Summer Research Internship - 2021

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MyInstagram Use-Cases Description

The ultimate goal of this project was to design a database as close as possible to Instagram's database. In order to achieve that, identifying the use cases of the platform are necessary, so that a solid understanding of what to store can be developed. The use cases identified are as follows:

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Sign Up

Use Case	Sign Up
Actor	User
Description	A new user registers himself/herself on the platform and completes the onboarding process.
Pre-condition	None
Post-condition	The user will be logged into the system and will be redirected to a page where he/she will be suggested some accounts that they might want to follow.
Basic Flow	● User opens sign up page ● User clicks on sign up. ● Fills in the details asked in the form, like fullname, phone no./email, password, username, DOB, gender. ● On filling the details properly and submitting the same, the user is redirected to the suggestions page.
Alternate Flow	● If an account already exists with the username or the phone no. or the email id provided by the user an alert is given to fill those fields again(the ones which are remarked as already in use) and will be on the same page.
	● If the user does not fill the password according to conditions then an alert to have a password abiding the conditions is given and will be on the same page.
Entities and related Attributes	User { username,phone no/email,password,DOB, fullName, gender }

Login

Use Case	Login
Actor	User
Description	A registered user logs in to be able to access and manage his/her account.
Pre-condition	User must have an account already registered on the platform

Post-condition	User is redirected to the News Feed
Basic Flow	- User opens sign in page. - User clicks on sign in. - User fills the username/email/phone no. and password of the account. - User submits the form. - User is redirected to the News Feed.
Alternate Flow	If a user enters wrong information in username/email/phone no. field, then there will be an alert message for not able to find the account and after two such attempts for a given value the login button is disabled.
	If a user enters the wrong password for an existing account for a provided username, for the first two times the alert message indicates that Username/Email/Phone No. and the Password do not match. After two such attempts, the login button is disabled after every provided value of password and the alert message changes to "Click on send email button to reset the password".
Entities and related Attributes	User { username, password } Return - user

Update Profile

Use Case	Update Profile
Actor	User
Description	A user modifies/updates his/her profile details except DOB(can't be modified).
Pre-condition	User must be authenticated
Post-condition	User will be able to see the updated profile details
Basic Flow	- User navigates to MyProfile page - User clicks on update my profile button - User updates the desired details like username, name, email, phone no., gender, bio, website, profile picture, DOB etc. - User clicks on update
Alternate Flow	If the user modifies his/her Username, Phone No. or Email-ID

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	and the modified detail is already in use for some other account, an alert will be thrown stating "Already in use".
	● A user cannot change his/her username if it has already been changed twice in the past 14 days. An alert will be thrown and the change will be unsuccessful.
Entities and related Attributes	User { username, fullName, bio, website, DOB, email, gender, profilePicture, phone no} Return - Updated values

Post (Images/Videos(<1 min duration))

Use Case	Post (Images/Videos(<1 min duration))
Actor	User
Description	A user can post upto 10 images and videos(<1 min long) as a single post.
Pre-condition	User must be authenticated
Post-condition	The desired post is successfully made and the user will be redirected to the News Feed.
Basic Flow	● User navigates to the create post section. ● User selects "Post" from the options provided. ● User selects upto 10 images and videos(<1 min duration) in the sequence they want them to be arranged in. ● User adds location ● User adds a caption describing the images/videos in the posts ● User tags people ● User clicks Post button ● The post is made successfully and the user is redirected to the News Feed.
Alternate Flow	● The desired location is not found and hence location can't be mentioned. ● The people to be tagged do not have an account on the platform and hence can't be tagged.
	● If save to gallery option is checked then, at the time of posting it will be saved to gallery and rest all the process remains same

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Entities and related Attributes	Post{ u_id,createdAt, modifiedAt, caption, location, tagged[u_id : type], type(Reel/Post/IGTV), hashTags[ ], content [ ] } User { postCount } Hashtag { hashtag[posts hashTags[ ]], p_id } Return - Updated values

Post Video(>1 min duration)

Use Case	Post Video(>1 min duration)
Actor	User
Description	A user posts a video of length >1 min
Pre-condition	User must be authenticated
Post-condition	The desired post is successfully made and the user will be redirected to the News Feed.
Basic Flow	● User navigates to the create post section. ● User selects "Post" from the options provided. ● User selects the video(>1min) he/she wants to upload. ● User selects ">1 min length video" when asked "trim the video or continue with >1 min". ● User adds a caption describing the video. ● User clicks Post button ● The post is made successfully and the user is redirected to the News Feed.
Alternate Flow	
Entities and related Attributes	Post{ u_id,createdAt, modifiedAt, caption, location, tagged[u_id : type], type(Reel/Post/IGTV), hashTags[ ],title, content [ ] } User { postCount } Hashtag { hashtag[posts hashTags[ ]], p_id } Return - Updated values

Post (Reel)

Use Case	Post (Reel)

Actor	User
Description	A user can post reels (a 15/30 second video)
Pre-condition	User must be authenticated
Post-condition	The desired post is successfully made and the user will be redirected to the News Feed.
Basic Flow	● User navigates to the create post section. ● User selects "Reels" from the options provided. ● User selects the clips/images he/she wants to include in the reel and can also shoot a video using the camera and adds the effects and music as per requirement. ● User adds a caption describing the post. ● User clicks share button to post it as reel or switches to share it as story option and shares accordingly ● The post is made successfully and the user is redirected to the News Feed.
Alternate Flow	
Entities and related Attributes	Post{ u_id,createdAt, modifiedAt, caption, location, tagged[u_id : type], type(Reel/Post/IGTV), hashTags[ ], content [ ], music } User {postCount} Return - Updated values

Unlike/Like (Post/Comment)

Use Case	Unlike/Like (Post/Comment)
Actor	User
Description	A user can either like a post/comment or remove his/her like from a post/comment.
Pre-condition	User must be authenticated
Post-condition	The like counter for that particular Post/Comment will be updated accordingly.
Basic Flow	● User navigates to a post/comment ● User unlike/likes the post/comment ● User can note the transition of the heart shaped symbol from unfilled to filled with red colour and vice-versa

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Alternate Flow	
Entities and related Attributes	Post { p_id,like, likedBy[ ]}, Comment{ comment_id, like,likedBy[ ] } User { liked[ ] } Return - updated values

