

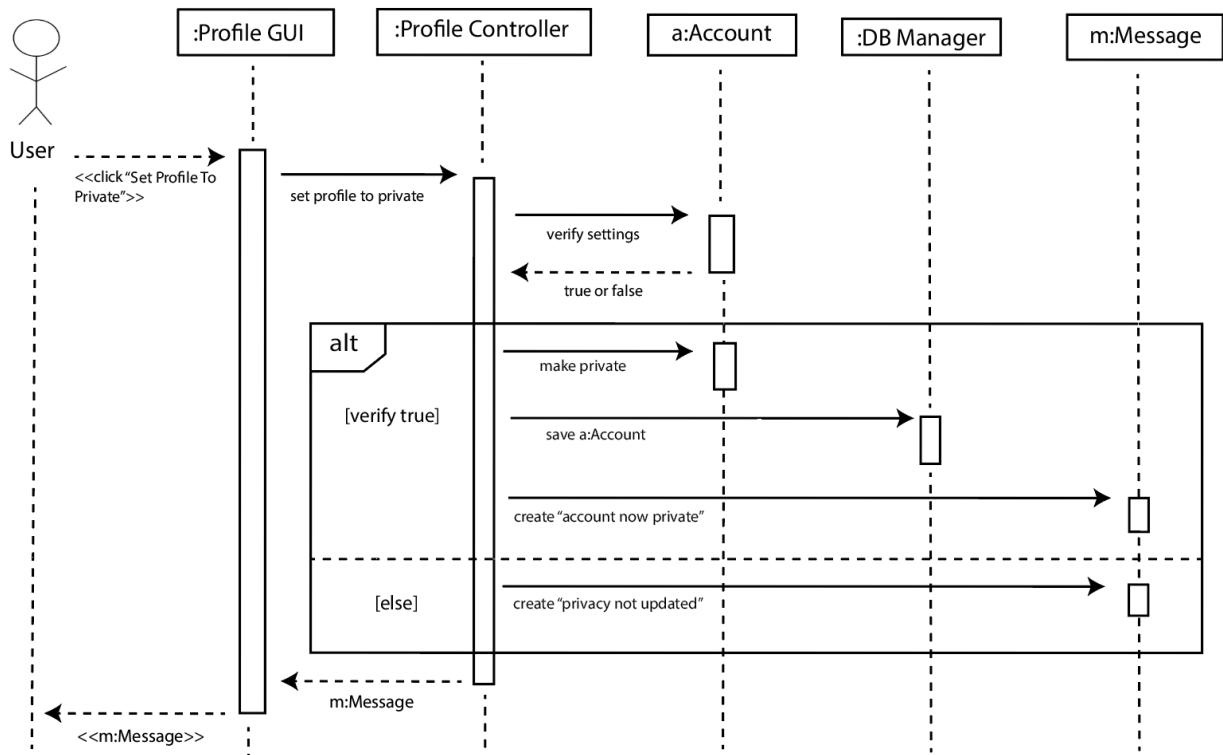
Sequence Diagrams For WEBMB's Poppin

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Analysis Sequence Diagrams and Steps

