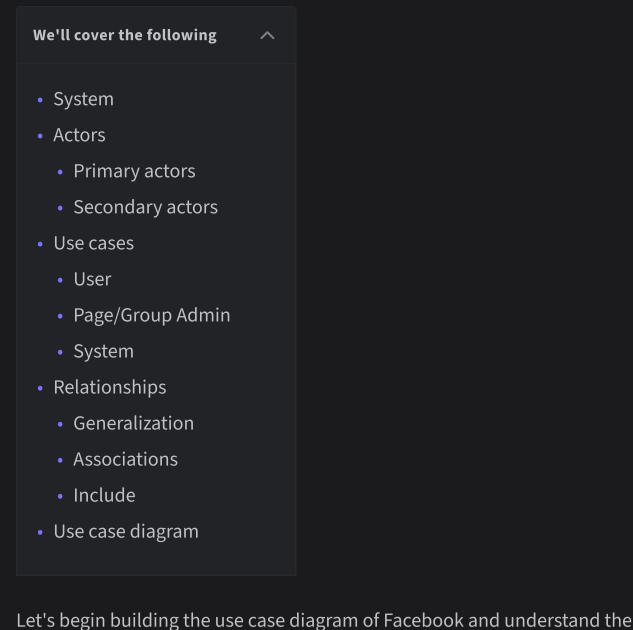
Use Case Diagram for Facebook

Learn how to define use cases and create the corresponding use case diagram for the Facebook problem.



relationship between its different components.

System

System

Our system is "Facebook."

Actors

First, we are going to define the different elements of our Facebook system, followed

Now, we'll define the main actors of Facebook. **Primary actors**

• **User:** This actor can create a profile of themselves containing their personal

sending them friend requests and messages, commenting on their posts, etc. Secondary actors

Page/Group Admin: The admin is in charge of performing numerous operations, including blocking or unblocking users from groups or pages, deleting an existing group, changing the group's privacy, etc.

• System: This is responsible for sending out notifications for new friend requests,

information. They can create posts, pages, and groups, and add various sorts of

multimedia like images or videos. They can also interact with other users by

In this section, we'll define the use cases for Facebook. We have listed the use cases

User

messages, comments, etc.

Note: You'll see some use cases occurring multiple times because they are shared among different actors in the system.

Add/update profile: To add information like work, education, and places of visit

according to their respective interactions with a particular actor.

Follow/unfollow user: To follow or unfollow other users

including liking, following, or sharing an existing page.

Send message: To send a message to other users

Send friend request: To send a friend request to other users
Create/like/follow/share page: To either create a new page or perform actions

Create/join/leave group: To either create a new group or perform actions like

• Add/update/delete post: To add a new post, update the content of the post, or

Add/update/delete/like comment: To add a new comment, update the content

Invite users to group: To invite other users to an existing group.

delete an existing post

joining or leaving an existing group

details or to update an existing profile

• Like/comment/share post: To like a post, comment on a post, or share a post

groups or pages, or any posts made by users

invitation from another Facebook user

Enable/disable page: To enable or disable a page

on Facebook

System

section.

of the comment, like a particular comment, or delete a comment

Update privacy: To update the privacy settings of the profile

• Search users/groups/pages/posts: To search for other users, any existing

• Accept/reject friend request: To accept or reject a friend request from another

- Accept/Reject friend request: To accept or reject a friend request from another
 Facebook user

 Accept/Reject group join invitation: To accept or reject a group joining
- Page/Group Admin

 Block/unblock user: To block or unblock a user from a group or page

• Like/Comment/Share Post: To like, comment, or share any post visible to users

Delete group: To delete an existing group
 Change a group's privacy: To change the privacy settings of a group (from public to private and vice versa)

• **Send new friend request notification:** To send a notification of any friend

• **Send message notification:** To send a notification of any new messages

Send comment notification: To send a notification of any comments on your or

• **Send new post notification:** To send a notification of any new posts

RelationshipsWe describe the relationships between and among actors and their use cases in this

"pages," and "posts" use cases.

others' posts

Generalization

Associations

Add/update profile

User

Create/like/follow/share page

Create/join/leave group

Add/update/delete post

Add/update/delete/like

Accept/reject friend request

users/groups/pages/posts

Accept/Reject friend request

Accept/Reject group join

comment

Search

invitation

4

Update privacy

Invite user to group

cases.

request sent by another user

The "Page/Group Admin" has a generalization relationship with the "User" as the admin can perform all those tasks that a normal user can perform.
We can search for other users, groups, pages, or even posts. This shows that the

The table below shows the association relationship between actors and their use

Add/update profile

"Search" use case has a generalization relationship with the "users," "groups,"

Follow/unfollow user
Follow/unfollow user
Send message
Send message
Send new post notification
Send friend request
Send comment notification

Create/like/follow/share page

Create/join/leave group

Add/update/delete post

Add/update/delete/like comment

Search users/groups/pages/posts

Accept/reject friend request

Update privacy

Block/unblock user

Enable/disable page

Invite user to group

Page/Group Admin

System

Send new friend request

Like/Comment/Share Post Delete group Change a group's privacy Include The "Send friend request" use case also has an include relationship with the "Send new friend request notification," because whenever a user receives a friend request, the user is notified. The "Send message" use case has an include relationship with the "Send message notification" use case, because whenever a user receives a message, the user is notified. The "Add post" use case has an include relationship with the "Send new post notification" use case. Whenever a new post is created by a user being followed by the default user, the default user is notified. The "Add comment" use case has an include relationship with the "Send new comment notification" use case. Whenever a new comment is made by another user on a post either created by the default user or followed by the default user, the default user is notified. Use case diagram Here's the use case diagram of Facebook:

Facebook

Send friend

request

Accept/Reject

friend request

Like/Comment/

Share Post

Add/Update/

Delete/Like

comment

Send message

Accept/Reject group

join invitation

Enable/Disable

page

<<include>>

<<include>>

<<include>>

Send new friend

request notification

Send new post

notification

Add/Update/

Delete Post

Send

new comment

notification

Send message

notification

Update privacy

Delete group

System

<<include>> ♠

Create/Join/ Leave group Create/Like/

Add/Update

profile

Follow/Unfollow

user

Follow/Share

page

Search

users/groups/

pages/posts

Invite user

to group

Block/Unblock

user

Page/Group Admin

Change group's privacy

The use case diagram of Facebook

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