Comment

Use Case	Comment
Actor	User
Description	A user can comment on a post, given the post has commenting enabled.
Pre-condition	User must be authenticated
Post-condition	Comment is added to the corresponding post's comment section
Basic Flow	● User navigates to a post ● User adds a comment ● Comment is added to that post's comment section
Alternate Flow	● Also user can select a post ● Navigate to comments section ● User can reply on the previous comments
Entities and related Attributes	User { restrictedAccount, restrictAccouts[ ] } Comment { text, p_id, timeStamp,rComment, u_id }

Report

Use Case	Report
Actor	User
Description	A user can report a post/comment if they think that it is inappropriate.
Pre-condition	User must be authenticated
Post-condition	Based on the reports received by server either post/comment is

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	removed by system or the owner of the post is notified for the same
Basic Flow	- User navigates to a post/comment. - User finds it inappropriate. - User selects the option "Report". - User is thanked for reporting. - Appropriate action is taken.
Alternate Flow	
Entities and related Attributes	ReportLog { object_id, type }

Block Profile

Use Case	Block Profile
Actor	User
Description	A user can block a profile, completely isolating the details of both the profiles from each other.
Pre-condition	User must be authenticated
Post-condition	All the details of both the accounts are isolated from each other and an entry of the account blocked is made in the blocked accounts log of the user
Basic Flow	- User navigates to the profile that is desired to be blocked by him/her - User clicks on block Profile and all the details of both accounts are isolated from each other - Also, the name of the account blocked is appended to the user's blocked accounts log
Alternate Flow	
Entities and related Attributes	User { for user(blockedUsers), for both → followers[u_id,block_u_id], following[u_id,block_u_id], for blocked_user(blockedFrom[u_id]) }

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Save Post

Use Case	Save Post
Actor	User
Description	A user can save a post. The post will be added to a collection of saved posts. The user can anytime get back to this log and see these posts again, given that the post hasn't been deleted or removed by the owner of the post.
Pre-condition	User must be authenticated
Post-condition	A post is added to a collection of saved posts on user's account
Basic Flow	- User navigates to a post he/she desires to save - User clicks on save post button - Icon indicating saved post turns solid - A post is added to the collection of saved posts of the user
Alternate Flow	
Entities and related Attributes	User { savedPost , for owner { savedCount }}

Follow/Unfollow Profile

Use Case	Follow/Unfollow Profile
Actor	User
Description	A user can follow/unfollow other profiles
Pre-condition	User must be authenticated
Post-condition	"Followers" section of the followed user is updated accordingly. Also, the "Following" section of the user is updated accordingly.
Basic Flow	- User navigates to search page - User searches other users' profile by their username or just by name - User selects the desired profile - User clicks the follow button - If that profile is public then User will get access to all posts and profile

	● Account is added to user's "Following" log ● User's account is added to followed profile's "Followers" log
Alternate Flow	● If the account is private ● Follow request is sent to selected Profile's "Follow Requests" log indicating username and mutual followers list ● Only if the owner of profile accepts the follow request, the user can see and interact with the posts ● Also, the user will receive a notification indicating acceptance of follow request ● Account is added to user's "Following" log ● User's account is added to followed profile's "Followers" log
	● If the account is private ● Follow request is sent to selected Profile's "Follow Requests" log indicating username and mutual followers list ● The user cannot interact with the posts if the owner of the profile declines his/her follow request. The user can however again send a follow request
	● A user can give permission to access his/her contacts ● Based on the available contacts linked with accounts on instagram(database) user is provided a list of all contacts to whom a user can follow/unfollow
Entities and related Attributes	User{ for user 2(accountType, requests[ ], followers[ ]), for user 1(following [ ]) }

Follow/Unfollow Hashtag

Use Case	Follow/Unfollow Hashtag
Actor	User
Description	A user can follow Hashtags
Pre-condition	User must be authenticated
Post-condition	"Following" section of the user is updated accordingly.
Basic Flow	● User navigates to search bar ● User searches the hashtag ● User selects the hashtag

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	● User clicks the follow button ● Hashtag is added to users' "Following" log
Alternate Flow	
Entities and related Attributes	Hashtag{ hashtag, p_id[ ] } Posts {p_id, content } User { following[hashTag] }

Search fullname, username, place and hashtag

Use Case	Search fullname, username, place and hashtag
Actor	User
Description	A user can search for a profile/hashtag by fullname/username/hashtag or the name of the profile or can also search for a location to view all posts with that location
Pre-condition	User must be authenticated
Post-condition	The user will be displayed the results consisting the existing profiles/hashtags available corresponding to the fullname/username/hashtag searched
Basic Flow	● User navigates to search bar ● User searches the fullname/Username/Hashtag/Location ● If it exists, then user will get it by selecting it and can continue interacting with them as desired
Alternate Flow	● If it does not exist, then nothing will be seen in results
Entities and related Attributes	User { fullName, username, profilePicture, followers[ ] } Hashtag { hashtag, posts(hastTag.p_id[ ]) { content } } Post { location, content }

Logout

Use Case	Logout
Use Case	Logout

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Actor	User
Description	Users can logout from the current session. The session ends as soon as the user logs out.
Pre-condition	User must be authenticated
Post-condition	User is redirected to login/signup page
Basic Flow	● User navigates to My Profile page ● User clicks on Logout button ● User is redirected to Login/SignUp page
Alternate Flow	● User selects Logout from all Accounts
Entities and related Attributes	User { tokens[ ] }

Archive Post

Use Case	Archive Post
Actor	User
Description	A user can Archive the posts he/she doesn't want to stay on their profile anymore. However, the posts will not get deleted from the platform and can always be brought back to the profile's posts section. A story is automatically added to the Story sub-section of the Archive section after 24 hours of posting it, if the story isn't deleted within 24hrs and automatic archive feature is enabled.
Pre-condition	User must be authenticated and should have at least one post
Post-condition	Post will not be visible to anyone except the user. The user can access the posts from the "Archive" section
Basic Flow	● User selects a post from his/her account ● User selects add to archive option ● Post is added to archive section of the user ● Also the post is not visible in the user's "Posts" section anymore
Alternate Flow	
Entities and related	Post { archive }