Set profile to private

4. The system sets the profile as private, so only approved followers can view it.

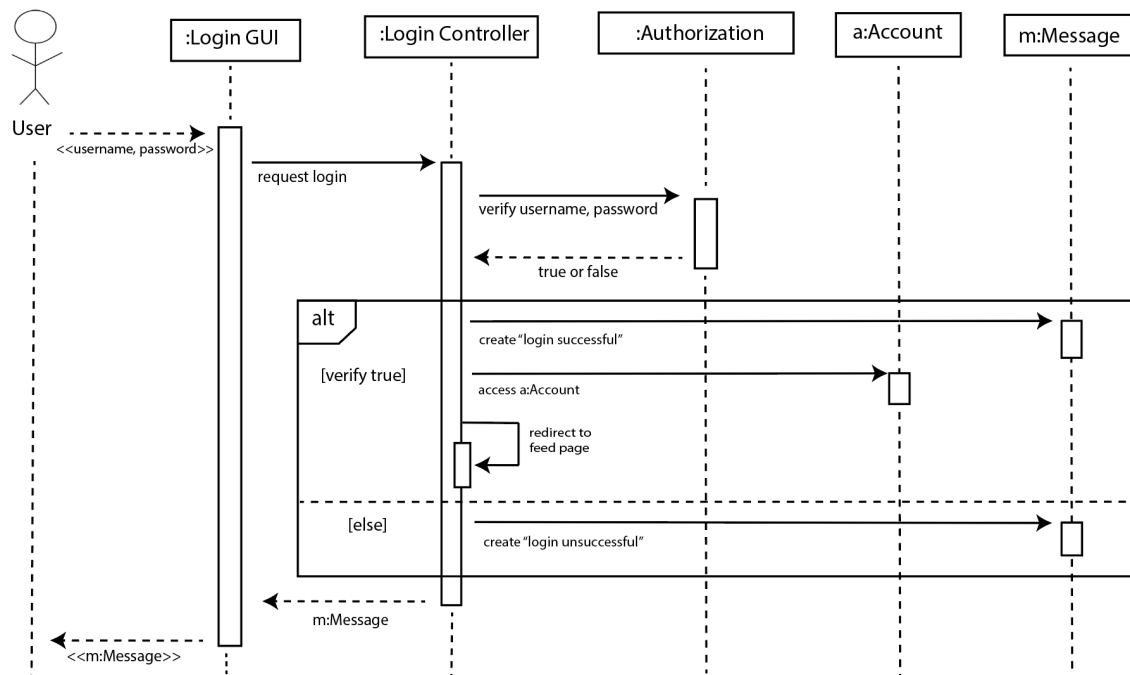


#	Subject	Subject Action	Other Data/ Objects	Object Acted Upon
4.1	User	clicks	"Set profile as private" button	Profile GUI
4.2	Profile GUI	sets	profile to private	Profile Controller
4.3	Profile Controller	verifies	settings	Account
4.4	Account	returns	true or false	Profile Controller

4.4	If true is returned then			
4.4.1	Profile Controller	makes	private	account
4.4.2	Profile Controller	saves	Account	Database Manager
4.4.3	Profile Controller	creates	“Account now private”	message
4.5	else			
4.5.1	Profile Controller	creates	“Privacy not updated”	message
4.6	Profile Controller	returns	message	Profile GUI
4.7	Profile GUI	Displays	message	User

Login

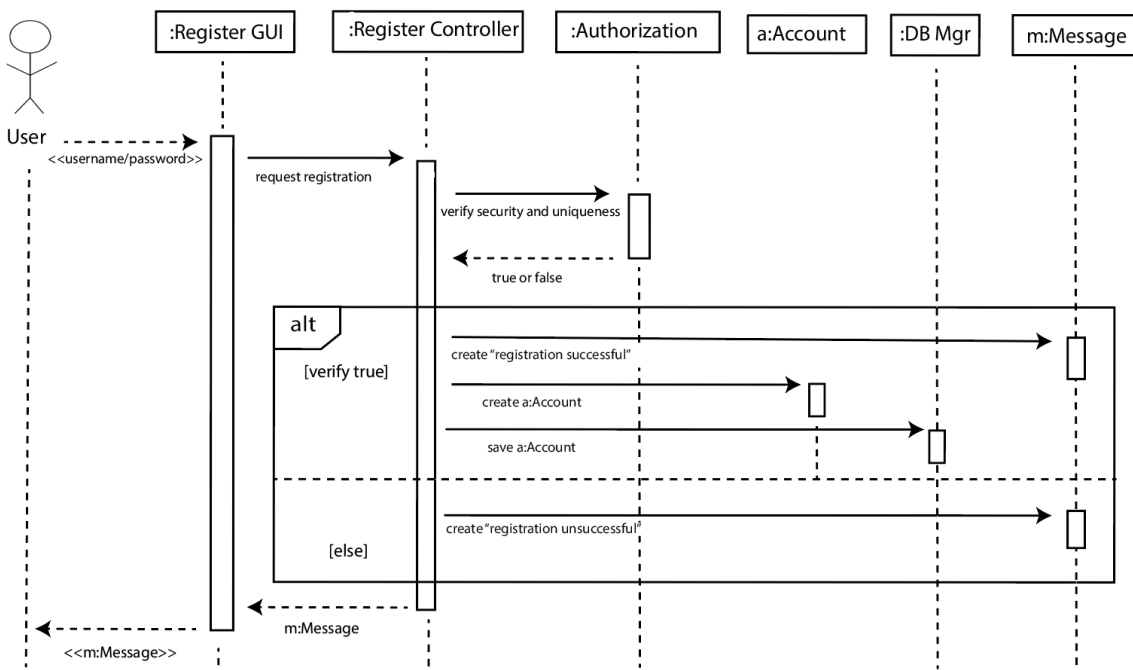
- 4a. The system verifies the user’s input. If it’s correct, the system logs the user into the Poppin app and takes them to their feed.
- 4b. If it’s incorrect, the system displays an error message.



