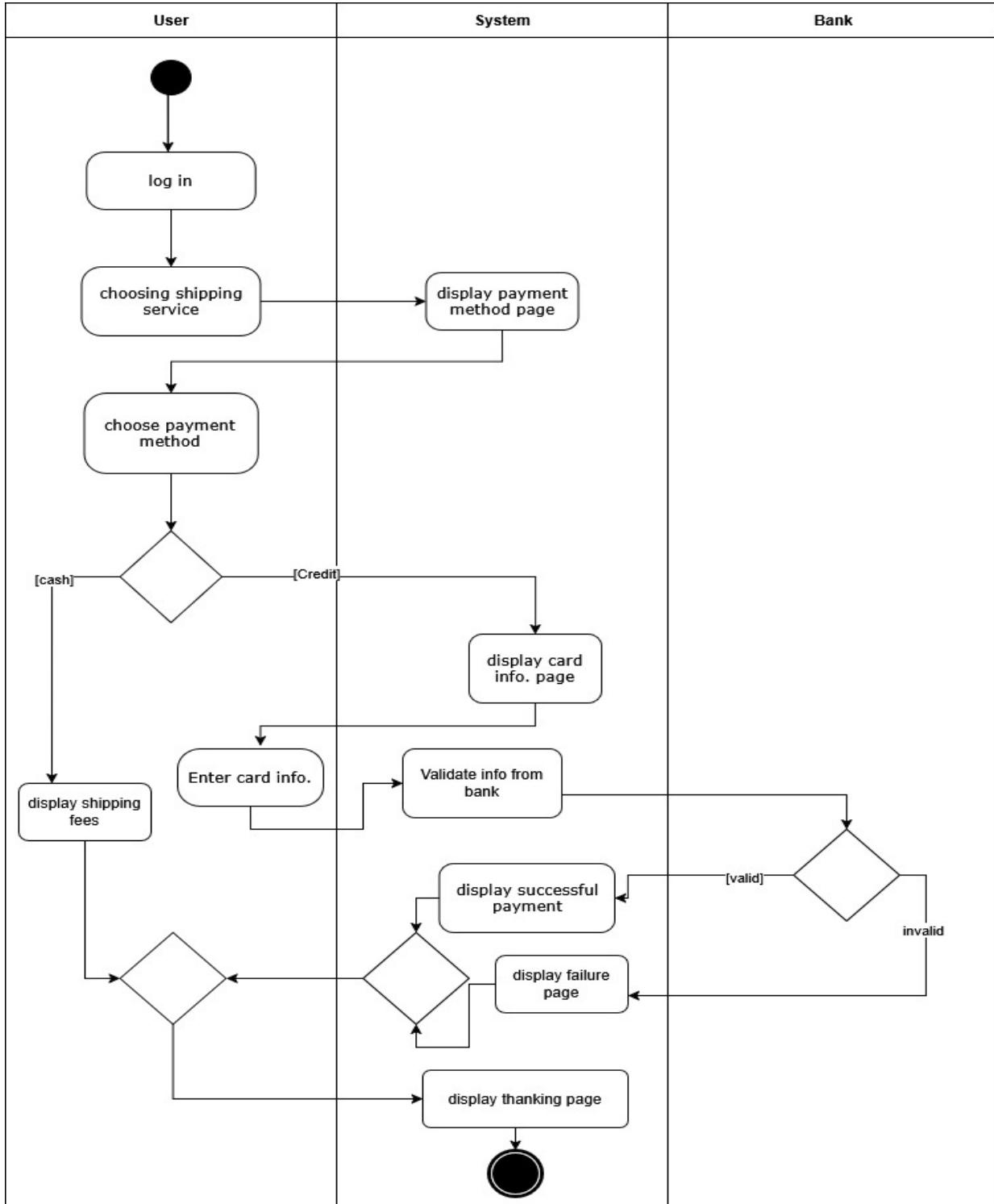
Activity diagram: join a group.



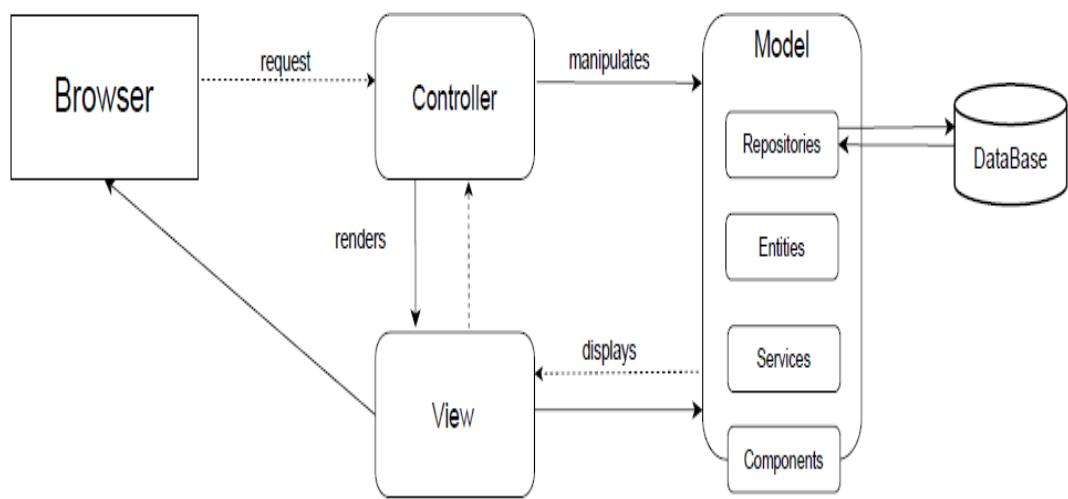
Activity diagram: post an item.



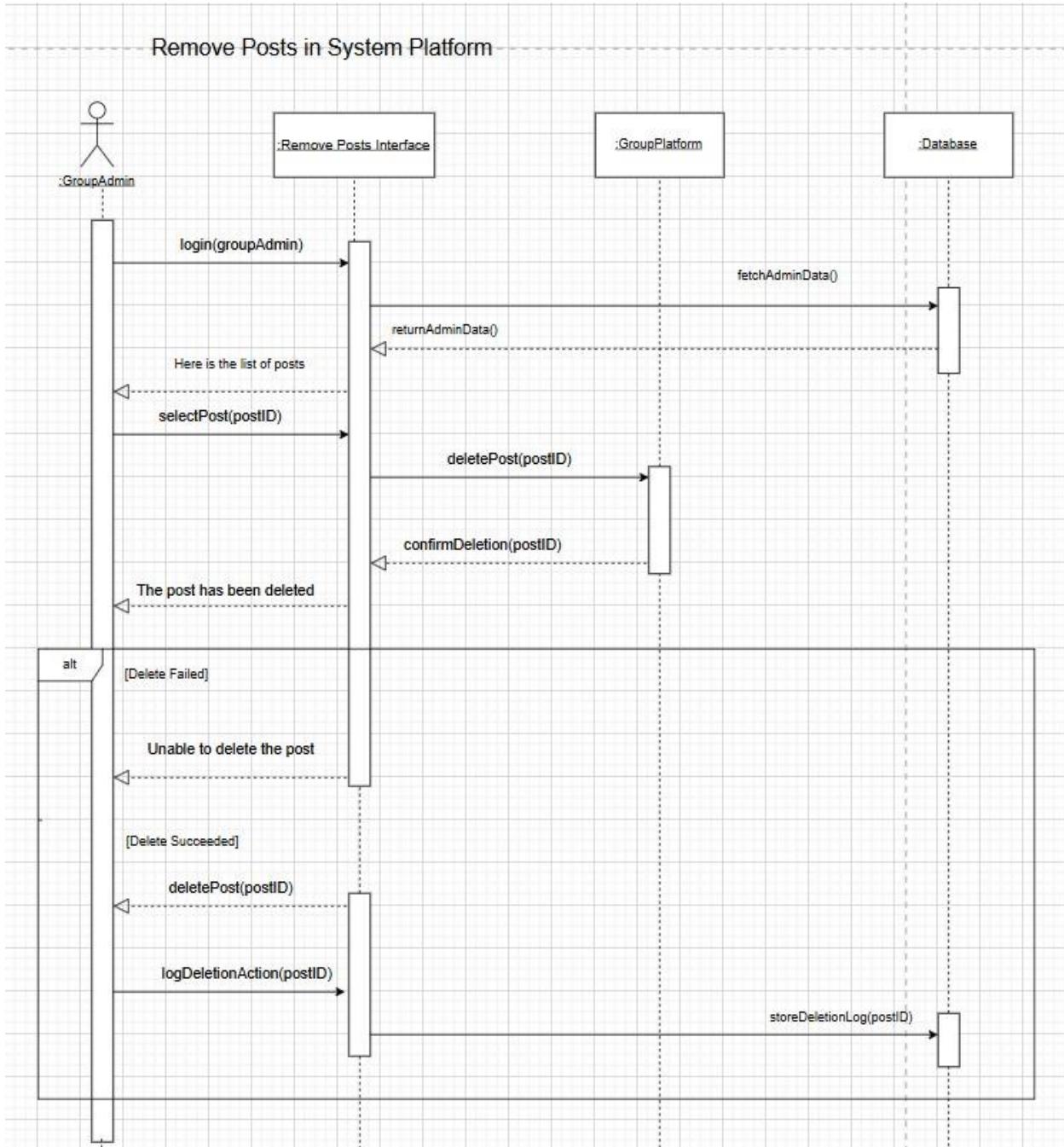
Activity diagram: shipping method

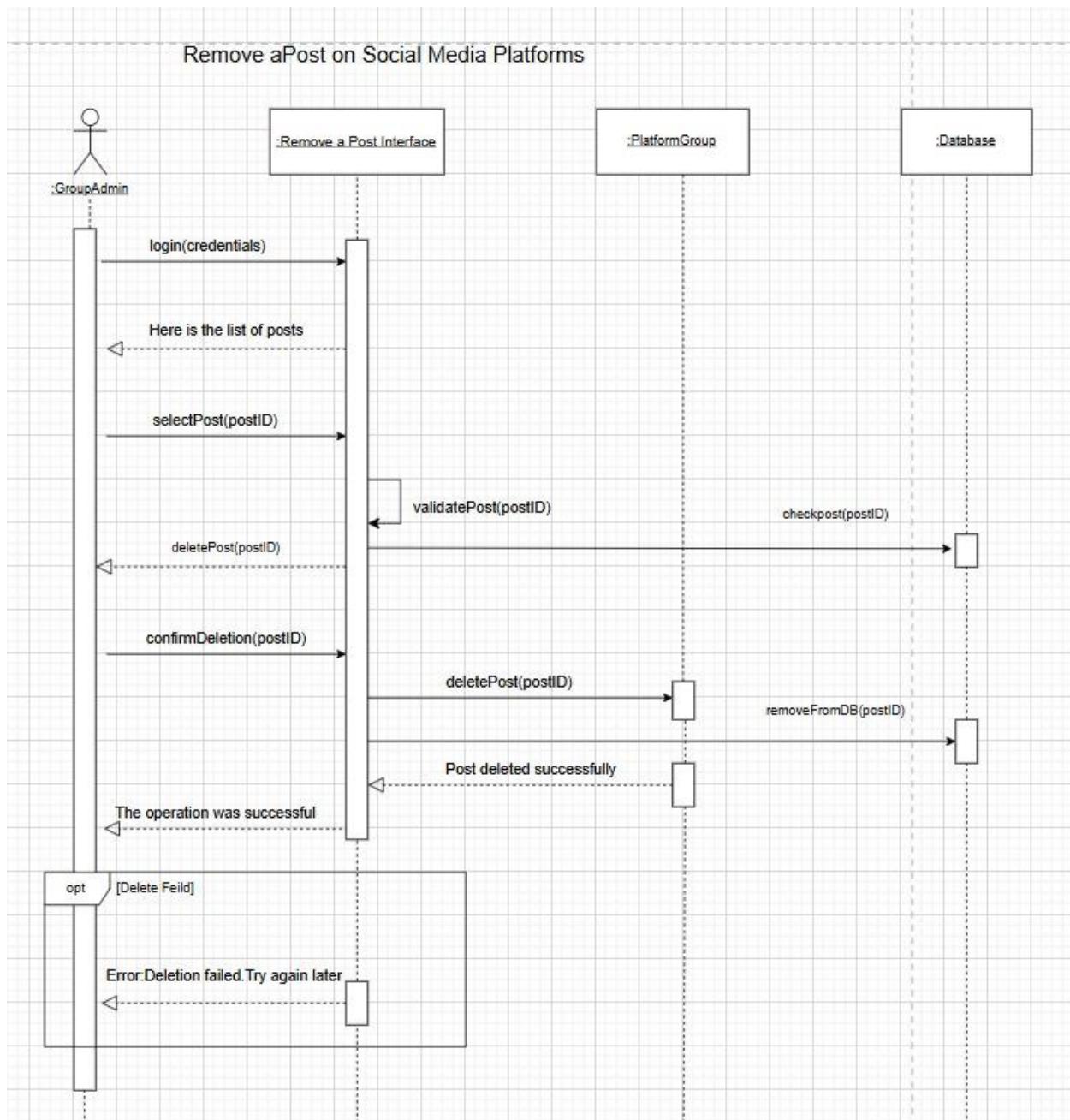


System architecture diagram: MVC

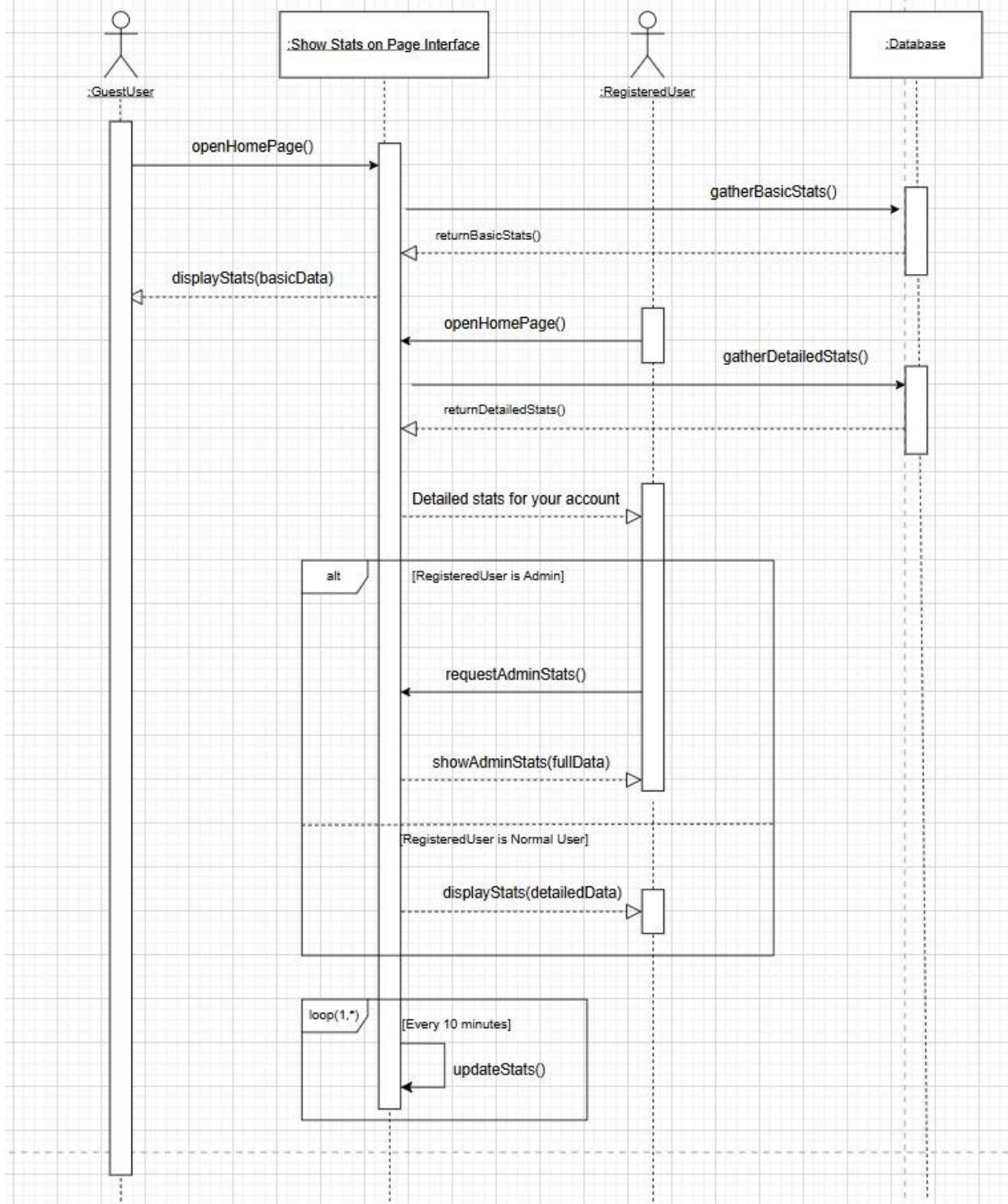


Sequence diagrams:

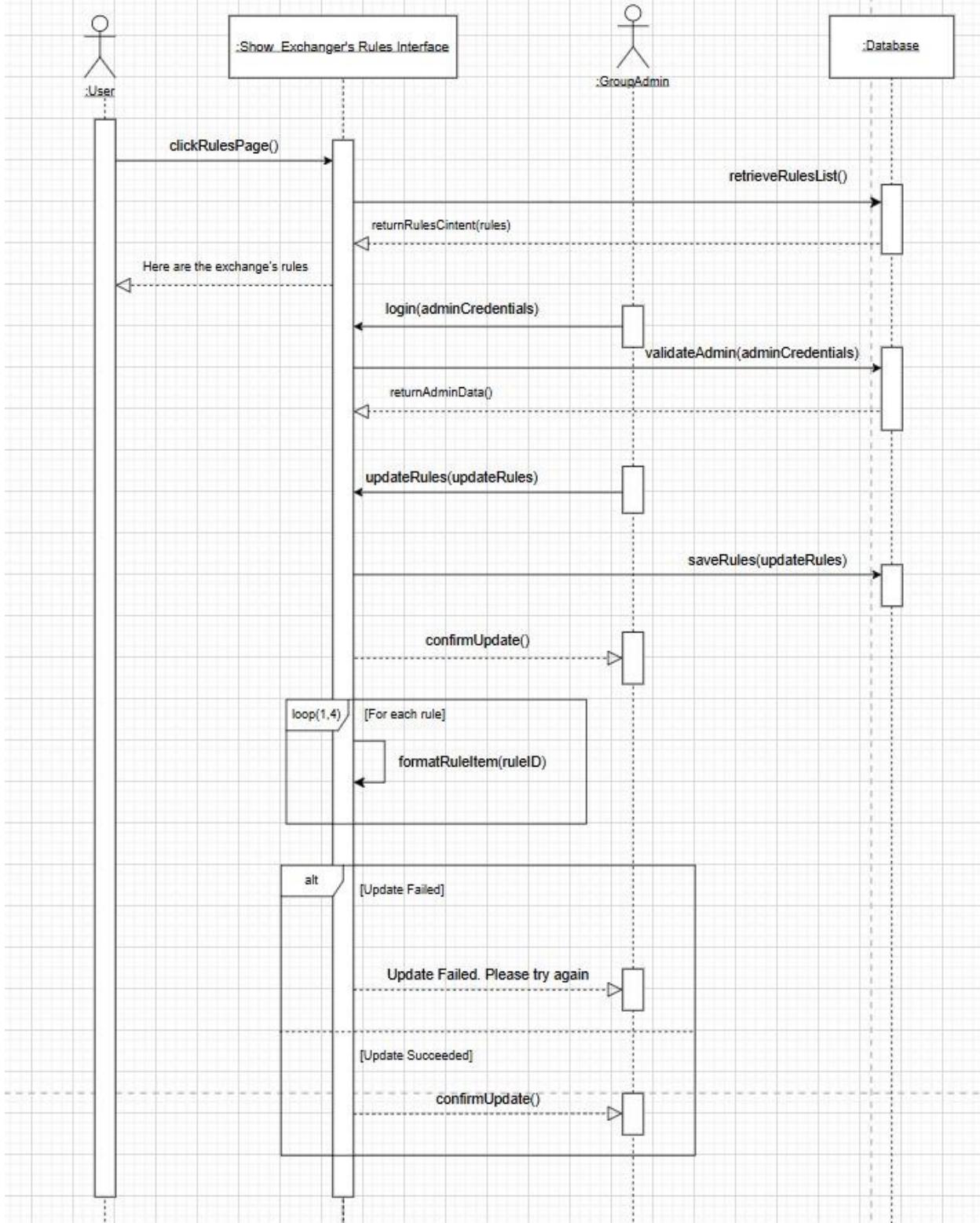


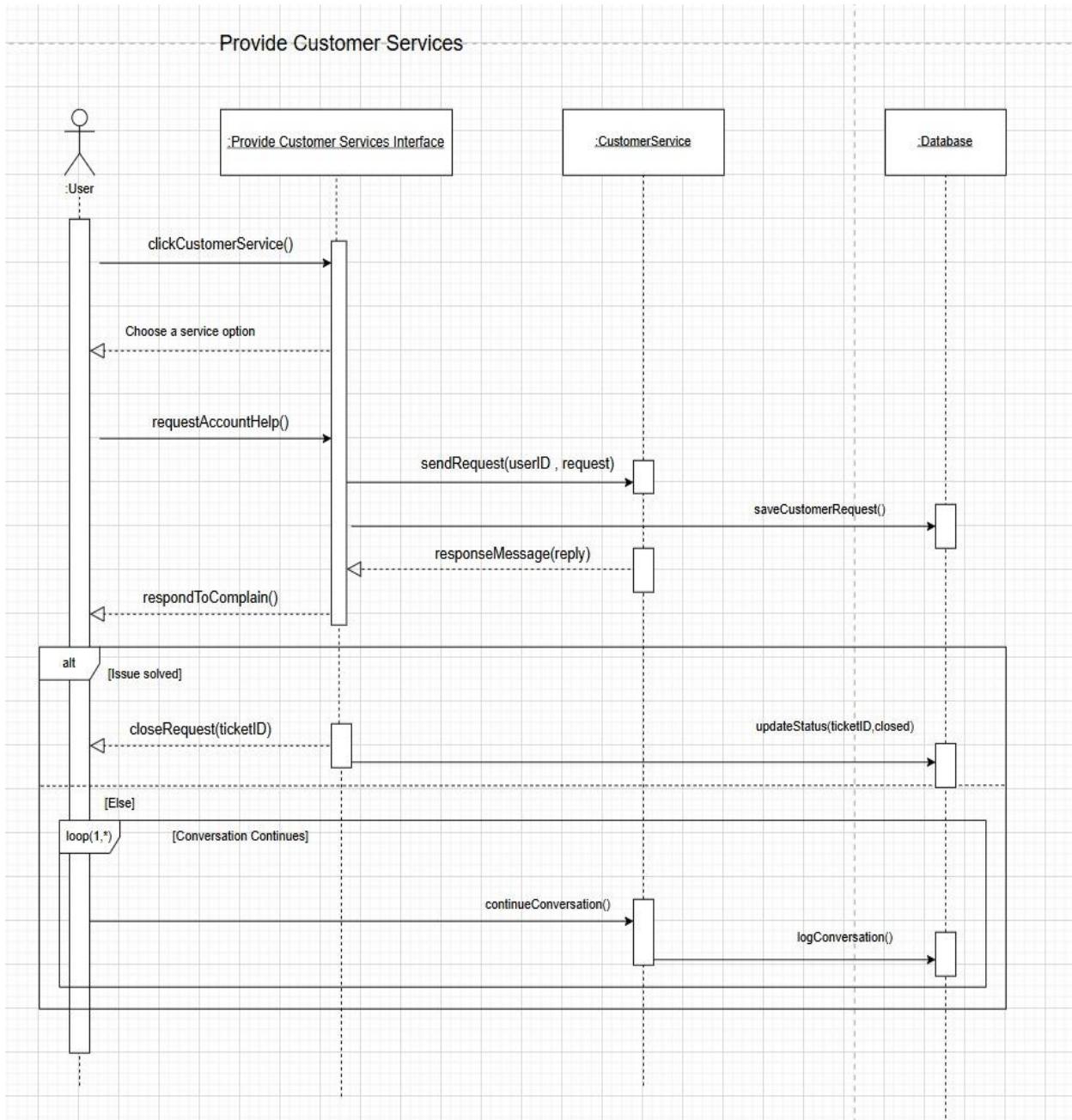


Show Stats on Page

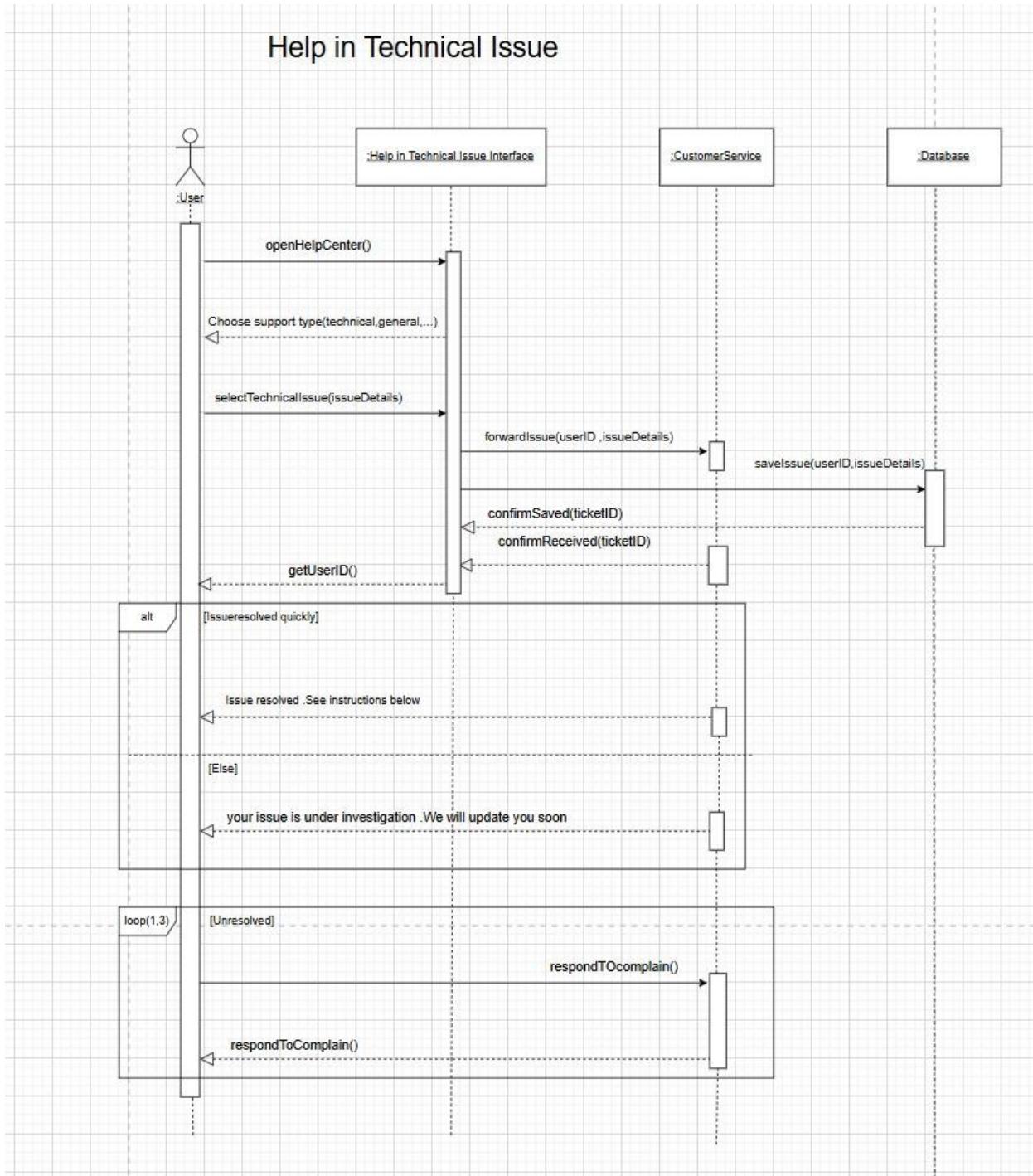


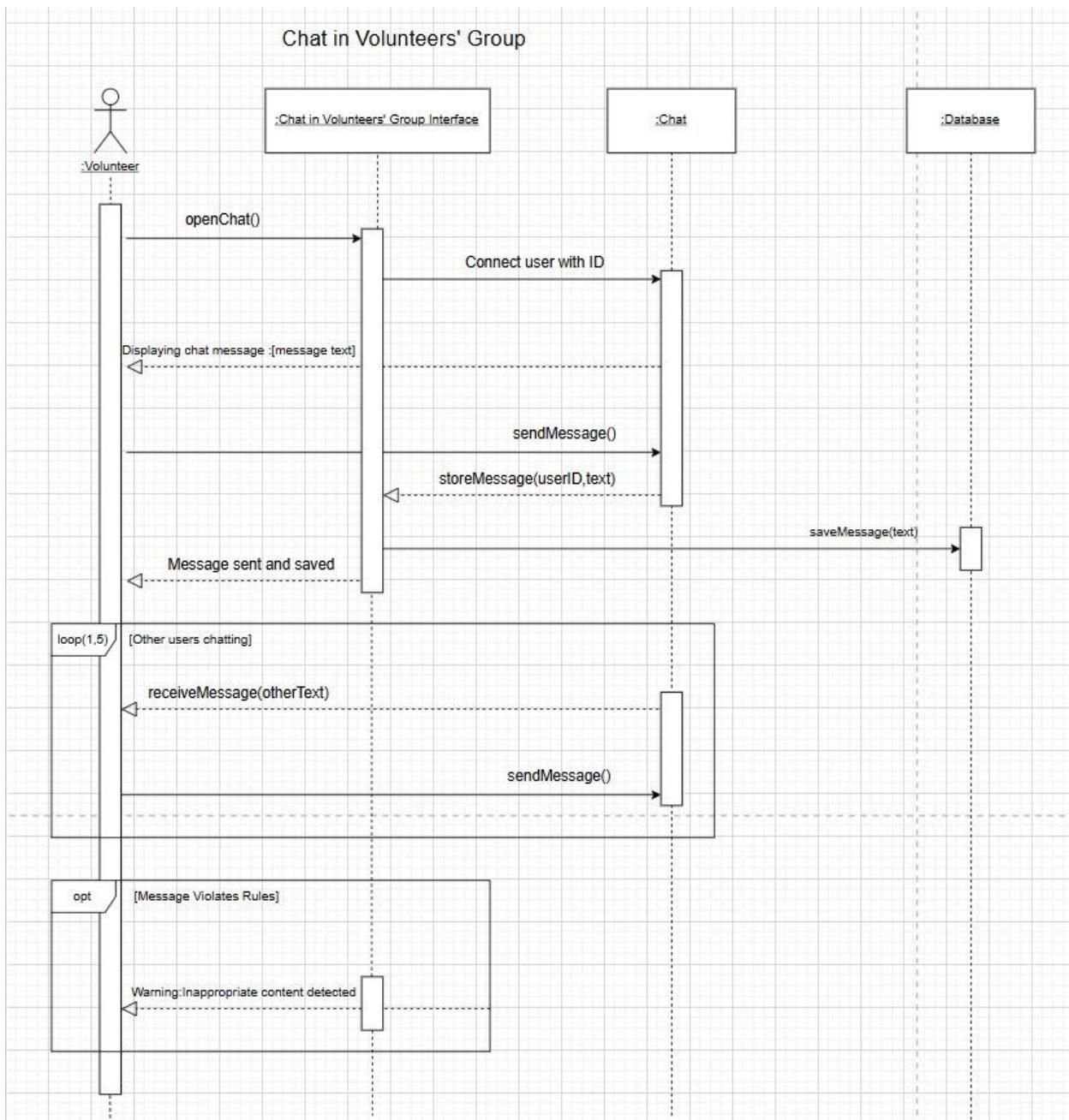
Show Exchanger's Rules

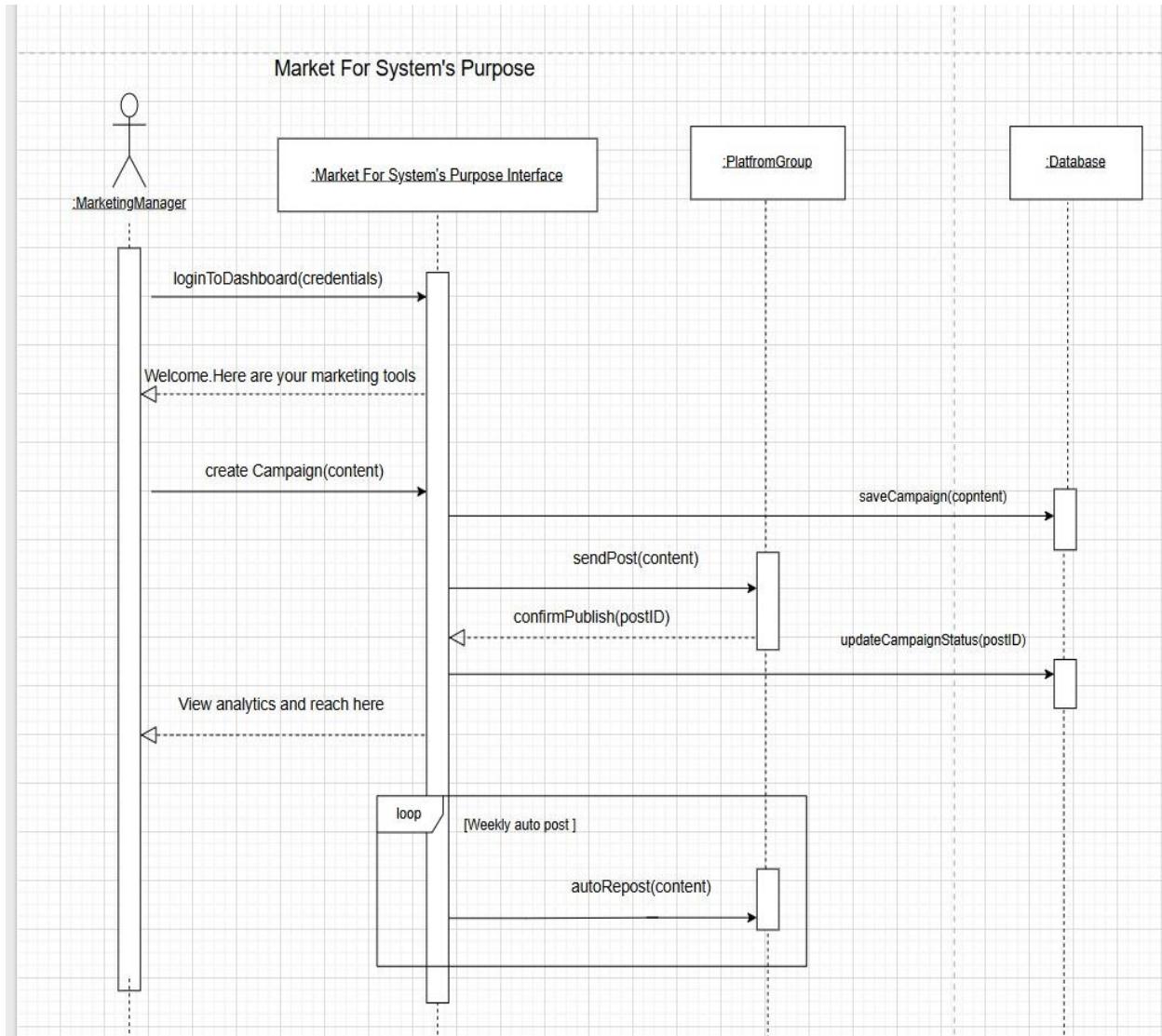


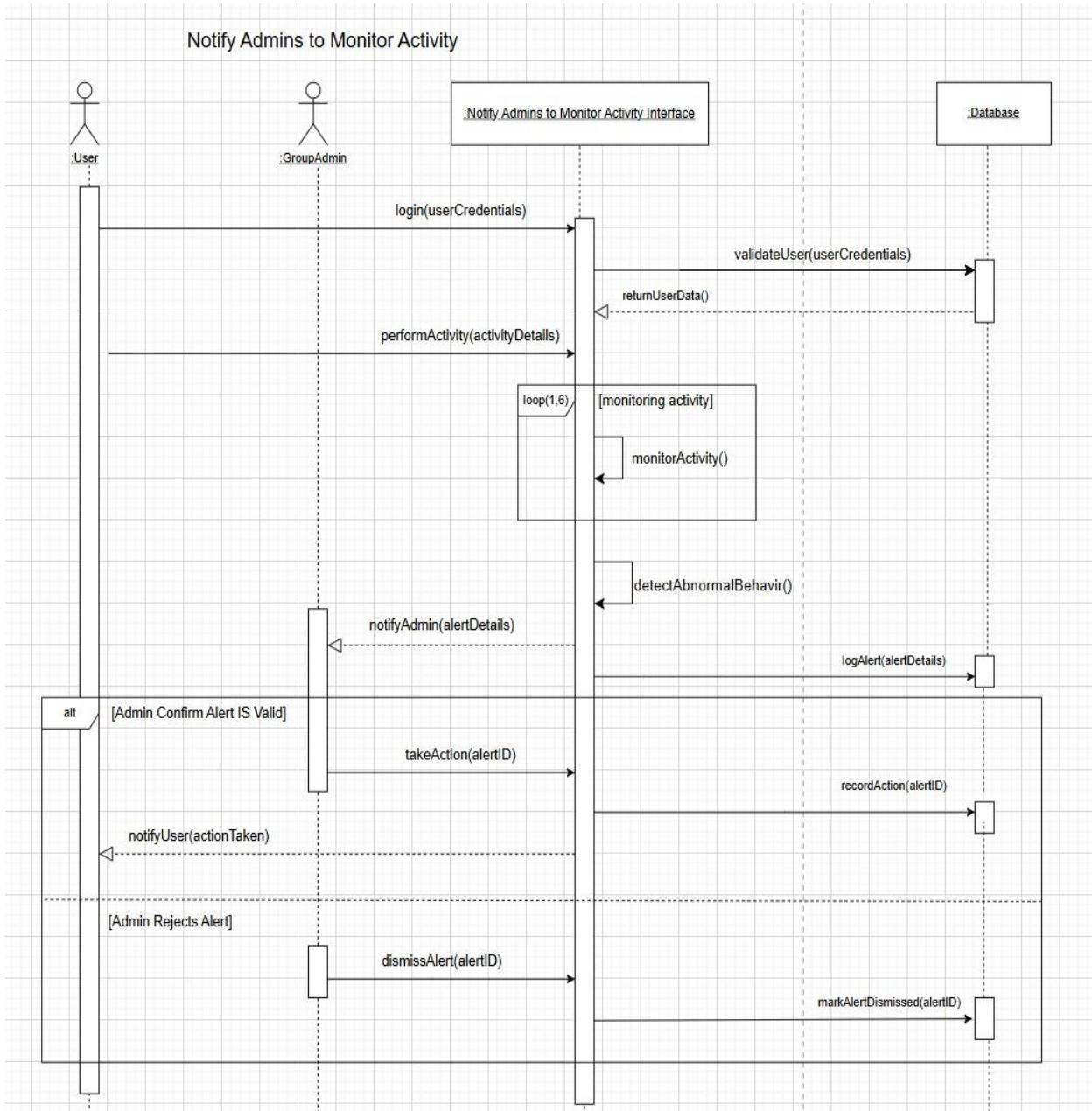


Help in Technical Issue

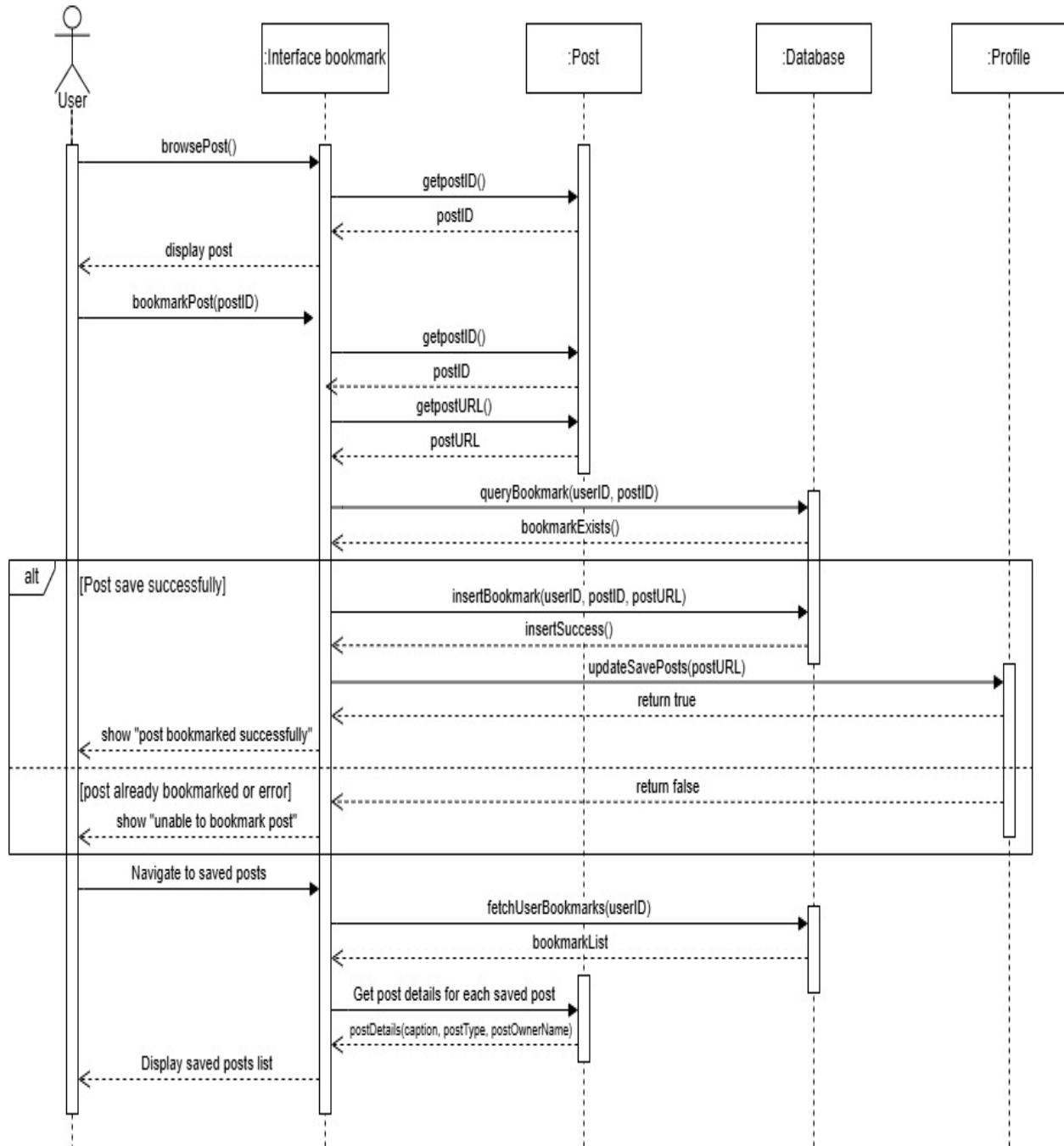




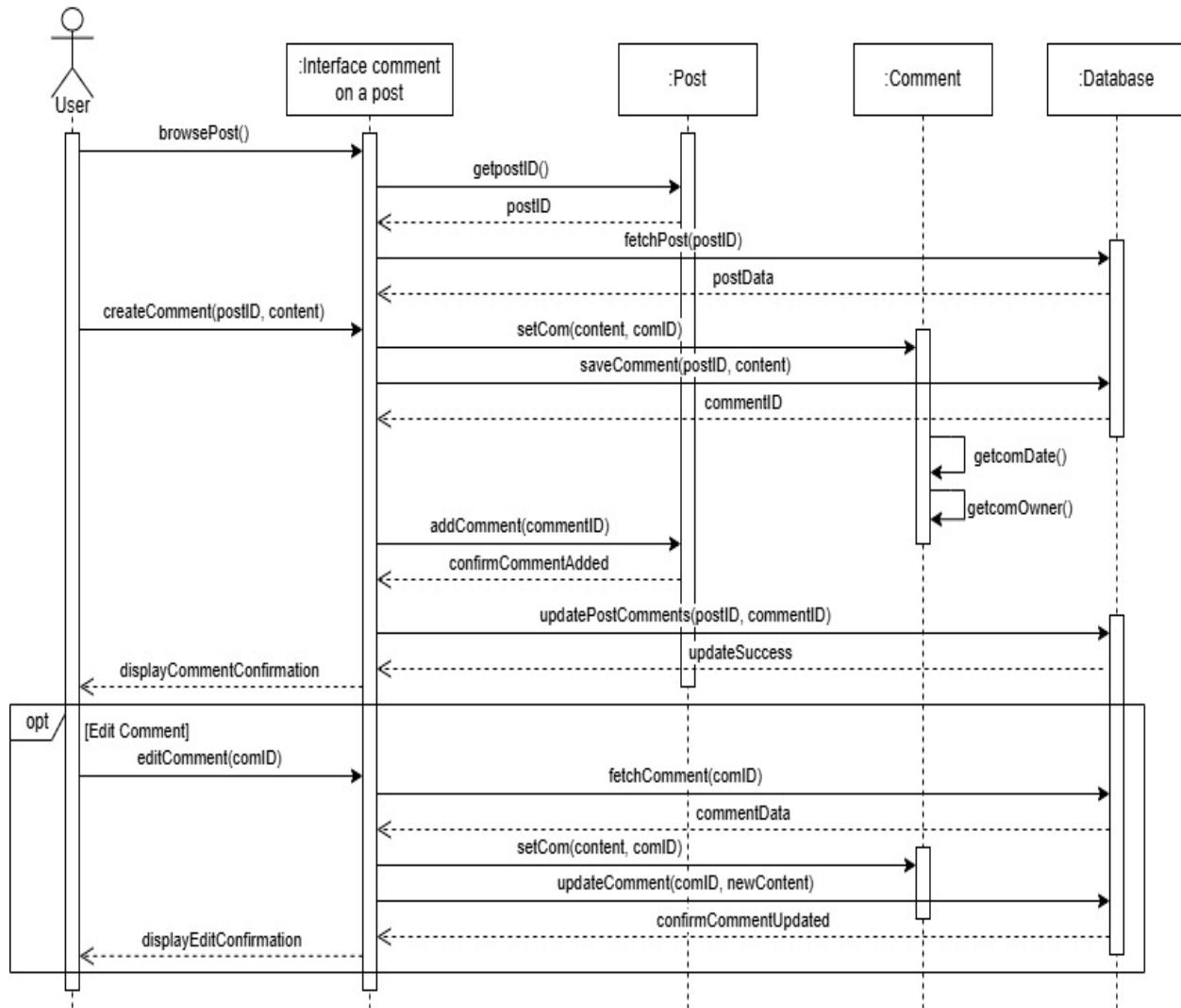




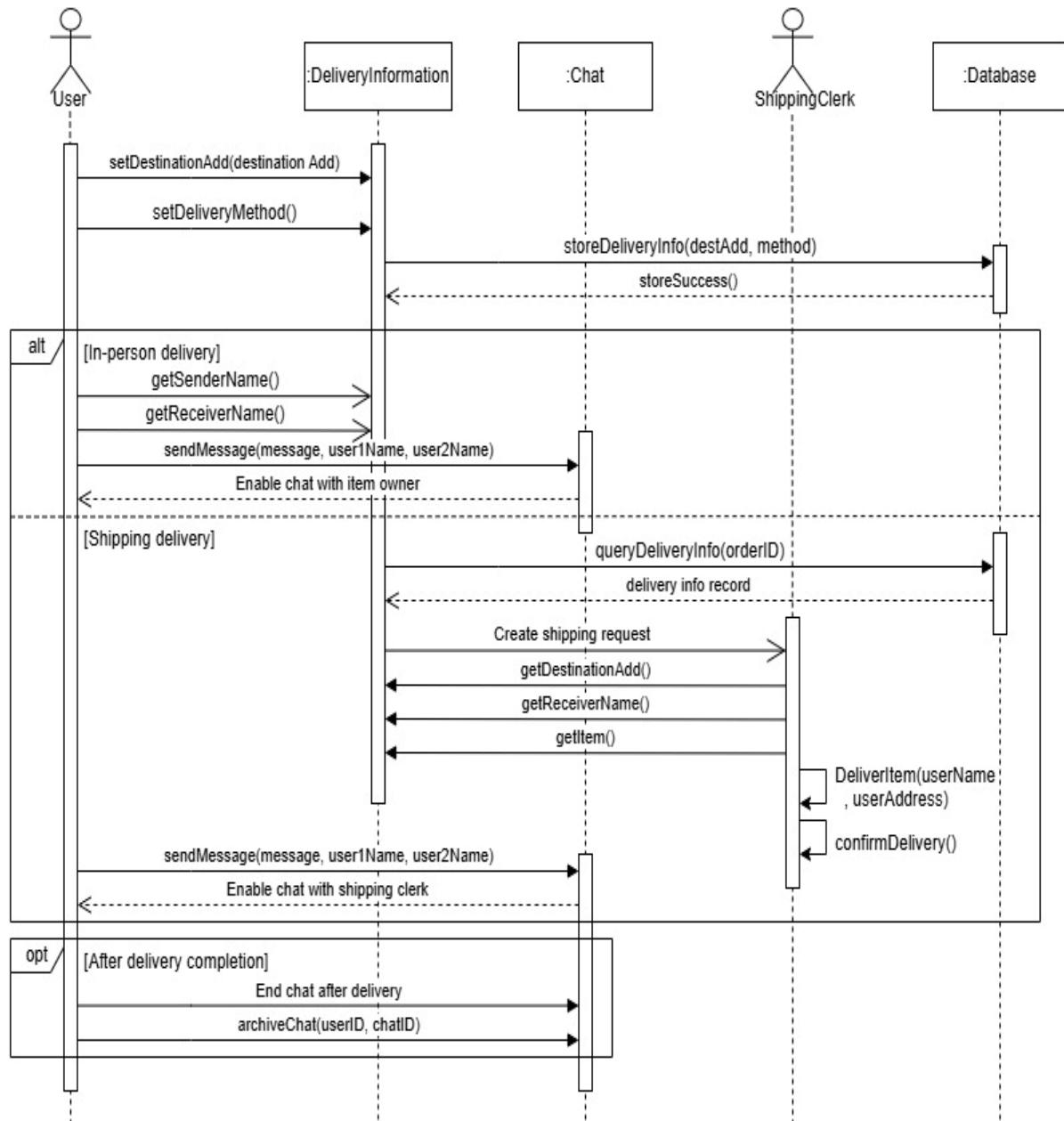
Bookmark a post



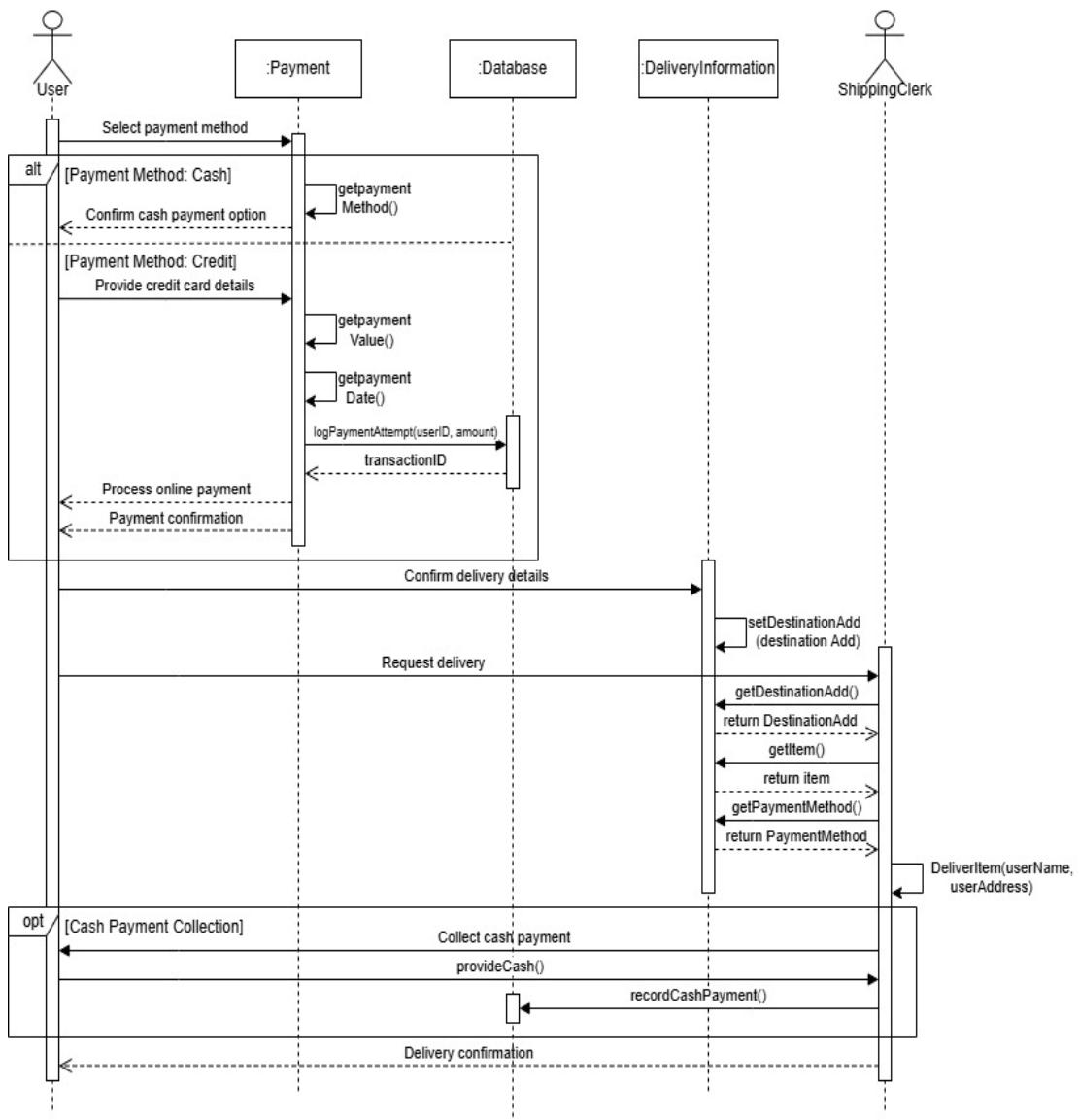