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Attributes	

Change Password

Use Case	Change Password
Actor	User
Description	User can change his/her password if/when required.
Pre-condition	User must have an account
Post-condition	User is redirected to Login Page
Basic Flow	- User opens the login page fills in details - User forgets the password - User clicks on the forget password option - User will get email/SMS based on what is provided as username - User needs to select change password option and will be redirected to the change password page - After filling the form user is redirected to login page and all other sessions on other devices are terminated
Alternate Flow	- User authenticates - User navigates to My Profile tab - Selects the change password option - Fills the details - Password is updated only if the value of old password is correctly provided - All other sessions on other devices are terminated
Entities and related Attributes	User { password }, TriggerFunction (for mail/sms)

Turn Commenting On/Off

Use Case	Turn Commenting On/Off
Actor	User

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Description	A user can turn on/off commenting on his/her post.
Pre-condition	User must be authenticated
Post-condition	The "Comments" section corresponding to the post will be visible if commenting is turned on, else disappear if commenting is turned off.
Basic Flow	- User navigates to the desired post - User selects Turn On/Off Commenting - The Comments section of the post appears/disappears accordingly
Alternate Flow	
Entities and related Attributes	Post { commenting }

Change Profile Details Visibility

Use Case	Change Profile Details Visibility
Actor	User
Description	A user can change his/her Profile Details' visibility.
Pre-condition	User must be authenticated
Post-condition	User's posts and stories will only be visible to accounts who follow the user.
Basic Flow	- User navigates to settings section - User selects privacy - User navigates to the Account Privacy section - User turns public to private or vice versa - User's posts and stories are now visible to only those who are in the user's "Followers" log
Alternate Flow	
Entities and related Attributes	User { accountType }

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Delete Post/Story

Use Case	Delete Post/Story
Actor	User
Description	User can delete his/her Post/Story
Pre-condition	User must be authenticated and should have a post/story to delete the same
Post-condition	The post/story is added to Recently Deleted Log and can be restored if available in the log
Basic Flow	● User navigates to the post/story he/she wishes to delete ● User selects "Delete" option ● The Post/Story gets deleted from the user's profile
Alternate Flow	
Entities and related Attributes	Post/Story { deleted, modifiedAt }

View Saved Posts

Use Case	View Saved Posts
Actor	User
Description	User can view the posts they've saved
Pre-condition	User must be authenticated
Post-condition	User can visit any of the previously saved posts
Basic Flow	● User navigates to the Saved Posts section ● User selects the collection whose Saved Posts he/she wants to view ● User selects the post he/she wants to view ● User is on the selected post's page
Alternate Flow	
Entities and related Attributes	User{ savedPosts[ ] } Posts{ p_id(savedPosts), content }

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View post(s) a particular user or the user himself/herself is/are tagged in

Use Case	View post(s) a particular user or the user himself/herself is/are tagged in
Actor	User
Description	A user can have a look at the posts the user or some other profile owner is tagged in, given the user follows that profile.
Pre-condition	User must be authenticated
Post-condition	User is at the "Posts Tagged In" section of some user.
Basic Flow	● User navigates to his/her own Profile page or to some other user's profile page ● User navigates to the "Posts Tagged In" section ● User can view the posts the profile owner's tagged in (Can view the posts of public accounts and of the private accounts he/she follows)
Alternate Flow	
Entities and related Attributes	User{ taggedin[ ] } Post { p_id(taggedin), content }

View posts i've liked

Use Case	View posts i've liked
Actor	User
Description	A user can have a look at all the posts he/she has liked.
Pre-condition	User must be authenticated
Post-condition	User is in the "Posts I've Liked" section
Basic Flow	● User navigates to the "Posts I've Liked" section ● User can then have a look at all the posts he/she has liked and interact with them, given the posts aren't deleted by the owners of the posts

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Alternate Flow	
Entities and related Attributes	User{liked[ ] } Post { p_id(liked), content }

Archived Posts Log

Use Case	Archived Posts Log
Actor	User
Description	User can manage(unarchive, delete) all the archived posts in this section
Pre-condition	User must be authenticated
Post-condition	User will see a log of posts archived
Basic Flow	● User navigates to the "Archive" section ● User selects "Posts" section ● User can view and manage the archived posts
Alternate Flow	
Entities and related Attributes	Post { p_id, u_id, archived, content}

Archived Stories Log

Use Case	Archived Stories Log
Actor	User
Description	User can manage(share as post/story, delete, save in local device, add to highlights, tag a business partner) all the past stories in this section
Pre-condition	User must be authenticated
Post-condition	User will see a log of all his past stories.
Basic Flow	● User navigates to the "Archive" section

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	● User selects "Stories" section ● User can view and manage the archived stories
Alternate Flow	
Entities and related Attributes	Stories { s_id, u_id, archived, content}

Temporarily Disable Account

Use Case	Temporarily Disable Account
Actor	User
Description	User can temporarily disable his/her account
Pre-condition	User must be authenticated
Post-condition	The account will be disabled and no other user will be able to find the profile.
Basic Flow	● User navigates to My Profile page ● User clicks on Edit Profile ● User selects Temporarily Disable My Account option ● User is asked for his/her password ● User is asked for a confirmation of the action before disabling the account ● User's account is disabled and is no more visible to other users
Alternate Flow	● In case the password asked while disabling the account is entered incorrectly, an alert is thrown and the user is asked to enter the correct password once again.
Entities and related Attributes	User{ password, account, following,followers, taggedIn[ ], messageRequests[ ], token[ ] } Posts{ u_id, p_id, disabled, tagged[ ] } Comments { u_id, p_id, disabled} Stories { s_id, u_id, disabled } Chats{ to, from, toRender }

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View activity related to my account(posts/comments/follow requests)

Use Case	View activity related to my account(posts/comments/follow requests)
Actor	User
Description	User can view the recent activities related to his account in this section. For example, the mentions in comments and posts, notification of follow requests, someone liked your post etc.
Pre-condition	User must be authenticated
Post-condition	User can view all the recent activity related to his/her account
Basic Flow	● User navigates to "Activity" ● User can view the replies and likes on his/her comments, comments and likes on his/her posts, recent follow requests etc
Alternate Flow	
Entities and related Attributes	Logs{ all attributes }

Login Activity Log

Use Case	Login Activity Log
Actor	User
Description	A list of all sessions is added to log
Pre-condition	User must be authenticated
Post-condition	User can view the session details of each login/logout activity
Basic Flow	● User logs into the account ● Information of time,date,place and device is added to the session log of that user
Alternate Flow	
Entities and related Attributes	Logs { all attributes }

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Request Account Verification