#	Subject	Subject Action	Other Data/Objects	Object Acted Upon
3	User	submits	username, password	Login GUI
4.1	Login GUI	requests	login for user	Login Controller
4.2	Login Controller	verifies	username, password	Authorization
4.3	Authorization	returns	true or false	Login Controller
4.3	If true is returned then			
4.3.1	Login Controller	creates	"Login successful"	message
4.3.2	Login Controller	accesses		account
4.3.3	Login Controller	redirects	feed page link	Login Controller
4.4	Else			
4.4.1	Login Controller	creates	"Login unsuccessful"	message
4.5	Login Controller	returns	message	Login GUI
4.6	Login GUI	displays	message	User

Register

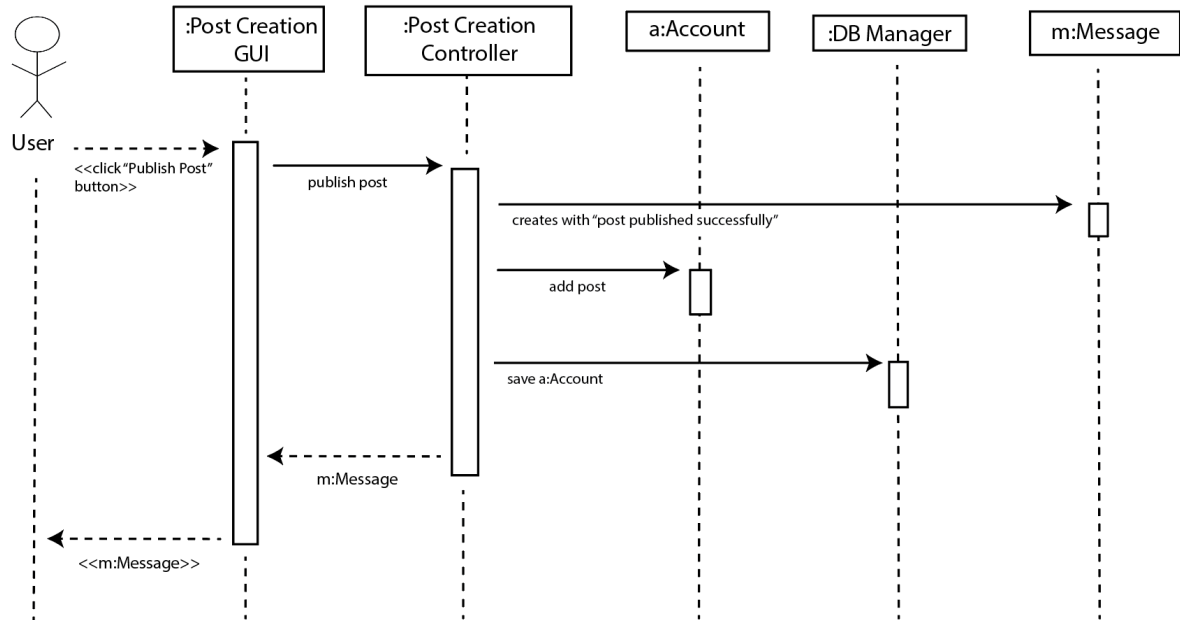
4. The system creates an account with the entered username and password.



#	Subject	Subject Action	Other Data/ Objects	Object Acted Upon
4.1	User	submits	Username, password	Register GUI
4.2	Register GUI	sends	Username, password	DBMgr
4.3	DBMgr	verifies	security and uniqueness	Authorization
4.4	Authorization	returns	True or false	Register Controller
4.4	If true is returned then			
4.4.1	Register Controller	creates	“Registration successful”	message
4.4.2	Register Controller	creates		account
4.4.3	Register Controller	saves	account	Database Manager
4.4.4	Register Controller	redirects	Login page link	Register Controller
4.5	else			
4.5.1	Register Controller	creates	“Registration unsuccessful”	Register Controller
4.6	Register Controller	returns	message	Register GUI
4.7	Register GUI	displays	message	User