Comment on a post



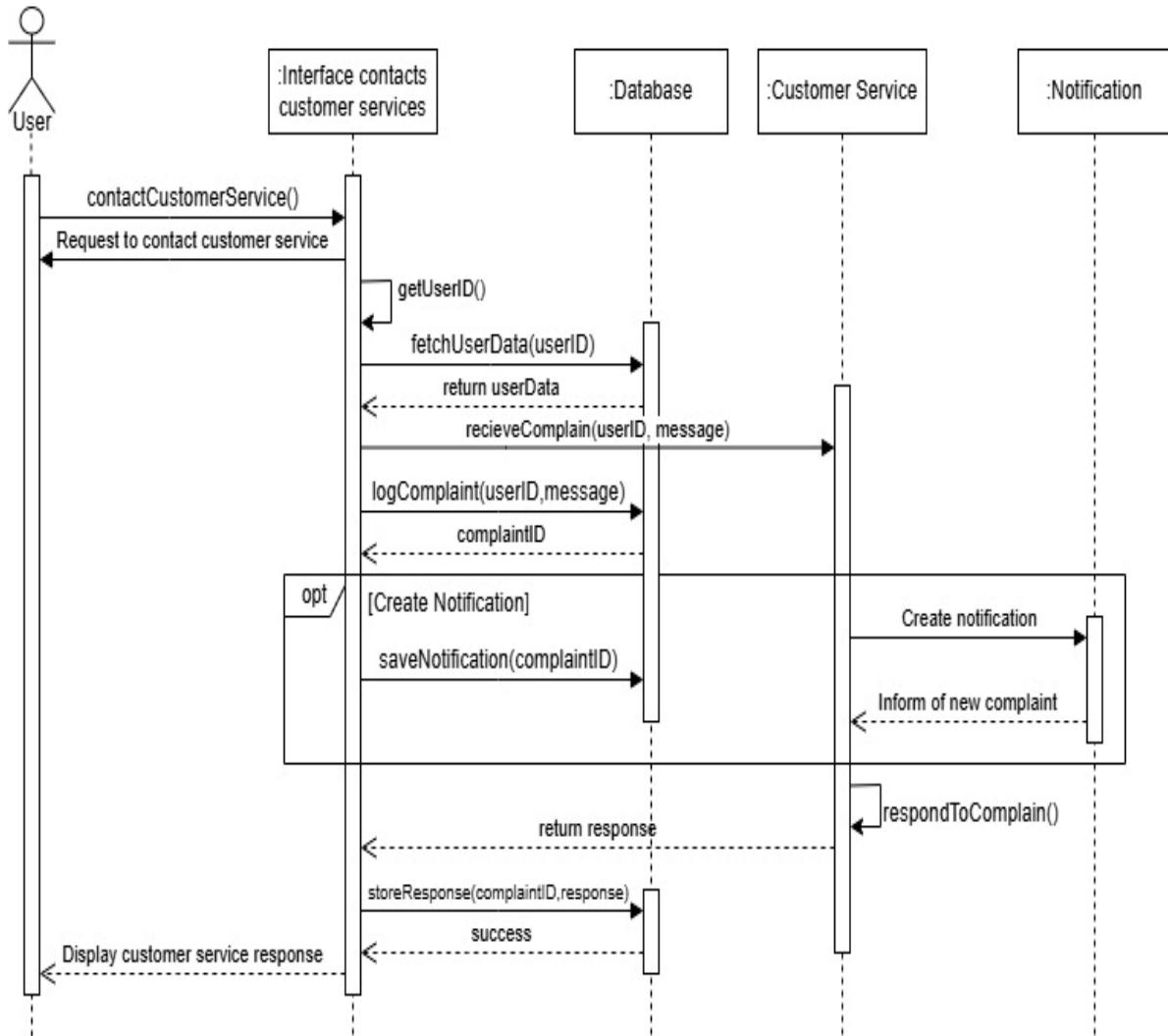
Choose method for delivery



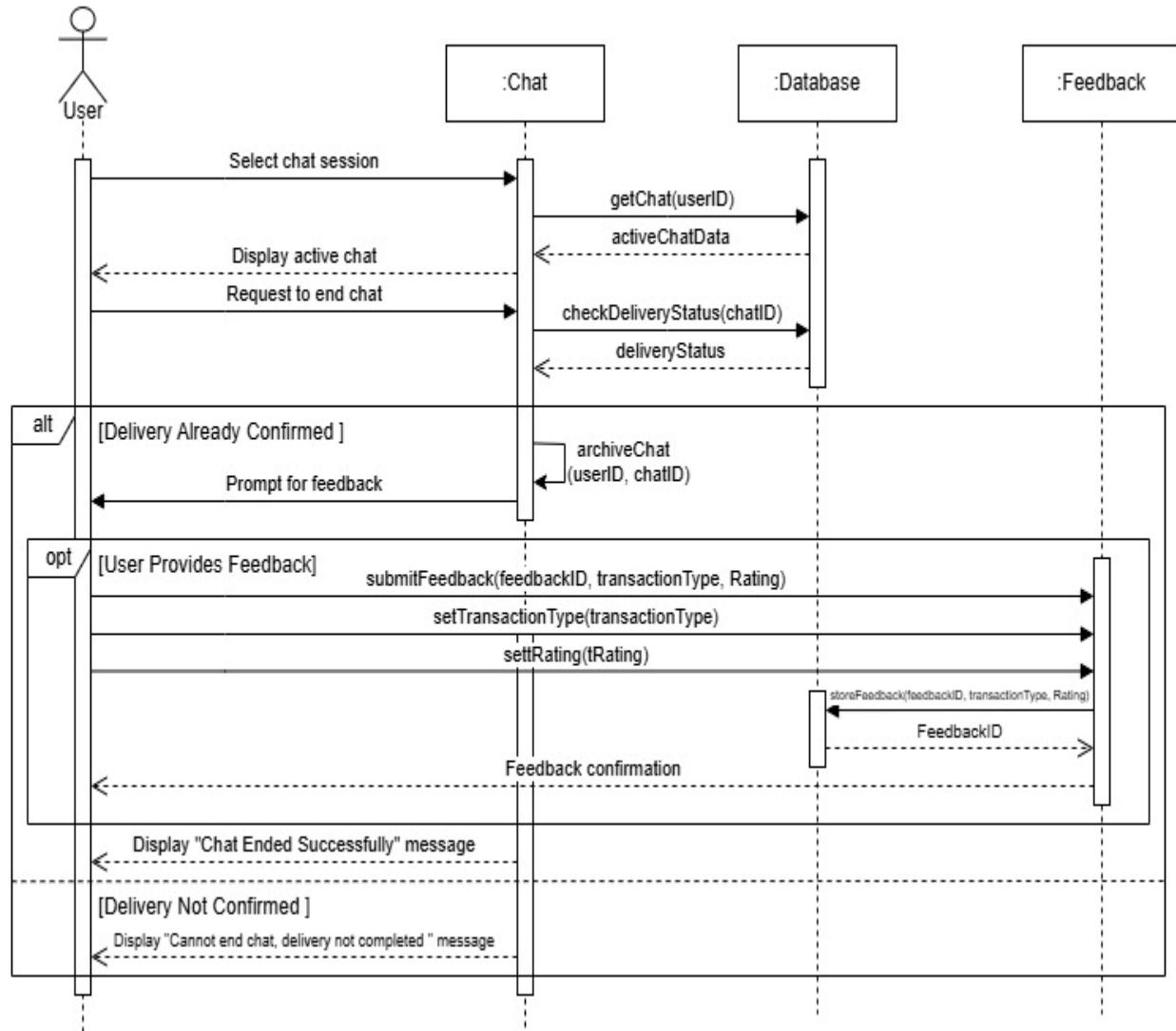
Deliver the item



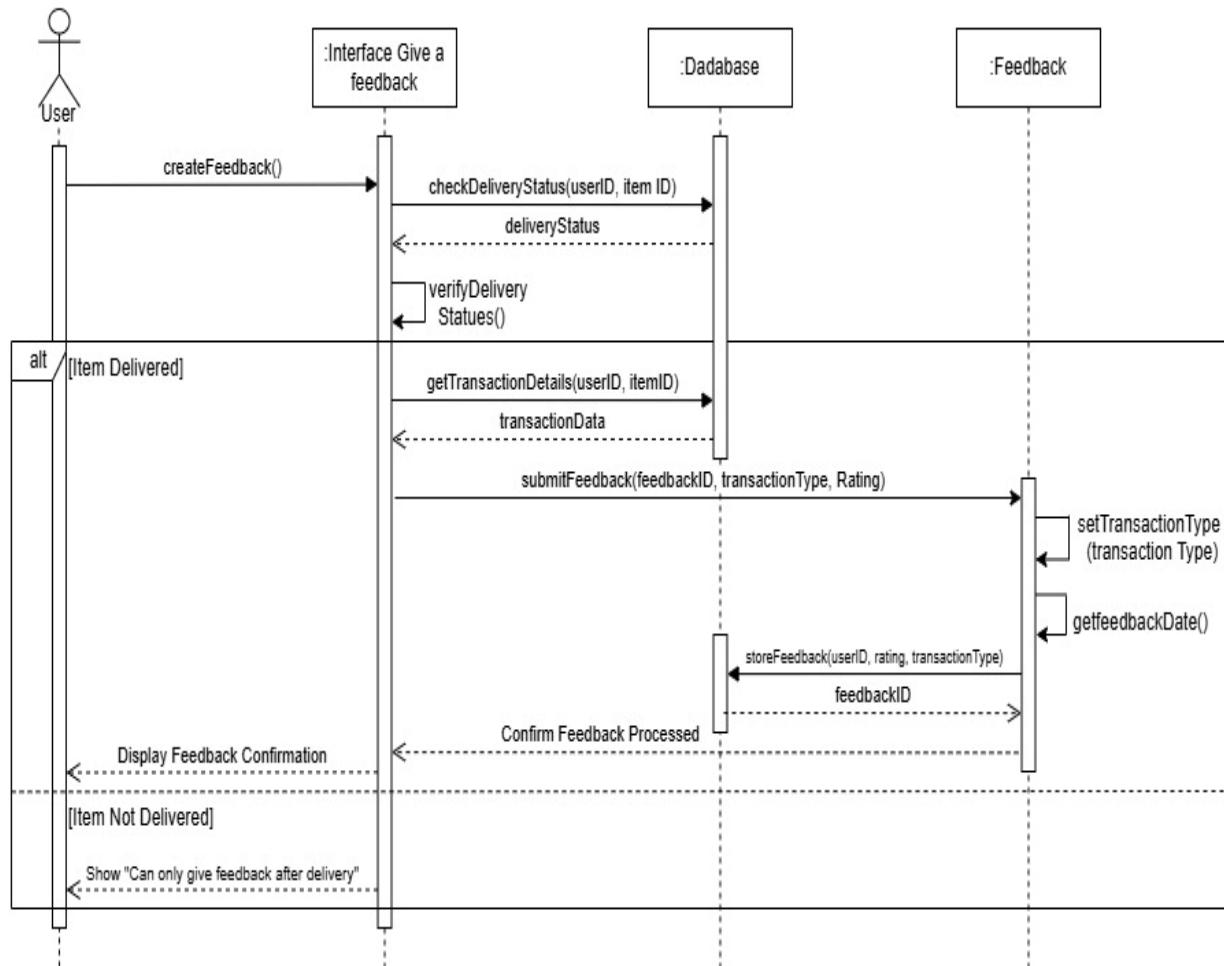
Contacts customer services



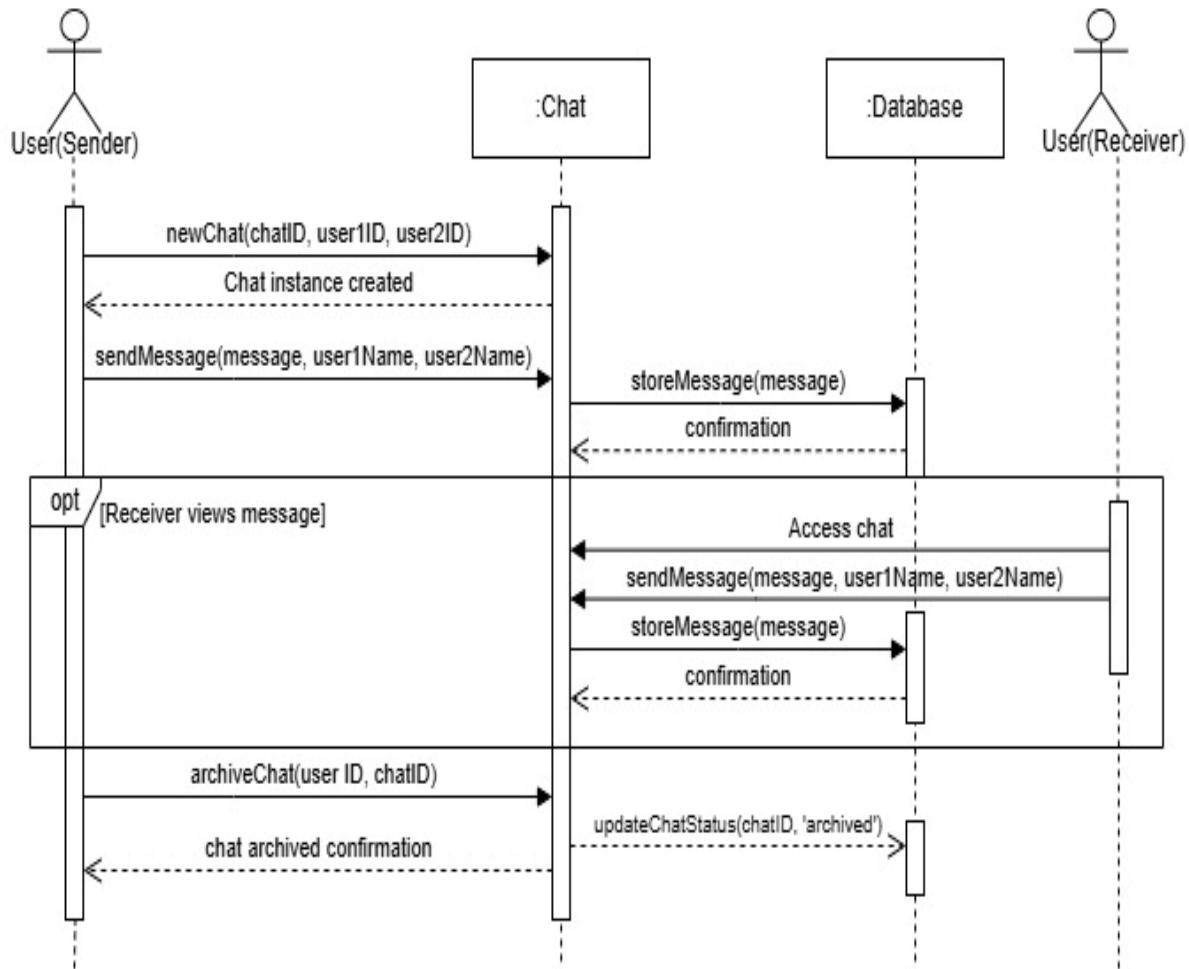
End chat after delivery



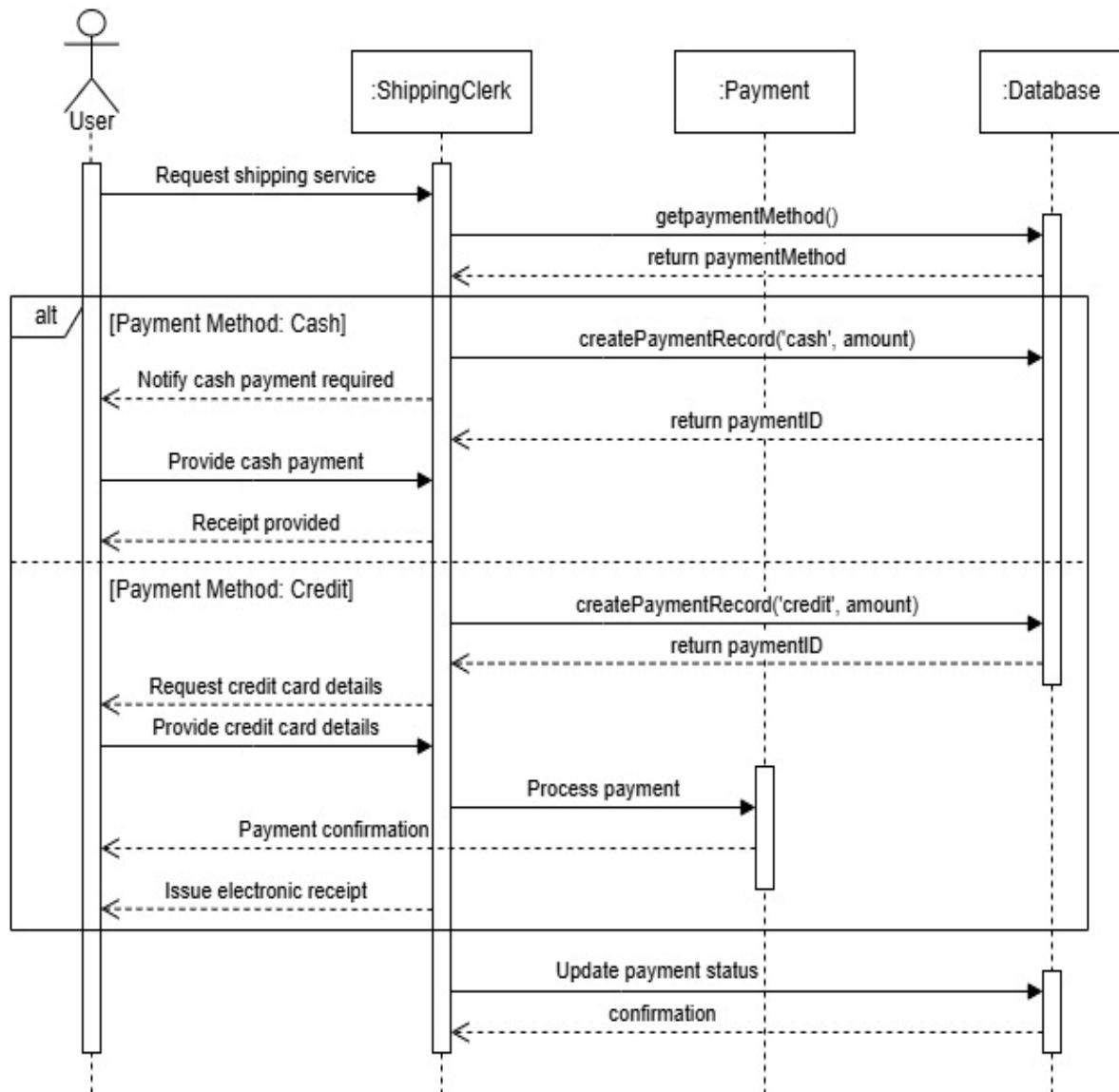
Give a feedback



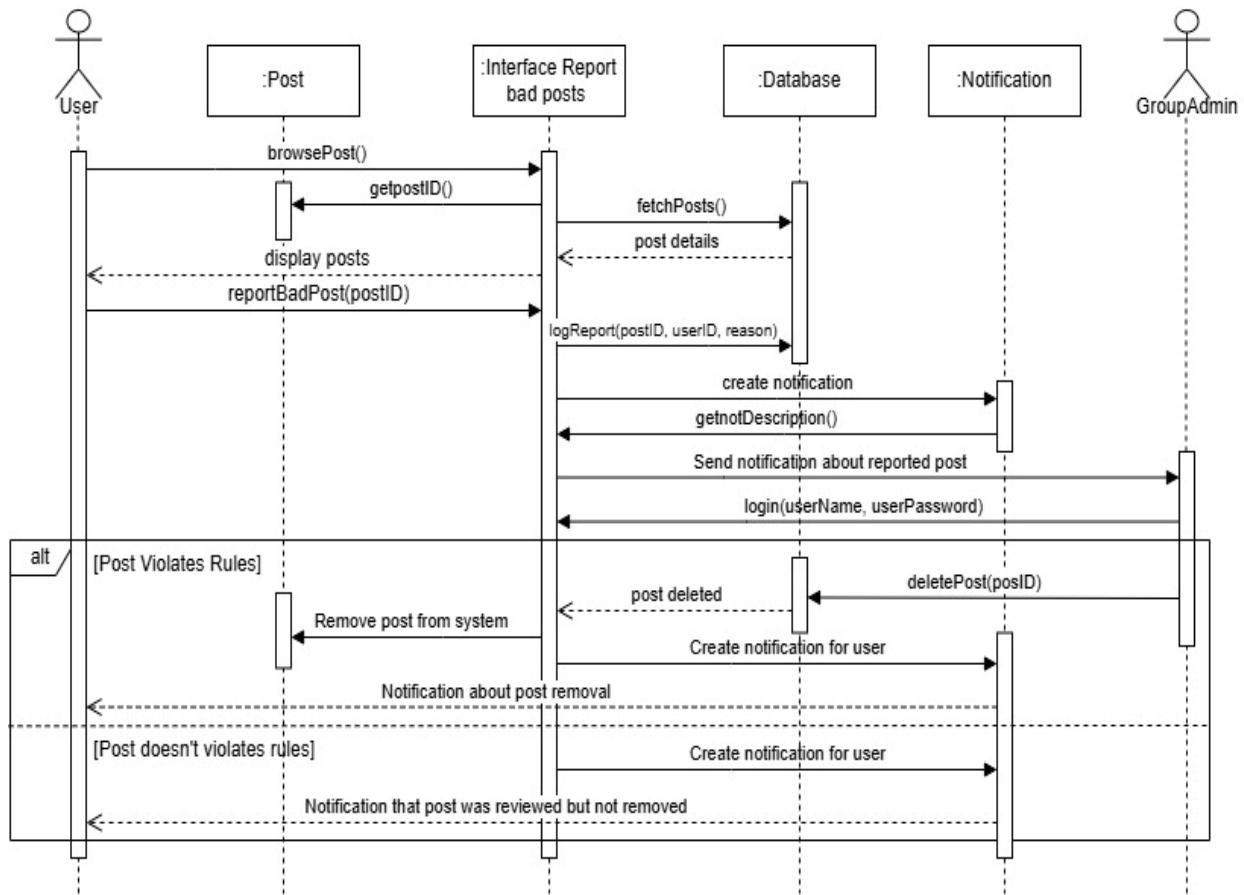
Message user



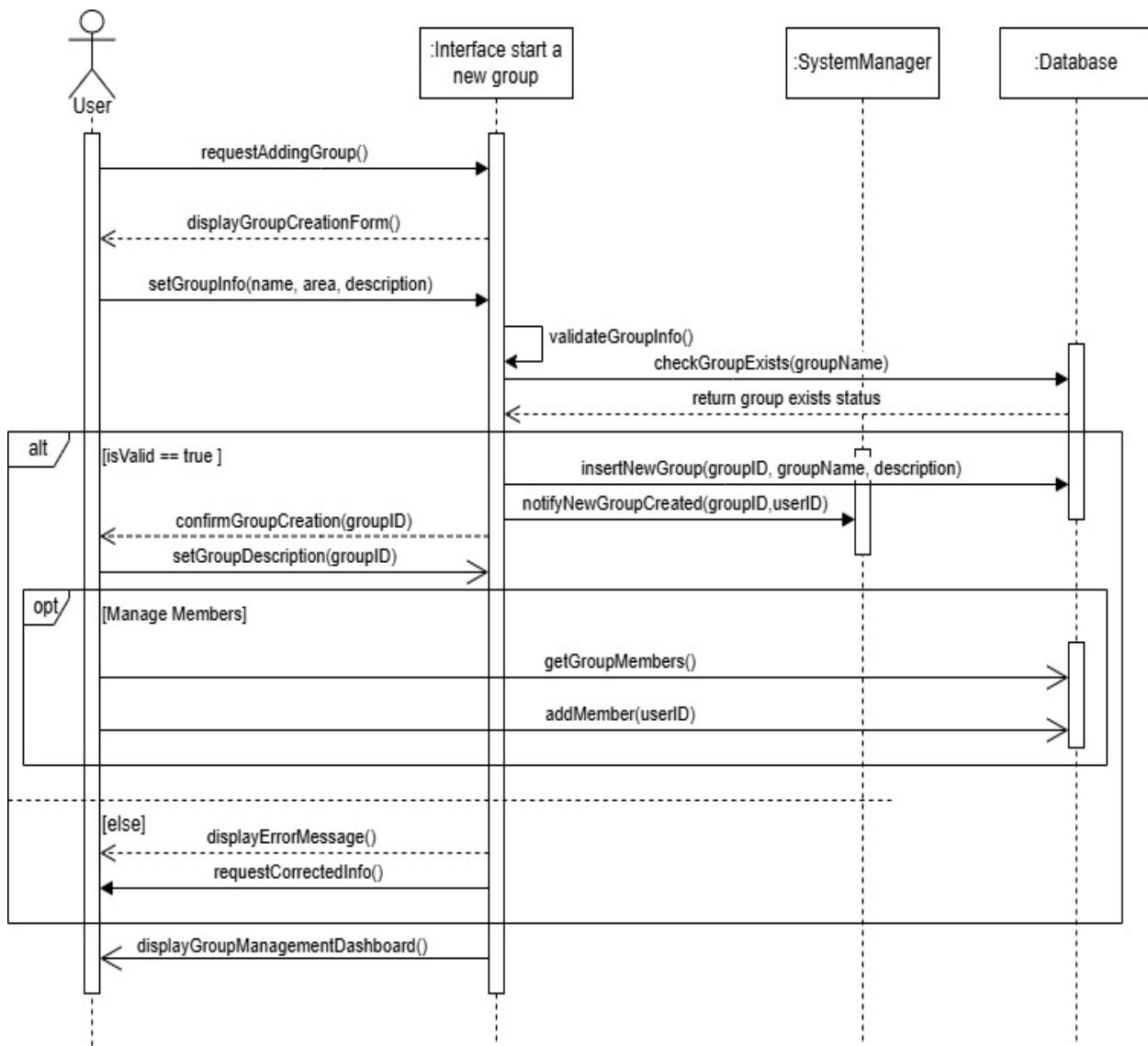
Receive shipping money



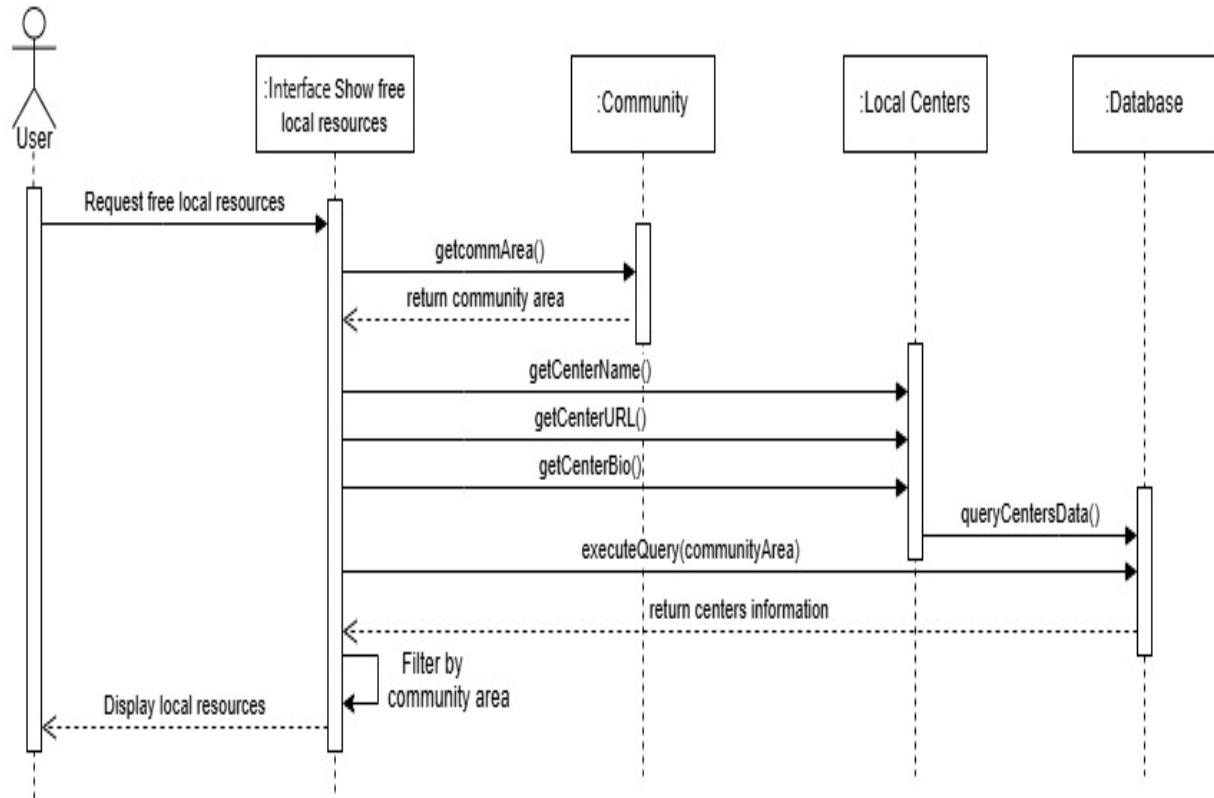