Use Case	Request Account Verification
Actor	User
Description	A user can request verification of his/her account. On approval, the user's profile is marked verified and a blue tick appears alongside the user's username in his/her profile.
Pre-condition	User must be authenticated
Post-condition	A small blue tick is visible at the profile corner
Basic Flow	- User navigates to Settings - User selects Account - User selects request verification - User fills in the details - User uploads the id proof given by government - Sends the request to server - After successful verification a blue tick added at bottom of profile view
Alternate Flow	
Entities and related Attributes	VerificationRequest { u_id, fullname, knownAs, category, image, status(posted, viewed, under verification, approved/declined) }

Switch to Professional Account

Use Case	Switch to Professional Account
Actor	User
Description	A user can switch his/her account to a professional account using this feature. Professional account users have some privileges over normal account users such as view saved counts, profile visits etc.
Pre-condition	User must be authenticated
Post-condition	If the user's account was private then it becomes public and some

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	stats regarding posts,stories,live etc are accessible to user
Basic Flow	- User navigates to settings panel - Selects the Switch to Professional Account option - Fills in the required details and clicks on continue - After completion of that above process the account of the user is made public if it was private. - User can check various stats options are accessible on posts,stories,iG-TV videos etc
Alternate Flow	
Entities and related Attributes	User { for selected user(accountType, accountType2, requests[ ], followers[ ]), for users (in requests [ ] ⇒ following[ ]) }

Story Archive (Location)

Use Case	Story Archive (Location)
Actor	User
Description	User can have a look at his/her stories in which he/she mentioned location in the location section of the story archives
Pre-condition	User must be authenticated
Post-condition	A story is added to archive section and the thumbnails of all the story pinned at a given location in map
Basic Flow	- User navigates to setting panel - User adds a location to the story - Story is added with a thumbnail to archive
Alternate Flow	
Entities and related Attributes	Story { location, content }

View Entire History of Account

Use Case	View Entire History of Account

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Actor	User
Description	Contains all the information of all posts,story,comments etc logs saved
Pre-condition	User must be authenticated
Post-condition	User can view all the information available
Basic Flow	- User navigates to Security panel - Selects access data - List of all detailed information of the account is listed
Alternate Flow	
Entities and related Attributes	Logs { * }

Delete Comment

Use Case	Delete Comment
Actor	User
Description	User can delete a comment
Pre-condition	User must be authenticated and should have made a comment on a post
Post-condition	Comment is removed from the post
Basic Flow	- User navigates to the post on which user has commented - User selects the comment - User clicks on remove/delete option - Comment is removed and all the related attributes of the comment are also updated accordingly
Alternate Flow	
Entities and related Attributes	Comment { comment_id, u_id }

Comments' features

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Use Case	Comments' features
Actor	User
Description	User can alter the comments configurations such as restricting a particular user from commenting, filtering comments etc
Pre-condition	User must be authenticated
Post-condition	
Basic Flow	● User navigates to settings panel and selects Privacy ● User selects the comments option ● User can block/unblock a specific user to comment on or can show/hide all the offensive comments and further can also this can be enabled/disabled for future comments ● All the offensive comments will be visible/disappear based on the selection of user ● All the users selected by user to be blocked to comment on post will not be able to comment
Alternate Flow	● Here comments can also be disabled for all the users
Entities and related Attributes	User { checkComment, block_user_from_comment[ ], offensiveWords[ ], allowCommentsFrom, }

View and manage Search History

Use Case	View and manage Search History
Actor	User
Description	User can view his/her search history
Pre-condition	User must be authenticated
Post-condition	User can view and manage (clear, remove specific entries) his/her history
Basic Flow	● User navigates to settings section ● User clicks clicks on "Security" ● User navigates to "Data and History" section ● User clicks on "Search History"

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	● User can view and manage the search history
Alternate Flow	
Entities and related Attributes	Logs { object }

View and manage Recently Deleted Posts

Use Case	View and manage Recently Deleted Posts
Actor	User
Description	View and manage(restore or delete permanently) the recently deleted(upto 30 days old) posts
Pre-condition	User must be authenticated
Post-condition	User can view and manage(restore or delete permanently) the recently deleted(upto 30 days old) posts
Basic Flow	- User navigates to "Settings" - User selects "Account" - User then selects "Recently Deleted Posts" - User can view and manage the recently deleted posts (upto 30 days old)
Alternate Flow	
Entities and related Attributes	Posts{ deleted, modifiedAt, content, u_id }

Edit Posts

Use Case	Edit Posts
Actor	User
Description	User can edit his/her own post if required (change caption, add/remove tagged people, add/remove location)

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Pre-condition	User must be authenticated and Should have a post from his/her account to edit
Post-condition	Updated information will be edited for the selected post
Basic Flow	● User selects a post ● User selects to edit a post ● User can edit the tagged user, location of the post and other stuff ● After selecting the update option details are updated for the selected post
Alternate Flow	
Entities and related Attributes	Post { title,caption,location, tagged }

Remove Follower

Use Case	Remove Follower
Actor	User
Description	User removes his/her followers
Pre-condition	User must be authenticated
Post-condition	Followers log and count of the user will be updated accordingly and the following log of the selected profile will also be updated accordingly
Basic Flow	● User navigates to "My Profile" page ● User selects "Followers" ● User can view all his ● User can select an option to remove a follower by clicking on the "3-dot" options button ● The follower is then removed from the user's "Followers" log and the followers counter is updated accordingly
Alternate Flow	● User navigates to the profile he wants to remove as his/her follower ● User can select an option to remove a follower by clicking on the "3-dot" options button ● The follower is then removed from the user's "Followers" log and the followers counter is updated accordingly

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Entities and related Attributes	User { for user 1 (follower), for user 2(following)}

Hide/Unhide Like and View counts

Use Case	Hide/Unhide Like and View counts
Actor	User
Description	User can hide/unhide likes and views count from the posts he/she visits or come across in the news feed and explore section
Pre-condition	User must be authenticated
Post-condition	No posts the user sees (except his own) will show him/her the likes and views count if the setting is toggled to hide, else, all the posts the user sees will show him/her the likes and views count
Basic Flow	- User navigates to "Settings" - User selects "Privacy" - User selects navigates to "Interactions" and selects "Posts" - User can enable/disable the Likes and Views count as needed
Alternate Flow	
Entities and related Attributes	User { likeViewCount }

Hide/Unhide Likes and Views count from a post

Use Case	Hide/Unhide Likes and Views count from a post
Actor	User
Description	User can hide/unhide views and likes count from his/her own post
Pre-condition	User must be authenticated
Post-condition	User and his followers now either can or cannot see the likes and views count of the concerned post depending on the action

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Basic Flow	- User navigates to "My Profile" page - User navigates to the post he/she wants to change the likes and counts visibility of - User click on "3-Dot Options" button - User selects Hide/Unhide Views and Likes count - The visibility of the likes and counts of that post are updated accordingly
Alternate Flow	
Entities and related Attributes	Post { count }

Allow tags from

Use Case	Allow tags from
Actor	User
Description	User can select from whom he wants to allow the tags from
Pre-condition	User must be authenticated
Post-condition	Users are given options Everyone, People You Follow, No One to select from. The users can then be only tagged in the posts according to the mentioned setting
Basic Flow	- User navigates to Settings - User selects "Privacy" - User navigates to Interactions and selects "Posts" - User can toggle between the options provided (Everyone/People You Follow/No One)
Alternate Flow	
Entities and related Attributes	User { allowTagsFrom }

Manually approve tags

Use Case	Manually approve tags

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Actor	User
Description	User can enable this feature to be able to manually accept the tags on posts by other users
Pre-condition	User must be authenticated
Post-condition	User will receive a request whenever some other user tags them in his/her post. Also, after the user accepts the tag request, the tagged posts section will have a new entry of that post.
Basic Flow	- User navigates to Settings - User selects privacy - User navigates to "Interactions" and selects "Posts" - User selects "Manually Approve Tags" and then can manage (enable/disable, approve the requests) accordingly
Alternate Flow	
Entities and related Attributes	Post { tagged[User { manuallyApprovedTags,toConfirmTag[ ],taggedIn }] }

Hide story from particular user(s)

Use Case	Hide story from particular user(s)
Actor	User
Description	User can hide his/her story from particular users
Pre-condition	User must be authenticated
Post-condition	The user's stories will be hidden from the users mentioned in the "Hide From" attribute
Basic Flow	- User navigates to Settings - User selects "Privacy" - User navigates to "Interactions" section and selects "Story" - User then navigates to "Hide Story From" section and adds users he/she wants to hide the story from - The user's story are now not visible to the users added in the "Hide Story From" list
Alternate Flow	User can also add users in the "Hide Story From" list by first

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	navigating to any story of his/her own (if any is available) and then select the "3-Dot options" button, from where he/she can navigate to the story settings and continue the basic flow from 4th bulletin onwards
	● User can also unhide the stories from users he/she has earlier hide them from, by navigating to the "Hide Story From" list as mentioned above and then removing the users he/she want to unhide the stories from
Entities and related Attributes	User{ hideStory }

Remove Tag

Use Case	Remove Tag
Actor	User
Description	User can remove his/her tag from the posts he's tagged in
Pre-condition	User must be authenticated and must be following the users in whose posts he/she is tagged in
Post-condition	User will no longer be a tagged user in the post from which he removed his/her tag
Basic Flow	● User navigates to the post in which he is tagged and wants to remove his tag ● User clicks on the "3-Dot option" button ● User selects "Tag Options" ● User selects "Remove Me from Post" to remove his/her tag from that post ● The user is no longer tagged in that post and the tagged posts log is updated accordingly
Alternate Flow	
Entities and related Attributes	User { taggedIn }

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Allow @Mentions From

Use Case	Allow @Mentions From
Actor	User
Description	User can select who all he wants to allow to mention him in the posts/comments/stories/captions
Pre-condition	User must be authenticated
Post-condition	Only those users allowed by the Profile owner can now mention the owner(user)
Basic Flow	- User navigates to Settings - User selects "Privacy" - User navigates to "Interactions" and selects "Mentions" - User then toggles the settings of "Allow Mentions from" between Everyone/People You Follow/No One.
Alternate Flow	
Entities and related Attributes	User { allowAtMentions }

Close Friends

Use Case	Close Friends
Actor	User
Description	User can add his/her preferred followers to his/her close friends list, so, when the user adds a story for close friends, only those added in the close friends list can see it
Pre-condition	User must be authenticated
Post-condition	Only those in the close friends list will be able to see the stories added to close friends by the user
Basic Flow	- User navigates to settings - User selects "Account" - User selects "Close Friends" - User can add/remove his/her followers to close friends list

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Alternate Flow	
Entities and related Attributes	User { closeFriends[ ] }

Allow resharing of posts to stories

Use Case	Allow resharing of posts to stories
Actor	User
Description	User can enable/disable sharing of his/her posts on stories
Pre-condition	User must be authenticated
Post-condition	Other users may or may not be able to share the user's post on their story, depending upon the setting preferred by the user
Basic Flow	- User navigates to "Settings" - User selects "Privacy" - User navigates to "Interactions' and selects "Story" - User enables/disables the allow resharing to stories feature
Alternate Flow	
Entities and related Attributes	User { allowToShareOnStory, accountType } Story { * }

Manage Notifications

Use Case	Manage Notifications
Actor	User
Description	User can manage his/her notifications such as notifications of likes, comments mentioning you, follow requests etc
Pre-condition	User must be authenticated
Post-condition	User can enable/disable various notification features as per his/her needs

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Basic Flow	● User navigates to "Settings" ● User selects "Notifications" ● User can then select the section he wants to modify notification settings of and can modify as desired
Alternate Flow	
Entities and related Attributes	User{ manageNotification }

View Insights(Professional/Business Account)

Use Case	View Insights(Professional Account)
Actor	User
Description	A professional/business account user can view the insights of the activities related to his account, i.e., his/her recent posts' reach, count interactions on his stories, no. of profile visits etc.
Pre-condition	User must be authenticated and must have a professional/business account
Post-condition	User can view the count of profile visits, his/her posts's reach etc
Basic Flow	● User navigates to "My Profile" page ● User selects "Insights" ● User can view the statistics related to his/her account
Alternate Flow	
Entities and related Attributes	Post{insights (profileVisits, follows, impressions) }, Story{ insights (profileVisits, impressions, follows, forward, exitted, next) }