Publish Post

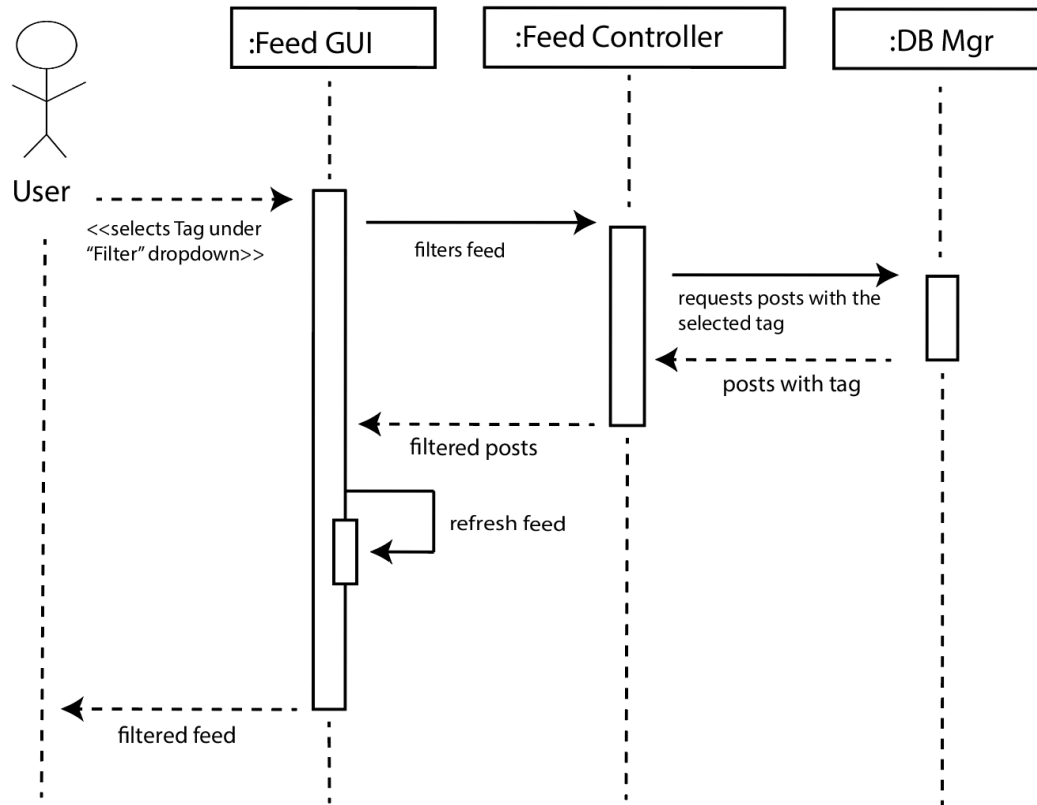
4. The system creates a post based on the user’s submission of an image, caption, rating, and tag.



#	Subject	Subject Action	Other Data/ Objects	Object Acted Upon
4.1	User	clicks	"Publish Post" button	Post Creation GUI
4.2	Post Creation GUI	publishes	post	Post Creation Controller
4.3	Post Creation Controller	creates	"Post Published Successfully"	message
4.4	Post Creation Controller	adds	post	Account
4.5	Post Creation Controller	saves	Account	DB Manager
4.6	Post Creation Controller	returns	message	Post Creation GUI
4.7	Post Creation GUI	displays	message	User

Filter feed

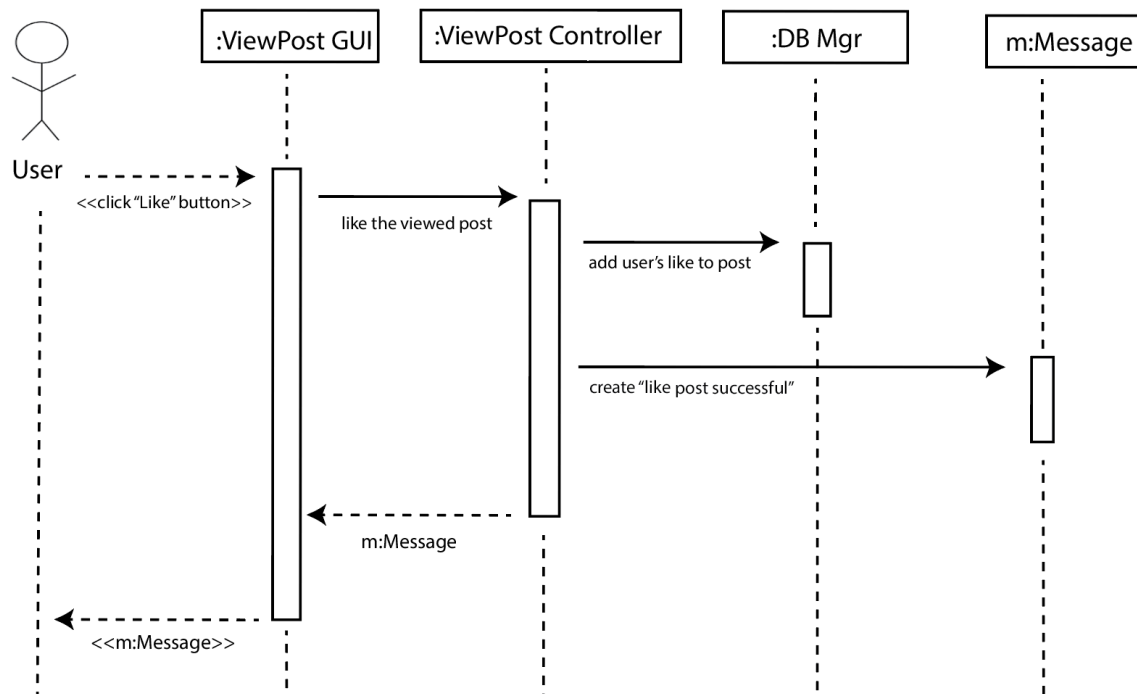
4. The system updates the feed to only show posts from the selected tags.