Report bad posts

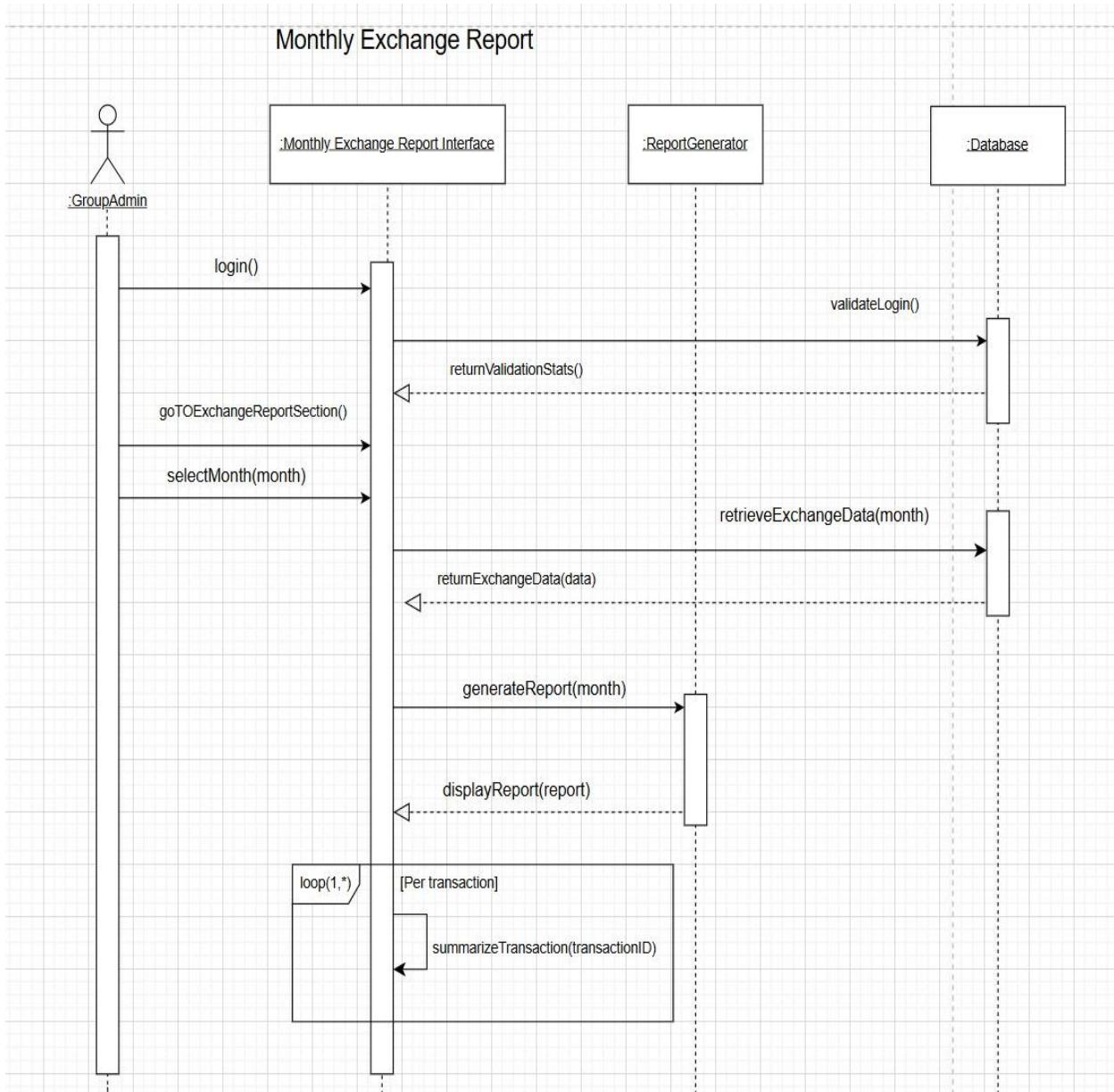


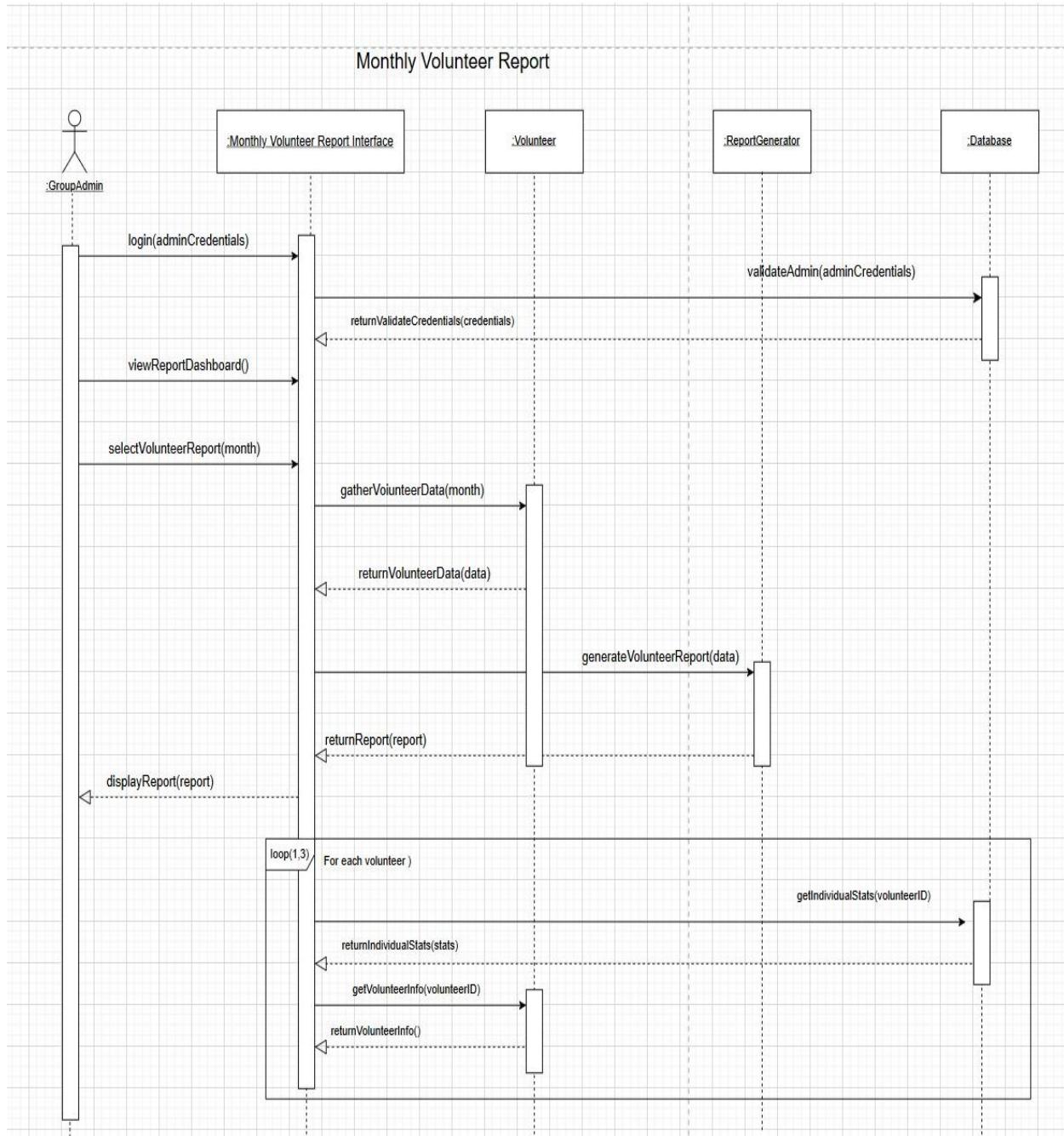
start a new group

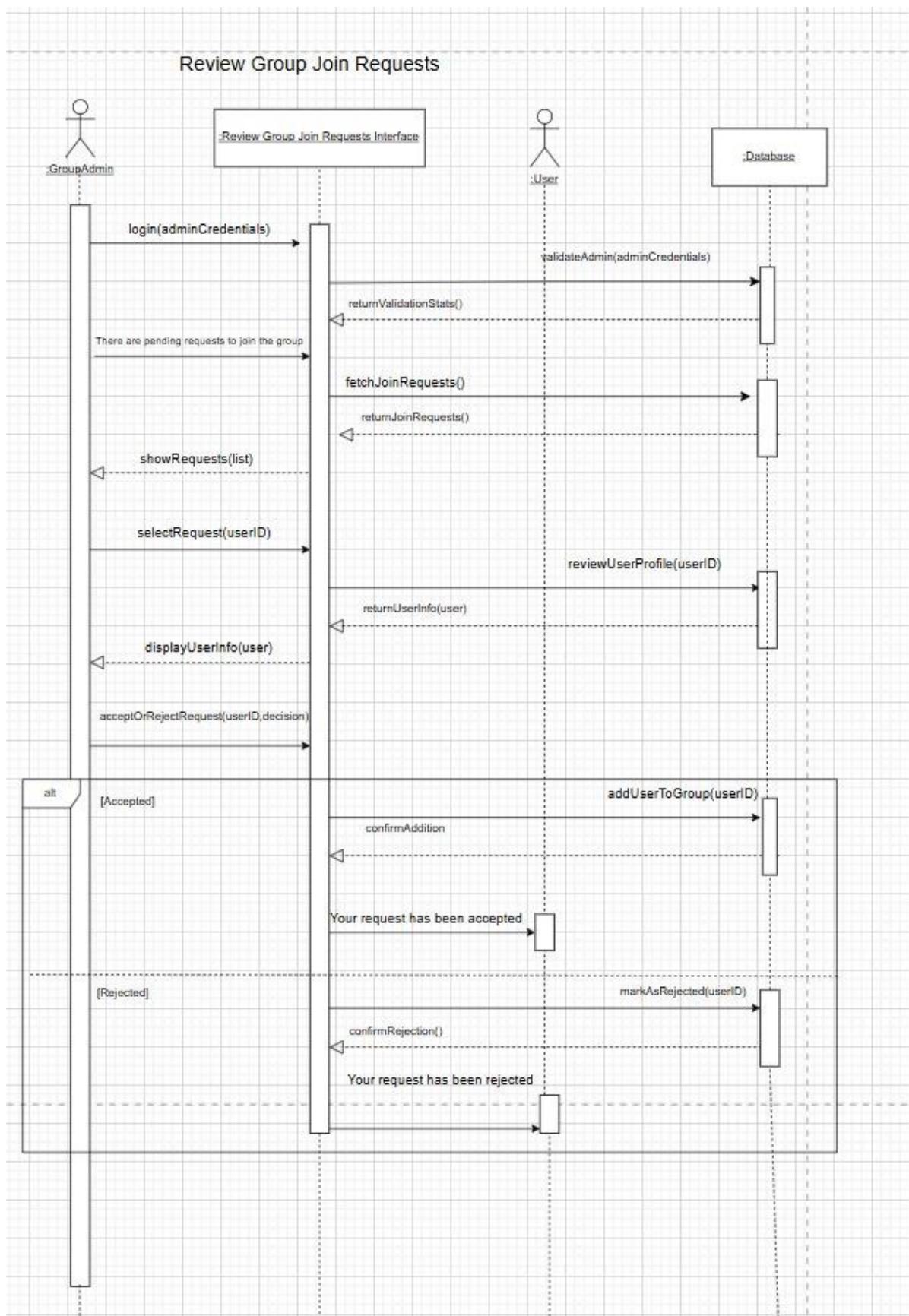


Show free local resources

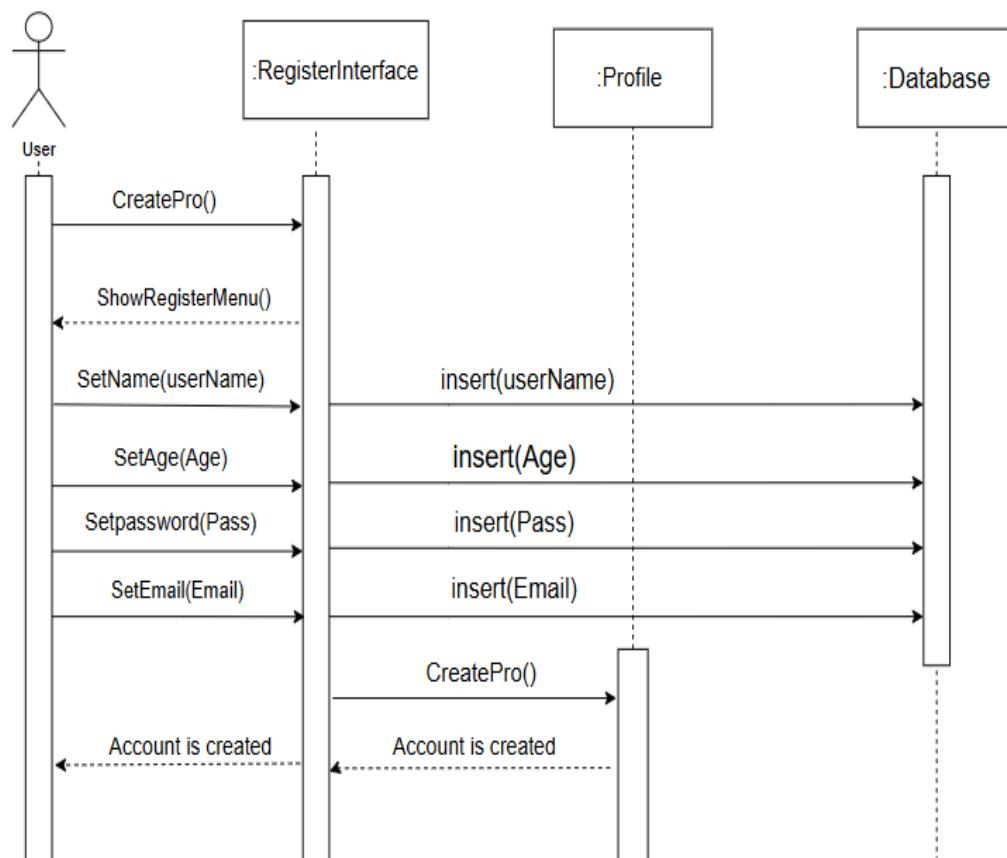




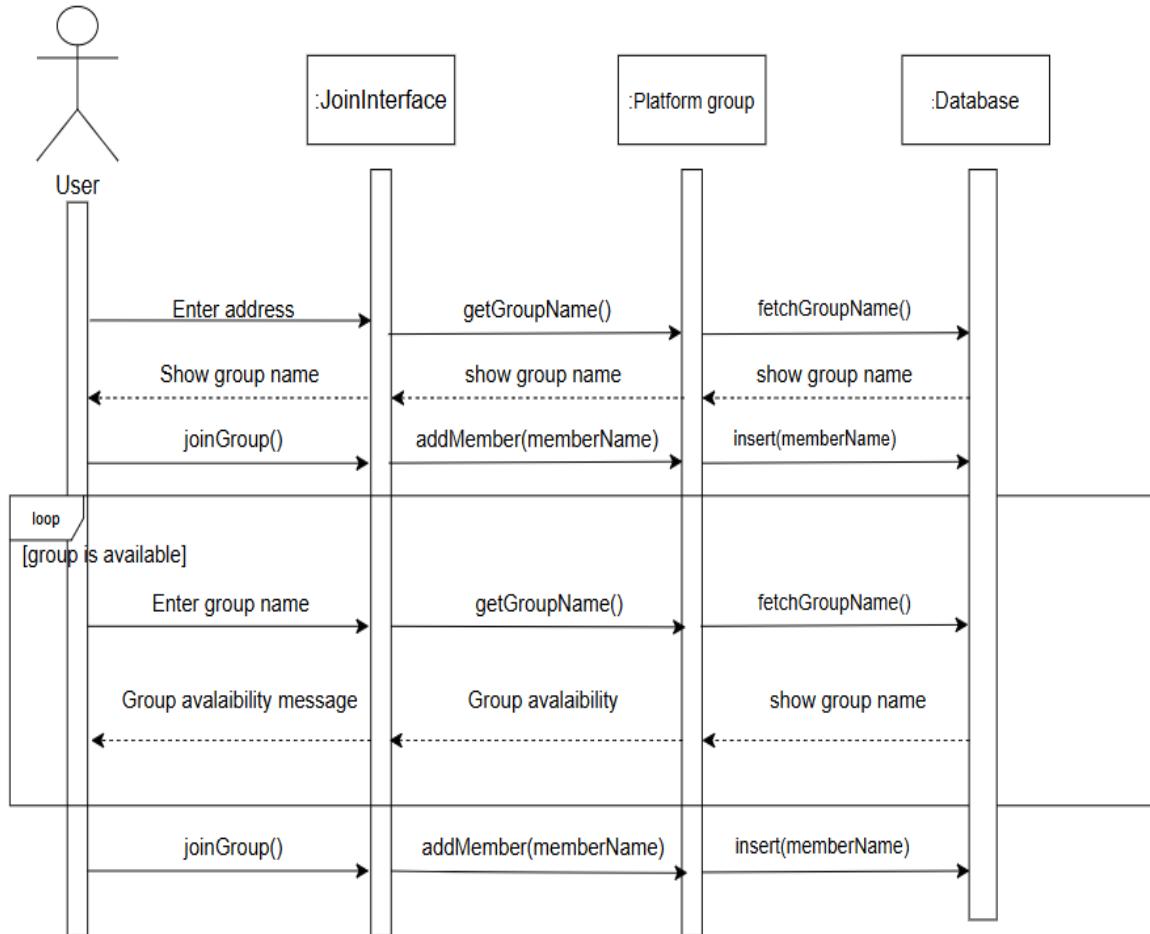




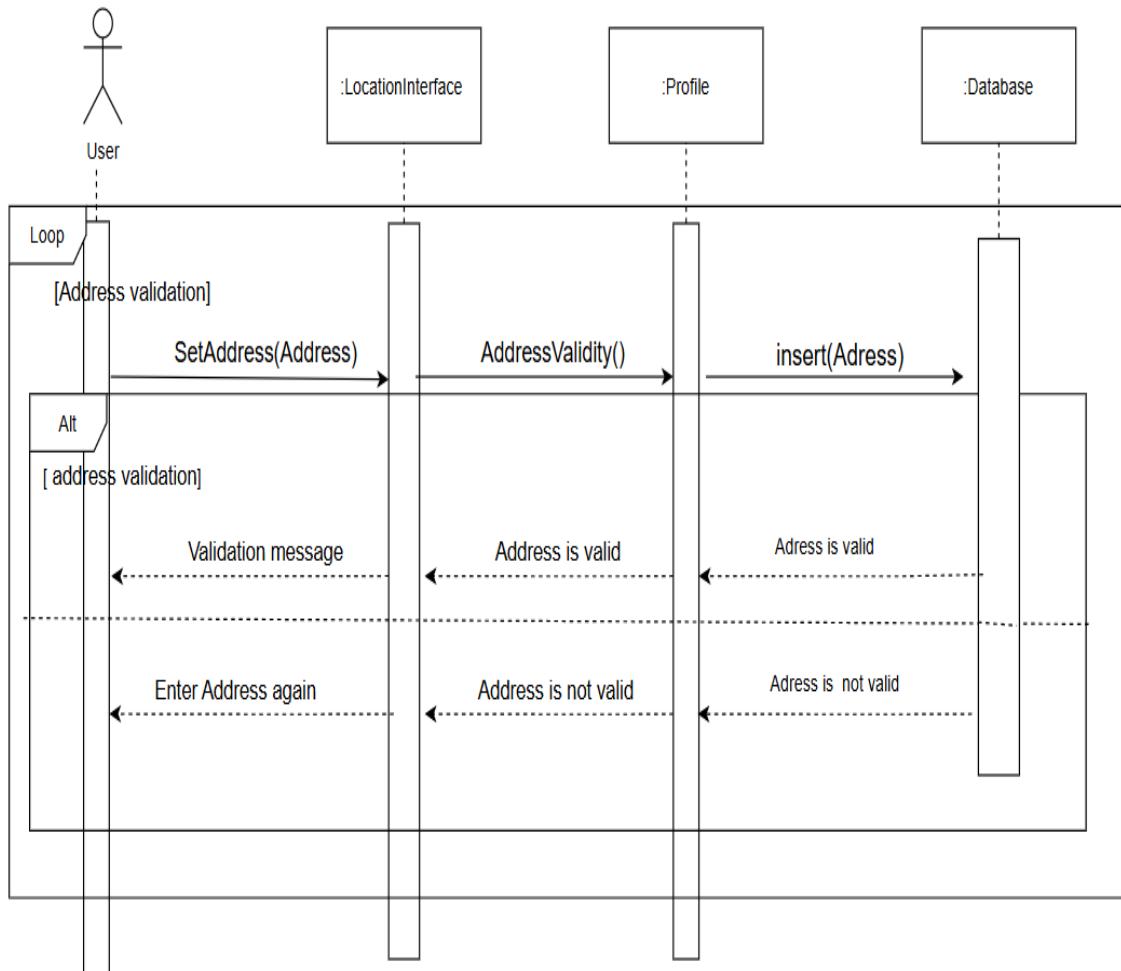
Register use case



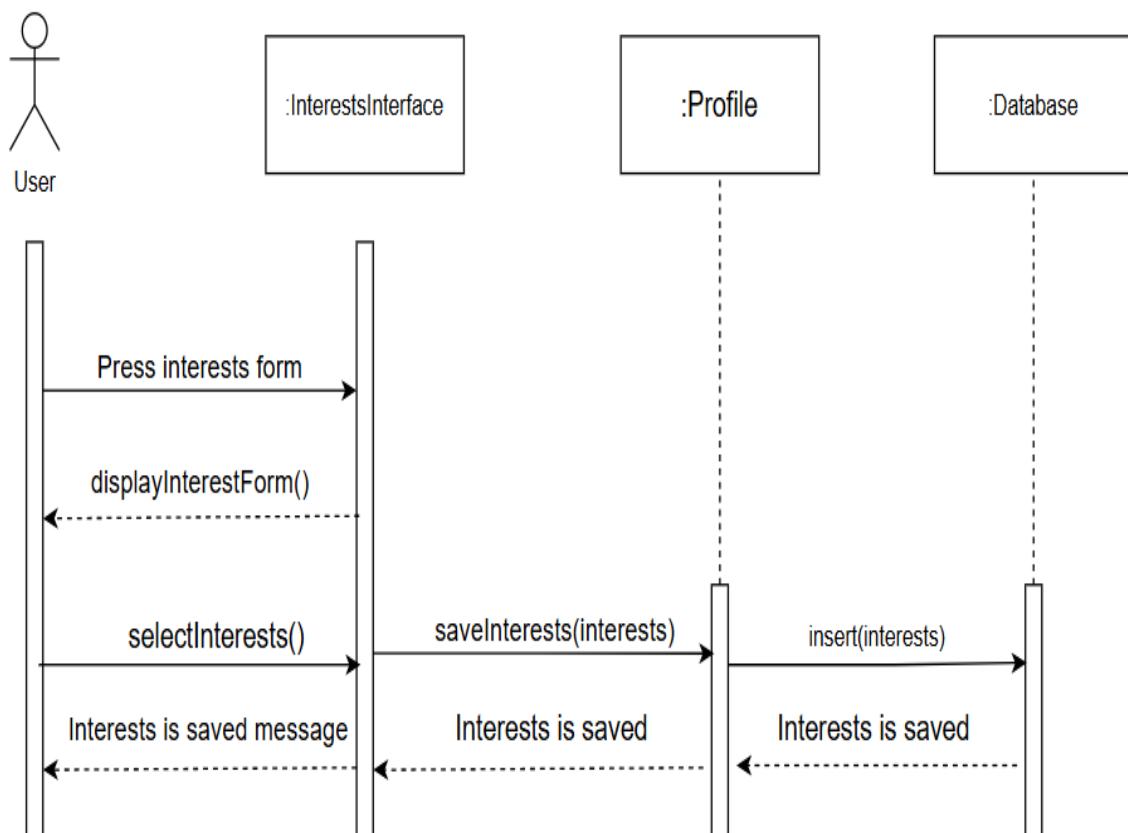
Join groups



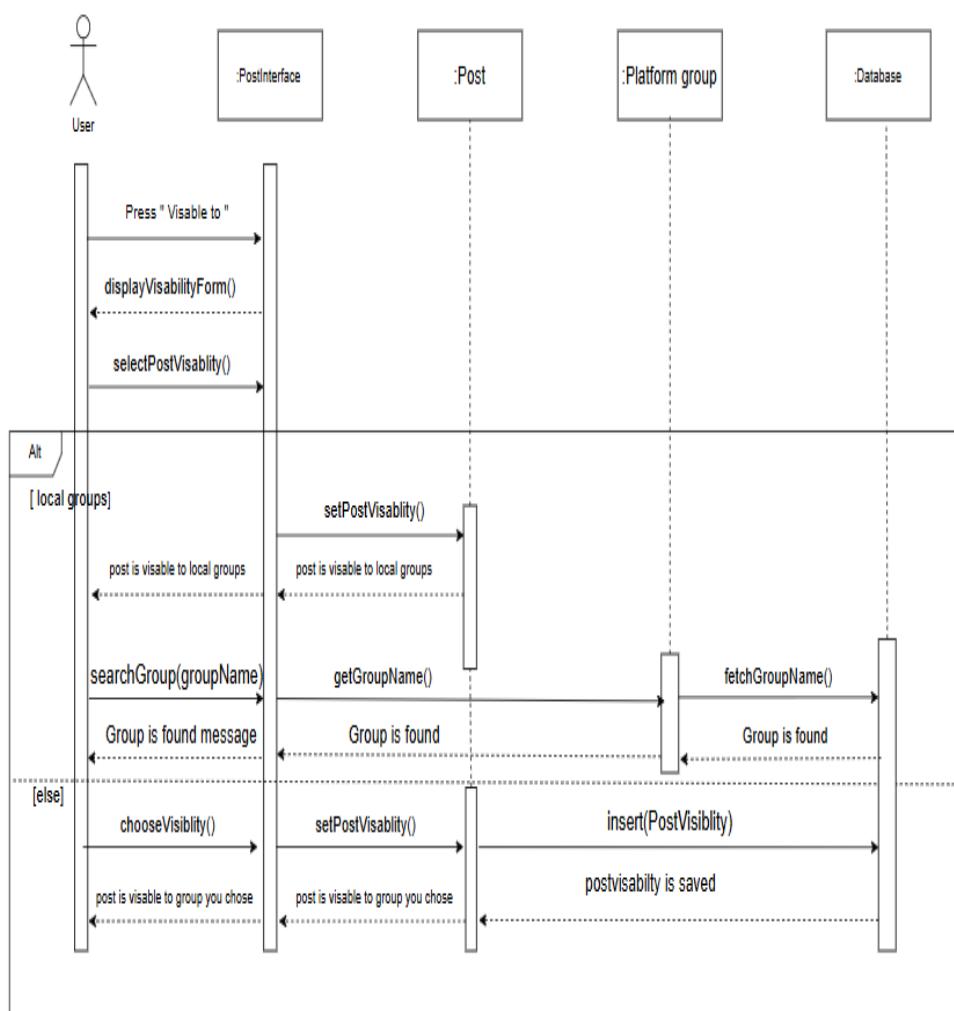
Set Location



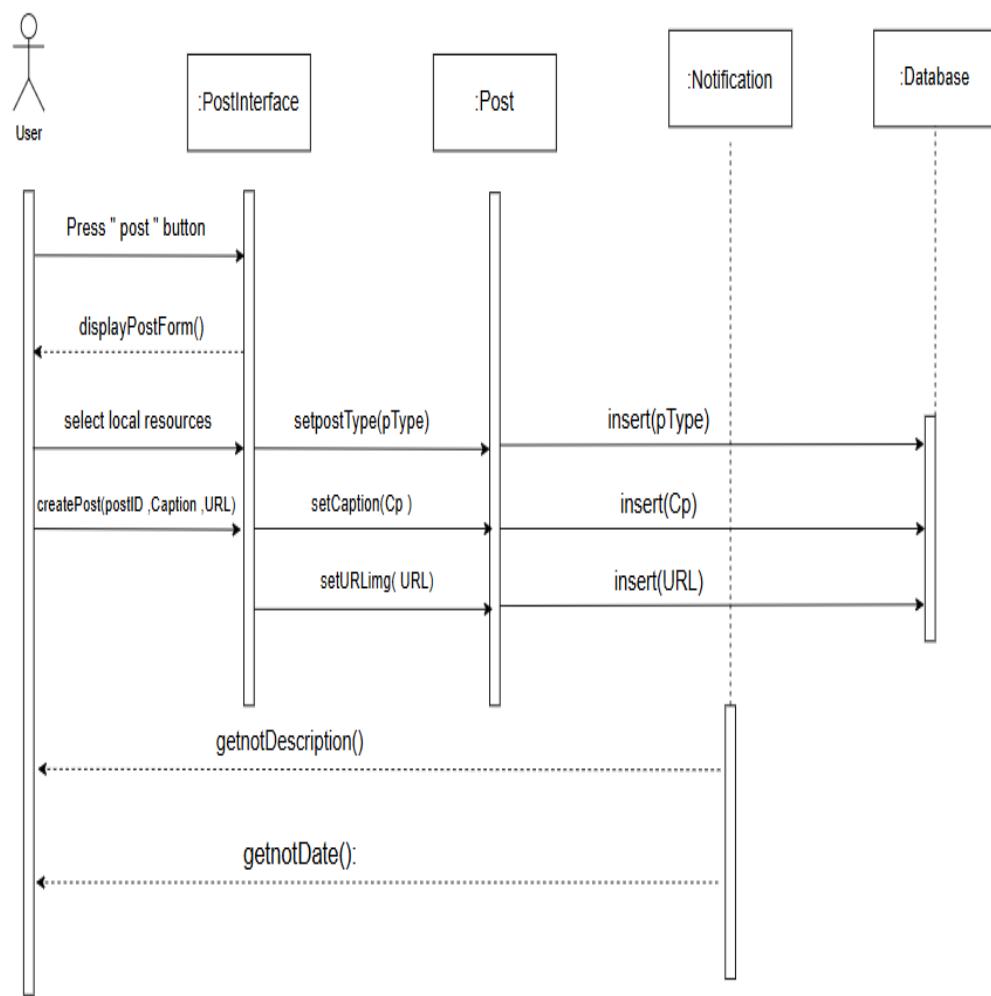