Accept/Decline Follow Request

Use Case	Accept/Decline Follow Request
Actor	User

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Description	User can accept/decline other users' follow request, given his/her account is private
Pre-condition	User must be authenticated and the profile must be private
Post-condition	The users' "Followers" log will get updated if the user accepts the follow request
Basic Flow	● User navigates to the Activity section ● User then selects the follow requests section ● User then accepts/declines the request as desired
Alternate Flow	
Entities and related Attributes	User { following, followers }

Mute posts and stories

Use Case	Mute stories or posts and stories
Actor	User
Description	User can mute posts and stories or just stories of a user he/she follows
Pre-condition	User must be authenticated
Post-condition	The story or posts and stories of the profile will be muted and will no longer be shown in the user's feed
Basic Flow	● User views the story of the user he/she wishes to mute the posts of (if available) ● User selects the "3-Dot options" button and clicks on Mute ● User selects Mute Posts and Stories
Alternate Flow	● User views the story of the user he/she wishes to mute the stories of (if available) ● User selects the "3-Dot options" button and clicks on Mute ● User selects Mute Stories
Entities and related Attributes	User { mutePost[ ], muteStories[ ] }

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Add a story(old/current) to highlights

Use Case	Add a story(old/current) to highlights
Actor	User
Description	User can add his/her old/current stories to highlights
Pre-condition	User must be authenticated and must have posted at least a story to add to a highlight
Post-condition	Highlights shown on User's Profile page will have the stories added by the user
Basic Flow	● User navigates to story archives ● User opens the story he wishes to add to highlights ● User clicks the "Add to Highlights" button and selects the collection he/she wants to add the story in
Alternate Flow	
Entities and related Attributes	User { highlight[ ] }

Restrict/Unrestrict Account

Use Case	Restrict/Unrestrict Account
Actor	User
Description	A user can Restrict/Unrestrict an account. After restricting an account, the messages from that account will not be marked as read, only the user and the account owner can view their comments on the user's post, until the user review's them.
Pre-condition	User must be authenticated
Post-condition	The activities of the restricted account will get restricted and the user can protect himself/herself from unwanted interactions without having to block or unfollow the account
Basic Flow	● User navigates to the Profile he/she wants to restrict ● User clicks on the "3-Dot options" button ● User selects restrict and confirms restriction

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Alternate Flow	● User can similarly unrestrict a restricted account by performing the first 2 steps of the basic flow and then selecting unrestrict
Entities and related Attributes	User{ restrictedAccount(boolean),restrictAccounts[ ] } Comments { rComment }

Polls

Use Case	Polls
Actor	User
Description	User can conduct polls on story
Pre-condition	User must be authenticated
Post-condition	The poll will be live until the story is either taken down or the story expires(after 24hrs). User's followers will vote in the poll and the responses will be recorded. A user can also publish the results at the end of the poll on his/her story.
Basic Flow	● User navigates to story creating page and adds the content he/she wants to put up on the story ● User selects the poll option from attachments/stickers section ● User enters the labels for the polls ● User posts the story ● User can now view the responses by swiping up on his/her own story on which the poll is conducted
Alternate Flow	
Entities and related Attributes	Story{ props.polls }

Questions

Use Case	Questions
Actor	User

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Description	User can ask his followers to ask him anything or give inputs through this feature
Pre-condition	User must be authenticated
Post-condition	The questions feature will be accepting responses until the story is either taken down or the story expires(after 24hrs). User's followers will fill in as desired and the responses will be recorded. A user can also share responses on stories if desired
Basic Flow	- User navigates to story creating page and adds the content he/she wants to put up on the story - User selects the questions option from attachments/stickers section - User enters the question he wants to ask - User posts the story - User can now view the responses by swiping up on his/her own story on which the question is asked
Alternate Flow	
Entities and related Attributes	Story{ props.question }

Add location in story

Use Case	Add location in story
Actor	User
Description	Users can add location in their stories if desired
Pre-condition	User must be authenticated
Post-condition	User's followers can view the location mentioned by user in the story
Basic Flow	- User navigates to story creating page and adds the content he/she wants to put up on the story - User selects the location option from attachments/stickers section - User posts the story
Alternate Flow	
Entities and related	Story{content, location, timeStamp, u_id, viewType, music(if any),

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Attributes	link(if any) and props(if any),mention [ ](if any)}

Mention other users on story

Use Case	Mention other users on story
Actor	User
Description	User can mention other users on his/her story
Pre-condition	User must be authenticated
Post-condition	Mentioned users can be visited by the user's followers by tapping on them and the users mentioned in the story will also receive a message in the thread of chat with the user in the chat box of getting mentioned in the story
Basic Flow	- User navigates to story creating page and adds the content he/she wants to put up on the story - User selects the mention option from attachments/stickers section - User enters the username of the user he wants to mention in the story - User posts the story
Alternate Flow	
Entities and related Attributes	Story{ content, user_id(s) in mention [ ], timeStamp, u_id, viewType, location(if any), music(if any), link(if any) and props(if any) }

Emoji Slider

Use Case	Emoji Slider
Actor	User
Description	User can add Emoji Sliders on story to get a rating from his followers on the content he has shared or for some other purpose
Pre-condition	User must be authenticated

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Post-condition	User's followers can rate by sliding the emoji through the bar as much as desired
Basic Flow	- User navigates to story creating page and adds the content he/she wants to put up on the story - User selects the emoji slider option from attachments/stickers section - User selects the emoji he wants to use on the slider and enters the desired text - User posts the story - User can now view the responses by swiping up on his/her own story on which the emoji slider is placed
Alternate Flow	
Entities and related Attributes	Story { props.eSlider }

Countdown

Use Case	Countdown
Actor	User
Description	User can add countdown(upto 1 year long) on the story
Pre-condition	User must be authenticated
Post-condition	User's followers can view the countdown on the user's story and can also share the countdown on their own story. The stories however last only for 24 hours but a countdown can be much longer than that. The user can always reshare the stories if there is still some time left in the countdown to expire by executing the same flow and bot creating a new countdown and using the one already there.
Basic Flow	- User navigates to story creating page and adds the content he/she wants to put up on the story - User selects the countdown option from attachments/stickers section - User enters the expiry time and date of the countdown - User posts the story
Alternate Flow	

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Entities and related Attributes	User { countdown }

Quiz

Use Case	Quiz
Actor	User
Description	A user can add a quiz to the story. The user's followers can then attempt the quiz by selecting the option they find appropriate and will immediately get feedback whether the option they chose was correct or not.
Pre-condition	User must be authenticated
Post-condition	User's followers can attempt the quiz and the user can have a look at the statistics related to the same too.
Basic Flow	- User navigates to story creating page and adds the content he/she wants to put up on the story - User selects the quiz option from attachments/stickers section - User enters the questions and the related options offered for the users to choose from - User can now view the responses and related statistics by swiping up on his/her own story on which the quiz is placed - User posts the story
Alternate Flow	
Entities and related Attributes	Story { props.quiz }

See who and how many saw my story

Use Case	See who and how many saw my story
Actor	User
Description	User can have a look at who and a total count of how many users saw

	his/her story
Pre-condition	User must be authenticated
Post-condition	User sees the usernames and total count of users who saw his/her story
Basic Flow	● User navigates to the story he/she wants to view the statistics of ● User swipes up and can see the usernames of people who saw the story and a total count too
Alternate Flow	
Entities and related Attributes	Story { viewedBy[ ] }

Add music on story

Use Case	Add music on story
Actor	User
Description	User can add a music on the story by selecting music available in the platform's library
Pre-condition	User must be authenticated
Post-condition	User's story will have a background music added and will play whenever anyone visits that story
Basic Flow	● User navigates to story creating page and adds the content he/she wants to put up on the story ● User selects the music option from attachments/stickers section ● User selects the music and also the duration and part of music he/she want to share on the story ● User posts the story
Alternate Flow	
Entities and related Attributes	Story{ content, music, timeStamp, u_id, viewType, mention[ ] (if any), location(if any), link(if any) and props(if any) }

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Hide a post you're tagged in from the tagged posts section on My Profile page

Use Case	Hide a post you're tagged in from the tagged posts section on My Profile page
Actor	User
Description	User can hide a post from the tagged posts section if he/she wishes not to show that post on their profile
Pre-condition	User must be authenticated
Post-condition	The post will no longer be visible in the user's profile
Basic Flow	- User navigates to the post in which he is tagged and wants to hide from his profile - User clicks on the "3-Dot option" button - User selects "Tag Options" - User selects "Hide from my Profile" option
Alternate Flow	
Entities and related Attributes	User{ taggedIn[ ] }

View post/comment liked by

Use Case	View post/comment liked by
Actor	User
Description	User can view the usernames of profiles who liked a post/comment
Pre-condition	User must be authenticated
Post-condition	User can view and visit profiles of the users who have liked a post/comment
Basic Flow	- User navigates to a post/comment of which he/she wants to see the usernames who've liked it - User clicks on the count of likes displayed below the post/comment
Alternate Flow	

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Entities and related Attributes	Post { likedBy[ ] }, Story{ likedBy[ ] }

View all posts with a hashtag

Use Case	View all posts with a hashtag
Actor	User
Description	User can view all posts made by public profiles with a particular hashtag in one place
Pre-condition	User must be authenticated
Post-condition	User will see a total count of posts of public accounts having the desired hashtag and also the posts themselves
Basic Flow	● User navigates to Search section ● User enters the hashtag he/she wants to view pictures of, example, #new ● User selects the hashtag from the related search results
Alternate Flow	● User can click on the hashtag he/she wants to view posts related to by simply clicking on the hashtag wherever mentioned (caption, story)
Entities and related Attributes	HashTag{ * }, Post { content }

View followers/following of a user

Use Case	View followers/following of a user
Actor	User
Description	User can have a look at the followers and following of a user by visiting his/her profile page
Pre-condition	User must be authenticated
Post-condition	User can see and visit the profiles of the usernames shown in the

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	followers or following log
Basic Flow	● User navigates to the profile he/she wants to view the log of followers/following of ● User clicks on follower or following count as desired to view the usernames of profiles who are in that log
Alternate Flow	
Entities and related Attributes	User { accountType, followers, following }

Additional Use Cases:

Share (Post/Profile/Story)

Use Case	Share (Post/Profile/Story)
Actor	User
Description	A user can share Post/Story/Profile with other users.
Pre-condition	User must be authenticated
Post-condition	Details of post/profile is/are added to the chats section of the selected user(s) and also a notification is delivered to selected user(s).
Basic Flow	● User navigates to the Post/Profile/Story he/she wants to share ● User clicks on share button ● User selects the accounts to which, the Post/Profile is to be shared ● A notification regarding this operation is given in each account selected by user along with shared information appended in chat
Alternate Flow	● User navigates to the Post/Profile/Story he/she wants to share ● User clicks on share button ● User adds the post/profile/story to his/her own story
For Stories only	● If a user is mentioned in a story

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	● User can select such story and reshare that story from his/her account
Entities and related Attributes	Chat { from, to, data} Post/Stories - Comment { sharedCount, content, all attributes from comment, p_id/s_id, likes, likedBy[ ], hashTags, createdAt, modifiedAt, caption, location, tagged, type, commenting, count, title, music, } User - { profilePicture, username, bio, followers, following, fullName, accountType, taggedIn[ ], verified, website, email, highlights, hideTagged[ ], posts(latest 50), story(latest) }

Log of sites visited through the platform

Use Case	Log of sites visited through the platform
Actor	User
Description	A user can view the history/log of the sites he/she has visited through the platform.
Pre-condition	User must be authenticated
Post-condition	User can view the sites he/she has visited
Basic Flow	● User navigates to the "Sites I've Visited" section ● User can have a look at the sites he has visited, can delete the history and can visit the desired site again by there in clicking on the links
Alternate Flow	
Entities and related Attributes	

Invite Friends

Use Case	Invite Friends
Actor	User

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Description	A user can invite his/her friends to the platform by sharing a link via mail, message or any other service as convenient. Whenever someone visits the link sent by the user, he/she will be redirected to playstore's Instagram installation page.
Pre-condition	User must be authenticated
Post-condition	An invite link is sent to a person selected by the user
Basic Flow	• User navigates to Settings • User selects Invite Friends • A link and invitation message is created and sent to all the listed phone no/emails using third party support • Based on the third party option selected by user to send message, user is either redirected to that app or notified regarding sending process
Alternate Flow	
Entities and related Attributes	No database interaction

Download Account Data

Use Case	Download Account Data
Actor	User
Description	A user can download the data of his/her account on a local device using this feature. A link is generated and sent on mail within 48 hours of making a request.
Pre-condition	User must be authenticated
Post-condition	-
Basic Flow	• User navigates to security section • Request download account data • System asks for Password • User gets an email for the same from the Instagram within 48 hours
Alternate Flow	
Entities and related	User{ * }, Post { * }, Comment { * }, Story { * }, Logs { * }, Chats { u_id},

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Attributes	Broadcast{ user.groups[ ] }

View Active/Inactive

Use Case	View Active/Inactive
Actor	User
Description	Users can hide/unhide their activity status using this feature
Pre-condition	User must be authenticated
Post-condition	Based on the option selected by user, either his/her Active/Inactive will be visible to other users and also to the user of the profiles he/she follows
Basic Flow	● User navigates to privacy panel ● User selects to show activity status on/off ● Based on the option selected user will either be able/not able to view activity status of other user and other users to user
Alternate Flow	
Entities and related Attributes	User { activity }

Save Story

Use Case	Save Story
Actor	User
Description	A user can save a story. A story, when saved, is saved as a jpeg on the user's device.
Pre-condition	User must be authenticated
Post-condition	Story is added to gallery,archive based on the option selected
Basic Flow	● User uploads a story ● If add to gallery option is enabled then story is added to gallery

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Alternate Flow	● If add to archive option is selected then, story will be added to archive section
	● Here instead of story if user goes live then similar functionality of story is applied
Entities and related Attributes	No database interaction

Surf Explore Section

Use Case	Surf Explore Section
Actor	User
Description	User can view and interact with the posts recommended in the explore section
Pre-condition	User must be authenticated
Post-condition	User is on a page which has a grid of posts recommended to him/her with which he can interact
Basic Flow	● User navigates to the Explore Section ● User can now view and interact with the posts recommended to him/her based on the posts they've and users they follow have previously liked
Alternate Flow	
Entities and related Attributes	To be done with ML

Chats

Use Case	Chats
Actor	User

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Description	
Pre-condition	User must be authenticated
Post-condition	-
Basic Flow	● User navigates to search bar ● User searches for a account ● User sends message ● Other user receives the message
Alternate Flow	● If account of other user is private then chat request is sent to other user ● If user accepts it then only chat can proceed and there will be exchange of message
	● User can also share a post/story in chat with message ● Sharing of image/video can be of multiple types one time view/ session view and permanent
	● User can also add his/her friends/follower to a group(limit 32) ● If account is private notification regarding group will be send to user or for public account will be added directly to the group ● All the members of group can add/remove people from group
	● User can also toggle notification for video/voice call and messages
Entities and related Attributes	Chats { * }, Broadcast { * }

Allow Replies and Reactions on stories

Use Case	Allow Replies and Reactions on stories
Actor	User
Description	User can toggle between the options provided for allowing the replies and reactions on his/her story
Pre-condition	User must be authenticated
Post-condition	Only the users abiding the option selected by the user can reply to the user's story

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Basic Flow	- User navigates to "Settings" - User selects "Privacy" - User navigates to "Interactions' and selects "Story" - User toggles between the options provided to him/her, i.e., Your Followers/Followers You Follow Back/Off
Alternate Flow	
Entities and related Attributes	User { allowReplyReaction } Chat { * }

Allow sharing of stories

Use Case	Allow sharing of stories
Actor	User
Description	User can enable/disable the ability of his/her followers' of sharing his story as they share posts with other users in the chat
Pre-condition	User must be authenticated
Post-condition	User's followers might/might not be able to share his/her story with other users like a post in the chat depending upon the setting preferred by the user
Basic Flow	- User navigates to "Settings" - User selects "Privacy" - User navigates to "Interactions' and selects "Story" - User enables/disables the allow sharing feature
Alternate Flow	
Entities and related Attributes	User { shareStory}, Story{ s_id, sharedCount}, Chats{ * }

User can manage his/her Browser(Instagram's) settings

Use Case	User can manage his/her Browser(Instagram's) settings
Actor	User

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Description	User can clear the browsing history, add contact info and enable/disable auto-fill of forms
Pre-condition	User must be authenticated
Post-condition	The browser history will be cleared, auto filling of contact forms will be enabled /disabled and can edit/add contact info depending on what actions user takes for managing the browser settings
Basic Flow	● User navigates to "Settings" ● User selects "Account" ● User selects "Browser Settings" ● User can clear browsing history, add contact info and enable/disable auto-filling of contact forms
Alternate Flow	
Entities and related Attributes	

Swipe up to visit a link through story

Use Case	Swipe up to visit a link through story
Actor	User
Description	A user can add a link to his/her story, given he/she has a minimum of 10K followers. The user's followers then can swipe up on the stories in which the user attaches a link, to visit that link
Pre-condition	User must be authenticated and must have a minimum of 10K followers
Post-condition	User's followers can swipe up and visit the link attached by the user with the story
Basic Flow	● User navigates to story creating page and adds the content he/she wants to put up on the story ● User selects the attach link option ● User enters the link he/she wants to attach ● User posts the story
Alternate Flow	
Entities and related	

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Attributes	

Manage Room(s)

Use Case	Manage Room(s)
Actor	User
Description	User can create and manage rooms (Add/remove members, delete room)
Pre-condition	User must be authenticated
Post-condition	User and others in the room can conduct video chat in one tap
Basic Flow	- User navigates to room(s) section in chats - User either creates a new room or long presses an existing room to manage it - A room is created and any of the members can access this room
Alternate Flow	
Entities and related Attributes	

View Story/Live

Use Case	View Story/Live
Actor	User
Description	User can view his/her or other user's story/live who he/she follows or of public profiles
Pre-condition	User must be authenticated
Post-condition	User can share, report, reply and react to the story/live if he/she feels like
Basic Flow	● User navigates to the profile of who he/she wants to view the

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	story of ● User can click on the profile picture of the user to view his/her story/live (the profile picture will have violet coloured boundary if there is any story available of that user)
Alternate Flow	● User can directly click on the desired user's story/live emblem in the news feed and view and interact with the story/live
Entities and related Attributes	Story { content, timeStamp, type, viewType, u_id, mention, locatio, music }

Live

Use Case	Live
Actor	User
Description	User can go live and and post the live on his/her feed at the end of the live
Pre-condition	User just be authenticated
Post-condition	User's followers can see and interact with his/her live
Basic Flow	● User navigates to the GoLive Section ● User selects GoLive and is live now ● User ends the live session
Alternate Flow	● User is asked to either post the live session or to discard the media
Entities and related Attributes	Live Archive { * }