#	Subject	Subject Action	Other Data/ Objects	Object Acted Upon
4.1	User	Clicks	Tag button	Feed GUI
4.2	Feed GUI	filters	feed	Feed Controller
4.3	Feed Controller	requests	Posts with specified tag	Database Manager
4.4	Database Manager	returns	Posts with specified tag	Feed Controller
4.5	Feed Controller	returns	posts	Feed GUI
4.6	Feed Controller	refreshes		Feed GUI
4.7	Feed GUI	displays	Filtered feed	User

Like a Post

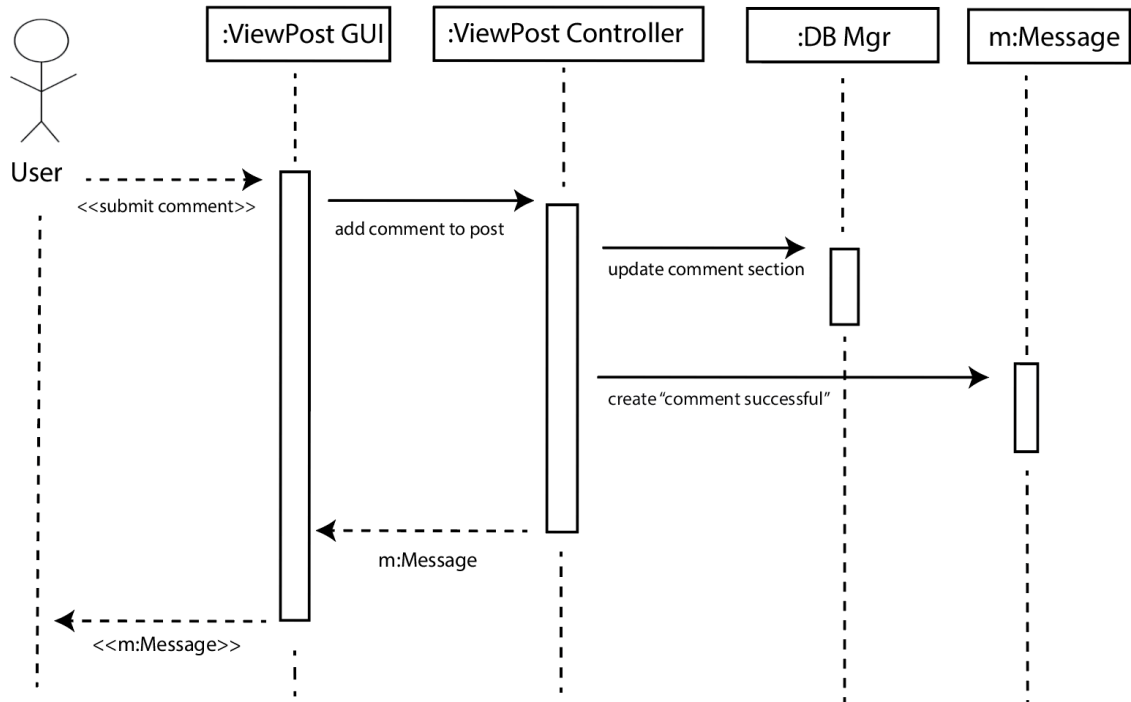
2. The system registers the user's like on the post, and displays a confirmation message.



#	Subject	Subject Action	Other Data/ Objects	Object Acted Upon
2.1	User	clicks	Like button	Post GUI
2.2	Post GUI	likes	post	Post Controller
2.3	Post Controller	adds	like to post	Database Manager
2.4	Post Controller	creates	"Like post successful"	message
2.5	Post Controller	returns	message	Post GUI
2.6	Post GUI	displays	message	User

Comment on a Post

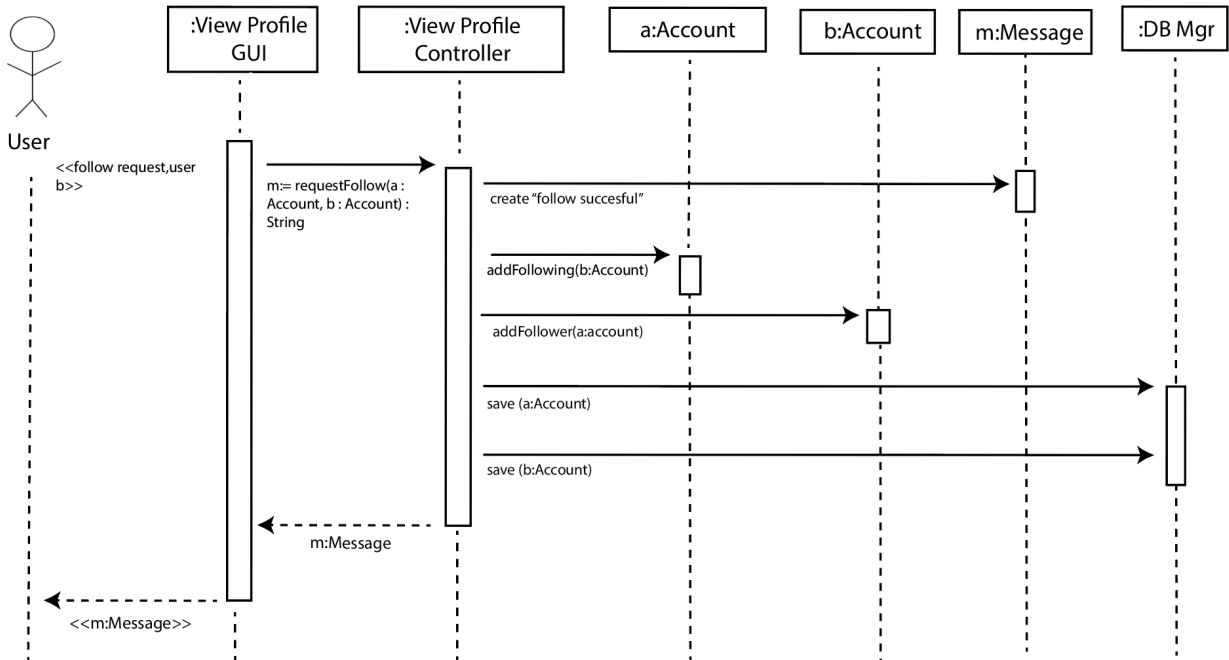
8. The system updates the comment section to include the user's new comment.



#	Subject	Subject Action	Other Data/ Objects	Object Acted Upon
8.1	User	submits	comment	Post Reaction GUI
8.2	Post Reaction GUI	requests	Add comment	Post Reaction Controller
8.3	Post Reaction Controller	updates	Comment feed	Database Manager
8.4	Database Manager	returns	Updated comment feed	Post Reaction Controller
8.5	Post Reaction Controller	creates	"Comment posted"	message
8.6	Post Reaction Controller	returns	message	Post Reaction GUI
8.7	Post Reaction GUI	displays	message	User

Follow

4. The system adds the profile being viewed to the current user's following list

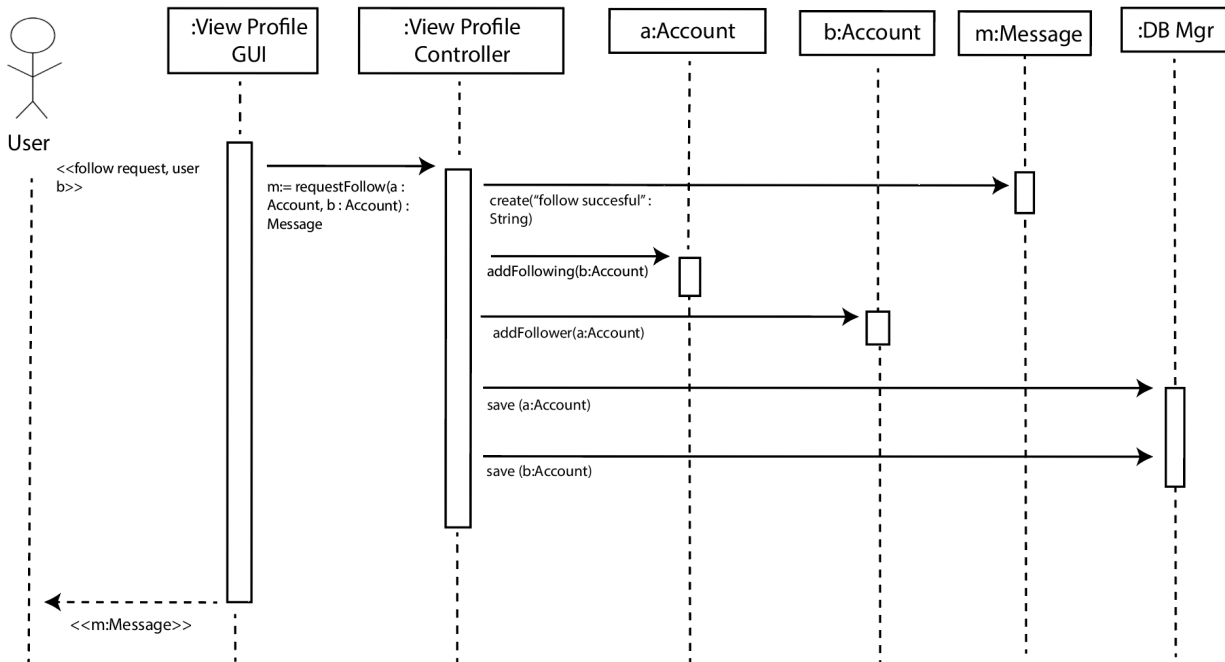


#	Subject	Subject Action	Other Data/ Objects	Object Acted Upon
4.1	User	clicks	Follow button	ViewProfile GUI
4.2	View Profile GUI	requests	user a to follow user b	ViewProfile Controller
4.3	ViewProfile Controller	creates	"Follow successful"	message
4.4	ViewProfile Controller	adds	b to following list	a:Account
4.5	ViewProfile Controller	adds	a to follower list	b:Account
4.6	ViewProfile Controller	saves	accounts a and b	Database Manager
4.7	ViewProfile Controller	returns	message	View Profile GUI
4.8	View Profile GUI	displays	message	User

Design Sequence Diagrams and Steps

Follow

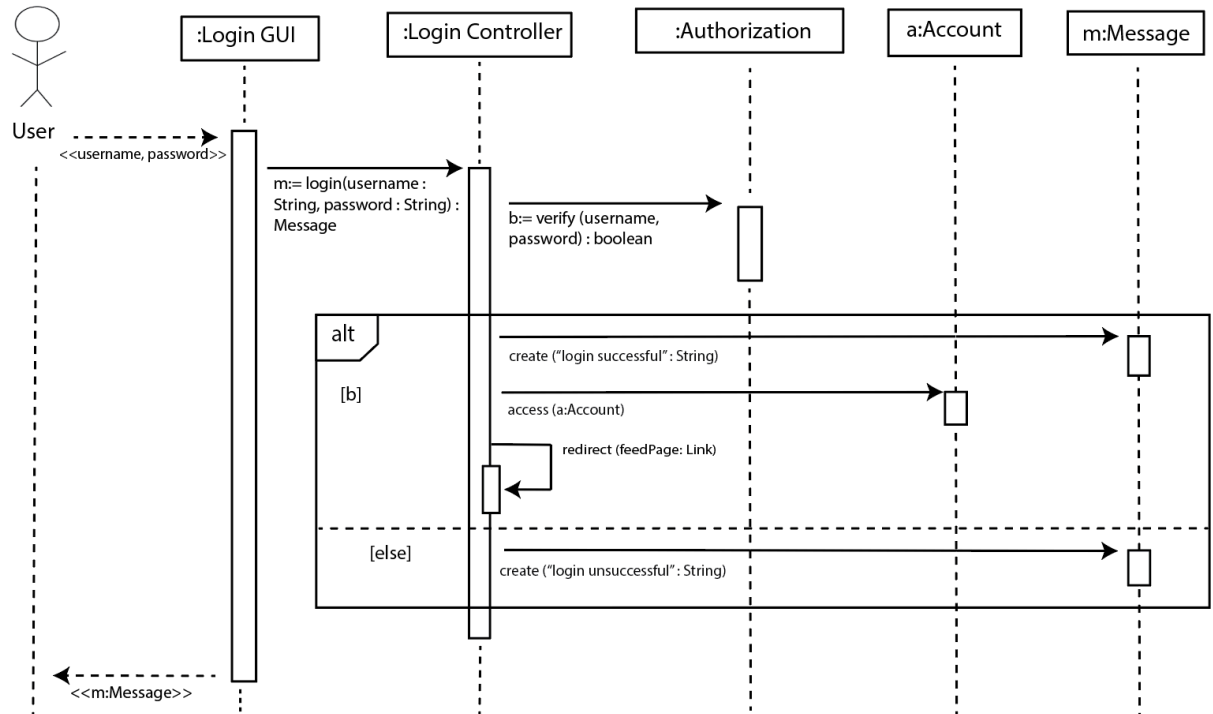
4. The system adds the profile being viewed to the current user's following list



First a user clicks the "Follow" button on the ViewProfile GUI. This action triggers a request from the ViewProfile GUI to the ViewProfile Controller, prompting a follow request between two users, designated as user a and user b. The Controller then manages the follow operation by adding user b to user a's following list and user a to user b's follower list within the Account data structure. The Controller then saves these account changes in the database using a Database Manager. Upon completion, the Controller sends a "Follow successful" message back to the ViewProfile GUI, which displays this message to the user, confirming that they are now following user b.