Provide interests info

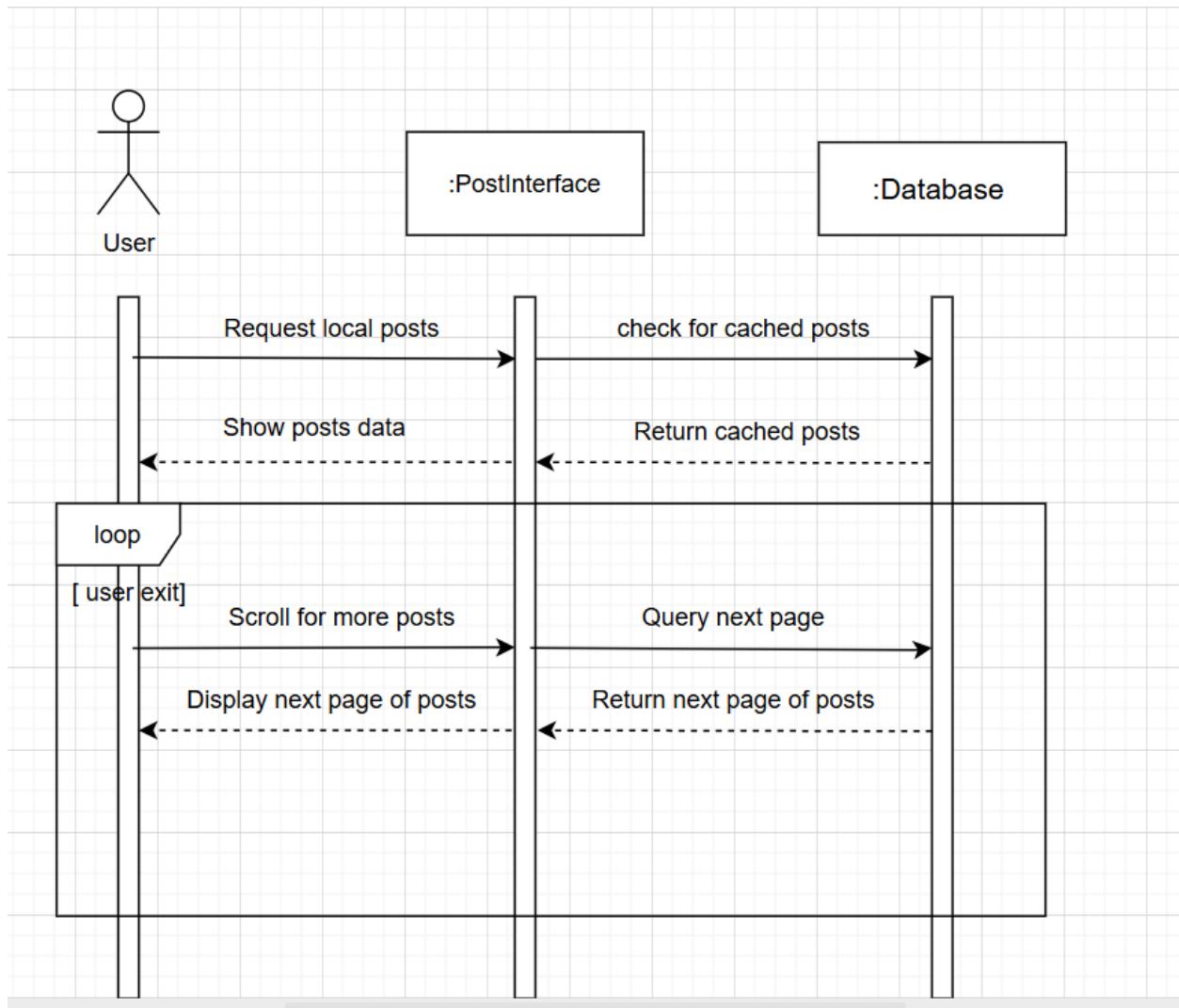


Choose post visibility

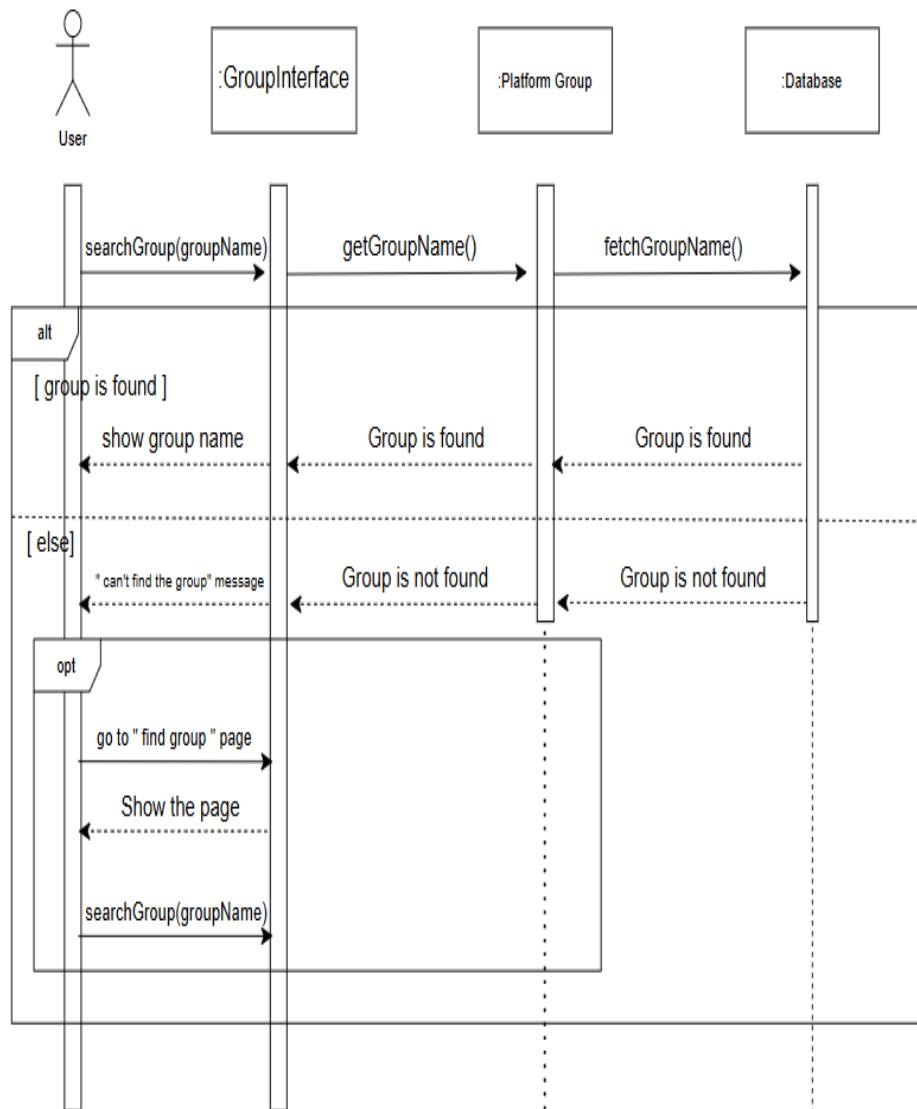


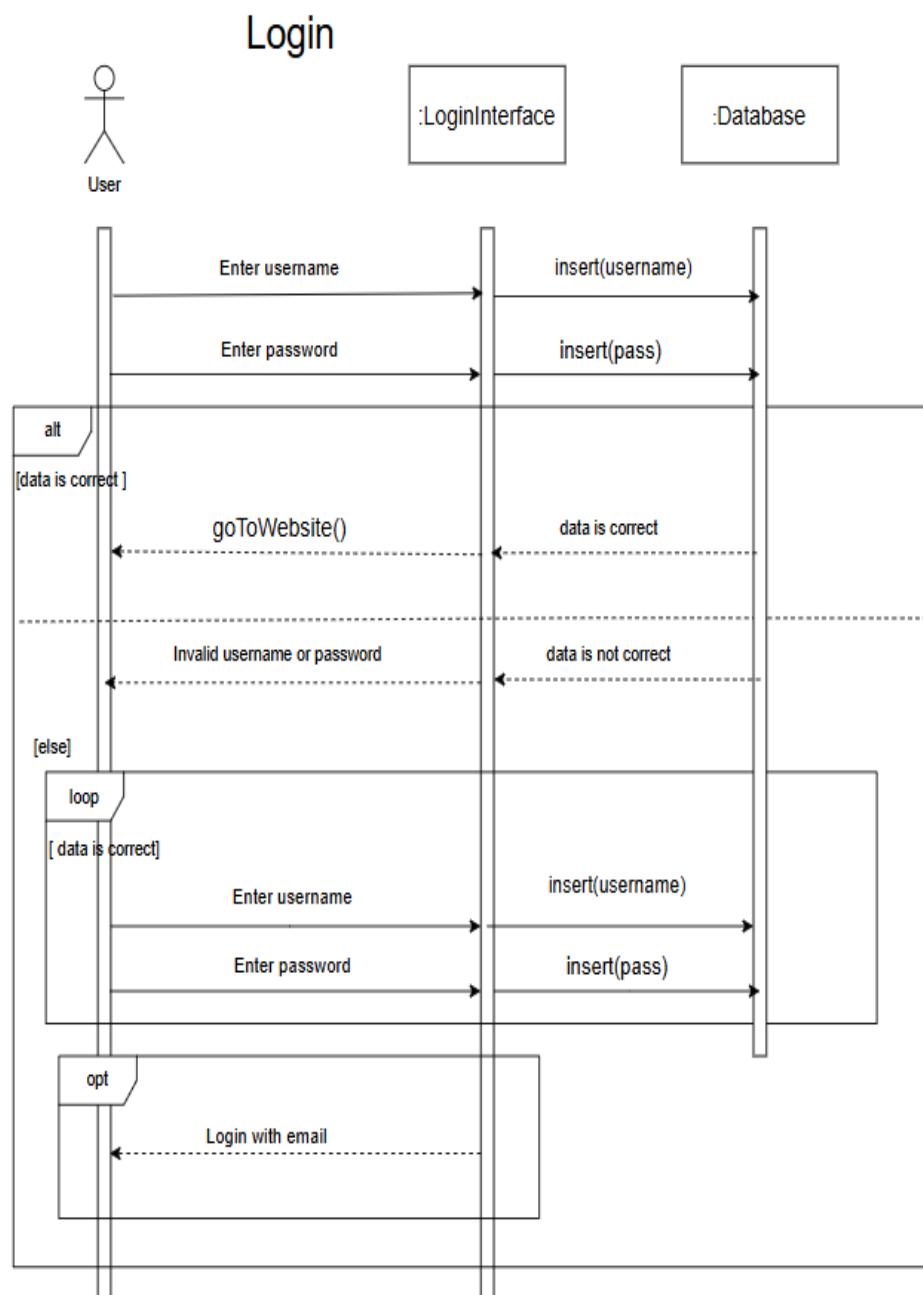
Post local resources



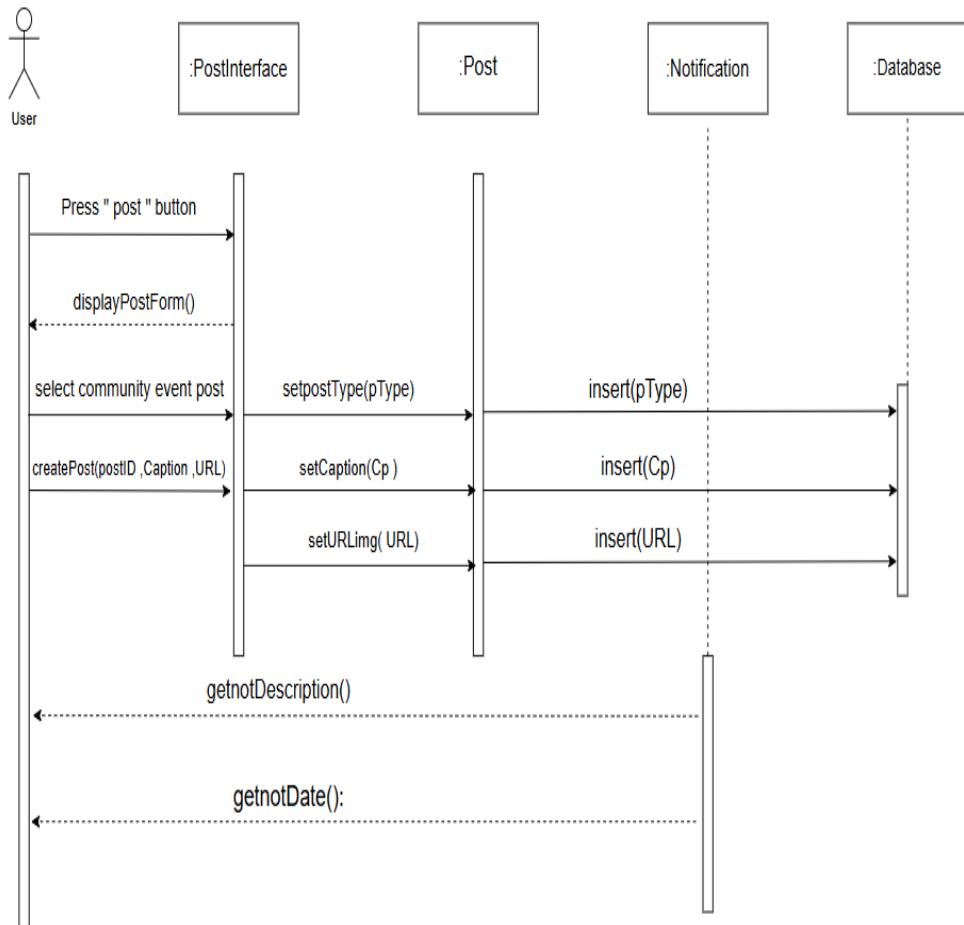


Search for group

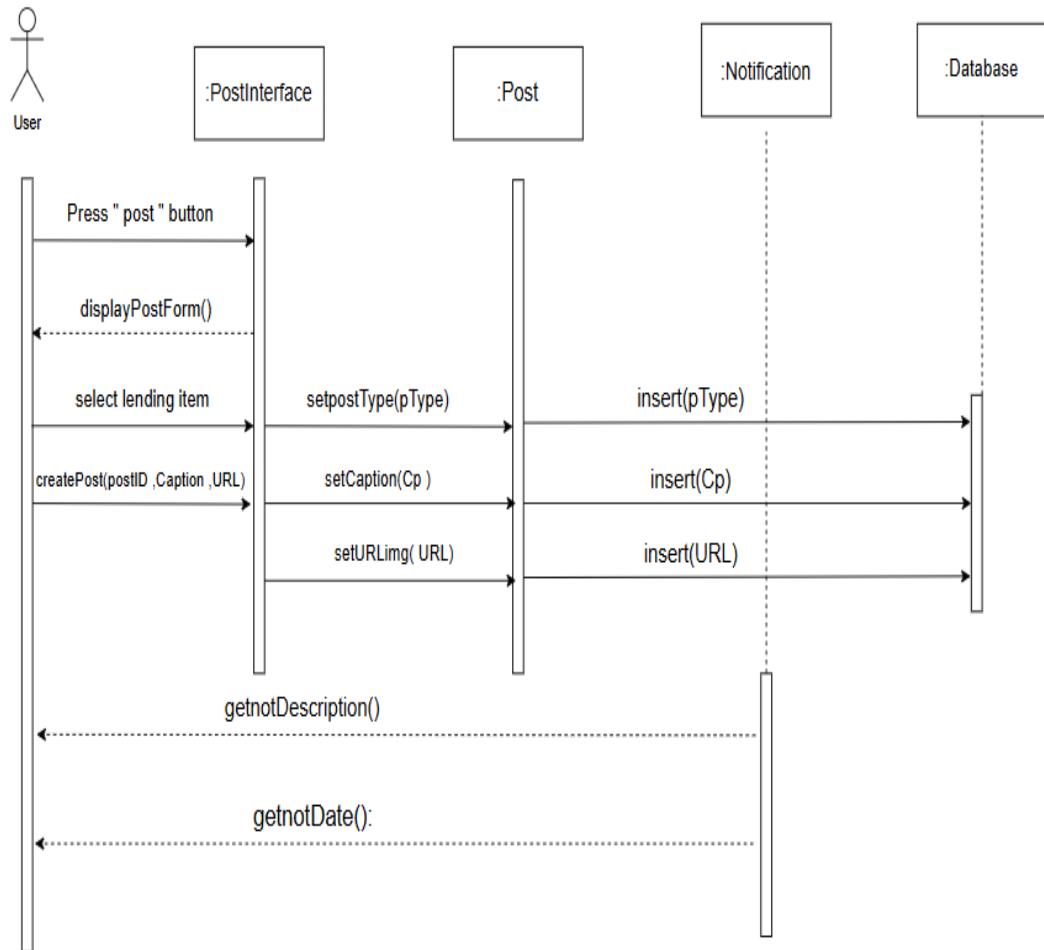




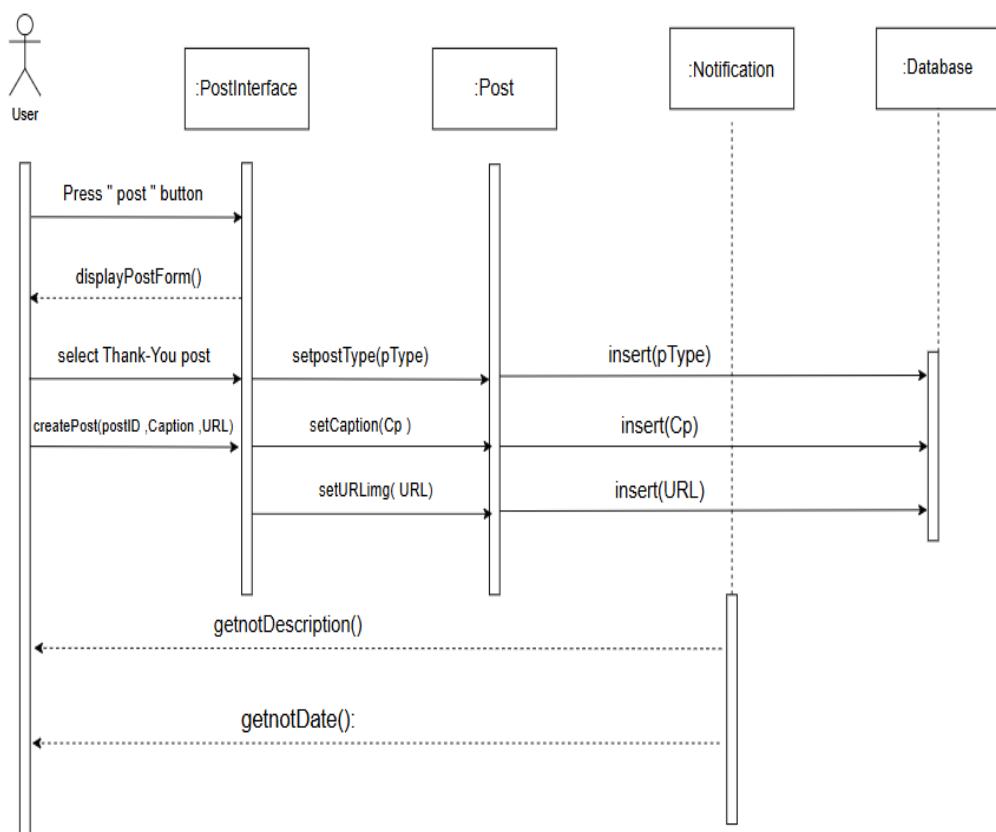
Post community events



Post lending item

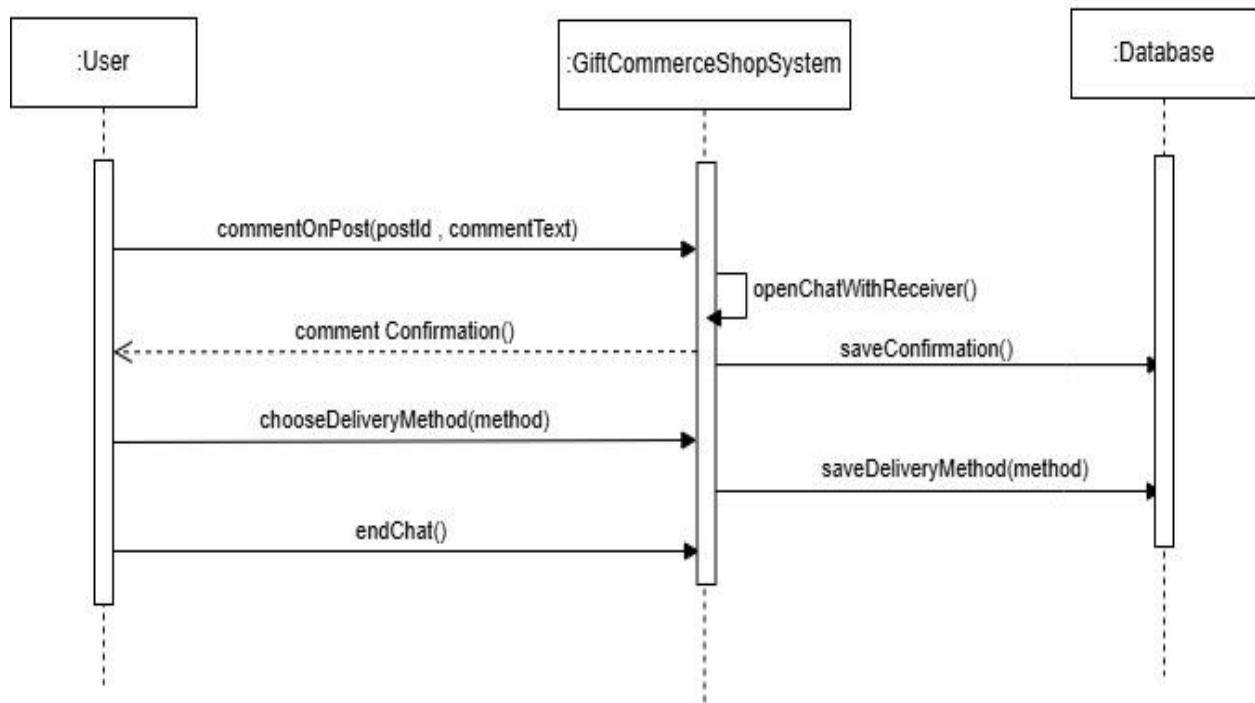


Post Thank-You post

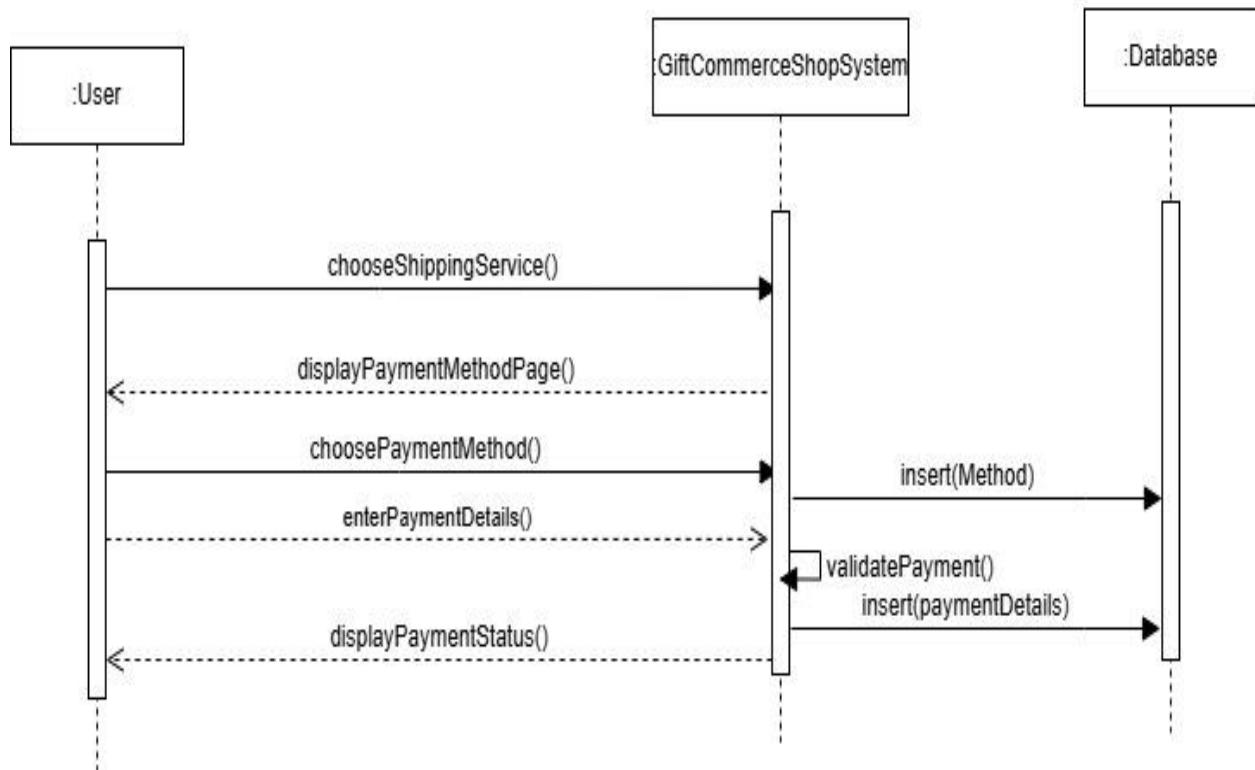


System sequence diagrams:

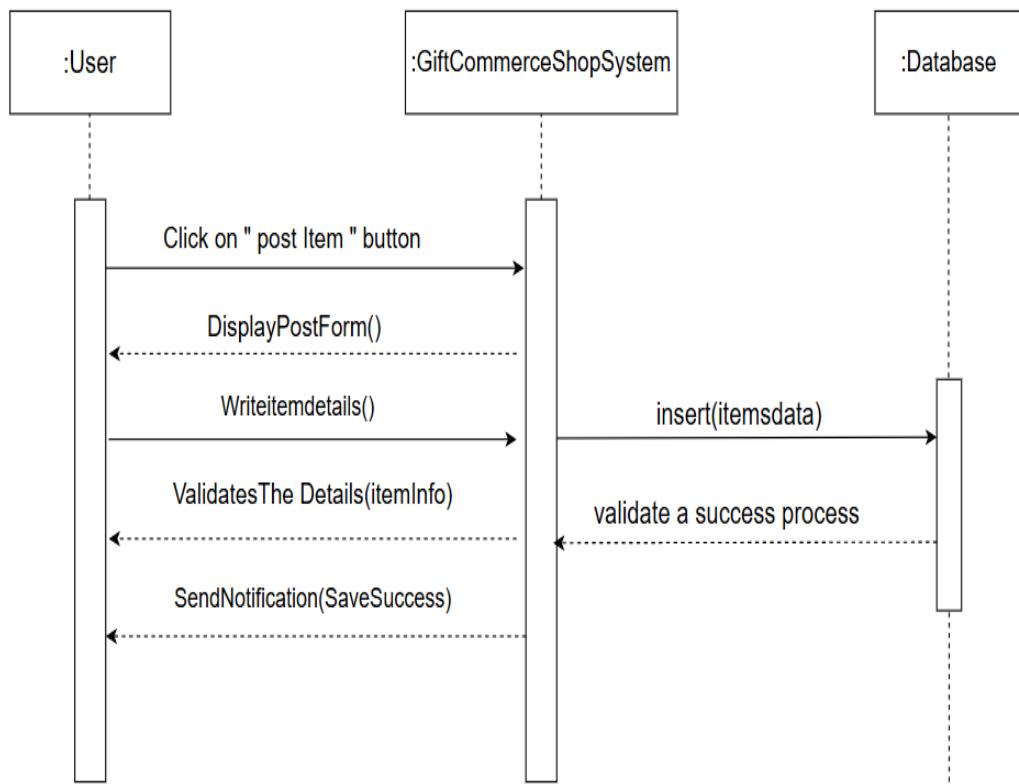
Comment on a post

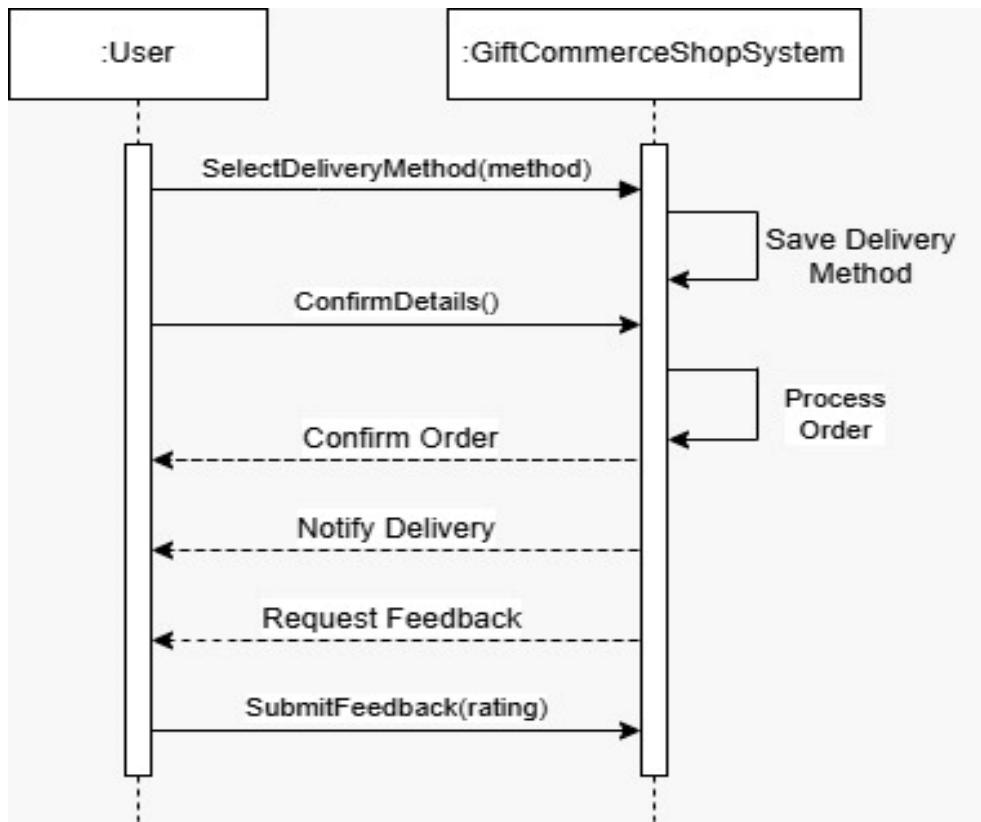


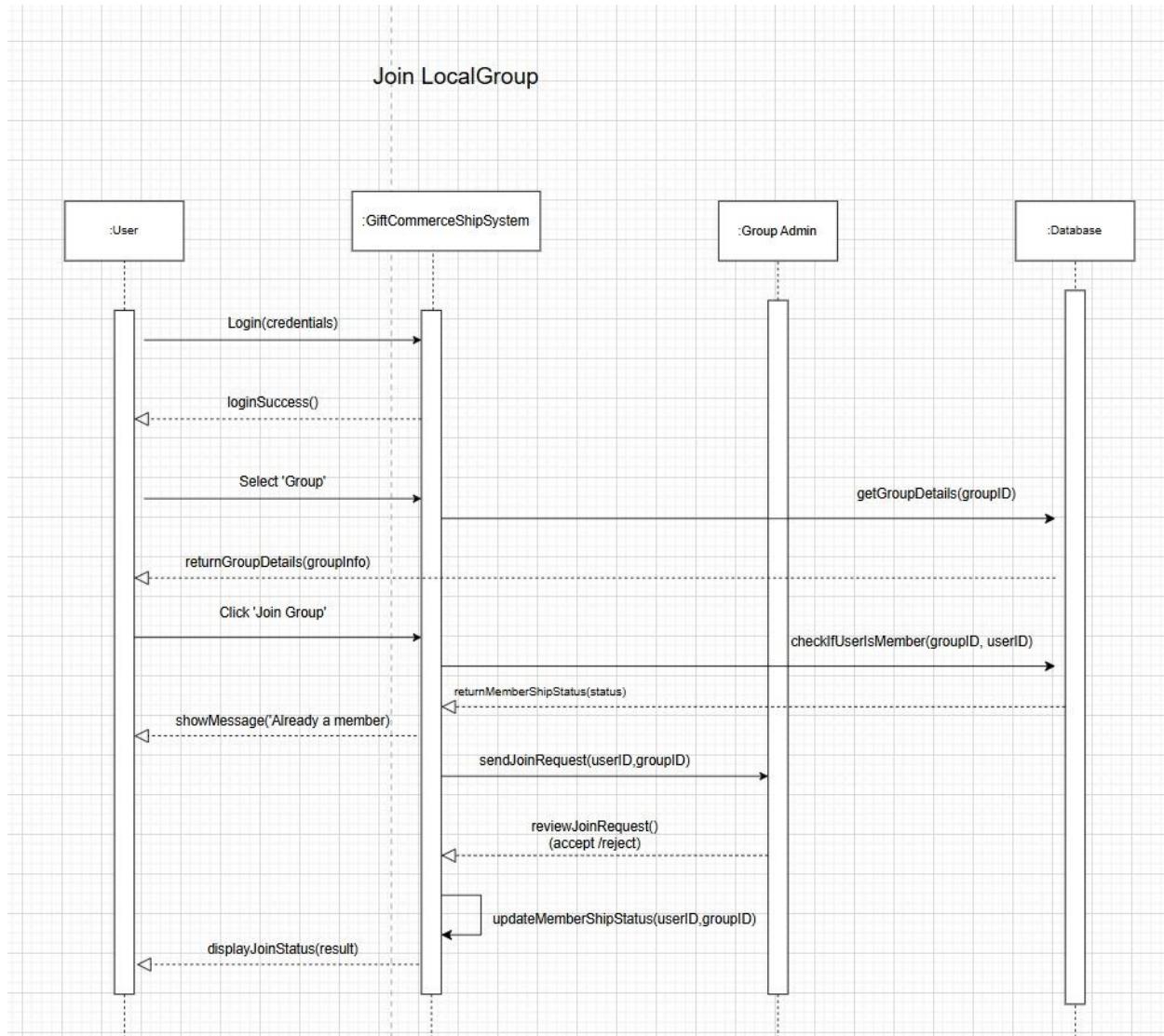
shipping payment

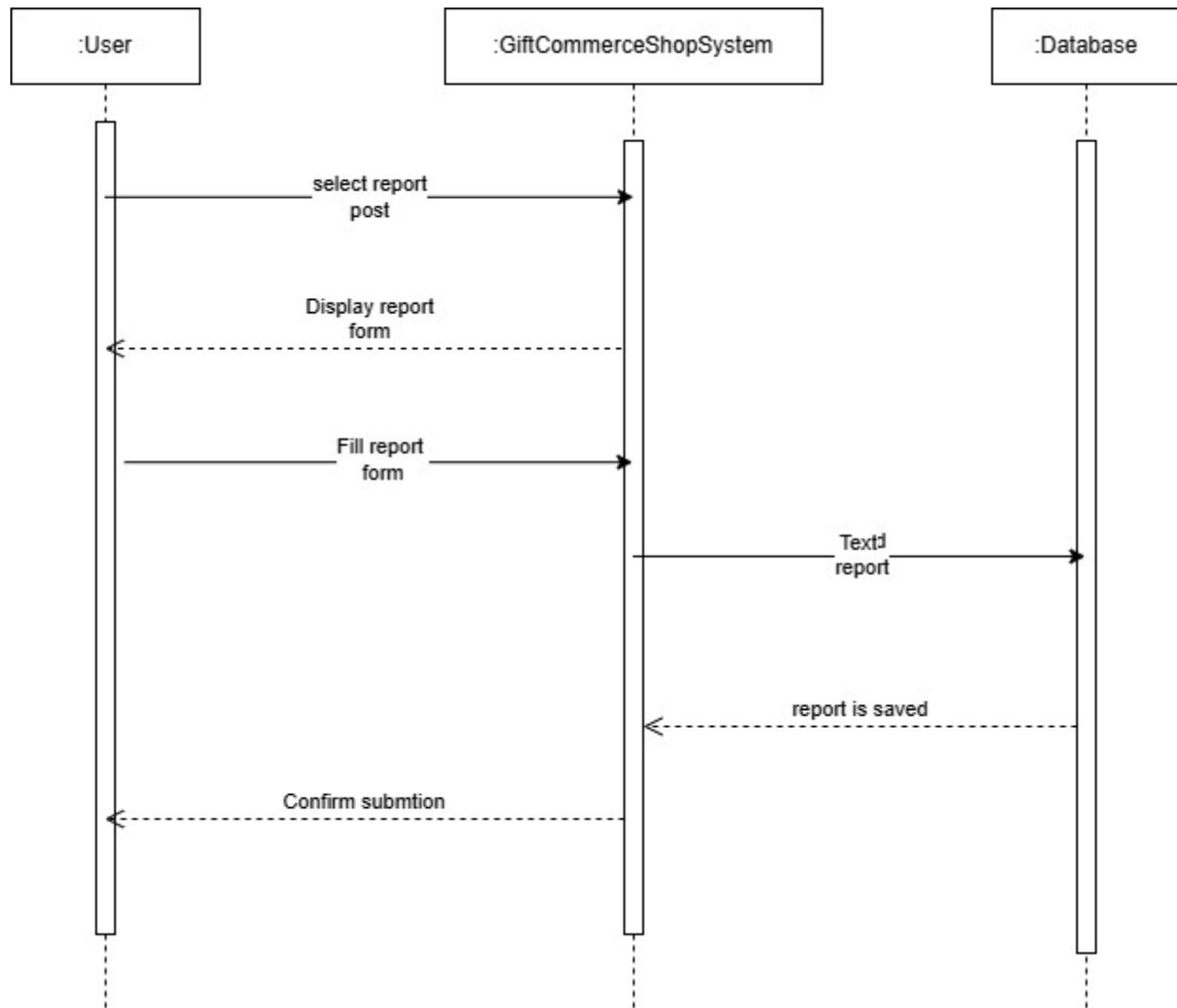


post an item

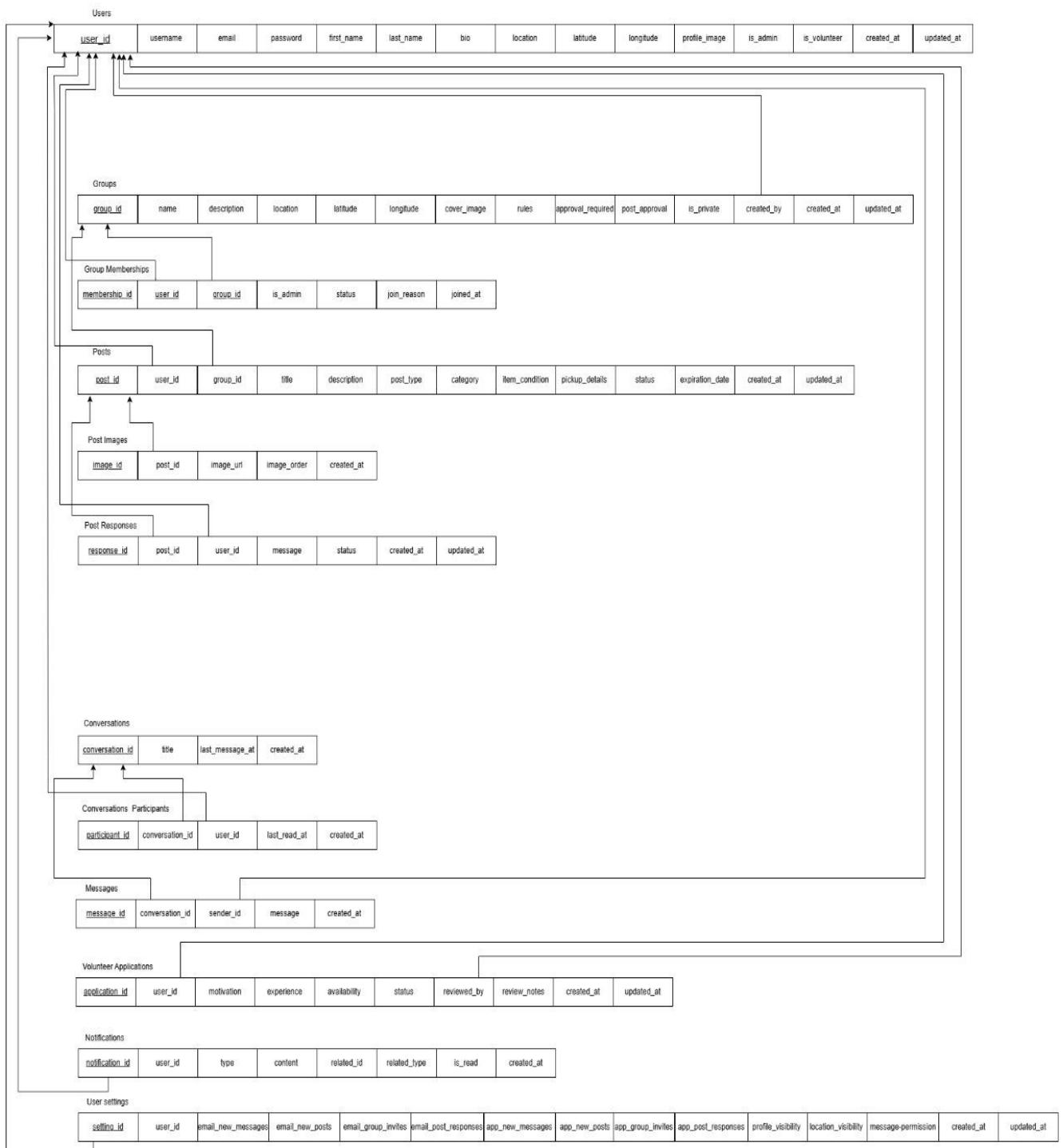




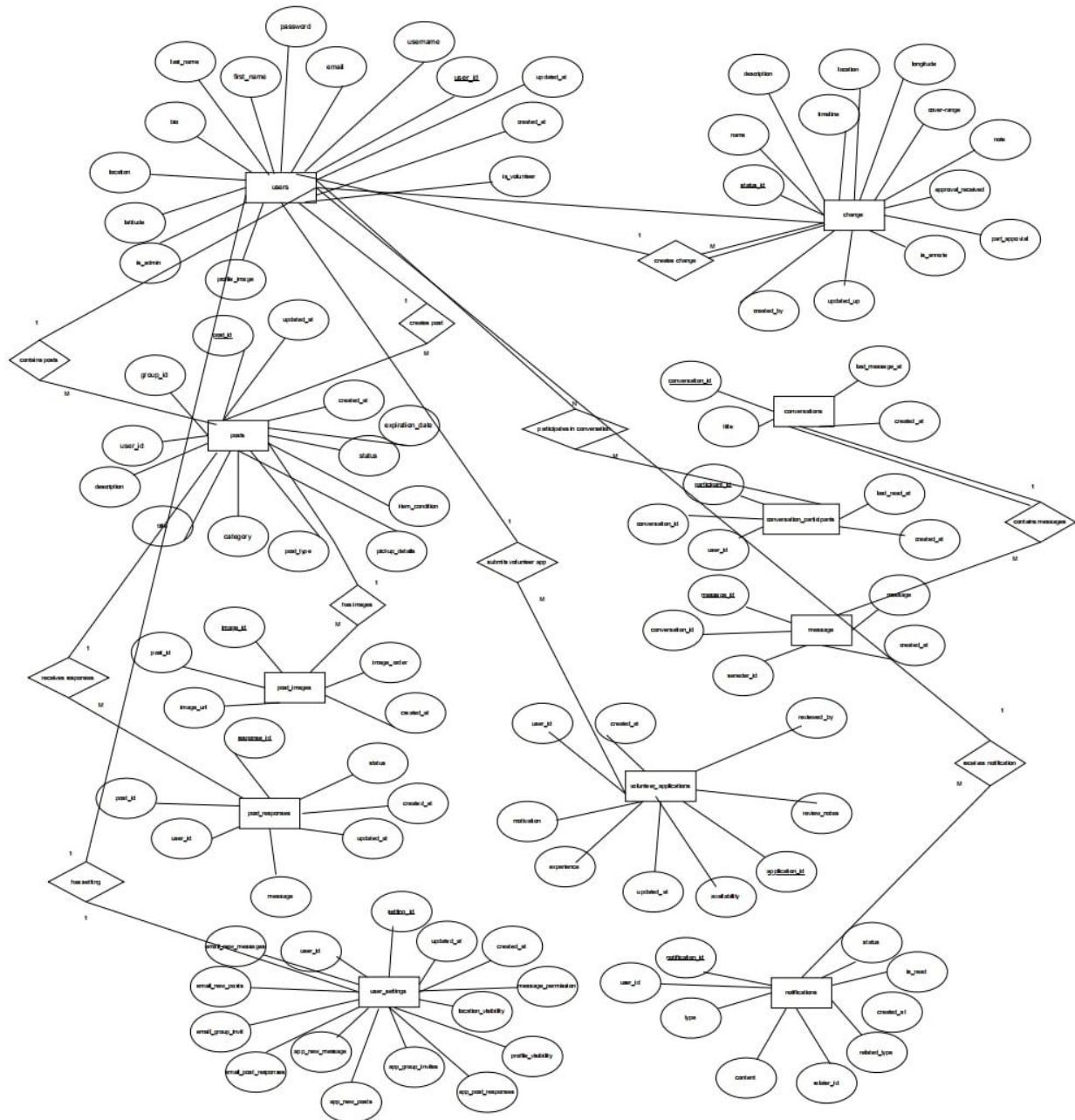


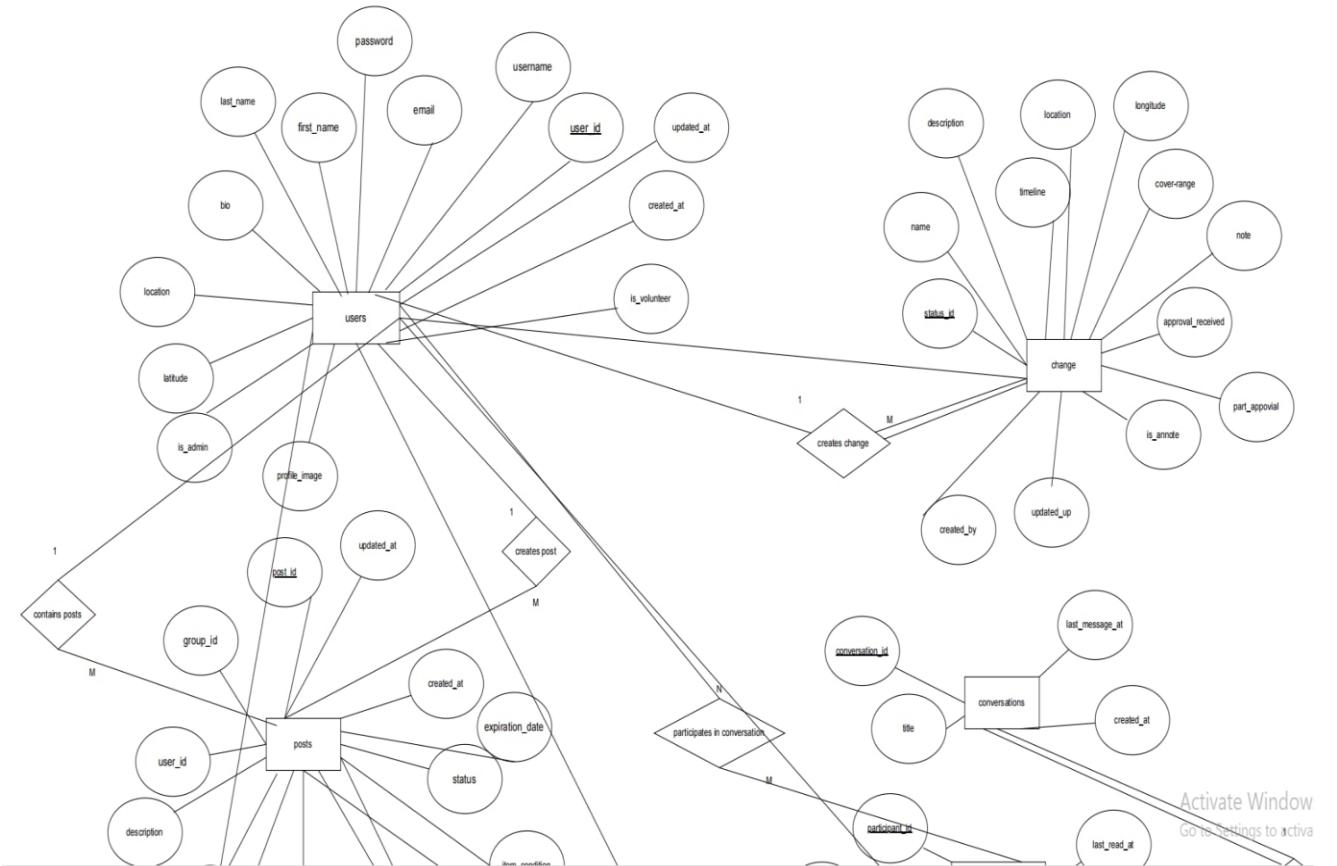


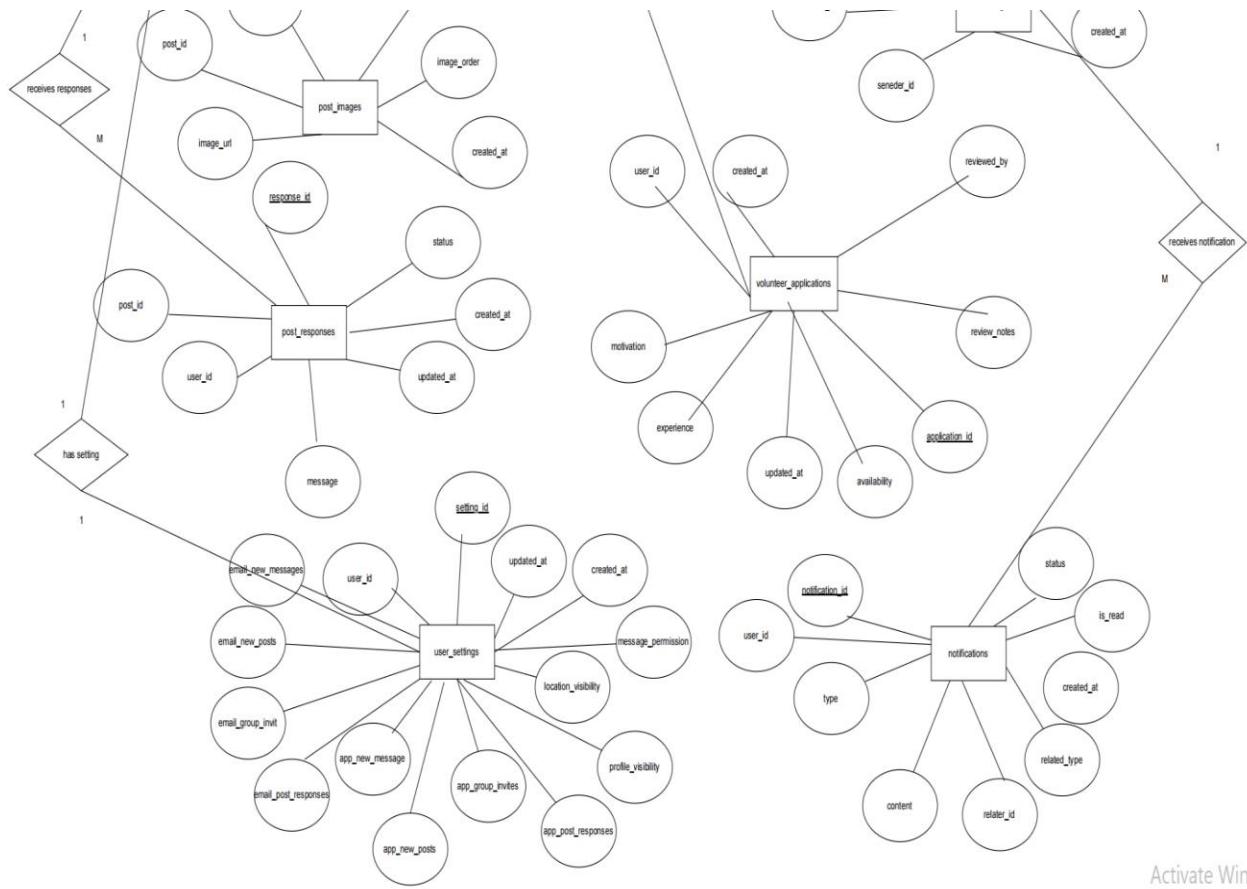
Database Table:



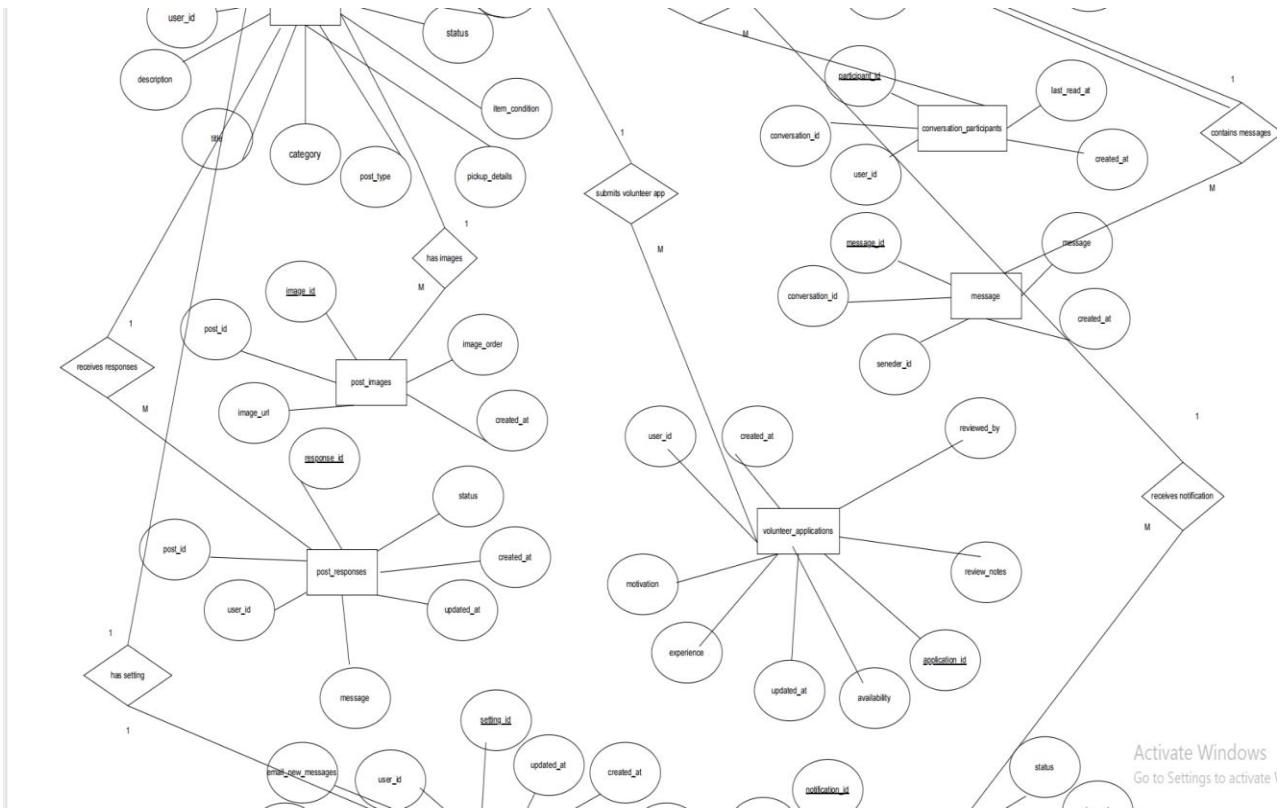
Database ERD:





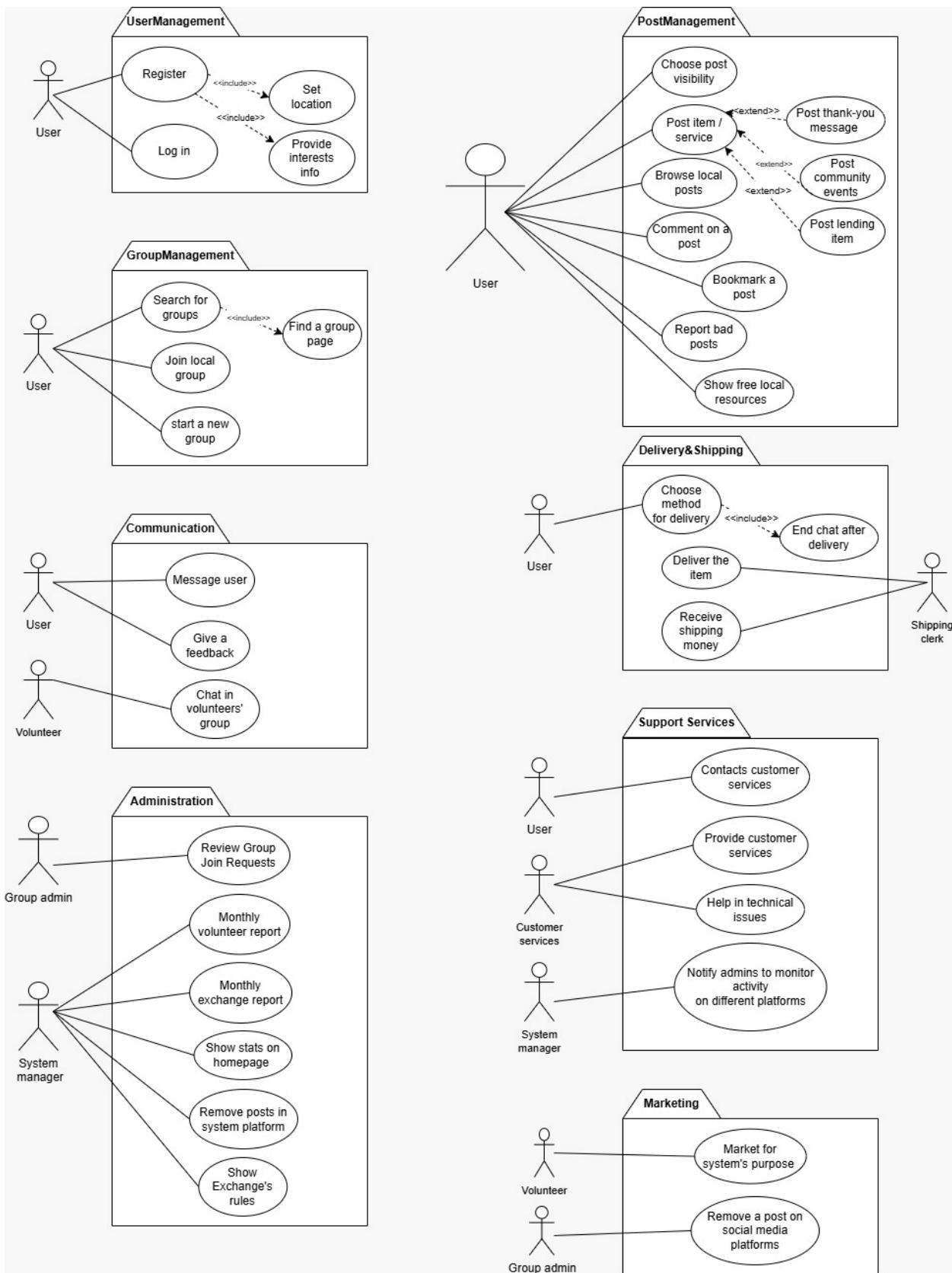


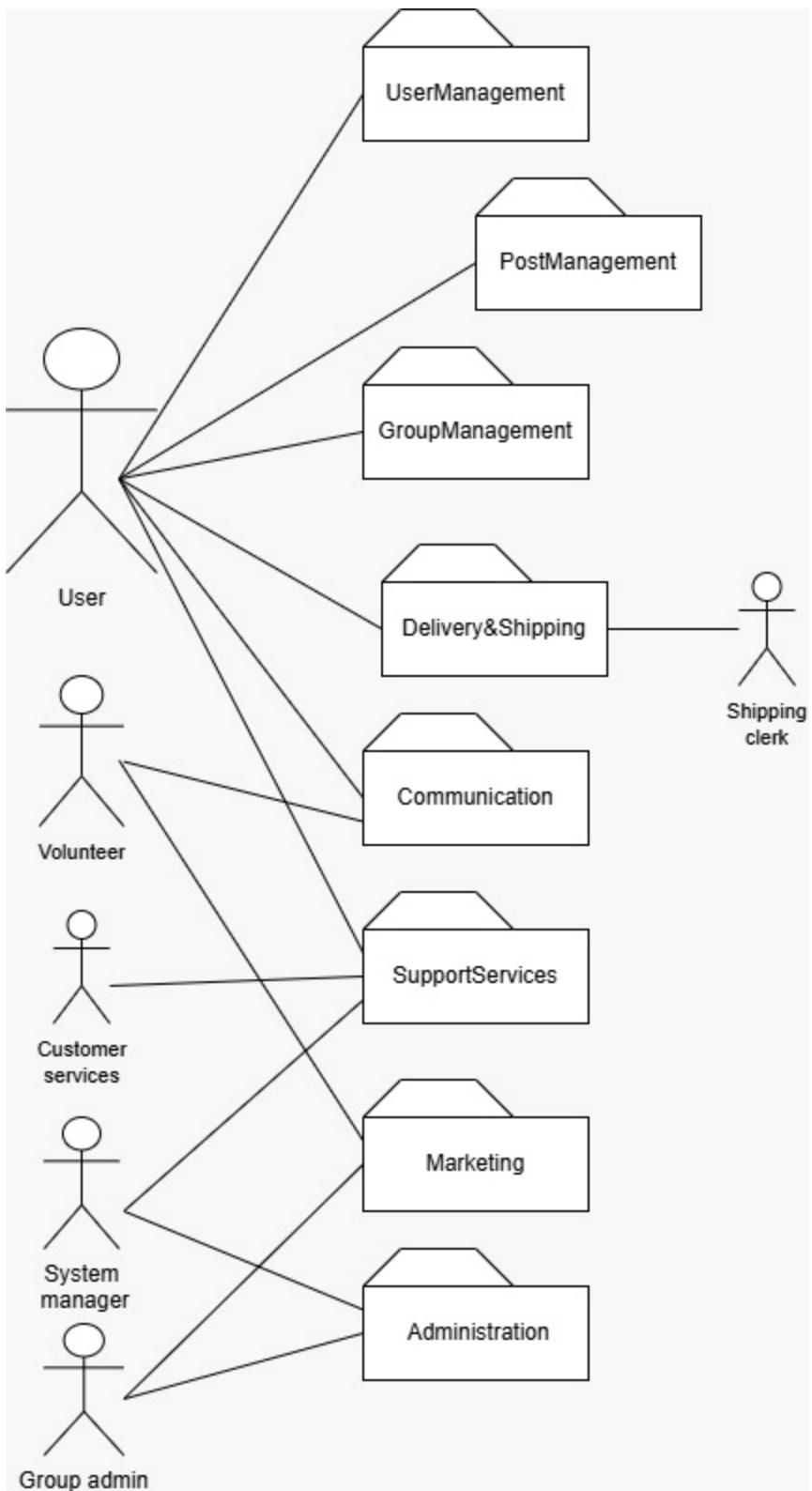
Activate Window

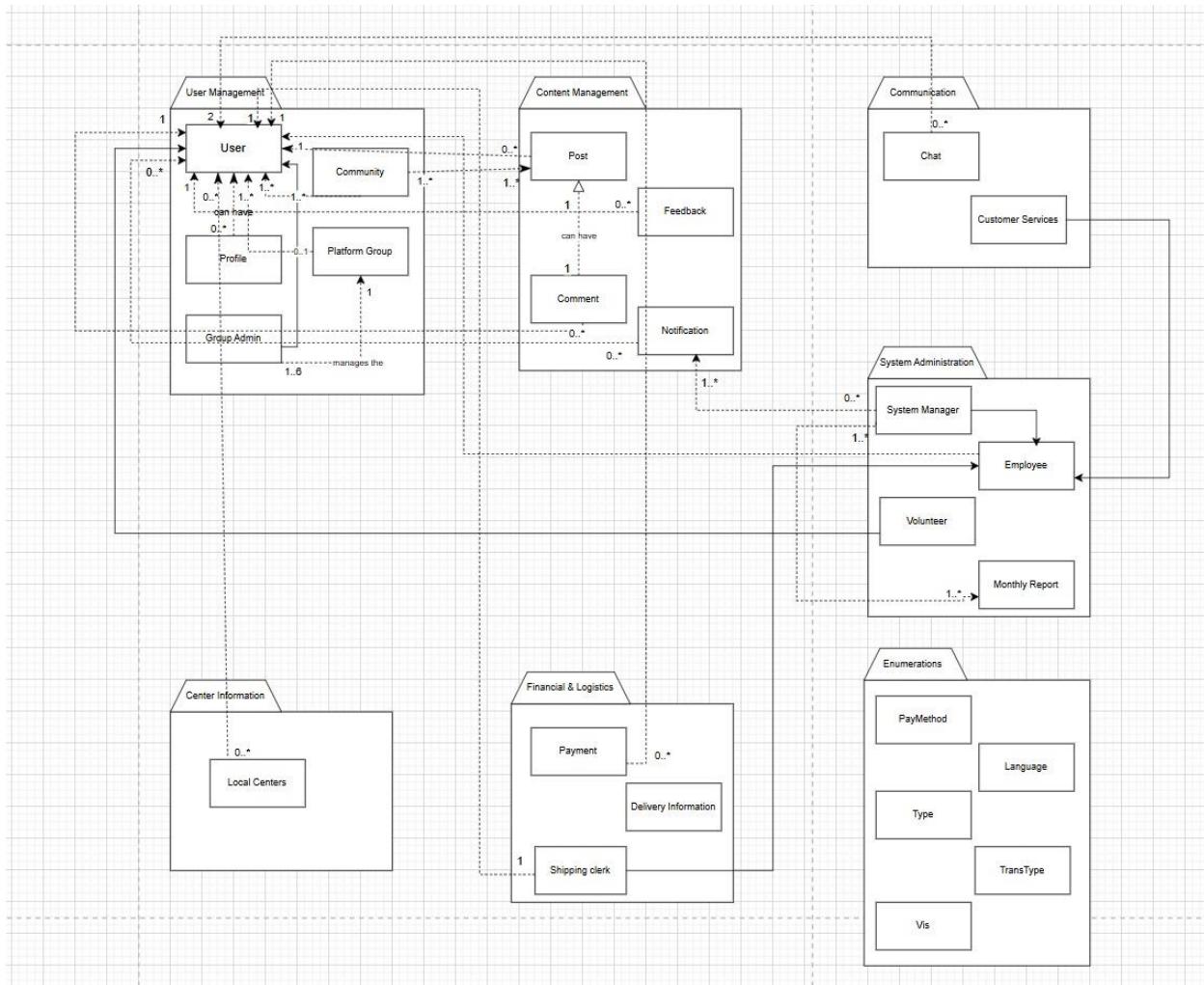


Activate Windows
Go to Settings to activate !

Pachage Diagram:

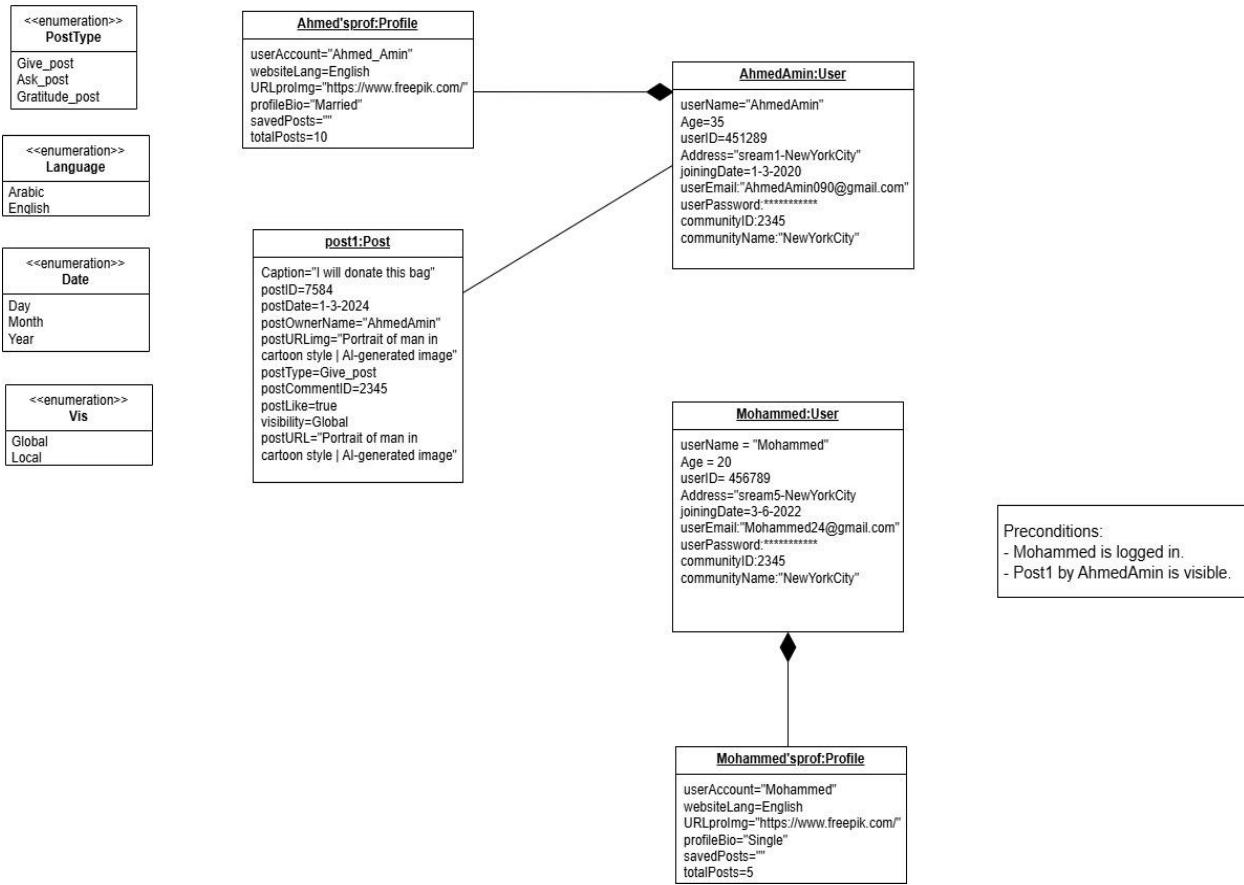




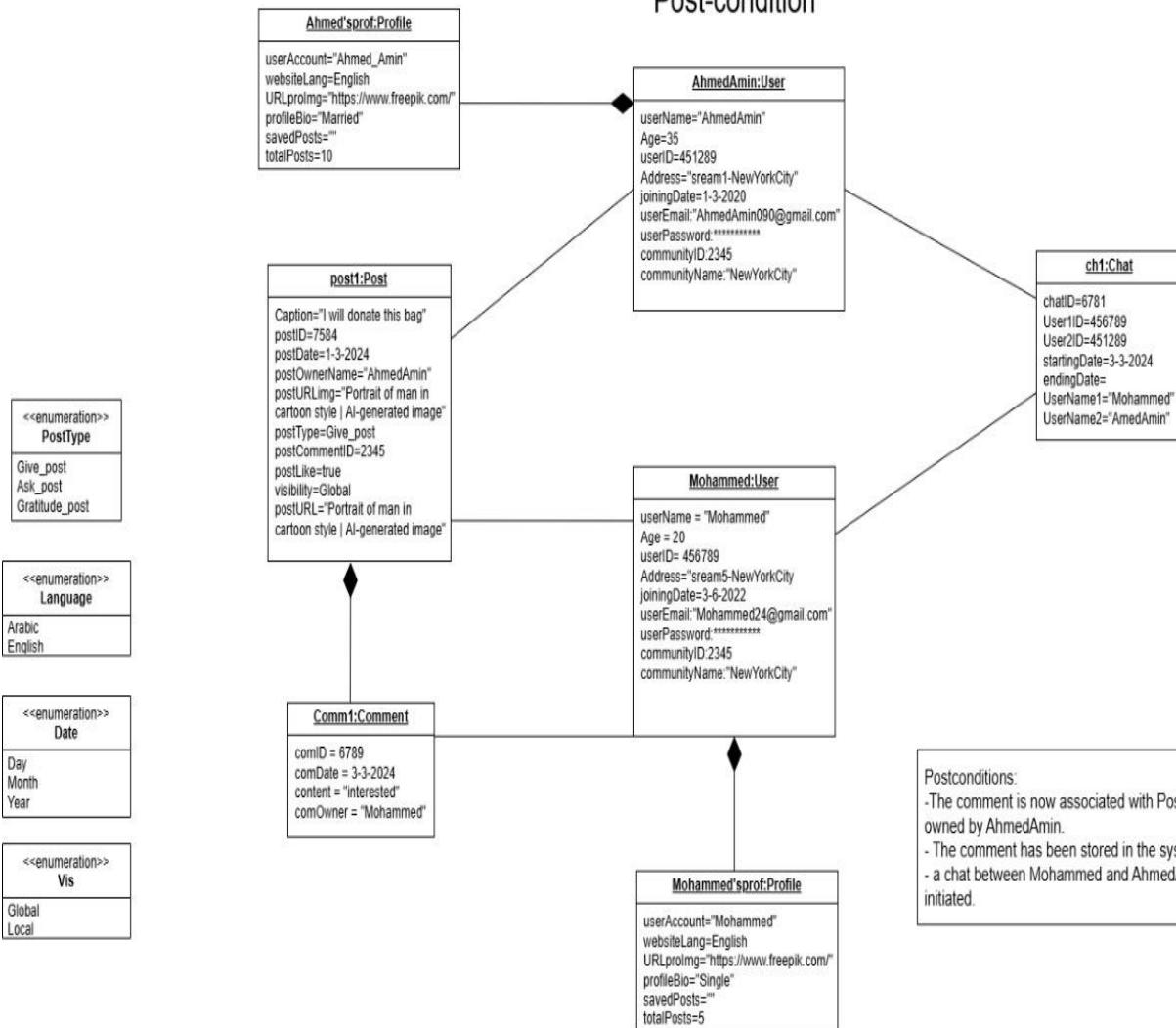


Object diagram:

Comment on a post
pre-condition



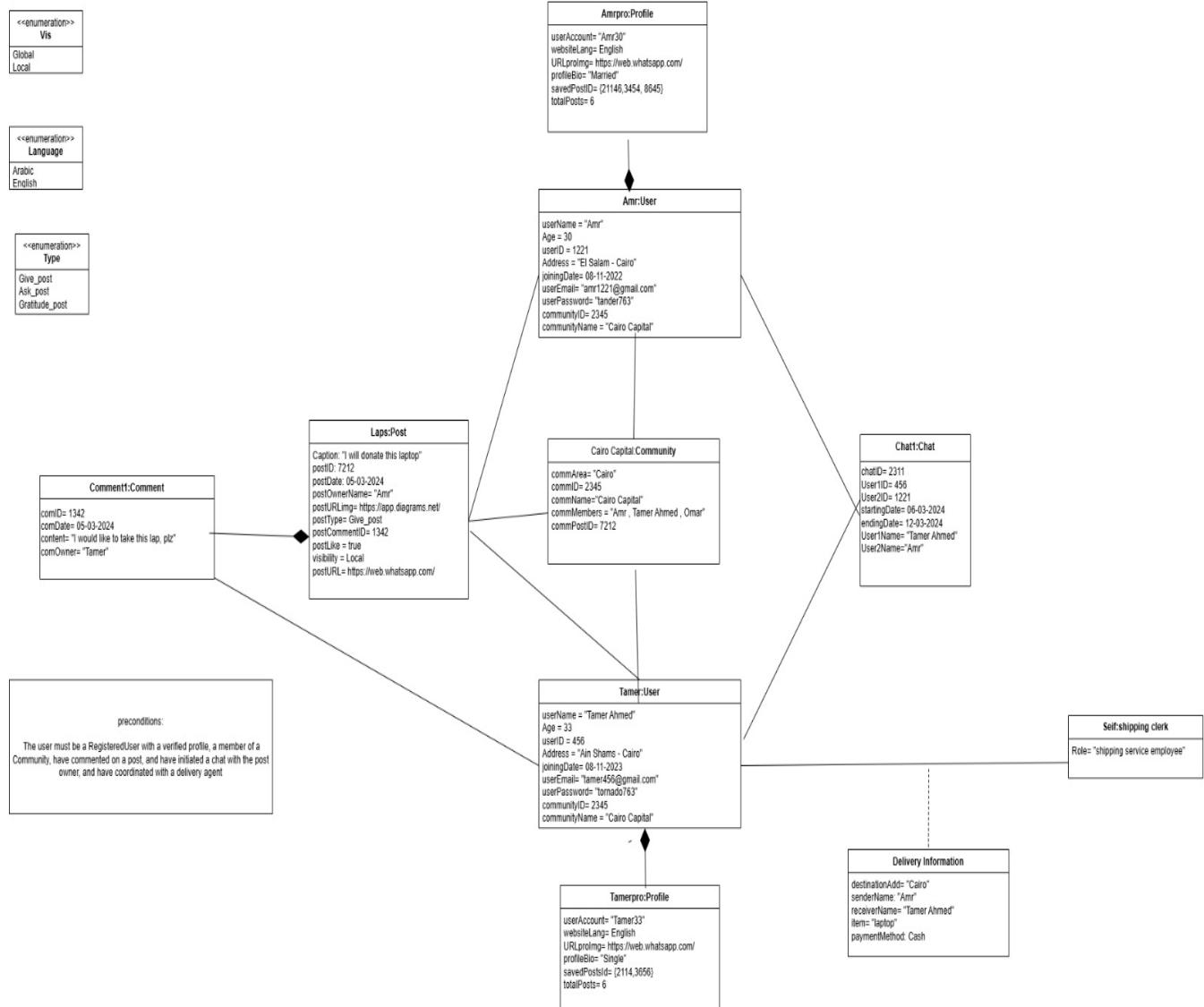
Comment on a post Post-condition

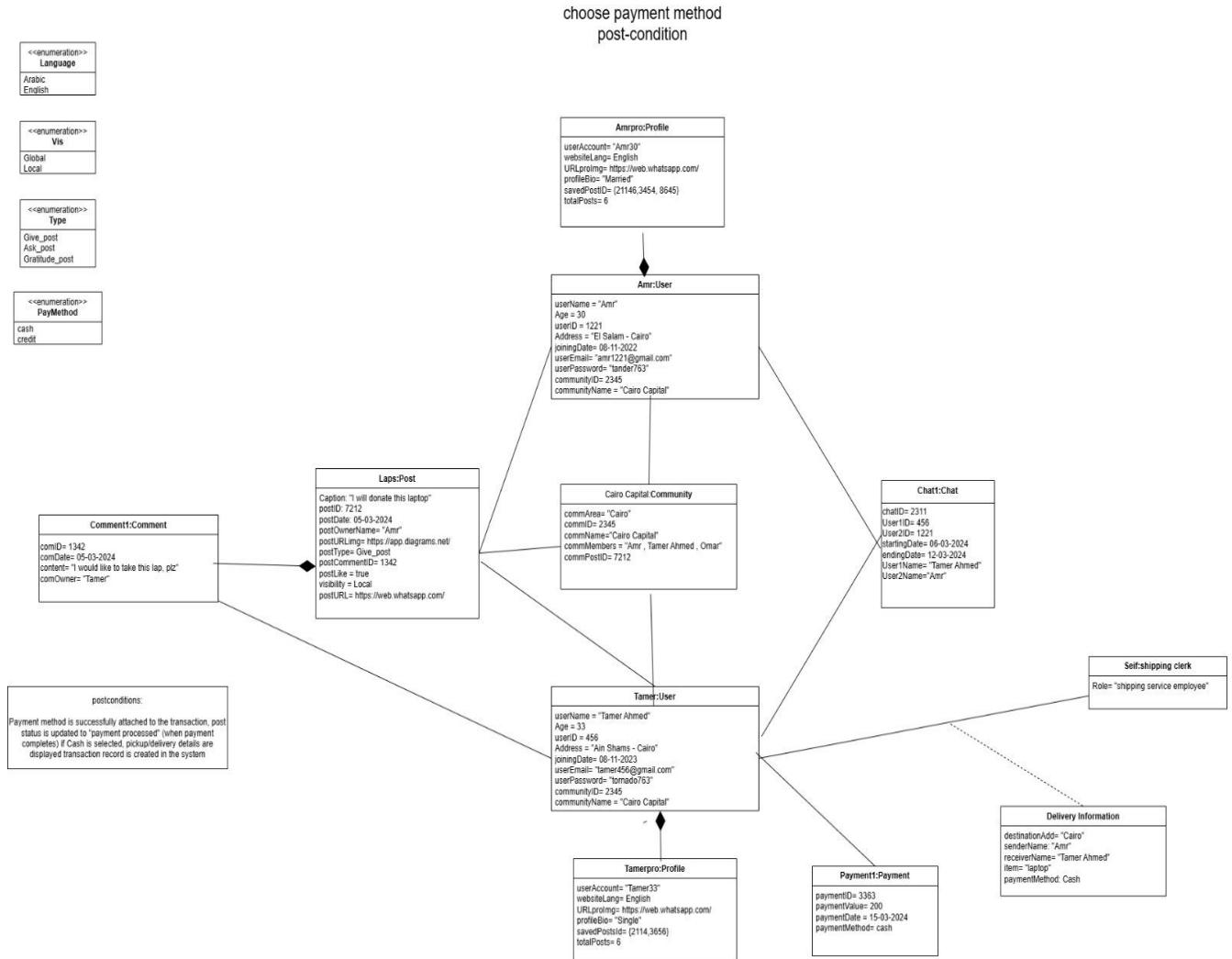


Postconditions:

- The comment is now associated with Post1, which is owned by AhmedAmin.
- The comment has been stored in the system database.
- a chat between Mohammed and AhmedAmin may be initiated.

Choose payment method
pre-condition





Create a post pre-condition

Preconditions:
User must be a RegisteredUser ,have posting permissions and Caption and postType must be valid.

Sama:User
userName= "Sama" Age = 21 userID= 20220786 address= Alexendria joiningDate= 05-04-2025 userEmail= "sama786@gmail.com" userPassword= "11sama22" communityID= 220974 communityName= "Alex"

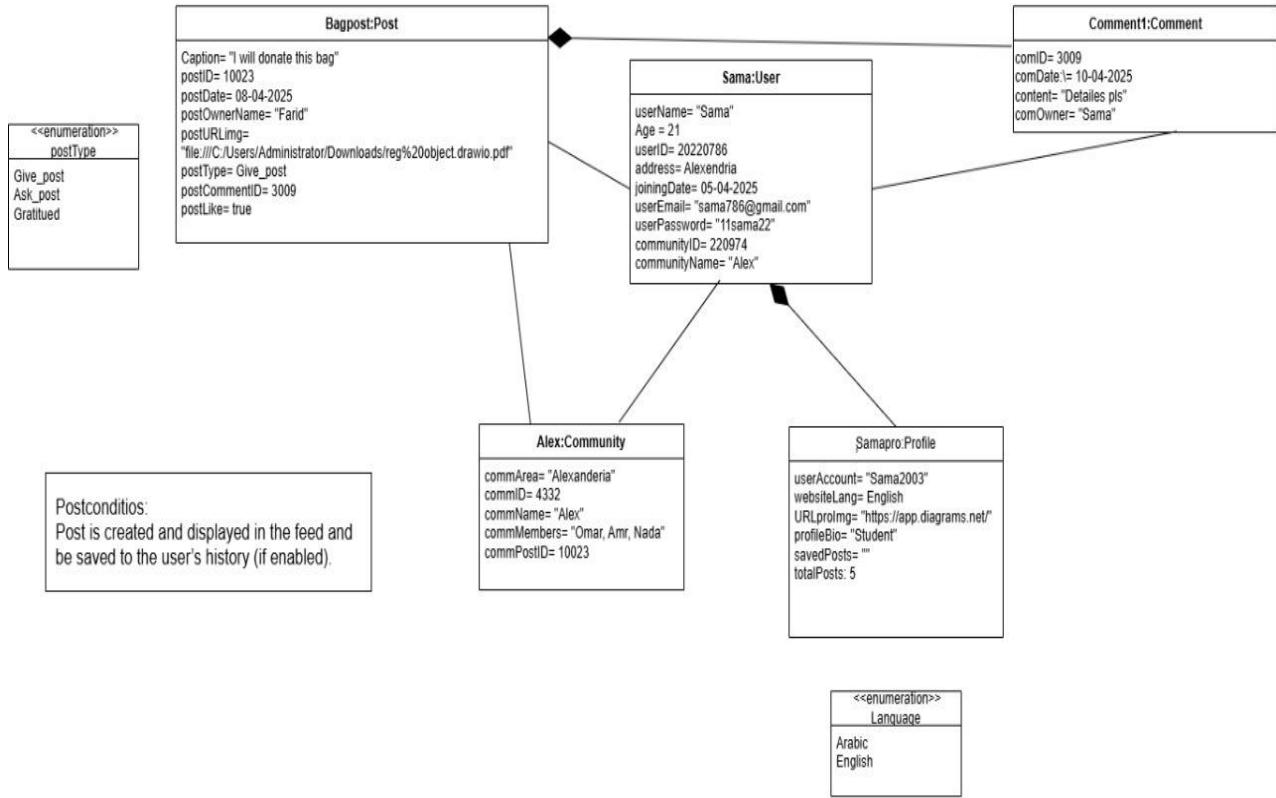
Alex:Community
commArea= "Alexanderia" commID= 4332 commName= "Alex" commMembers= "Omar, Amr, Nada" commPostID= 10023

Samapro:Profile
userAccount= "Sama2003" websiteLang= English URLprolmg= "https://app.diagrams.net/" profileBio= "Student" savedPosts= "" totalPosts: 5