Login

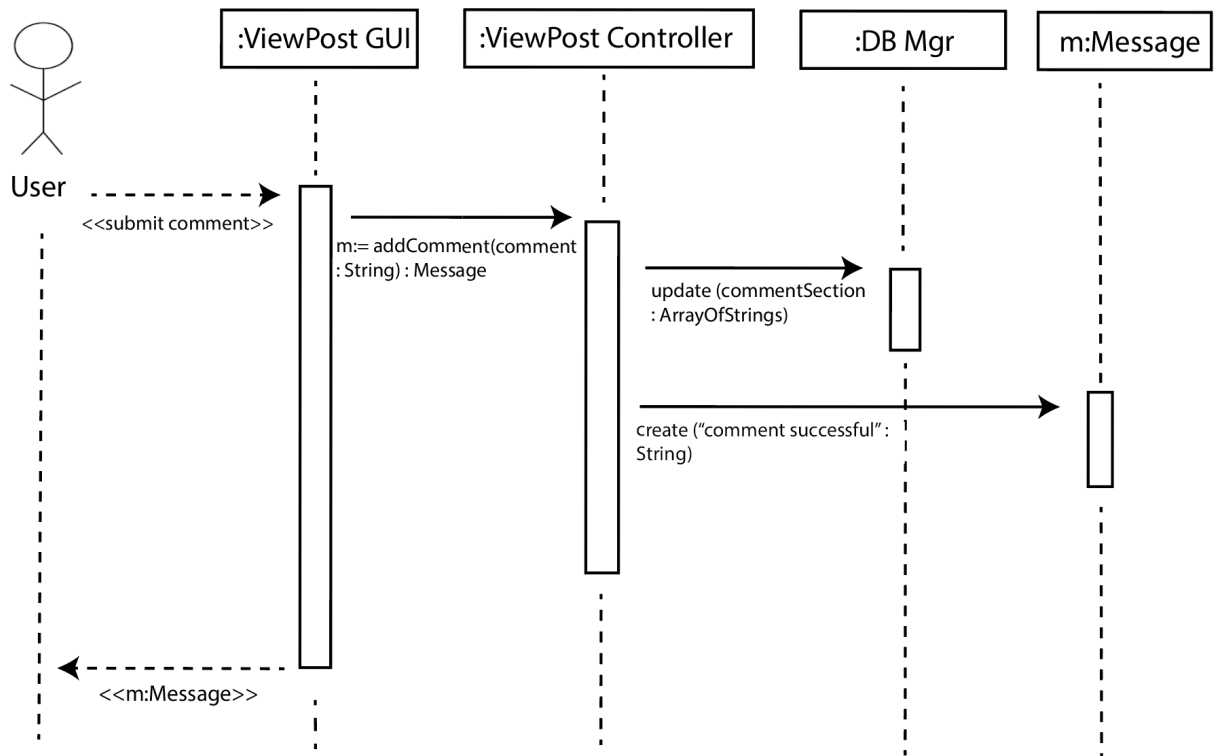
- 4a. The system verifies the user's input. If it's correct, the system logs the user into the Poppin app and takes them to their feed.
- 4b. If it's incorrect, the system displays an error message.



First a user submits their username and password through the Login GUI interface. The Login GUI then requests a login verification for the provided user credentials from the Login Controller. The Login Controller proceeds to verify the username and password with authorization details which returns either true or false. If the authorization returns true, then the Login Controller creates a "Login successful" message, and the user's account information is accessed to then redirect to the feed page. If the authorization returns false, the Login Controller creates a "Login unsuccessful" message. The correct message is returned to the Login GUI and displayed to the user.

Comment on a Post

8. The system updates the comment section to include the user's new comment.



First a user submits a comment through the GUI interface, the Post Reaction GUI then requests to add the comment to the post through the Post Reaction Controller. The Post Reaction Controller processes this request by updating the Comment feed in the Database Manager. The Database Manager returns the updated Comment feed back to the Post Reaction Controller, which then creates a "Comment successful" message. The Post Reaction Controller then returns this message to the Post Reaction GUI which displays it to the user.