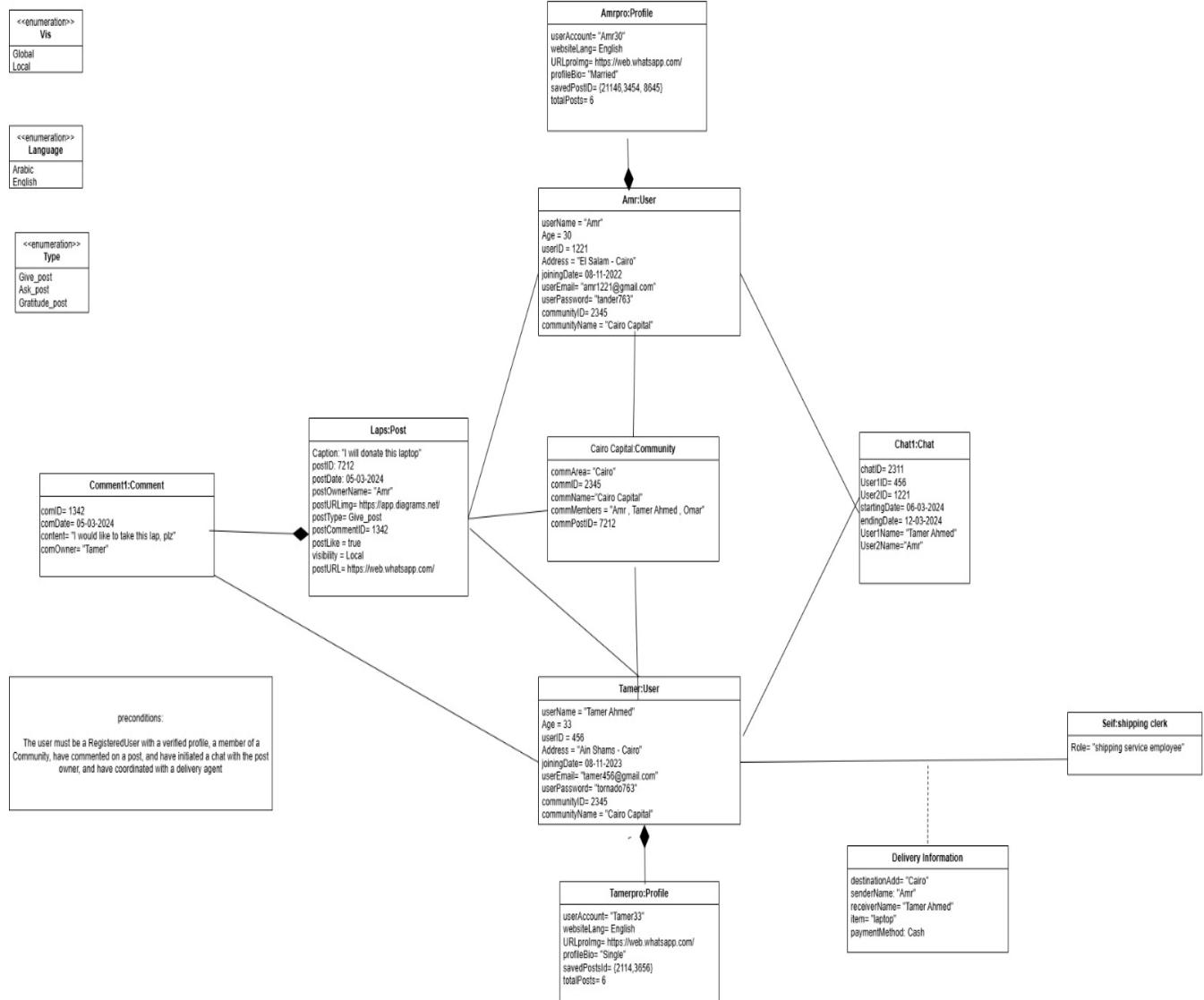
<<enumeration>>
Language Arabic English

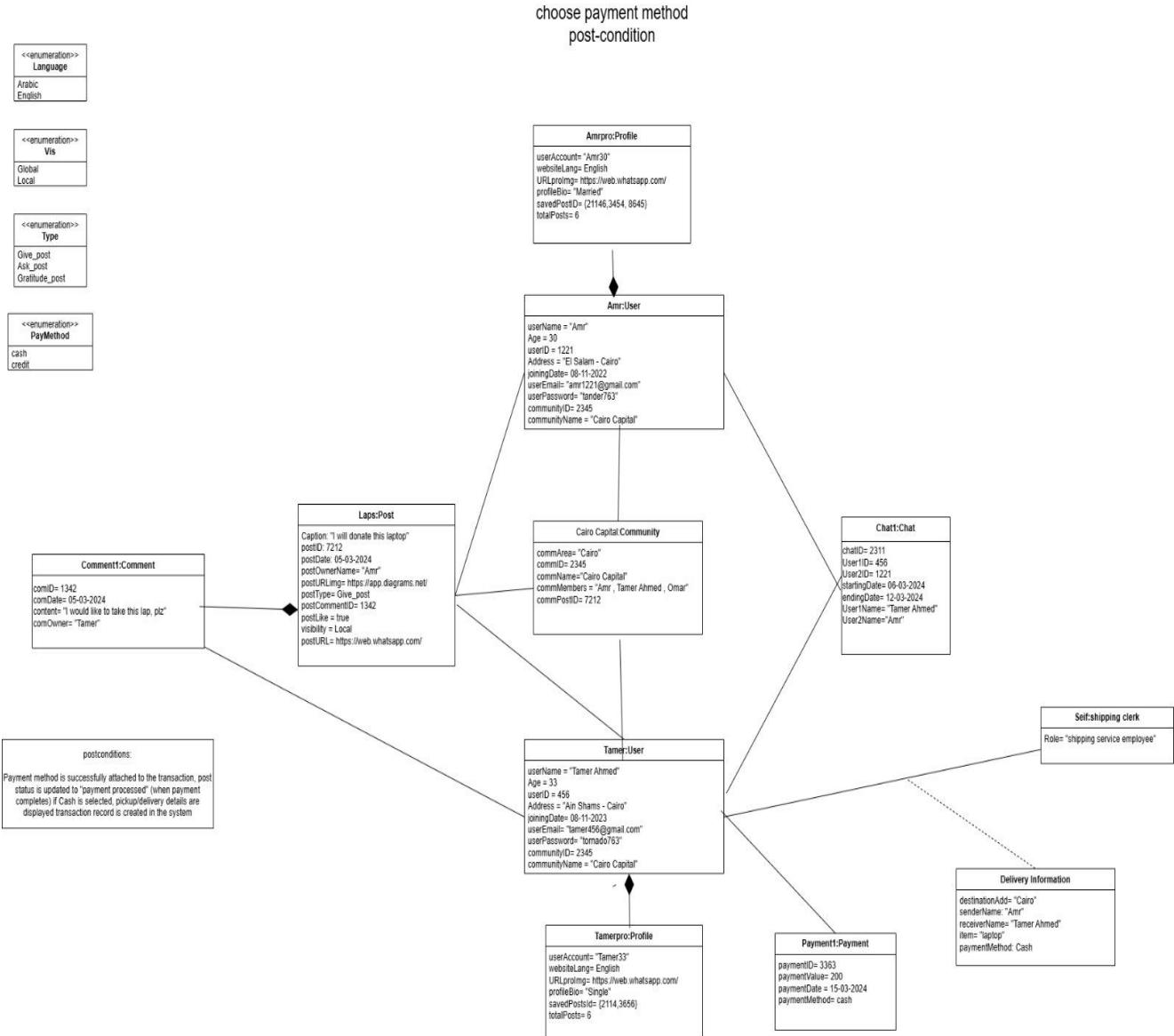
Create a post

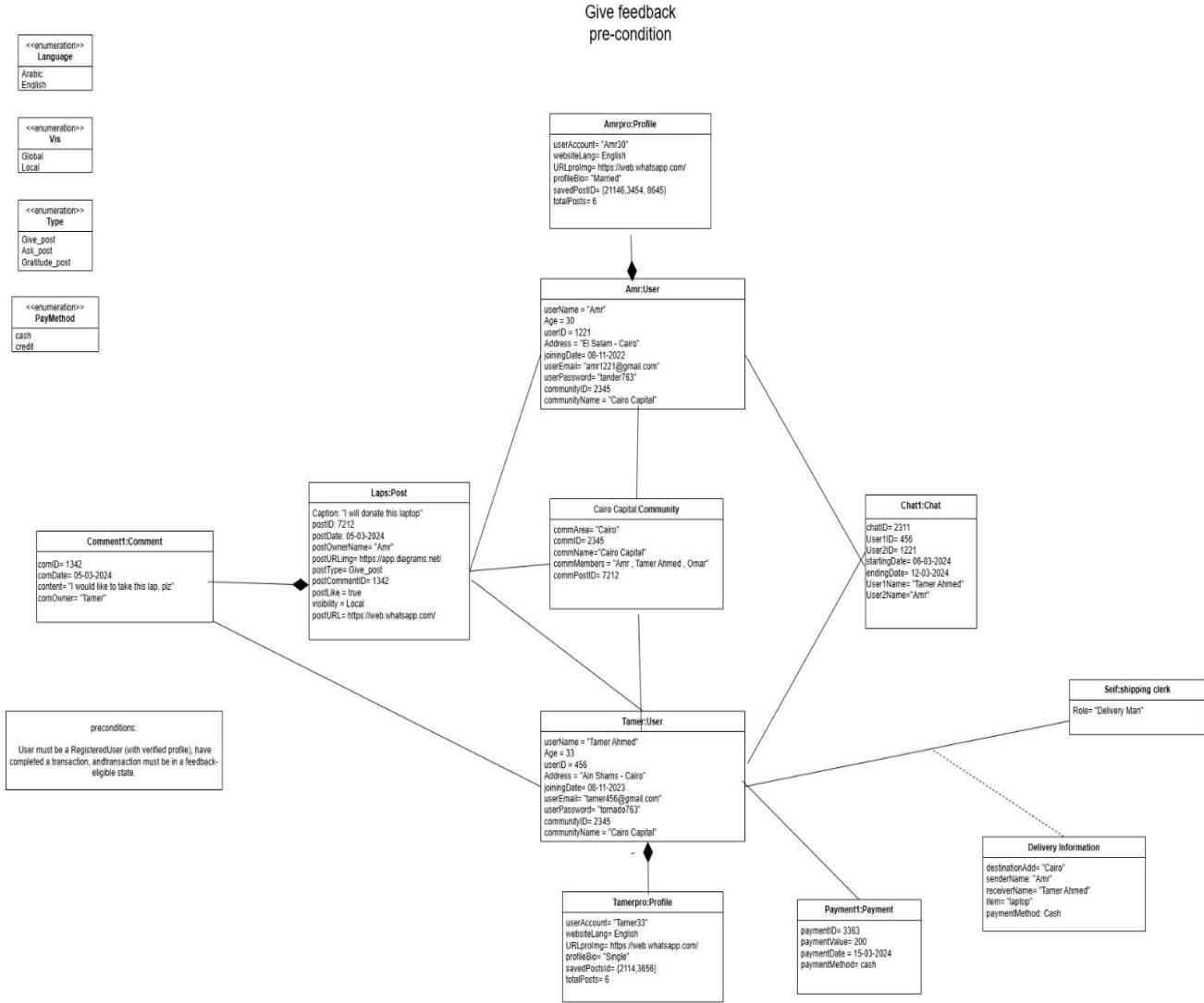
Post-condition

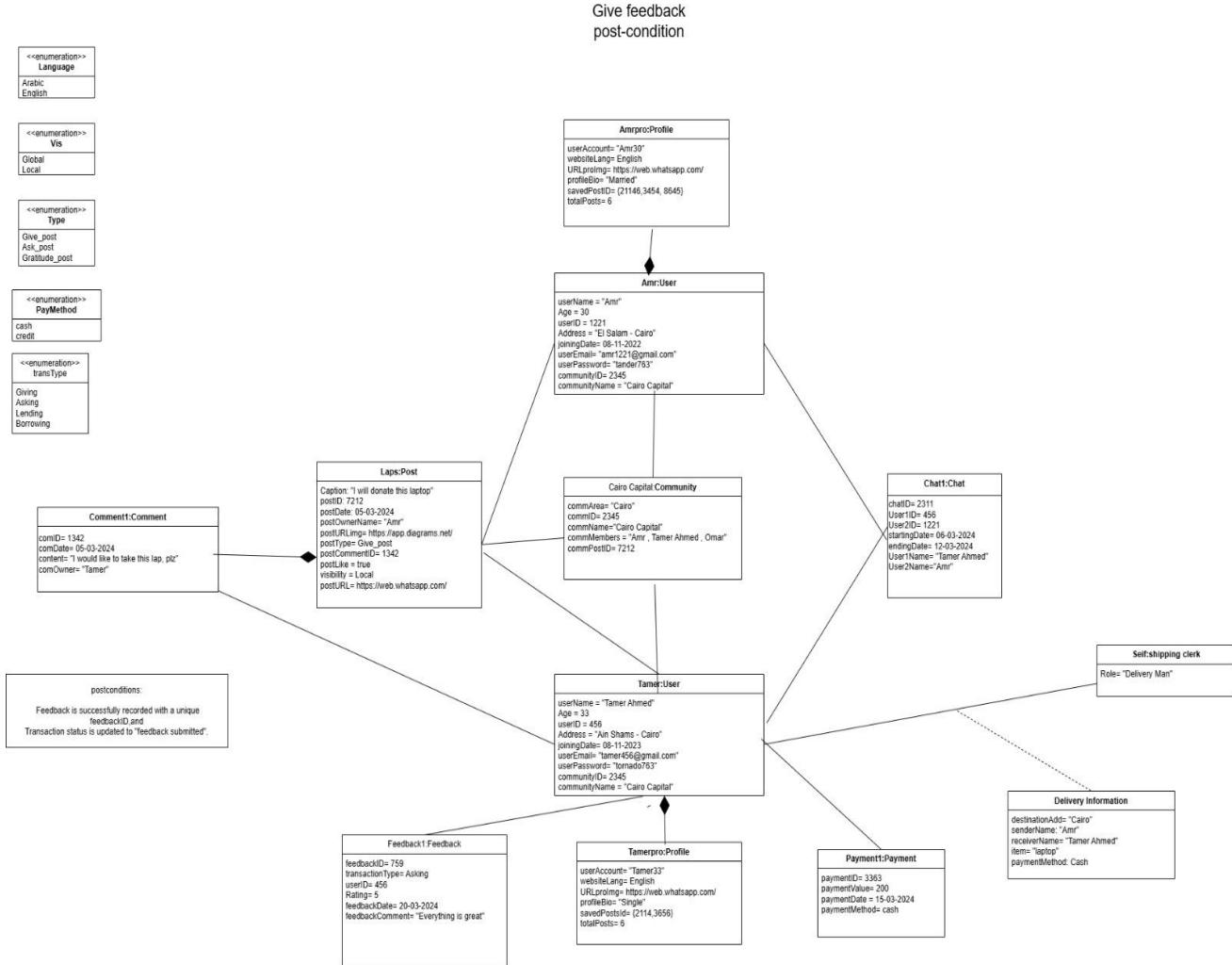


Choose payment method
pre-condition

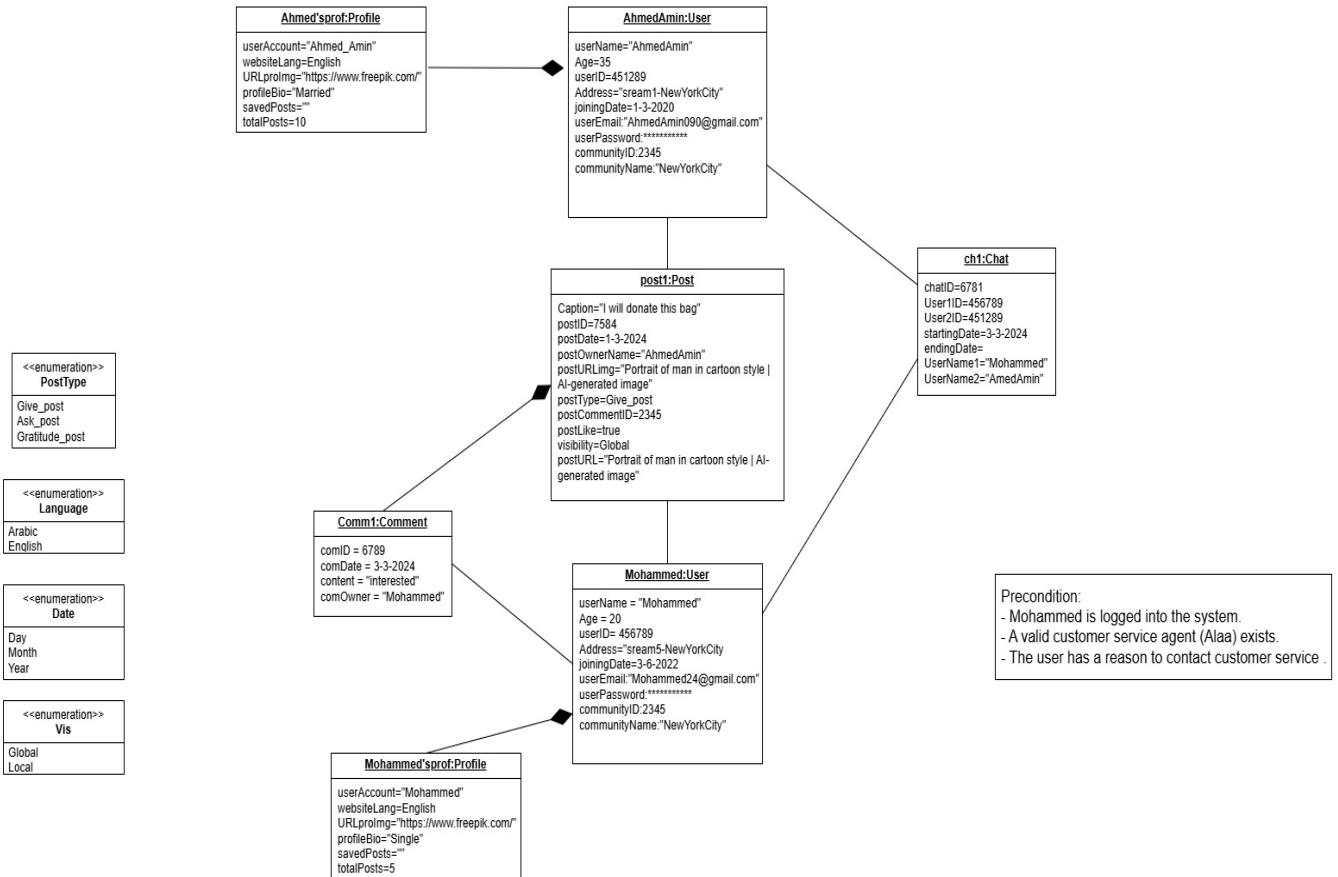




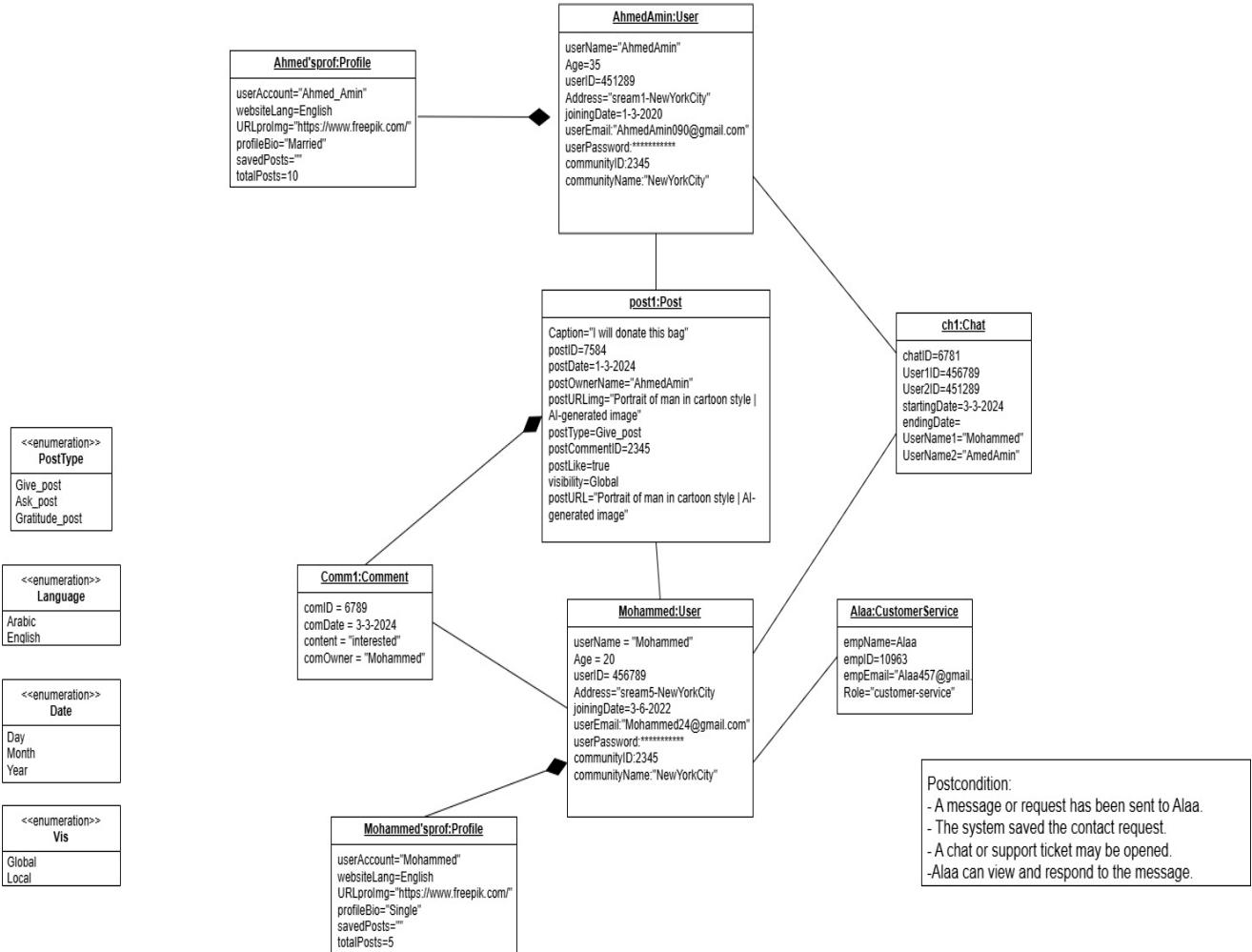




Contact customer service
pre-condition

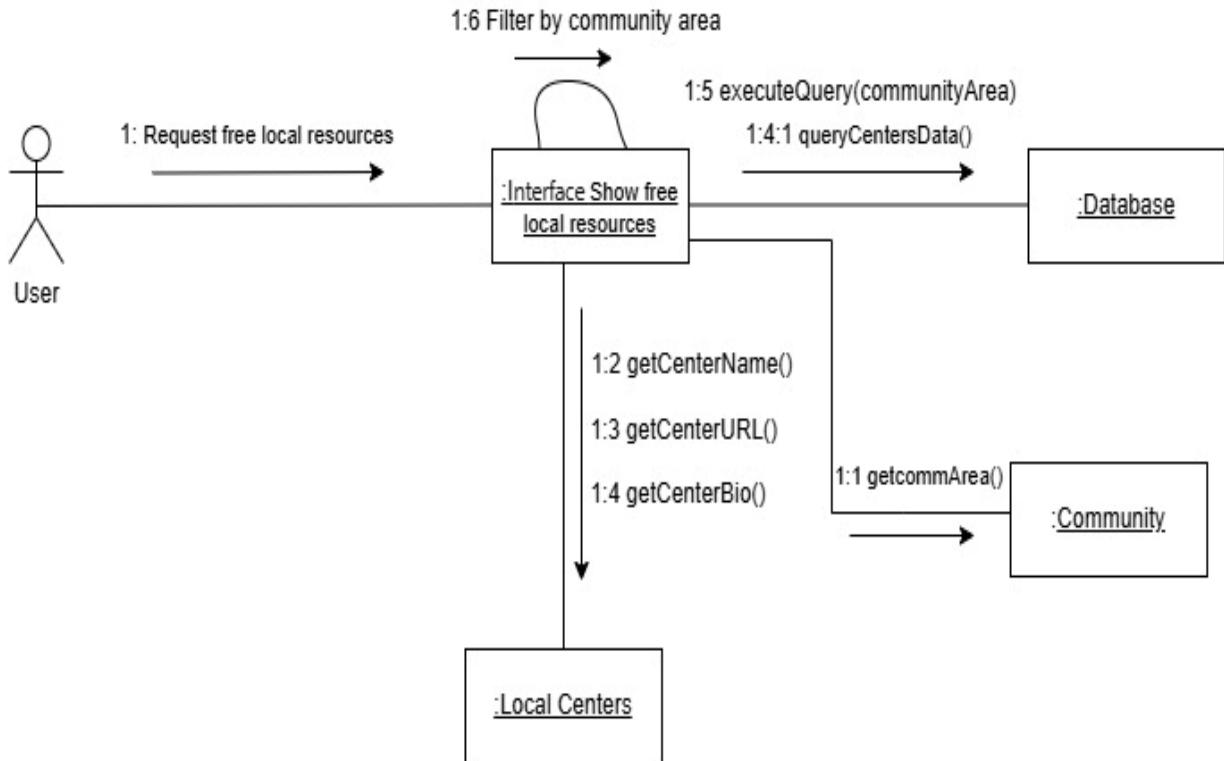


Contact customer service
post-condition

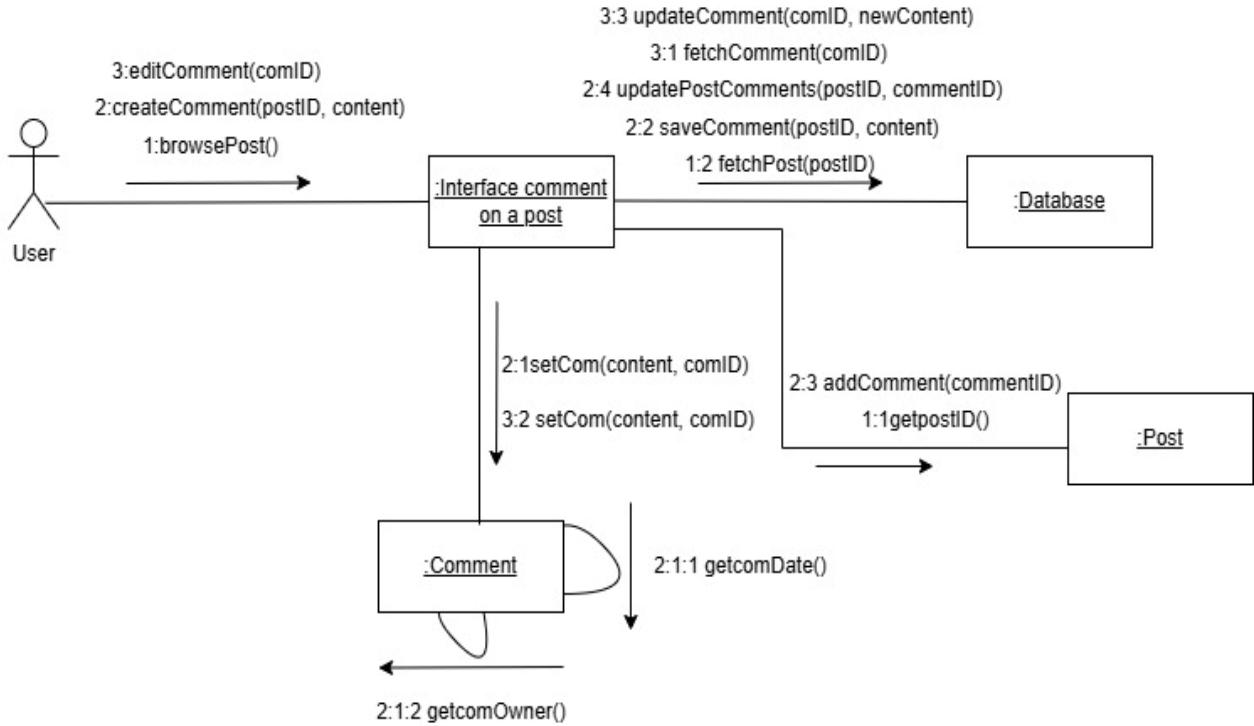


Communication diagrams :

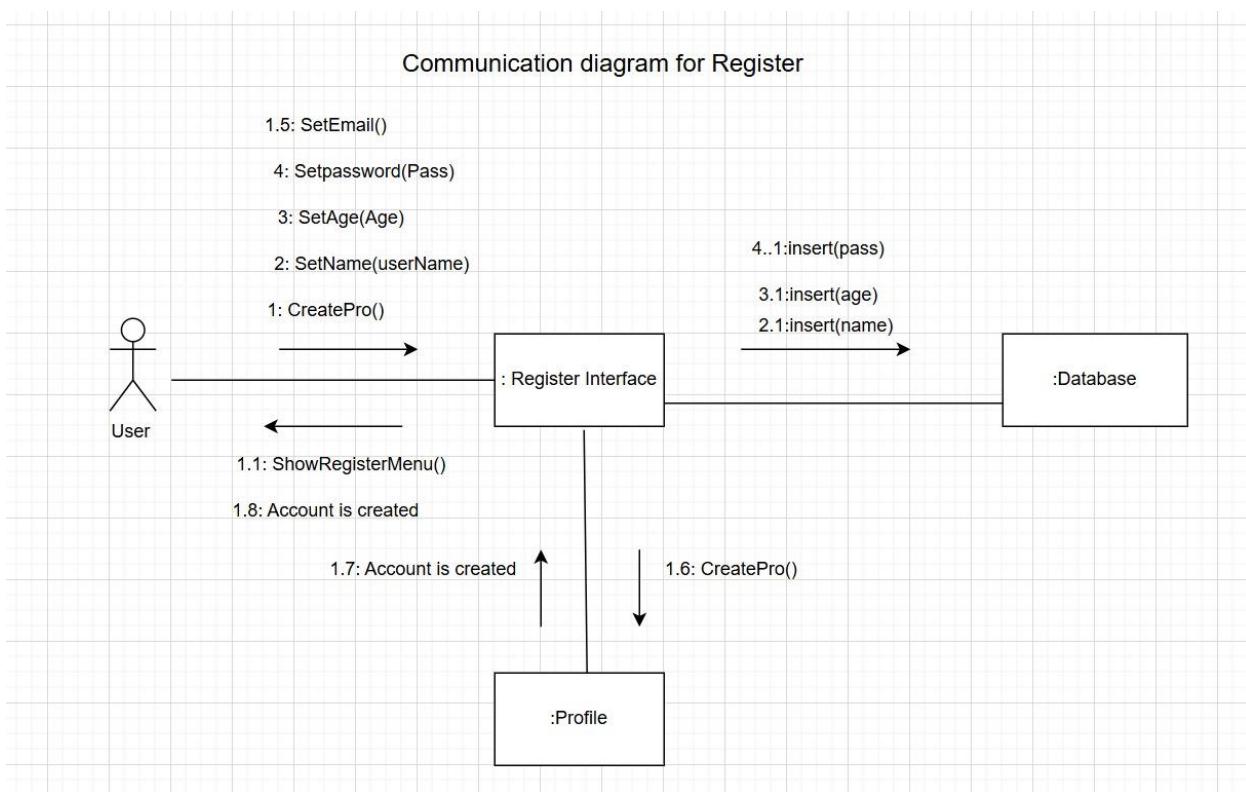
Show free local resources



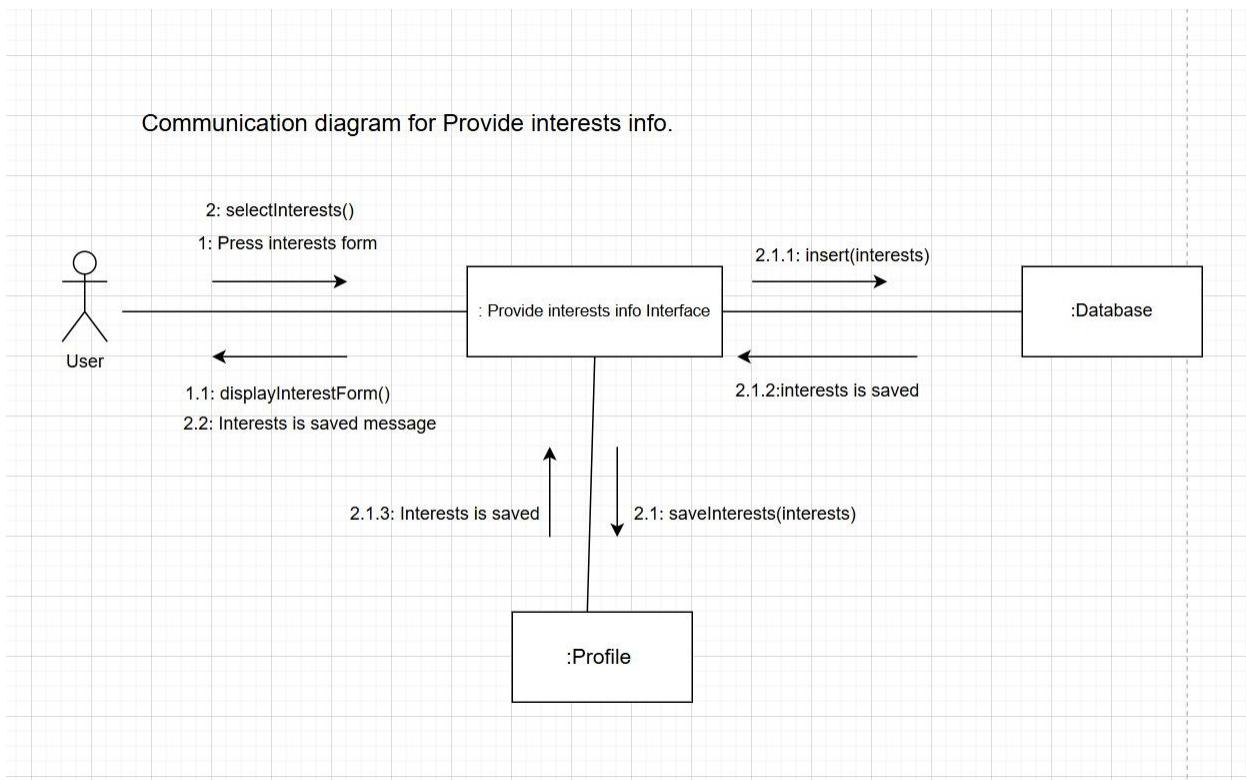
Comment on a post

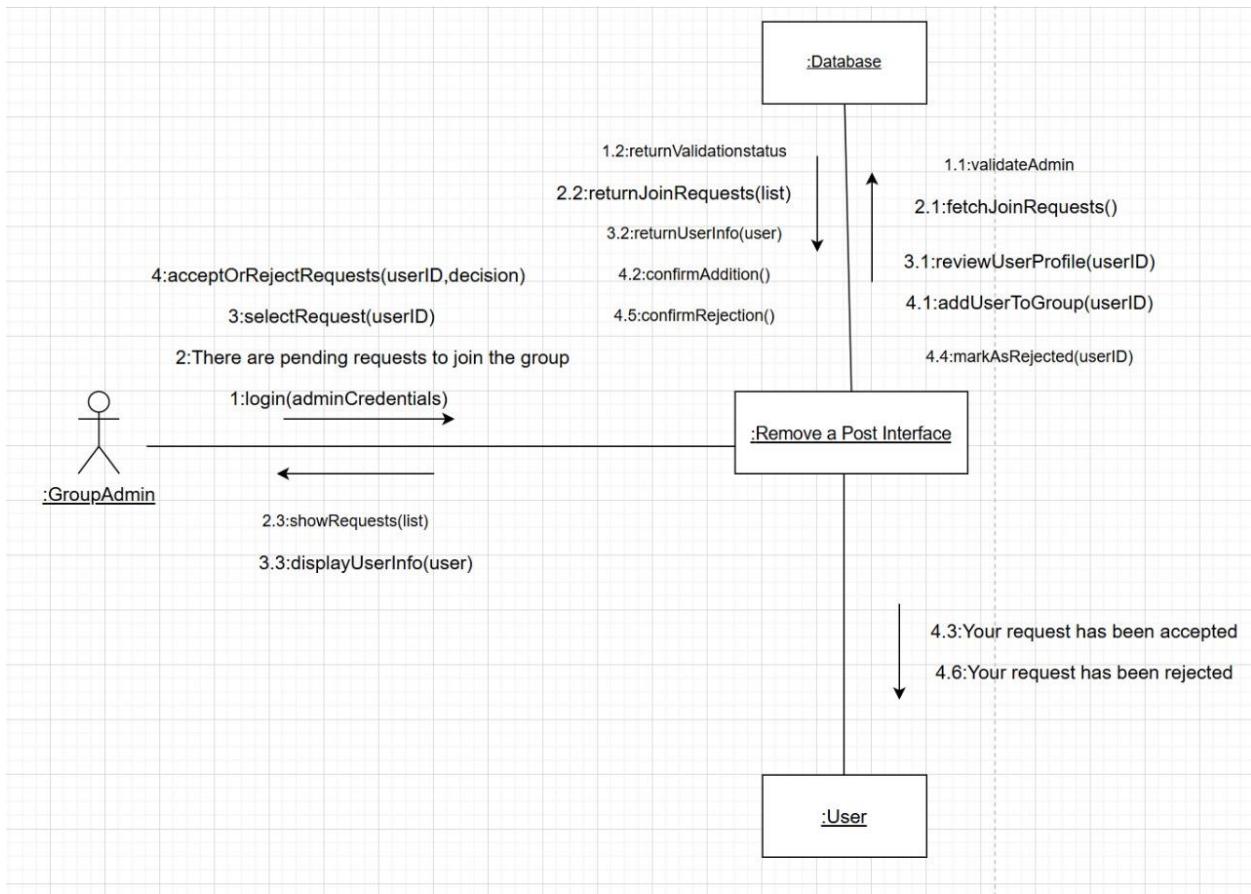


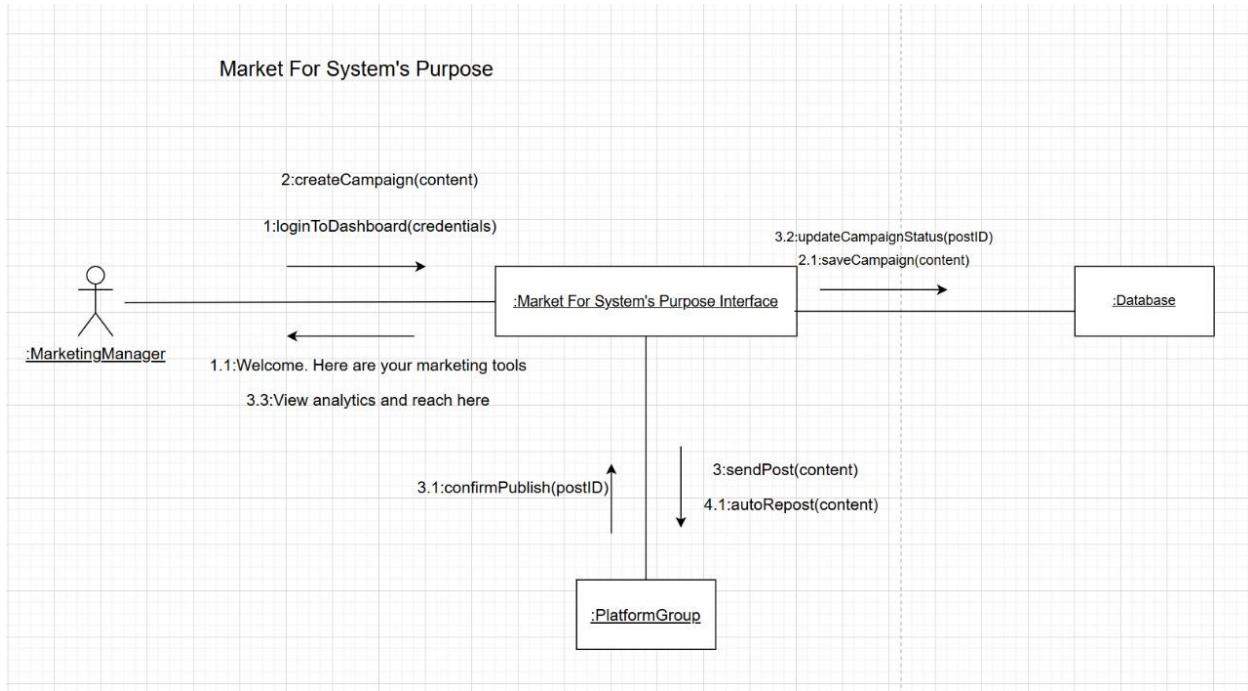
Communication diagram for Register



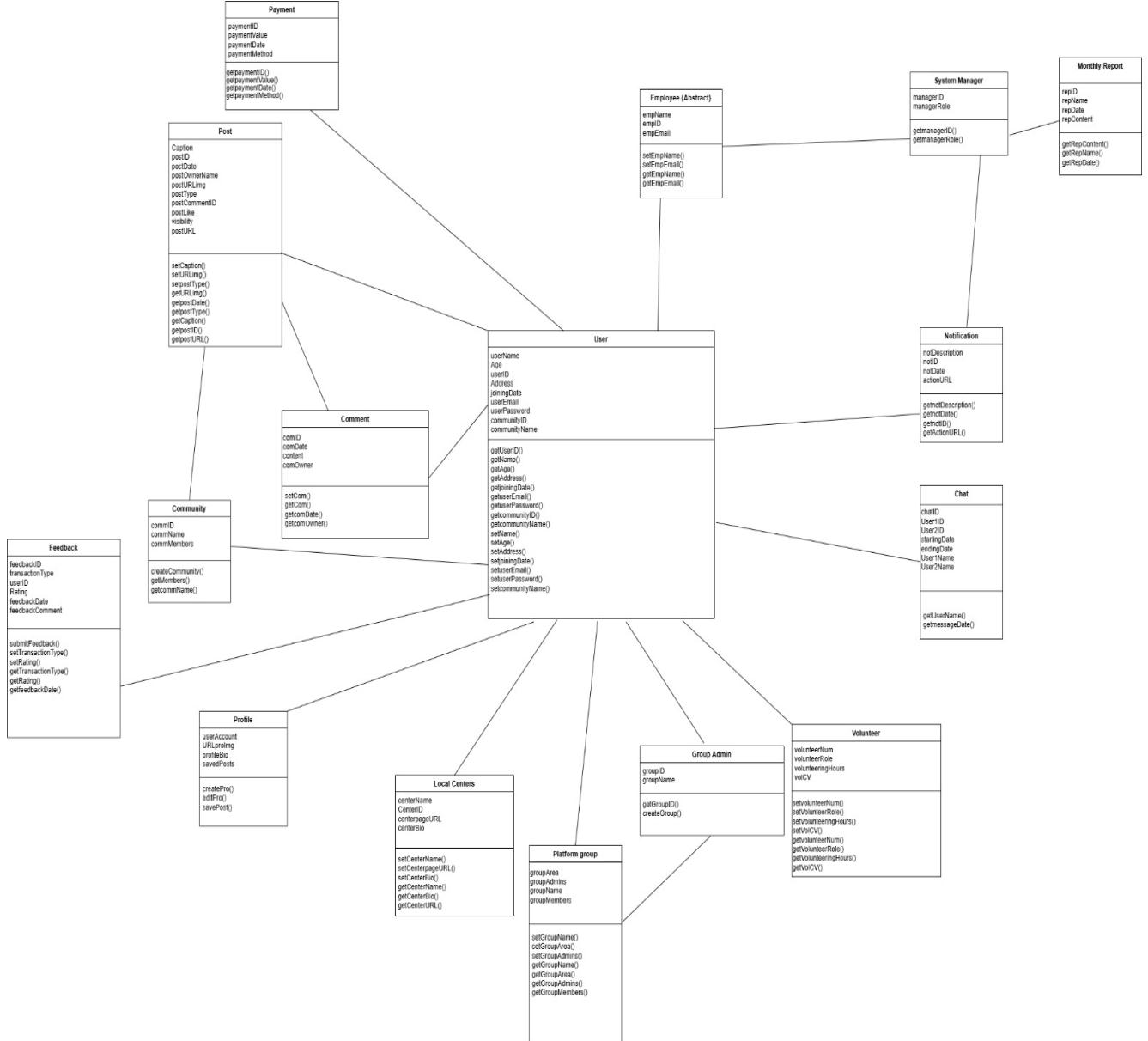
Communication diagram for Provide interests info.



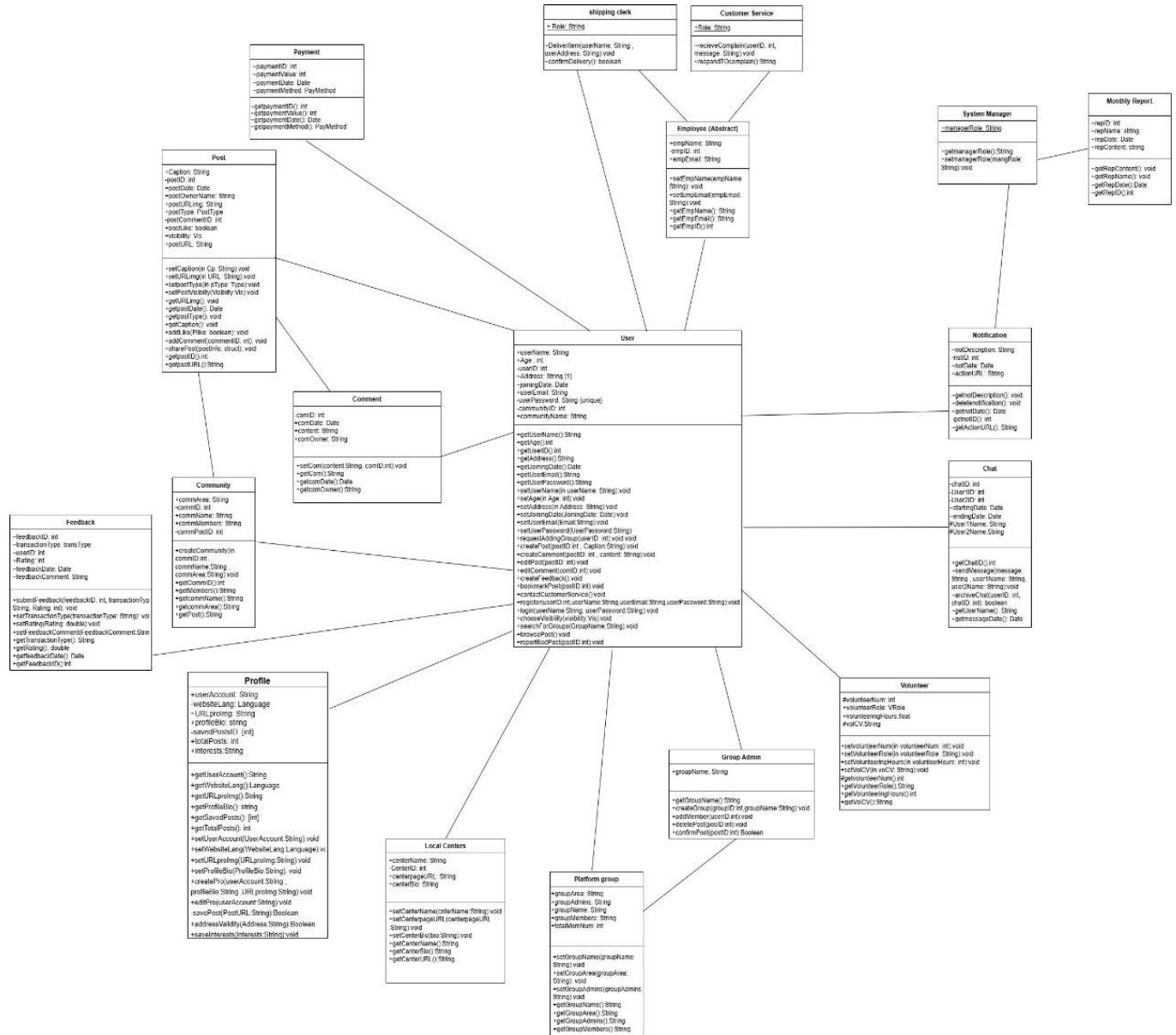




Class diagram: version 1



Version 2:



Version 3:

